

CRUNCH 00/00/00
 ALTER 1,1
 ALTER 328
 ALTER 373
 ALTER 399
 ALTER 425,429
 ALTER 440,440
 ALTER 445
 ALTER 488,506
 ALTER 519,528
 ALTER 530,530
 ALTER 532,544
 ALTER 551,561
 ALTER 723,728
 ALTER 741,741
 ALTER 777
 ALTER 781,782
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 ALTER 1606,1606
 ALTER 1668,1672
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 ALTER 1745,1746
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 ALTER 2015,2016
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MIT MUSEUM 93.32

ALTER 4029,4032
 ALTER 4037
 ALTER 4048,4048
 ALTER 4064,4065
 ALTER 4196,4196
 ALTER 4382,4382
 ALTER 4598,4640
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 ALTER 5015,5015
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 ALTER 8317
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| ALTER | 8596,8596 | |
| ALTER | 8597 | |
| ALTER | 8602 | |
| ALTER | 8604,8604 | |
| ALTER | 8608,8608 | \$ORG CONTENTS ARE IN ADDRESS |
| ALTER | 8618,8618 | |
| ALTER | 8631,8631 | SAME AS 8608 |
| ALTER | 8648 | |
| ALTER | 8662,8662 | |
| ALTER | 8685 | |
| ALTER | 8686,8686 | |
| ALTER | 8690 | |
| ALTER | 8700 | |
| ALTER | 8703 | |
| ALTER | 8708 | |
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| ALTER | 8737,8737 | |
| ALTER | 8762,8762 | |
| ALTER | 8764,8764 | |
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| ALTER | 8790,8791 | |
| ALTER | 8794,8794 | |
| ALTER | 8796,8796 | |
| ALTER | 8804 | |
| ALTER | 8808,8808 | |
| ALTER | 8809 | |
| ALTER | 8812,8812 | |
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| ALTER | 8822,8823 | |
| ALTER | 8833 | |
| ALTER | 8845,8845 | |
| ALTER | 8854,8855 | |
| ALTER | 8858,8860 | |
| ALTER | 8864,8865 | |
| ALTER | 8866,8866 | |
| ALTER | 8868,8870 | |
| ALTER | 8875,8875 | |
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| ALTER | 8885,8886 | |
| ALTER | 8899,8899 | |
| ALTER | 8910 | |
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| ALTER | 8923,8924 | |
| ALTER | 8933,8933 | |
| ALTER | 8936,8967 | |
| ALTER | 8970,8970 | |
| ALTER | 8974 | |
| ALTER | 8976,8976 | |
| ALTER | 8979 | |

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| ALTER | 8980,8981 | |
| ALTER | 8988 | |
| ALTER | 8991,8991 | |
| ALTER | 8994 | |
| ALTER | 9023,9023 | |
| ALTER | 9047,9047 | |
| ALTER | 9055,9066 | CHANGE MOVE FOR 2 WORD CALL |
| ALTER | 9070,9070 | |
| ALTER | 9072 | |
| ALTER | 9089,9089 | |
| ALTER | 9090,9091 | |
| ALTER | 9093,9093 | |
| ALTER | 9094,9094 | |
| ALTER | 9095,9095 | |
| ALTER | 9098,9099 | |
| ALTER | 9102,9102 | |
| ALTER | 9103,9103 | |
| ALTER | 9106,9106 | |
| ALTER | 9108 | |
| ALTER | 9111,9111 | |
| ALTER | 9225,9228 | |
| ALTER | 9363,9363 | |
| ALTER | 9369,9369 | |
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| ALTER | 9569,9571 | |
| ALTER | 9647,9649 | |
| ALTER | 9950,9950 | |
| ALTER | 9954,9954 | |
| ALTER | 10440,10440 | |
| ALTER | 10442,10442 | |
| ALTER | 10447,10447 | |
| ALTER | 10450,10450 | |
| ALTER | 10456,10456 | |
| ALTER | 10460,10460 | |
| ALTER | 10464,10464 | |
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| ALTER | 10661,10662 | |
| ALTER | 10664,10665 | |
| ALTER | 10667,10668 | |
| ALTER | 10670,10671 | |
| ALTER | 10673,10674 | |
| ALTER | 10676,10677 | |
| ALTER | 10679,10680 | |
| ALTER | 10682,10683 | |
| ALTER | 10685,10686 | |
| ALTER | 10688,10689 | |
| ALTER | 11033,11042 | TAGS IN NEW DIGITS |
| ALTER | 11179 | |
| ALTER | 11233,11233 | |
| ALTER | 11270,11270 | |
| ALTER | 11315 | |

RDW OPSYN NULL
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MEMPHIS, TENN.

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|----|---|-------|------------|--|----|-------------------------------|---|-------------------------------------|---|----------|
| 2 | | | | PCC | | | | | | |
| 3 | | | | ZST | | | | | | |
| 4 | * | | | M948-508,FMS,DEBUG,20,40,20000,700 | | ASSEMBLE LISP 1.5 | | LISPHERE | | |
| 5 | * | | | FAP | | | | LC000200 | | |
| 6 | | | | COUNT 13000 | | | | LC000300 | | |
| 7 | | | | ABS | | | | LC000400 | | |
| 8 | * | | | FIELD TEST ASSEMBLY OF LISP 1.5 | | SEPTEMBER 1961 | | | | |
| 9 | * | * | * | * | * | * | * | * | * | LC003500 |
| 10 | * | | | | | | | LC003600 | | |
| 11 | * | | | | | | | LC003700 | | |
| 12 | * | | | THIS IS THE 709 SECTION OF THE UPPER VERSION OF RWTL | | | | LC003800 | | |
| 13 | * | | | SHARE DIST NO. 709 AND 741 | | | | LC003900 | | |
| 14 | * | | | IT LOADS BINARY 704 STYLE CARDS AND OCTAL CORRECTION CARDS | | | | LC004000 | | |
| 15 | * | | | ON LINE | | | | LC004100 | | |
| 16 | * | | | | | | | LC004200 | | |
| 17 | L | | | HED | | | | LC004400 | | |
| | | 77721 | | ORG -47 | | TO POSITION LOAD AT -42 | | LC004600 | | |
| 18 | | | | 709 BINARY-OCTAL BOOTSTRAP LOADER | | | | LC004500 | | |
| 19 | * | | | 709 BINARY-OCTAL BOOTSTRAP LOADER | | | | LC004500 | | |
| 20 | | 77721 | 0 00025 0 | 77724 | 20 | IOCD LOAD,0,21 | | COMMAND TO LOAD REMAINDER OF LOADER | | LC004700 |
| 21 | | 77722 | 0060 00 0 | 00001 | 21 | TCOA 1 | | DELAY TILL LOADER IN | | LC004800 |
| 22 | | 77723 | 0020 00 0 | 77724 | 22 | TRA LOAD | | | | LC004900 |
| 23 | | 77724 | 0762 00 0 | 01321 | 23 | LOAD RCDA | | INITIATE NEXT CARD | | LC005000 |
| 24 | | 77725 | 0540 00 0 | 77747 | 24 | RCHA LOAD5 | | | | LC005100 |
| 25 | | 77726 | 0060 00 0 | 77726 | 25 | TCOA * | | DELAY TILL CARD IS IN | | LC005200 |
| 26 | | 77727 | 0030 00 0 | 00174 | 26 | TEFA CONTIN | | | | |
| 27 | | 77730 | -0500 00 0 | 77662 | 27 | CAL 9L | | | | LC005300 |
| 28 | | 77731 | 0100 00 0 | 77750 | 28 | TZE LOAD8 | | ZERO IMPLIES OCTAL CARD | | LC005400 |
| 29 | | 77732 | -0734 00 6 | 00000 | 29 | PDX ,6 | | SET WORD COUNT | | LC005500 |
| 30 | | 77733 | 0630 00 0 | 77746 | 30 | STP LOAD4 | | SET TO CHECK OR IGNORE SUM | | LC005600 |
| 31 | | 77734 | 0621 00 0 | 77735 | 31 | STA LOAD2 | | SET CARD ORIGIN | | LC005700 |
| 32 | | 77735 | -3 00000 4 | 00000 | 32 | LOAD2 TXL ****,4,0 | | OUT IF TRANSFER CARD | | LC005800 |
| 33 | | 77736 | 0774 00 4 | 00000 | 33 | AXT 0,4 | | SET I4 TO ZERO | | LC005900 |
| 34 | | 77737 | 0560 00 4 | 77664 | 34 | LOAD3 LDQ 9R+1,4 | | PICK UP WORD | | LC006000 |
| 35 | | 77740 | -0600 60 0 | 77735 | 35 | STQ* LOAD2 | | STORE WORD | | LC006100 |
| 36 | | 77741 | 0361 60 0 | 77735 | 36 | ACL* LOAD2 | | ADD TO CHECK SUM | | LC006200 |
| 37 | | 77742 | 1 77777 4 | 77743 | 37 | TXI **1,4,-1 | | ADVANCE FOR NEXT WORD | | LC006300 |
| 38 | | 77743 | 2 00001 2 | 77737 | 38 | TIX LOAD3,2,1 | | COUNT WORDS TO BE STORED | | LC006400 |
| 39 | | 77744 | 0322 00 0 | 77663 | 39 | ERA 9R | | COMPARE CHECK SUMS | | LC006500 |
| 40 | | 77745 | 0100 00 0 | 77724 | 40 | TZE LOAD AGREE-LOAD NEXT CARD | | | | LC006600 |
| 41 | | 77746 | 0 00000 0 | 77724 | 41 | LOAD4 HTR LOAD | | ERROR-START TO READ NEXT CARD | | LC006700 |
| 42 | | 77747 | 0 00030 0 | 77662 | 42 | LOAD5 IOCD 9L,0,24 | | COMMAND TO BRING IN BINARY IMAGE | | LC006800 |
| 43 | | 77750 | 0774 00 5 | 00016 | 43 | LOAD8 AXT 14,5 | | 14 TO IRI AND IR 4 | | LC006900 |
| 44 | * | | | | | | | LC009900 | | |
| 45 | | | | | | | | LC007200 | | |
| 46 | * | | | | | | | LC010200 | | |
| 47 | | 77751 | 0774 00 2 | 00002 | 47 | LOAD9 AXT 2,2 | | SET TO COUNT FIELD PAIRS | | LC007300 |
| 48 | | 77752 | -0500 00 4 | 77704 | 48 | CAL 9L+18,4 | | ROW | | LC007400 |
| 49 | | 77753 | -0602 00 1 | 77700 | 49 | DRS 9L+14,1 | | ROW UNION | | LC007500 |
| 50 | | 77754 | 0560 00 1 | 77700 | 50 | LDQ 9L+14,1 | | | | LC007600 |
| 51 | | 77755 | 1 00026 2 | 77765 | 51 | TXI LOD11,2,22 | | SET TO PEEL OFF SIX BITS | | LC007700 |
| 52 | | 77756 | 3 00002 4 | 77760 | 52 | LOD10 TXH **2,4,2 | | SKIP STORE TILL AFTER ONE-ROW | | LC007800 |
| 53 | | 77757 | 0602 00 0 | 00000 | 53 | SLW **** | | STORE OCTAL CORRECTION | | LC007900 |
| 54 | | 77760 | 2 00001 2 | 77755 | 54 | TIX *-3,2,1 | | ADVANCE TO NEXT PAIR, THIS HALF | | LC008000 |
| 55 | | 77761 | 2 00002 4 | 77751 | 55 | TIX LOAD9,4,2 | | ADVANCE TO NEXT ROW | | LC008100 |

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| 77762 | -2 | 00015 | 5 | 77725 | 56 | TXN | LOAD+1,5,13 | OUT AFTER RIGHT HALF | LC008200 |
| 77763 | 0762 | 00 | 0 | 01321 | 57 | RCDA | | START NEXT CARD | LC008300 |
| 77764 | 1 | 00014 | 5 | 77751 | 58 | TXI | LOAD9,5,12 | ADVANCE TO RIGHT HALF CARD | LC008400 |
| 77765 | 0760 | 00 | 0 | 00000 | 59 | LOD11 | CLM | CLEAR AC | LC008500 |
| 77766 | 0767 | 00 | 0 | 00002 | 60 | ALS | 2 | | LC008600 |
| 77767 | -0763 | 00 | 0 | 00001 | 61 | LGL | 1 | PEEL OFF BITS | LC008700 |
| 77770 | 2 | 00004 | 2 | 77766 | 62 | TXI | LOD11+1,2,4 | COUNT COLUMNS PER FIELD | LC008800 |
| 77771 | 3 | 00014 | 4 | 77773 | 63 | TXH | *+2,4,12 | USE 7-ROW AS FIRST SUM | LC008900 |
| 77772 | 0361 | 00 | 2 | 77712 | 64 | ACL | 11L+4,2 | ADD PREVIOUS SUM | LC009000 |
| 77773 | 0602 | 00 | 2 | 77712 | 65 | SLW | 11L+4,2 | NEW PARTIAL SUM | LC009100 |
| 77774 | -2 | 00002 | 2 | 77756 | 66 | TXN | LOD10,2,2 | OUT IF SECOND FIELD OF PAIR | LC009200 |
| 77775 | 0621 | 00 | 0 | 77757 | 67 | STA | LOD10+1 | STORE ADDRESS OF CORRECTION | LC009300 |
| 77776 | 1 | 00054 | 2 | 77765 | 68 | TXI | LOD11,2,44 | RETURN TO PEEL OFF 12 BITS | LC009400 |
| | | | | | 69 | * | | | |
| 77777 | 0 | 00133 | 0 | 77777 | 70 | | -1,-STS | LEAD WORD FOR ATOM VERITAS-NUMQUAM-PERIT | |
| | | | | | 71 | * | | | |
| | | | | 77662 | 72 | ORG | LOAD-34 | COMMON STORAGE | |
| 77662 | | | | | 73 | COMMON BSS | 0 | | LC047600 |
| 77662 | | | | | 74 | 9L BSS | 24 | INPUT BUFFER | LC009600 |
| | | | | 77663 | 75 | 9R SYN | 9L+1 | CARD CHECK SUM | LC009700 |
| | | | | 77706 | 76 | 11L SYN | 9L+20 | TEMPORARY FOR OCTAL | LC009800 |
| | | | | 77724 | 77 | LOADER SYN | LOAD | | 00000007 |
| | | | | | 78 | * | | | |
| | | | | | 79 | * | PROPERTY LISTS FOR THE SPECIAL ATOMS NIL AND VERITAS-NUNQUAM-PERIT THE | | |
| | | | | | 80 | * | ZERO AND THE BINARY TRUTH ATOMS RESPECTIVELY | | |
| | | | | | 81 | * | | | |
| | | | | 77640 | 82 | ORG | COMMON-18 | | |
| 77640 | 0 | 00137 | 0 | 07335 | 83 | NILSXX | \$PNAME,,--1 | | |
| 77641 | 0 | 00000 | 0 | 00136 | 84 | | --1 | | |
| 77642 | -0 | 00000 | 0 | 00135 | 85 | MZE | --1 | | |
| 77643 | -053143777777 | | | | 86 | OCT | 453143777777 | NIL | |
| 77644 | 0 | 00000 | 0 | 00370 | 87 | NILLOC | \$ZERO | | |
| | | | | | 88 | * | | | |
| 77645 | 0 | 00132 | 0 | 10742 | 89 | STS | \$APVAL,,--1 | | |
| 77646 | -0 | 00130 | 0 | 00131 | 90 | MZE | --1,,--2 | | |
| 77647 | 0 | 00000 | 0 | 00001 | 91 | | 1 | IS A CONSTANT ,,1 FOR APPLY | |
| 77650 | 0 | 00127 | 0 | 07335 | 92 | | \$PNAME,,--1 | | |
| 77651 | 0 | 00000 | 0 | 00126 | 93 | | --1 | | |
| 77652 | -0 | 00000 | 0 | 00125 | 94 | MZE | --1 | | |
| 77653 | 546351642554 | | | | 95 | RCI | 1,*TRUE* | | |
| | | | | | 96 | * | | | |
| | | | | | 97 | | ***** | | LC010300 |
| | | | | | 98 | | BOOTSTRAP RECORD FOR 709 LISP | | LC010400 |
| | | | | | 99 | | | | LC010500 |
| | | | | 00144 | 100 | ORG | 100 | BEGIN LISP | |
| | | | | | 101 | HEAD | 8 | | 1.5M4770 |
| | | | | | 102 | * | | | 1.5L0020 |
| | | | | | 103 | * BOTTOM | THE BOOTSTRAP RECORD FOR LISP ON SYSTEM AND TEMPORARY TAP | | 1.5L0030 |
| | | | | | 104 | * | | | 1.5L0040 |
| | | | | 00144 | 105 | BOTTOM IOCD | BOTTOM+3,,BSRECL-2 I-D COMMAND TO READ IN BOOTSTRAP REC. | | 1.5L0050 |
| | | | | 00145 | 106 | TCOA | 1 | WAIT UNTIL RECORD IS READ IN | 1.5L0060 |
| | | | | 00146 | 107 | TRA | BOTTOM+3 | START OF LISP | 1.5L0070 |
| | | | | 00147 | 108 | AXT | 3,4 | NUMBER OF WORDS IN LOWER MEMORY | 1.5L0080 |
| | | | | 00150 | 109 | CLA | 3,4 | MOVE THEM TO ORIGINAL POSITION | 1.5L0090 |

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| 00151 | 0601 | 00 | 4 | 00147 | 110 | STD | BOTTOM+3,4 | 1.5L0100 |
| 00152 | 2 | 00001 | 4 | 00150 | 111 | TIX | *-2,4,1 | 1.5L0110 |
| 00153 | 0774 | 00 | 4 | 00366 | 112 | AXT | BSRECL,4 | 1.5L0120 |
| 00154 | -0754 | 00 | 0 | 00000 | 113 | PXD | 0,0 | 1.5L0130 |
| 00155 | 0361 | 00 | 4 | 00532 | 114 | ACL | CHKSUM,4 | 1.5L0140 |
| 00156 | 2 | 00001 | 4 | 00155 | 115 | TIX | *-1,4,1 | 1.5L0150 |
| 00157 | 0322 | 00 | 0 | 00532 | 116 | ERA | CHKSUM | 1.5L0160 |
| 00160 | 0100 | 00 | 0 | 00162 | 117 | TZE | *+2 | 1.5L0170 |
| 00161 | 0420 | 00 | 0 | 00001 | 118 | HPR | 1 | 1.5L0180 |
| 00162 | 0500 | 00 | 0 | 00201 | 119 | CLA | STRA | |
| 00163 | 0601 | 00 | 0 | 00002 | 120 | STD | 2 | |
| 00164 | 0500 | 00 | 0 | 00200 | 121 | CLA | FLTRA | |
| 00165 | 0601 | 00 | 0 | 00010 | 122 | STD | 8 | |
| 00166 | 0500 | 00 | 0 | 00367 | 123 | CLA | SYSTAP | 1.5L0190 |
| 00167 | 0074 | 00 | 4 | 00276 | 124 | TSX | \$(IOS),4 | 1.5L0200 |
| 00170 | 0074 | 00 | 4 | 00202 | 125 | TSX | LRTAPE,4 | 1.5L0210 |
| 00171 | 0 | 77241 | 0 | 00537 | 126 | | LOWREG,-LOWREG | |
| 00172 | 0522 | 00 | 0 | 00352 | 127 | XEC | \$REW | 1.5L0230 |
| 00173 | 0020 | 00 | 0 | 77724 | 128 | TRA | \$LOAD | 1.5L0240 |
| | | | | 129 * | | | | 1.5L0250 |
| 00174 | 0500 | 00 | 0 | 00177 | 130 | CONTIN | CLA | |
| 00175 | 0601 | 00 | 0 | 00000 | 131 | STD | 0 | |
| 00176 | 0020 | 00 | 0 | 1Q230 | 132 | TRA | OVRLRD | |
| | | | | 133 * | | | | |
| | | | | 134 * | | | | |
| | | | | 135 * | | | | |
| 00177 | 0 | 00140 | 0 | 77777 | 136 | ZERC | -1,-NLSXX | |
| 00200 | 0021 | 00 | 0 | 01707 | 137 | FLTRA | TTR | |
| 00201 | 0021 | 00 | 0 | 17061 | 138 | STRA | TTR | |
| | | | | 00200 | 139 | FLAPCX | SYN | |
| | | | | 00201 | 140 | FLAPCY | SYN | |
| | | | | 00177 | 141 | FLAPCZ | SYN | |
| | | | | 142 * | | | | 1.5L0270 |
| | | | | 143 * | | | | 1.5L0280 |
| | | | | 144 * | | | | 1.5L0290 |
| | | | | 145 * | | | | 1.5L0300 |
| 00202 | 0500 | 00 | 4 | 00001 | 146 | LRTAPE | CLA | |
| 00203 | 0634 | 00 | 4 | 00533 | 147 | SXA | RTRX,4 | |
| 00204 | -0634 | 00 | 2 | 00533 | 148 | SXD | RTRX,2 | |
| 00205 | 0734 | 00 | 2 | 00000 | 149 | RTTWO | PAX | |
| 00206 | 0622 | 00 | 0 | 00207 | 150 | STD | *+1 | |
| 00207 | 1 | 00000 | 2 | 00210 | 151 | TXI | *+1,2,** | |
| 00210 | 0634 | 00 | 2 | 00534 | 152 | SXA | RTADR,2 | |
| 00211 | -0734 | 00 | 2 | 00000 | 153 | PDX | 0,2 | |
| 00212 | 0500 | 00 | 0 | 00205 | 154 | CLA | RTTWO | |
| 00213 | 0625 | 00 | 0 | 00534 | 155 | STT | RTADR | |
| 00214 | -0634 | 00 | 0 | 00534 | 156 | SXD | RTADR,0 | |
| 00215 | 0500 | 00 | 0 | 00362 | 157 | CLA | \$LCH | |
| 00216 | 0601 | 00 | 0 | 00535 | 158 | STD | RTLCH | |
| 00217 | 0500 | 00 | 0 | 00346 | 159 | CLA | \$(IOU) | |
| 00220 | 0601 | 00 | 0 | 00536 | 160 | STD | RTIOU | |
| 00221 | -0625 | 00 | 0 | 00357 | 161 | STL | \$TCO | |
| 00222 | 0522 | 00 | 0 | 00357 | 162 | XEC | \$TCO | |
| 00223 | 0760 | 00 | 0 | 00005 | 163 | LOT | | |

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| 00224 | 0761 | 00 | 0 | 00000 | 164 | | | NOP | | | |
| 00225 | -0774 | 00 | 4 | 00225 | 165 | | | AXC | *4 | | 1.5L0490 |
| 00226 | 0522 | 00 | 0 | 00360 | 166 | | | XEC | \$TRC | TURN OFF INDICATOR | 1.5L0500 |
| 00227 | 0522 | 00 | 0 | 00356 | 167 | | | XEC | \$TEF | TURN OFF INDICATOR | 1.5L0510 |
| 00230 | 0522 | 00 | 0 | 00350 | 168 | RTRD | | XEC | \$RDS | SELECT TAPE | 1.5L0520 |
| 00231 | -0754 | 00 | 0 | 00000 | 169 | | | PXD | 0,0 | CLEAR AC | 1.5L0530 |
| 00232 | -0774 | 00 | 4 | 00274 | 170 | | | AXC | RTIOC,4 | POINTER TO I-O COMMAND | 1.5L0540 |
| 00233 | 0522 | 00 | 0 | 00361 | 171 | | | XEC | \$RCH | RESET AND LOAD CHANNEL | 1.5L0550 |
| 00234 | 0522 | 00 | 0 | 00535 | 172 | RTLCL | | XEC | RTLCH | LOAD CHANNEL | 1.5L0560 |
| 00235 | 0560 | 00 | 0 | 00537 | 173 | | | LDQ | CHKSUM | PICK UP WORD READ IN | 1.5L0570 |
| 00236 | -0600 | 60 | 0 | 00534 | 174 | | | STQ* | RTADR | PUT IT AWAY | 1.5L0580 |
| 00237 | 0361 | 60 | 0 | 00534 | 175 | | | ACL* | RTADR | ADD TO CHECK SUM | 1.5L0590 |
| 00240 | 2 | 00001 | 2 | 00234 | 176 | | | TIX | RTLCL,2,1 | DO ANOTHER LOAD CHANNEL | 1.5L0600 |
| 00241 | -0774 | 00 | 4 | 00275 | 177 | | | AXC | RTIOD,4 | POINTER TO DISCONNECT INSTRUCTION | 1.5L0620 |
| 00242 | 0522 | 00 | 0 | 00535 | 178 | | | XEC | RTLCH | XEC LCH INS. | 1.5L0630 |
| 00243 | 0322 | 00 | 0 | 00532 | 179 | | | ERA | CHKSUM | SUBTRACT CHECK SUMS | 1.5L0640 |
| 00244 | 0602 | 00 | 0 | 00532 | 180 | | | SLW | CHKSUM | STORE DIFFERENCE | 1.5L0650 |
| 00245 | 0500 | 00 | 0 | 00536 | 181 | | | CLA | RTIOU | PICK UP CURRENT IOU | 1.5L0660 |
| 00246 | 0074 | 00 | 4 | 00276 | 182 | | | TSX | \$(IOS),4 | SET UP I-O COMMANDS | 1.5L0670 |
| 00247 | -0625 | 00 | 0 | 00357 | 183 | | | STL | \$TCO | WAIT FOR CHANNEL TO GO OUT OF OPERATION | 1.5L0680 |
| 00250 | 0522 | 00 | 0 | 00357 | 184 | | | XEC | \$TCO | | 1.5L0690 |
| 00251 | 0760 | 00 | 0 | 00005 | 185 | | | IOT | | TEST INDICATOR | 1.5L0700 |
| 00252 | 0020 | 00 | 0 | 00263 | 186 | | | TRA | RCK | TRY AGAIN | 1.5L0710 |
| 00253 | 0520 | 00 | 0 | 00532 | 187 | | | ZET | CHKSUM | SKIP IF CHECK SUMS AGREE | 1.5L0720 |
| 00254 | 0020 | 00 | 0 | 00263 | 188 | | | TRA | RCK | TRY AGAIN | 1.5L0730 |
| 00255 | -0774 | 00 | 4 | 00263 | 189 | | | AXC | RCK,4 | | 1.5L0740 |
| 00256 | 0522 | 00 | 0 | 00360 | 190 | | | XEC | \$TRC | TEST FOR REDUNDANCY | |
| 00257 | 0522 | 00 | 0 | 00356 | 191 | | | XEC | \$TEF | AND EOF | |
| 00260 | 0534 | 00 | 4 | 00533 | 192 | | | LXA | RTRX,4 | RESTORE INDEX REGISTERS | 1.5L0770 |
| 00261 | -0534 | 00 | 2 | 00533 | 193 | | | LXD | RTRX,2 | | 1.5L0780 |
| 00262 | 0020 | 00 | 4 | 00002 | 194 | | | TRA | 2,4 | EXIT | 1.5L0790 |
| | | | | | 195 | * | | | | | 1.5L0800 |
| 00263 | -0534 | 00 | 2 | 00534 | 196 | RCK | | LXD | RTADR,2 | DID NOT WORK, SEE IF FIRST OR SECOND | 1.5L0810 |
| 00264 | -3 | 00000 | 2 | 00266 | 197 | | | TXL | **2,2,0 | | |
| 00265 | 0420 | 00 | 0 | 00002 | 198 | | | HPR | 2 | SECOND TRY FAILED, STOP | 1.5L0830 |
| 00266 | -0634 | 00 | 4 | 00534 | 199 | | | SXD | RTADR,4 | MAKE NON-ZERO | 1.5L0840 |
| 00267 | 0522 | 00 | 0 | 00355 | 200 | | | XEC | \$BSR | BACK SPACE AND TRY AGAIN | 1.5L0850 |
| 00270 | 0534 | 00 | 4 | 00533 | 201 | | | LXA | RTRX,4 | GET CALL WORD IR | 1.5L0860 |
| 00271 | 0500 | 00 | 4 | 00001 | 202 | | | CLA | 1,4 | CALL PARAMETER | 1.5L0870 |
| 00272 | -0734 | 00 | 2 | 00000 | 203 | | | PDX | 0,2 | COUNT TO IR 2 | 1.5L0880 |
| 00273 | 0020 | 00 | 0 | 00230 | 204 | | | TRA | RTRD | | 1.5L0890 |
| | | | | | 205 | * | | | | | 1.5L0900 |
| 00274 | -1 | 00001 | 0 | 00532 | 206 | RTIOC | IOCT | CHKSUM,,1 | | BRING IN 1 WORD | 1.5L0910 |
| 00275 | 0 | 00000 | 0 | 00000 | 207 | RTIOD | IOCD | 0,,0 | | DISCONNECT CHANNEL | 1.5L0920 |
| | | | | | 208 | * | | | | | 1.5L0970 |
| | | | | | 209 | * | | | | | 1.5M4160 |
| | | | | | 210 | * | | | | | 1.5M4170 |
| | | | | | 211 | * | | | | | 1.5M4180 |
| 00276 | 0340 | 00 | 0 | 00346 | 212 | (IOS) | CAS | IOU | | CHECK TO SEE IF SAME UNIT AS LAST TIME | 1.5M4190 |
| 00277 | 0020 | 00 | 0 | 00301 | 213 | | TRA | **2 | | NO | 1.5M4200 |
| 00300 | 0020 | 00 | 4 | 00001 | 214 | | TRA | 1,4 | | YES EXIT | 1.5M4210 |
| 00301 | 0634 | 00 | 4 | 00325 | 215 | | SXA | IOSX,4 | | NO, SAVE LINK IR | 1.5M4220 |
| 00302 | 0634 | 00 | 2 | 00324 | 216 | | SXA | IOSY,2 | | SAVE INDEX 2 | |
| 00303 | 0601 | 00 | 0 | 00346 | 217 | | STO | IOU | | UPDATE IOU | 1.5M4230 |

| | | | | | | | | | |
|-------|-------|-------|---|-------|-----|-------|--|---|----------|
| 00304 | 0621 | 00 | 0 | 00350 | 218 | STA | \$RDS | UPDATE ADDRESSES OF TAPE COMMANDS | 1.5M4240 |
| 00305 | 0621 | 00 | 0 | 00351 | 219 | STA | \$WRS | | 1.5M4250 |
| 00306 | 0621 | 00 | 0 | 00352 | 220 | STA | \$REW | | 1.5M4260 |
| 00307 | 0621 | 00 | 0 | 00355 | 221 | STA | \$BSR | | 1.5M4270 |
| 00310 | 0621 | 00 | 0 | 00353 | 222 | STA | \$WEF | | 1.5M4280 |
| 00311 | 0120 | 00 | 0 | 00313 | 223 | TPL | **2 | TAPE IN NORMAL DENSITH (BIN=HI, BCD=LO) | 1.5M4290 |
| 00312 | 0322 | 00 | 0 | 00347 | 224 | ERA | IOSBB | CHANGE DENSITY BIT | 1.5M4300 |
| 00313 | 0621 | 00 | 0 | 00354 | 225 | STA | \$SDN | | 1.5M4310 |
| 00314 | 0522 | 00 | 0 | 00354 | 226 | XEC | \$SDN | | 1.5M4320 |
| 00315 | 0774 | 00 | 2 | 00005 | 227 | AXT | 5,2 | NUMBER OF COMMANDS TO BE SET | |
| 00316 | -0734 | 00 | 4 | 00000 | 228 | PDX | 0,4 | CHANNEL NUMBER TO IR | 1.5M4330 |
| 00317 | 1 | 00014 | 4 | 00320 | 229 | TXI | **1,4,12 | TOTAL NUMBER OF COMMANDS - 3 | |
| 00320 | -0500 | 00 | 4 | 00346 | 230 | IOSA | CAL | PICK UP PROPER COMMAND | |
| 00321 | 0602 | 00 | 2 | 00363 | 231 | SLW | COMAND,2 | PUT IN PROPER PLACE | |
| 00322 | -2 | 00003 | 4 | 00324 | 232 | TNX | IOSY,4,3 | DECREMENT BY NUMBER OF CHANNELS | |
| 00323 | 2 | 00001 | 2 | 00320 | 233 | TIX | IOSA,2,1 | LOOP 5 TIMES | |
| 00324 | 0774 | 00 | 2 | 00000 | 234 | IOSY | AXT | RESTORE INDEX 2 | |
| 00325 | 0774 | 00 | 4 | 00000 | 235 | IOSX | AXT | RESTORE LINK IR | 1.5M4380 |
| 00326 | 0020 | 00 | 4 | 00001 | 236 | TRA | 1,4 | | 1.5M4390 |
| | | | | 237 | * | | | | 1.5M4400 |
| | | | | 238 | * | | TAPE COMMANDS FOLLOW | | 1.5M4410 |
| | | | | 239 | * | | | | 1.5M4420 |
| 00327 | 0031 | 00 | 4 | 00000 | 240 | TEFC | 0,4 | | 1.5M4430 |
| 00330 | -0030 | 00 | 4 | 00000 | 241 | TEFB | 0,4 | | 1.5M4440 |
| 00331 | 0030 | 00 | 4 | 00000 | 242 | TEFA | 0,4 | | 1.5M4450 |
| 00332 | 0062 | 00 | 0 | 00000 | 243 | TCOC | ** | | 1.5M4460 |
| 00333 | 0061 | 00 | 0 | 00000 | 244 | TCOB | ** | | 1.5M4470 |
| 00334 | 0060 | 00 | 0 | 00000 | 245 | TCOA | ** | | 1.5M4480 |
| 00335 | 0024 | 00 | 4 | 00000 | 246 | TRCC | 0,4 | | 1.5M4490 |
| 00336 | -0022 | 00 | 4 | 00000 | 247 | TRCB | 0,4 | | 1.5M4500 |
| 00337 | 0022 | 00 | 4 | 00000 | 248 | TRCA | 0,4 | | 1.5M4510 |
| 00340 | 0541 | 00 | 4 | 00000 | 249 | RCHC | 0,4 | | 1.5M4520 |
| 00341 | -0540 | 00 | 4 | 00000 | 250 | RCHB | 0,4 | | 1.5M4530 |
| 00342 | 0540 | 00 | 4 | 00000 | 251 | RCHA | 0,4 | | 1.5M4540 |
| 00343 | 0545 | 00 | 4 | 00000 | 252 | LCHC | 0,4 | | 1.5M4550 |
| 00344 | -0544 | 00 | 4 | 00000 | 253 | LCHB | 0,4 | | 1.5M4560 |
| 00345 | 0544 | 00 | 4 | 00000 | 254 | LCHA | 0,4 | | 1.5M4570 |
| 00346 | 0 | 00000 | 0 | 00000 | 255 | IOU | PZE | LAST UNIT USED | 1.5M4580 |
| 00347 | 0 | 00000 | 0 | 00020 | 256 | IOSBB | PZE | BINARY BIT | 1.5M4590 |
| | | | | 257 | | HEAD | 0 | | 00000003 |
| | | | | 258 | * | | | | 1.5M4600 |
| | | | | 259 | * | | ACTUAL TAPE COMMANDS USED BY PROGRAMS (SHOULD BE UNHEADED) | | 1.5M4610 |
| | | | | 260 | * | | | | 1.5M4620 |
| 00350 | 0762 | 00 | 0 | 01220 | 261 | RDS | RTBA | ** | 1.5M4630 |
| 00351 | 0766 | 00 | 0 | 01220 | 262 | WRS | WTBA | ** | 1.5M4640 |
| 00352 | 0772 | 00 | 0 | 01200 | 263 | REW | REWA | ** | 1.5M4650 |
| 00353 | 0770 | 00 | 0 | 01200 | 264 | WEF | WEFA | ** | 1.5M4660 |
| 00354 | 0761 | 00 | 0 | 00000 | 265 | SDN | NOP | MAKE A SDN INSTRUCTION FOR 7090 | |
| 00355 | 0764 | 00 | 0 | 01200 | 266 | BSR | BSRA | ** | 1.5M4680 |
| 00356 | 0030 | 00 | 4 | 00000 | 267 | TEF | TEFA | 0,4 | 1.5M4690 |
| 00357 | 0060 | 00 | 0 | 00000 | 268 | TCO | TCOA | ** | 1.5M4700 |
| 00360 | 0022 | 00 | 4 | 00000 | 269 | TRC | TRCA | 0,4 | 1.5M4720 |
| 00361 | 0540 | 00 | 4 | 00000 | 270 | RCH | RCHA | 0,4 | 1.5M4730 |
| 00362 | 0544 | 00 | 4 | 00000 | 271 | LCH | LCHA | 0,4 | 1.5M4740 |

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|-------|-----------------|-------|-----|------------|-----------------|--------------------------|----------|
| 00363 | | | 272 | COMAND BSS | 0 | | 1.5M4750 |
| 00363 | 0 00000 0 00000 | | 273 | SYSPT PZF | | ADDRESS, CHANNEL | 1.5M3890 |
| 00364 | 0 00001 0 01203 | | 274 | SYSPT | 1*512+2*64+3,,1 | INITIAL ASSIGNMENT OF A3 | 1.5M3900 |
| 00365 | 0 00000 0 00000 | | 275 | SYSPT | | | 1.5M3910 |
| 00366 | 0 00000 0 00000 | | 276 | SYSTMP | | | 1.5M3920 |
| 00367 | 0 00000 0 00000 | | 277 | SYSTAP | | | 1.5M3930 |
| 00370 | | | 278 | TAPASG BSS | 0 | | 1.5M3940 |
| | | 00276 | 279 | (IOS) SYN | B\$(IOS) | | 00000001 |
| | | 77724 | 280 | LOAD SYN | LOADER | | 00000008 |
| | | 00346 | 281 | (IOU) SYN | B\$IOU | | 00000009 |

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| | | 282 | EJECT | | |
|-----------------------|-----------------|-------|---------------|-----|--------------|
| | | 283 * | CONSTANT POOL | | RDCI0552 |
| | | 284 | | | RDCI0553 |
| 00370 0 00000 0 00000 | | 285 | ZERO | PZE | RDCI0561 |
| 00371 | +000000000001 | 286 | Q1 | DEC | 1 |
| 00372 | +000000000002 | 287 | Q2 | DEC | 2 |
| 00373 | +000000000003 | 288 | Q3 | DEC | 3 |
| 00374 | +000000000004 | 289 | Q4 | DEC | 4 |
| 00375 | +000000000005 | 290 | Q5 | DEC | 5 |
| 00376 | +000000000006 | 291 | Q6 | DEC | 6 |
| 00377 | +000000000007 | 292 | Q7 | DEC | 7 |
| 00400 | +000000000010 | 293 | Q8 | DEC | 8 |
| 00401 | +000000000011 | 294 | Q9 | DEC | 9 |
| 00402 | +000000000012 | 295 | Q10 | DEC | 10 |
| 00403 | +000000000014 | 296 | Q12 | DEC | 12 |
| 00404 | 0 00000 0 00015 | 297 | Q13 | | 13 |
| 00405 | 0 00000 0 00016 | 298 | Q14 | | 14 |
| 00406 | +000000000021 | 299 | Q17 | DEC | 17 |
| 00407 | +000000000024 | 300 | Q20 | DEC | 20 |
| 00410 | +000000000025 | 301 | Q21 | DEC | 21 |
| 00411 | 0 00000 0 00026 | 302 | Q22 | | 22 |
| 00412 | +000000000044 | 303 | Q36 | DEC | 36 |
| 00413 | +000000000077 | 304 | Q63 | DEC | 63 |
| 00414 | +000000000100 | 305 | Q64 | DEC | 64 |
| 00415 | +000000000200 | 306 | Q128 | DEC | 128 |
| 00416 | +000000000014 | 307 | Q014 | OCT | 14 |
| 00417 | +000000000017 | 308 | Q017 | OCT | 17 |
| 00420 | +000000000020 | 309 | Q020 | OCT | 20 |
| 00421 | +000000000022 | 310 | Q022 | OCT | 22 |
| | 00410 | 311 | Q025 | SYN | Q21 |
| 00422 | +000000000033 | 312 | Q033 | OCT | 33 |
| 00423 | +000000000040 | 313 | Q040 | OCT | 40 |
| 00424 | +000000000041 | 314 | Q041 | OCT | 41 |
| 00425 | +000000000043 | 315 | Q043 | OCT | 43 |
| 00426 | +000000000050 | 316 | Q050 | OCT | 50 |
| 00427 | +000000000060 | 317 | Q060 | OCT | 60 |
| 00430 | +000000000061 | 318 | Q061 | OCT | 61 |
| | 00413 | 319 | Q077 | SYN | Q63 |
| | 00415 | 320 | Q0200 | SYN | Q128 |
| 00431 | +000000003300 | 321 | Q033Q2 | OCT | 3300 |
| 00432 | +001000000000 | 322 | Q01Q9 | OCT | 1000000000 |
| 00433 | +233000000000 | 323 | Q233Q9 | OCT | 233000000000 |
| 00434 | -377000000000 | 324 | Q777Q9 | OCT | 777000000000 |
| 00435 | +200000000000 | 325 | Q02Q11 | OCT | 200000000000 |
| 00436 | 0 00000 1 00000 | 326 | QT1 | | ,1 |
| 00437 | 0 00000 2 00000 | 327 | QT2 | | ,2 |
| 00440 | 0 00000 4 00000 | 328 | QT4 | | ,4 |
| 00441 | 0 00000 5 00000 | 329 | QT5 | | 0,5 |
| 00442 | 0 00001 0 00000 | 330 | QD1 | PZE | ,,1 |
| 00443 | 0 00002 0 00000 | 331 | QD2 | PZE | ,,2 |
| 00444 | 0 00005 0 00000 | 332 | QD5 | PZE | ,,5 |
| 00445 | 0 00006 0 00000 | 333 | QD6 | PZE | ,,6 |
| 00446 | 0 00007 0 00000 | 334 | QD7 | PZE | ,,7 |
| 00447 | 0 00024 0 00000 | 335 | QD20 | PZE | ,,20 |

RDCI0563
CPOP0019
CPOP2000
CPOP2001
CPOP0016

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|-------|---------------|--------------|---|-------|-----|--------|-----|--------------|-----------------------------|----------|
| 00450 | 0 | 00025 | 0 | 00000 | 336 | QD21 | PZE | ,,21 | | CPOP0007 |
| 00451 | -1 | 00000 | 0 | 00000 | 337 | QP5 | STR | | | |
| 00452 | 6 | 000000000000 | | | 338 | OBLANK | BCI | 1, 00000 | | 1.5M5360 |
| 00453 | 006060606060 | | | | 339 | ZBLANK | BCI | 1,0 | | |
| 00454 | +201400000000 | | | | 340 | QF1 | DEC | 1.0 | | RDCI0559 |
| 00455 | -0 | 00000 | 0 | 00000 | 341 | SBIT | MZE | | | CPOP0004 |
| 00456 | +377777777777 | | | | 342 | MAGMSK | OCT | 377777777777 | | CPOP0003 |
| 00457 | 0 | 00000 | 0 | 77777 | 343 | AMASK | PZE | -1 | | CPOP0020 |
| 00460 | 0 | 77777 | 0 | 00000 | 344 | DMASK | PZE | ,,-1 | | RDCI0562 |
| 00461 | -3 | 00000 | 0 | 00000 | 345 | PMASK | TXL | 0,0,0 | | |
| 00462 | 0 | 77777 | 0 | 77777 | 346 | ADMASK | PZE | -1,,-1 | | CPOP0008 |
| 00463 | 0 | 00000 | 7 | 77777 | 347 | ATMASK | PZE | -1,7 | | CPOP0009 |
| 00464 | -3 | 77777 | 0 | 00000 | 348 | PDMASK | SVN | ,,-1 | | |
| 00465 | -3 | 77777 | 7 | 00000 | 349 | PDTMSK | SVN | 0,7,-1 | | |
| 00466 | -3 | 00000 | 7 | 77777 | 350 | PTMSK | SVN | -1,7 | | |
| 00467 | +000077000000 | | | | 351 | CNTMSK | OCT | 000077000000 | | |
| 00470 | 0 | 00000 | 7 | 00000 | 352 | TAGMSK | PZE | ,7 | | |
| 00471 | -3 | 77777 | 7 | 77777 | 353 | SEVENS | SVN | -1,7,-1 | | RDCI0565 |
| 00472 | 606060606060 | | | | 354 | BLANKS | BCI | 1, | | RDCI0560 |
| 00473 | | | | | 355 | BCONAT | BSS | 0 | BEGINNING OF CONSTANT ATOMS | |
| 00473 | 0 | 00000 | 0 | 07335 | 356 | PNAMEA | PZE | PNAME | | CPOP0015 |
| 00474 | 0 | 10742 | 0 | 00000 | 357 | APVALD | PZE | ,,APVAL | | CPOP0013 |
| 00475 | 0 | 10135 | 0 | 00000 | 358 | BIND | PZE | ,,BIN | | CPOP0014 |
| | | | | 00475 | 359 | FIXD | SYN | BIND | | |
| 00476 | 0 | 10120 | 0 | 00000 | 360 | FLOATD | | ,,\$FLOAT | | RDCJ0001 |
| 00477 | 0 | 10103 | 0 | 00000 | 361 | FSUBRD | PZE | ,,FSUBR | | CPOP0012 |
| 00500 | 0 | 10076 | 0 | 00000 | 362 | FNARGD | PZE | ,,FUNARG | | CPOP2005 |
| 00501 | 0 | 10005 | 0 | 00000 | 363 | LABELD | PZE | ,,LABEL | | |
| 00502 | 0 | 07775 | 0 | 00000 | 364 | LAMDAD | PZE | ,,LAMBDA | | |
| 00503 | 0 | 07462 | 0 | 00000 | 365 | OCTD | | ,,\$OCT | | RDCJ0002 |
| 00504 | 0 | 07335 | 0 | 00000 | 366 | PNAMED | PZE | ,,PNAME | | CPOP0010 |
| 00505 | 0 | 07250 | 0 | 00000 | 367 | QUOTED | PZE | ,,QUOTE | | |
| 00506 | 0 | 06733 | 0 | 00000 | 368 | SUBRD | PZE | ,,SUBR | | CPOP0011 |
| 00507 | 0 | 07110 | 0 | 00000 | 369 | QSPECD | PZE | 0,,SPECAL | | |
| 00510 | 0 | 06706 | 0 | 00000 | 370 | QSYMD | PZE | 0,,SYM | | |
| 00511 | 0 | 07676 | 0 | 10211 | 371 | | | FRSETQ,,PJ36 | | |
| 00512 | 0 | 07666 | 0 | 07706 | 372 | | | PJ37,,PJ38 | LOGAND LOGXOR | |
| 00513 | 0 | 07604 | 0 | 07614 | 373 | | | -II7,,-II8 | MAX MIN | |
| 00514 | 0 | 06657 | 0 | 07355 | 374 | | | PLUS,,TIMES | | |
| 00515 | 0 | 06131 | 0 | 06130 | 375 | | | H01,,H02 | PROTECT INTEGER OBJECTS | |
| 00516 | 0 | 06133 | 0 | 06132 | 376 | | | H03,,H04 | | |
| 00517 | 0 | 06135 | 0 | 06134 | 377 | | | H05,,H06 | | |
| 00520 | 0 | 06137 | 0 | 06136 | 378 | | | H07,,H10 | | |
| 00521 | 0 | 00000 | 0 | 06127 | 379 | H00A | PZE | H00 | | |
| 00522 | 0 | 00000 | 0 | 06141 | 380 | H12A | PZE | H12 | | |
| 00523 | 0 | 00000 | 0 | 06221 | 381 | H72A | PZE | H72 | | |
| 00524 | 0 | 06140 | 0 | 00000 | 382 | H11D | PZE | ,,H11 | | |
| 00525 | 0 | 06143 | 0 | 00000 | 383 | H14D | PZE | ,,H14 | | |
| 00526 | 0 | 06162 | 0 | 00000 | 384 | H33D | PZE | ,,H33 | | |
| 00527 | 0 | 06163 | 0 | 00000 | 385 | H34D | PZE | ,,H34 | | |
| 00530 | 0 | 06167 | 0 | 00000 | 386 | H40D | PZE | ,,H40 | | |
| 00531 | 0 | 06223 | 0 | 00000 | 387 | H74D | PZE | ,,H74 | | |
| | | | | 00531 | 388 | ECONAT | SYN | H74D | END OF CONSTANT ATOMS | |

| | | | | | | | | | | | | |
|----|-------|-------|-------|---|-------|--------|--------|---------------|-------------------------------------|--------------------------------------|----------|--|
| | | | | | 389 | | EJECT | | | | | |
| | 00532 | | | | 390 | CHKSUM | BSS | 5 | THESE CELLS ARE NOT WRITTEN ON TAPE | | 1.5L0980 | |
| | | | | | 391 | HEAD | | B | CELLS FOR LRTAPE | | | |
| | | 00533 | | | 392 | RTRX | SYN | CHKSUM+1 | PROTECTED STORAGE | | 1.5L0930 | |
| | | 00534 | | | 393 | RTADR | SYN | CHKSUM+2 | | | 1.5L0940 | |
| | | 00535 | | | 394 | RTLCH | SYN | CHKSUM+3 | | | 1.5L0950 | |
| | | 00536 | | | 395 | RTIOU | SYN | CHKSUM+4 | | | 1.5L0960 | |
| | | 00366 | | | 396 | BSRECL | EQU | CHKSUM-BOTTOM | LENGTH OF BOOTSTRAP RECORD | | 1.5L0990 | |
| | | 00537 | | | 397 | LOWREG | SYN | * | LOWEST REGISTER ON LISP RECORD | | 1.5L1000 | |
| | | | | | 398 | * | | | | | 1.5L1010 | |
| | 00537 | 0500 | 00 | 4 | 00001 | 399 | LWTAPE | CLA | 1,4 | PARAMETER WORD | 1.5L1020 | |
| | 00540 | 0621 | 00 | 0 | 00631 | 400 | | STA | WTIOC | SET UP I-O COMMANDS | 1.5L1030 | |
| | 00541 | 0622 | 00 | 0 | 00631 | 401 | | STD | WTIOC | | 1.5L1040 | |
| | 00542 | 0622 | 00 | 0 | 00561 | 402 | | STD | WTAD | COUNT | 1.5L1050 | |
| | 00543 | 0634 | 00 | 4 | 00574 | 403 | | SXA | WTX,4 | SAVE LINK IR | 1.5L1060 | |
| | 00544 | 0600 | 00 | 0 | 00630 | 404 | | STZ | WTAG | ZERO TEST CELL | 1.5L1070 | |
| | 00545 | 0600 | 00 | 0 | 00627 | 405 | | STZ | WERC | | | |
| | 00546 | -0625 | 00 | 0 | 00357 | 406 | | STL | \$TCD | | 1.5L1080 | |
| | 00547 | 0522 | 00 | 0 | 00357 | 407 | | XEC | \$TCD | WAIT FOR CHANNEL | 1.5L1090 | |
| | 00550 | 0760 | 00 | 0 | 00005 | 408 | | IOT | | TURN OFF INDICATORS | 1.5L1100 | |
| | 00551 | 0761 | 00 | 0 | 00000 | 409 | | NOP | | | 1.5L1110 | |
| | 00552 | -0774 | 00 | 4 | 00552 | 410 | | AXC | *,4 | | 1.5L1120 | |
| | 00553 | 0522 | 00 | 0 | 00360 | 411 | | XEC | \$TRC | | 1.5L1130 | |
| | 00554 | 0522 | 00 | 0 | 00356 | 412 | | XEC | \$TEF | | 1.5L1140 | |
| | 00555 | 0522 | 00 | 0 | 00351 | 413 | WTWS | XEC | \$WRS | SELECT TAPE | 1.5L1150 | |
| | 00556 | -0774 | 00 | 4 | 00631 | 414 | | AXC | WTIOC,4 | POINTER TO IO COMMAND | 1.5L1160 | |
| | 00557 | 0522 | 00 | 0 | 00361 | 415 | | XEC | \$RCH | RESET AND LOAD CHANNEL | 1.5L1170 | |
| | 00560 | 0534 | 00 | 4 | 00631 | 416 | | LXA | WTIOC,4 | ADDRESS OF BEGINNING OF BLOCK | 1.5L1180 | |
| | 00561 | 1 | 00000 | 4 | 00562 | 417 | WTAD | TXI | **1,4,** | END + 1 OF BLOCK | 1.5L1190 | |
| | 00562 | 0634 | 00 | 4 | 00565 | 418 | | SXA | WTACL,4 | SET CHECKSUM COMPUTE ADDRESS | | |
| | 00563 | -0534 | 00 | 4 | 00631 | 419 | | LXD | WTIOC,4 | COUNT OF BLOCK | 1.5L1230 | |
| | 00564 | -0754 | 00 | 0 | 00000 | 420 | | PXD | 0,0 | CLAER AC | 1.5L1210 | |
| | 00565 | 0361 | 00 | 4 | 00000 | 421 | WTACL | ACL | ***,4 | COMPUTE CHECKSUM | 1.5L1220 | |
| | 00566 | 2 | 00001 | 4 | 00565 | 422 | | TIX | *-1,4,1 | LOOP | | |
| | 00567 | 0602 | 00 | 0 | 00532 | 423 | | SLW | CHKSUM | STOE IN CHECK SUM CELL | 1.5L1240 | |
| | 00570 | -0774 | 00 | 4 | 00632 | 424 | | AXC | WTIOD,4 | CHECKSUM WRITE COMMAND | | |
| | 00571 | 0522 | 00 | 0 | 00362 | 425 | | XEC | \$LCH | LOAD CHANNEL | | |
| | 00572 | -0774 | 00 | 4 | 00576 | 426 | | AXC | WRCK,4 | TEST FOR WRITE REDUNDANCY | | |
| | 00573 | 0522 | 00 | 0 | 00360 | 427 | | XEC | \$TRC | | 1.5L1280 | |
| | 00574 | 0774 | 00 | 4 | 00000 | 428 | WIX | AXT | ***,4 | RESTORE LINK IR | 1.5L1290 | |
| | 00575 | 0020 | 00 | 4 | 00002 | 429 | | TRA | 2,4 | EXIT | 1.5L1300 | |
| | | | | | 430 | * | | | | | 1.5L1310 | |
| 20 | 00576 | -0520 | 00 | 0 | 00630 | 431 | WRCK | NZT | WTAG | | | |
| 19 | 00577 | 0020 | 00 | 0 | 00615 | 432 | | TRA | WAGN | TRY TO WRITE ABAIN | | |
| 18 | 00600 | -0625 | 00 | 0 | 00627 | 433 | | STL | WERC | CELL SAYS THERE WAS BAD TAPE TROULLE | | |
| 17 | 00601 | -0534 | 00 | 4 | 00366 | 434 | | LXD | SYSTMP,4 | FORM MESSAGE TO OPERATOR | | |
| 16 | 00602 | 0754 | 00 | 4 | 00000 | 435 | | PXA | 0,4 | | | |
| 15 | 00603 | 0400 | 00 | 0 | 00420 | 436 | | ADD | \$Q020 | | | |
| 14 | 00604 | 0767 | 00 | 0 | 00006 | 437 | | ALS | 6 | | | |
| 13 | 00605 | 0601 | 00 | 0 | 00620 | 438 | | STU | WERM | | | |
| 12 | 00606 | 0500 | 00 | 0 | 00366 | 439 | | CLA | SYSTMP | | | |
| 11 | 00607 | -0320 | 00 | 0 | 00417 | 440 | | ANA | \$Q017 | | | |
| 10 | 00610 | -0602 | 00 | 0 | 00620 | 441 | | ORS | WERM | | | |
| 9 | 00611 | 0074 | 00 | 4 | 01222 | 442 | | TSX | OUTPUT,4 | WRITE CHANGE TAPE MESSAGE | | |

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| 00612 | -0 | 00000 | 0 | 00364 | 443 | MZE | BCDOUT | | |
| 00613 | 0 | 00007 | 0 | 00620 | 444 | | WERM,,7 | | |
| 00614 | 0420 | 00 | 0 | 00003 | 445 | HPR | 3 | | |
| 00615 | 0522 | 00 | 0 | 00355 | 446 | WAGN | XEC | \$BSR | |
| 00616 | -0625 | 00 | 0 | 00630 | 447 | | STL | WTAG | |
| 00617 | 0020 | 00 | 0 | 00555 | 448 | | TRA | WTWS | |
| | | | | | 449 | * | | | |
| 00620 | 60606 | 0606 | 060 | | 450 | WERM | BCI | 7, | IS BAD, CHANGE IT AND PUSH START. |
| 00621 | 603162602221 | | | | | | | | |
| 00622 | 247360233021 | | | | | | | | |
| 00623 | 452725603163 | | | | | | | | |
| 00624 | 602145246047 | | | | | | | | |
| 00625 | 646230606263 | | | | | | | | |
| 00626 | 215163336060 | | | | | | | | |
| | | | | | 451 | * | | | |
| 00627 | 0 | 00000 | 0 | 00000 | 452 | WERC | | | |
| 00630 | 0 | 00000 | 0 | 00000 | 453 | WTAG | | CELL NON-ZERO ON SECOND TRY | 1.5L1360 |
| 00631 | -1 | 00000 | 0 | 00000 | 454 | WTIOC IOCT | *,*,* | WRITE OUT BLOCK | |
| 00632 | 0 | 00001 | 0 | 00532 | 455 | WTIOD IOCD | CHKSUM,,1 | WRITE OUT CHECK SUM | |
| | | | | | 456 | * | | | 1.5P0028 |
| | | | | | 457 | * TAPDMP | | DUMP CORE ON SYSTMP. USED BY OVERLORD | 1.5P0029 |
| | | | | | 458 | * | | | 1.5P0030 |
| 00633 | 0634 | 00 | 4 | 00647 | 459 | TAPDMP SXA | TPDMX,4 | SAVE LINK IR | 1.5P0031 |
| 00634 | 0074 | 00 | 4 | 06311 | 460 | | TSX | TEREAD,4 | CLEAN UP READ BUFFER |
| 00635 | 0500 | 00 | 0 | 00366 | 461 | | CLA | SYSTMP | SPEC. FOR TEMPORARY TAPE |
| 00636 | 0074 | 00 | 4 | 00276 | 462 | | TSX | \$(IOS),4 | SET UP I-O COMMANDS |
| 00637 | 0074 | 00 | 4 | 00537 | 463 | TPRTY | TSX | LWTAPE,4 | WRITE BOOTSTRAP RECORD |
| 00640 | 0 | 00366 | 0 | 00144 | 464 | | | BOTTOM,,BSRECL | 1.5P0035 |
| 00641 | 0074 | 00 | 4 | 00537 | 465 | | TSX | LWTAPE,4 | WRITE REST OF CORE |
| 00642 | 0 | 77241 | 0 | 00537 | 466 | | | LOWREG,,-LOWREG | 1.5P0037 |
| 00643 | 0522 | 00 | 0 | 00353 | 467 | | XEC | \$WEF | WRITE AN EOF MARK |
| 00644 | 0522 | 00 | 0 | 00352 | 468 | | XEC | \$REW | REWIND SYSTMP |
| 00645 | 0520 | 00 | 0 | 00627 | 469 | | ZET | WERC | SEE IF SYSTMP WAS CHANGEDAFTER FIRST |
| 00646 | 0020 | 00 | 0 | 00637 | 470 | | TRA | TPRTY | RECORD WAS WRITTEN IF SO REWRITE IT |
| 00647 | 0774 | 00 | 4 | 00000 | 471 | TPDMX | AXT | *,,4 | RESTORE LINK IR |
| 00650 | 0020 | 00 | 4 | 00001 | 472 | | TRA | 1,4 | EXIT |
| | | | | | 473 | * | | | 1.5P0040 |
| | | | | | 474 | * OVLT | | READS A NEW CORE IMAGE IN FROM SYSTMP. USED BY OVERLORD | 1.5P0042 |
| | | | | | 475 | * | | | 1.5P0044 |
| 00651 | -0754 | 00 | 4 | 00000 | 476 | OVLTXX | PXD | 0,4 | LINK IR TO AC |
| 00652 | -0734 | 00 | 2 | 00000 | 477 | | PDX | 0,2 | PUT IN IR 2 FOR SAFE KEEPING |
| 00653 | 0500 | 00 | 0 | 00366 | 478 | | CLA | SYSTMP | TEMPORARY TAPE SPEC. |
| 00654 | 0074 | 00 | 4 | 00276 | 479 | | TSX | \$(IOS),4 | SET UP I-O COMMANDS |
| 00655 | 0074 | 00 | 4 | 00202 | 480 | | TSX | LRTAPE,4 | READ IN BOOTSTRAP RECORD |
| 00656 | 0 | 00366 | 0 | 00144 | 481 | | | BOTTOM,,BSRECL | 1.5P0049 |
| 00657 | 0074 | 00 | 4 | 00202 | 482 | | TSX | LRTAPE,4 | READIN RST OF LISP |
| 00660 | 0 | 77241 | 0 | 00537 | 483 | | | LOWREG,,-LOWREG | 1.5P0050 |
| 00661 | 0522 | 00 | 0 | 00352 | 484 | | XEC | \$REW | REWIND SYSTMP |
| 00662 | 0020 | 00 | 2 | 00001 | 485 | | TRA | 1,2 | EXIT |
| | | | | | 486 | * | | | 1.5P0053 |
| | | | | | 487 | * | | | 1.5P0054 |
| 00663 | 0500 | 00 | 4 | 00002 | 488 | INPUT | CLA | 2,4 | 1.5P0055 |
| 00664 | 0634 | 00 | 4 | 00675 | 489 | | SXA | INX4,4 | 00000012 |
| 00665 | 0601 | 00 | 0 | 00673 | 490 | | STD | CALL | |

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| 00666 | 0500 | 00 | 0 | 00365 | 491 | CLA | SYSPIT | INPUT TAPE SPEC. | 00000010 |
| 00667 | 0074 | 00 | 4 | 00276 | 492 | TSX | \$(ICS),4 | SET UP I-O COMMANDS | 00000011 |
| 00670 | 0522 | 00 | 0 | 01376 | 493 | XEC | \$SWT1 | TEST FOR ON-LINE INPUT | LC015700 |
| 00671 | 0522 | 00 | 0 | 00350 | 494 | XEC | \$RDS | SELECT INPUT TAPE | LC015800 |
| 00672 | 0074 | 00 | 4 | 00702 | 495 | TSX | \$RTX,4 | | LC015900 |
| 00673 | 0 | 77777 | 0 | 00000 | 496 | CALL | **,-1 | | LC016000 |
| 00674 | 0020 | 00 | 0 | 00677 | 497 | TRA | **+3 | | LC016100 |
| 00675 | 0774 | 00 | 4 | 00000 | 498 | INX4 | AXT **,-4 | RESTORE LINK IR | |
| 00676 | 0020 | 00 | 4 | 00005 | 499 | TRA | 5,4 | | LC016300 |
| 00677 | 0534 | 00 | 4 | 00675 | 500 | LXA | INX4,4 | RESTORE LINK IR | |
| 00700 | -0120 | 00 | 4 | 00003 | 501 | TMI | 3,4 | | LC016500 |
| 00701 | 0020 | 00 | 4 | 00004 | 502 | TRA | 4,4 | | LC016600 |
| | | | | 503 | | | | | LC016700 |
| | | | | 504 | C | HED | | | LC048800 |
| | | | | 505 | * | | | | LC049300 |
| 00702 | 0634 | 00 | 4 | 00725 | 506 | RTX | SXA RTXX,4 | SAVE LINK IR | 1.5P0001 |
| 00703 | 0500 | 00 | 4 | 00001 | 507 | CLA | 1,4 | GET PARAMETER WORD | 1.5P0002 |
| 00704 | 0522 | 00 | 0 | 01376 | 508 | XEC | \$SWT1 | TEST FOR ON-LINE INPUT | 1.5P0003 |
| 00705 | 1 | 00000 | 0 | 00710 | 509 | TXI | H1,,0 | IS FROM TAPE | 1.5P0004 |
| 00706 | 0762 | 00 | 0 | 01321 | 510 | RCDA | | SELECT CARD READER | 1.5P0005 |
| 00707 | 1 | 00000 | 0 | 00741 | 511 | TXI | RBCD,,0 | GO TO CARD IMAGE CONVERSION PROGRAM | 1.5P0006 |
| 00710 | 0621 | 00 | 0 | 01177 | 512 | H1 | STA CMMND | SET ADDRESS OF I-O COMMAND | 1.5P0007 |
| 00711 | -0774 | 00 | 4 | 00713 | 513 | AXC | **+2,4 | LOCATION TO INDEX REGISTER | 1.5P0008 |
| 00712 | 0522 | 00 | 0 | 00356 | 514 | XEC | \$TEF | TURN OFF EOF INDICATOR | 1.5P0009 |
| 00713 | -0500 | 00 | 0 | 00727 | 515 | CAL | H2 | PICK UP SWITCH | 1.5Q8091 |
| 00714 | 0601 | 00 | 0 | 00727 | 516 | H3 | STD H2 | SET TO TXH FIRST TIME THROUGH | 1.5P0010 |
| 00715 | -0774 | 00 | 4 | 01177 | 517 | AXC | CMMND,4 | LOCATION OF I-O COMMAND | 1.5P0011 |
| 00716 | 0522 | 00 | 0 | 00361 | 518 | XEC | \$RCH | RESET AND LOAD CHANNEL | 1.5P0012 |
| 00717 | -0625 | 00 | 0 | 00357 | 519 | STL | \$TCC | SET UP TCO COMMAND | 1.5P0013 |
| 00720 | 0522 | 00 | 0 | 00357 | 520 | XEC | \$TCC | WAIT FOR CHANNEL TO GO OUT OF OPERATION | 1.5P0014 |
| 00721 | -0774 | 00 | 4 | 00734 | 521 | AXC | RTXBE,4 | LOCATION OF BAD EXIT | 1.5P0015 |
| 00722 | 0522 | 00 | 0 | 00356 | 522 | XEC | \$TEF | GO IF EOF FOUND | 1.5P0016 |
| 00723 | -0774 | 00 | 4 | 00727 | 523 | AXC | H2,4 | LOCATION TO TRY AGAIN | 1.5P0017 |
| 00724 | 0522 | 00 | 0 | 00360 | 524 | XEC | \$TRC | GO IF REDUNDANCY CHECK FOUND | 1.5P0018 |
| 00725 | 0774 | 00 | 4 | 00000 | 525 | RTXX | AXT **,-4 | RESTORE LINK IR | |
| 00726 | 0020 | 00 | 4 | 00003 | 526 | TRA | 3,4 | GOOD EXIT | 1.5P0020 |
| 00727 | 3 | 00000 | 0 | 00734 | 527 | H2 | TXH RTXBE,,0 | IS TXL ON SECOND TRY | 1.5P0021 |
| 00730 | 0522 | 00 | 0 | 00355 | 528 | XEC | \$BSR | BACKSPACE RECORD | 1.5P0022 |
| 00731 | 0522 | 00 | 0 | 00350 | 529 | XEC | \$RDS | SELECT TAPE | 1.5P0023 |
| 00732 | 0502 | 00 | 0 | 00727 | 530 | CLS | H2 | PICK UP SWITCH | 1.5P0024 |
| 00733 | -3 | 00000 | 0 | 00714 | 531 | TXL | H3,,0 | GO TRY AGAIN | 1.5P0025 |
| 00734 | 0534 | 00 | 4 | 00725 | 532 | RTXBE | LXA RTXX,4 | LINK IR | |
| 00735 | 0020 | 00 | 4 | 00002 | 533 | TRA | 2,4 | | |
| 00736 | 0762 | 00 | 0 | 01321 | 534 | RCD | RCDA | RESTART AFTER ERROR | LC054200 |
| 00737 | -0534 | 00 | 1 | 00757 | 535 | LXD | B2,1 | | LC054300 |
| 00740 | -0534 | 00 | 2 | 00761 | 536 | LXD | B3,2 | | LC054400 |
| 00741 | 0030 | 00 | 0 | 00742 | 537 | RUBCD | TEFA **1 | TURN OFF END FILE INDICATOR | LC054500 |
| 00742 | 0604 | 00 | 0 | 01173 | 538 | STI | B50 | SAVE INDICATORS | LC054600 |
| 00743 | -0057 | 00 | 0 | 00003 | 539 | RIL | 3 | TURN INDICATORS 1,2 OFF | LC054700 |
| 00744 | 0540 | 00 | 0 | 01174 | 540 | RCHA | LR | READ IN 9 LEFT +RT INTO L,R | LC054800 |
| 00745 | 0544 | 00 | 0 | 01175 | 541 | LCHA | 8LR | DELAY, START 8LEFT + RT INTO 8L,8R | LC054900 |
| 00746 | 0030 | 00 | 4 | 00002 | 542 | TEFA | 2,4 | GO TO END OF FILE RETURN IF EOF ON | LC055000 |
| 00747 | 0560 | 00 | 0 | 77671 | 543 | B1 | LDQ L | X | LC055100 |
| 00750 | -0600 | 00 | 0 | 77663 | 544 | STQ | LS | SET LEFT SUM | LC055200 |

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|-------|-------|-------|---|--------|-----|-----------------|-------------------------------------|----------|
| 00751 | -0634 | 00 | 1 | 00757 | 545 | SXD B2,1 | SAVE INDEX REGISTERS | LC055300 |
| 00752 | -0634 | 00 | 2 | 00761 | 546 | SXD B3,2 | X | LC055400 |
| 00753 | -0534 | 00 | 1 | 00770 | 547 | LXD B4,1 | SET DIGIT ROW COUNT | LC055500 |
| 00754 | 0560 | 00 | 0 | 77672 | 548 | LDQ R | | LC055600 |
| 00755 | -0600 | 00 | 0 | 77664 | 549 | STQ RS | SET RIGHT SUM | LC055700 |
| 00756 | 0074 | 00 | 2 | 01110 | 550 | TSX C1,2 | ENTER CONVERSION LOOP | LC055800 |
| 00757 | -3 | 00000 | 0 | 00762 | 551 | B2 TXL B5 | LEAVE CONVERSION LOOP | LC055900 |
| 00760 | 0767 | 00 | 0 | 00001 | 552 | ALS 1 | | LC056000 |
| 00761 | -3 | 00000 | 0 | 01145 | 553 | B3 TXL C2 | INITIALIZE BCD RECORD | LC056100 |
| 00762 | 0544 | 00 | 0 | 01174 | 554 | B5 LCHA LR | DELAY UNTIL 8 IN, START READING 7 | LC056200 |
| 00763 | 0560 | 00 | 0 | 77665 | 555 | LDQ 8L | USE 8 ROW AS SUM | LC056300 |
| 00764 | -0600 | 00 | 0 | 77663 | 556 | STQ LS | X | LC056400 |
| 00765 | 0560 | 00 | 0 | 77666 | 557 | LDQ 8R | X | LC056500 |
| 00766 | -0600 | 00 | 0 | 77664 | 558 | STQ RS | X | LC056600 |
| 00767 | 0074 | 00 | 2 | 01110 | 559 | TSX C1,2 | ENTER CONVERSION LOOP | LC056700 |
| 00770 | -3 | 00010 | 0 | 00773 | 560 | B4 TXL B6,0,8 | LEAVE CONVERSION LOOP | LC056800 |
| 00771 | 0767 | 00 | 0 | 00003 | 561 | ALS 3 | ADD 8 TIMES 8 ROW | LC056900 |
| 00772 | -3 | 00000 | 0 | 01144 | 562 | TXL C3 | X | LC057000 |
| 00773 | -0500 | 00 | 0 | 77671 | 563 | B6 CAL L | USE 9 ROW AS SUM | LC057100 |
| 00774 | 0602 | 00 | 0 | 77663 | 564 | SLW LS | X | LC057200 |
| 00775 | -0500 | 00 | 0 | 77672 | 565 | CAL R | X | LC057300 |
| 00776 | 0602 | 00 | 0 | 77664 | 566 | SLW RS | X | LC057400 |
| 00777 | -3 | 00002 | 1 | 01160 | 567 | B13 TXL B25,1,2 | IS IT ZERO OR ONE ROW YES' | LC057500 |
| 01000 | 0544 | 00 | 0 | 01174 | 568 | B14 LCHA LR | DELAY, READ IN N RT AND LEFT | LC057600 |
| 01001 | -0054 | 00 | 0 | 000001 | 569 | LFT 1 | IS END OF RECORD INDICATOR ON | LC057700 |
| 01002 | 0020 | 00 | 0 | 01040 | 570 | TRA B9 | YES' END OF RECORD | LC057800 |
| 01003 | -0500 | 00 | 0 | 77671 | 571 | B8 CAL L | NO' TEST LEFT ROW FOR | LC057900 |
| 01004 | -0320 | 00 | 0 | 77663 | 572 | ANA LS | ILLEGAL DOUBLE PUNCH | LC058000 |
| 01005 | -0100 | 00 | 0 | 01163 | 573 | TNZ B17 | X | LC058100 |
| 01006 | -0500 | 00 | 0 | 77671 | 574 | B10 CAL L | FORM LOGICAL SUM | LC058200 |
| 01007 | -0602 | 00 | 0 | 77663 | 575 | ORS LS | OF LEFT ROWS | LC058300 |
| 01010 | -0500 | 00 | 0 | 77672 | 576 | CAL R | TEST FOR ILLEGAL | LC058400 |
| 01011 | -0320 | 00 | 0 | 77664 | 577 | ANA RS | DOUBLE PUNCH | LC058500 |
| 01012 | -0100 | 00 | 0 | 01163 | 578 | TNZ B17 | X | LC058600 |
| 01013 | -0500 | 00 | 0 | 77672 | 579 | B11 CAL R | FORM LOGICAL SUM OF | LC058700 |
| 01014 | -0602 | 00 | 0 | 77664 | 580 | ORS RS | RIGHT ROWS | LC058800 |
| 01015 | -2 | 00001 | 1 | 01154 | 581 | TNX B12,1,1 | TEST FOR ZONE ROWS | LC058900 |
| 01016 | 0074 | 00 | 2 | 01110 | 582 | TSX C1,2 | ENTER CONVERSION LOOP | LC059000 |
| 01017 | -3 | 00000 | 0 | 00777 | 583 | TXL B13 | LEAVE CONVERSION LOOP | LC059100 |
| 01020 | -3 | 00000 | 0 | 01144 | 584 | TXL C3 | ADD TO BCD RECORD | LC059200 |
| 01021 | -0500 | 00 | 0 | 77665 | 585 | B7 CAL 8L | ADD 8 LEFT ROW TO | LC059300 |
| 01022 | -0501 | 00 | 0 | 77663 | 586 | ORA LS | LEFT LOGICAL SUM | LC059400 |
| 01023 | 0602 | 00 | 0 | 77665 | 587 | SLW LDS | X | LC059500 |
| 01024 | 0544 | 00 | 0 | 01174 | 588 | LCHA LR | DELAY, START READING X-L,R INTO L,R | LC059600 |
| 01025 | -0320 | 00 | 0 | 77667 | 589 | ANA LZ | FORM INDICATOR FOR | LC059700 |
| 01026 | 0602 | 00 | 0 | 77663 | 590 | SLW LS | BOTH DIGIT AND ZERO | LC059800 |
| 01027 | -0500 | 00 | 0 | 77666 | 591 | CAL 8R | ADD 8 RIGHT ROW TO | LC059900 |
| 01030 | -0501 | 00 | 0 | 77664 | 592 | ORA RS | RIGHT LOGICAL SUM | LC060000 |
| 01031 | 0602 | 00 | 0 | 77666 | 593 | SLW RDS | X | LC060100 |
| 01032 | -0320 | 00 | 0 | 77670 | 594 | ANA RZ | FORM INDICATOR FOR | LC060200 |
| 01033 | 0602 | 00 | 0 | 77664 | 595 | SLW RS | BOTH DIGIT AND ZERO | LC060300 |
| 01034 | 0074 | 00 | 2 | 01110 | 596 | B40 TSX C1,2 | ENTER CONVERSION LOOP | LC060400 |
| 01035 | -3 | 00000 | 0 | 01000 | 597 | TXL B14 | LEAVE CONVERSION LOOP | LC060500 |
| 01036 | 0767 | 00 | 0 | 00004 | 598 | ALS 4 | SHIFT TO ZONE POSITION | LC060600 |

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|-------|-------|-------|---|-------|-----|---------------|-------------------------|----------|
| 01037 | -3 | 00000 | 0 | 01144 | 599 | TXL C3 | X | LC060700 |
| 01040 | -0500 | 00 | 0 | 77663 | 600 | B9 CAL LS | SAVE LEFT ZONE SUM | LC060800 |
| 01041 | 0602 | 00 | 0 | 77671 | 601 | SLW L | X | LC060900 |
| 01042 | -0500 | 00 | 0 | 77665 | 602 | CAL LDS | FORM INDICATOR FOR | LC061000 |
| 01043 | 0760 | 00 | 0 | 00006 | 603 | COM | ZERO AND X AND / OR Y | LC061100 |
| 01044 | -0320 | 00 | 0 | 77667 | 604 | ANA LZ | IN LEFT ROWS | LC061200 |
| 01045 | 0320 | 00 | 0 | 77663 | 605 | ANS LS | X | LC061300 |
| 01046 | -0500 | 00 | 0 | 77664 | 606 | CAL RS | SAVE RIGHT ZONE SUM | LC061400 |
| 01047 | 0602 | 00 | 0 | 77672 | 607 | SLW R | X | LC061500 |
| 01050 | -0500 | 00 | 0 | 77666 | 608 | CAL RDS | FORM INDICATOR FOR | LC061600 |
| 01051 | 0760 | 00 | 0 | 00006 | 609 | COM | ZERO AND X AND/OR Y | LC061700 |
| 01052 | -0320 | 00 | 0 | 77670 | 610 | ANA RZ | IN RIGHT ROWS | LC061800 |
| 01053 | 0320 | 00 | 0 | 77664 | 611 | ANS RS | X | LC061900 |
| 01054 | 0074 | 00 | 2 | 01110 | 612 | TSX C1,2 | ENTER CONVERSION LOOP | LC062000 |
| 01055 | -3 | 00000 | 0 | 01063 | 613 | TXL B15 | LEAVE CONVERSION LOOP | LC062100 |
| 01056 | 0602 | 00 | 0 | 77662 | 614 | SLW TP | MULTIPLY INDICATOR | LC062200 |
| 01057 | 0767 | 00 | 0 | 00002 | 615 | ALS 2 | BITS BY TEN | LC062300 |
| 01060 | 0361 | 00 | 0 | 77662 | 616 | ACL TP | X | LC062400 |
| 01061 | 0767 | 00 | 0 | 00001 | 617 | ALS 1 | X | LC062500 |
| 01062 | -3 | 00000 | 0 | 01144 | 618 | TXL C3 | X | LC062600 |
| 01063 | -0500 | 00 | 0 | 77665 | 619 | B15 CAL LDS | FORM INDICATOR FOR | LC062700 |
| 01064 | -0501 | 00 | 0 | 77667 | 620 | ORA LZ | BLANK COLUMNS IN | LC062800 |
| 01065 | -0501 | 00 | 0 | 77671 | 621 | ORA L | LEFT HALF OF CARD | LC062900 |
| 01066 | 0760 | 00 | 0 | 00006 | 622 | COM | X | LC063000 |
| 01067 | 0602 | 00 | 0 | 77663 | 623 | SLW LS | X | LC063100 |
| 01070 | -0500 | 00 | 0 | 77666 | 624 | CAL RDS | FORM INDICATOR FOR | LC063200 |
| 01071 | -0501 | 00 | 0 | 77670 | 625 | ORA RZ | BLANK COLUMNS IN | LC063300 |
| 01072 | -0501 | 00 | 0 | 77672 | 626 | ORA R | RIGHT HALF OF CARD | LC063400 |
| 01073 | 0760 | 00 | 0 | 00006 | 627 | COM | X | LC063500 |
| 01074 | 0602 | 00 | 0 | 77664 | 628 | SLW RS | X | LC063600 |
| 01075 | 0074 | 00 | 2 | 01110 | 629 | TSX C1,2 | ENTER CONVERSION LOOP | LC063700 |
| 01076 | -3 | 00000 | 0 | 01104 | 630 | TXL B16 | LEAVE CONVERSION LOOP | LC063800 |
| 01077 | 0602 | 00 | 0 | 77662 | 631 | SLW TP | MULTIPLY INDICATOR | LC063900 |
| 01100 | 0767 | 00 | 0 | 00001 | 632 | ALS 1 | BITS BY 3 AND | LC064000 |
| 01101 | 0361 | 00 | 0 | 77662 | 633 | ACL TP | SHIFT TO ZONE POSITION | LC064100 |
| 01102 | 0767 | 00 | 0 | 00004 | 634 | ALS 4 | X | LC064200 |
| 01103 | -3 | 00000 | 0 | 01144 | 635 | TXL C3 | X | LC064300 |
| 01104 | -0534 | 00 | 1 | 00757 | 636 | B16 LXD B2,1 | RESTORE INDEX REGISTERS | LC064400 |
| 01105 | -0534 | 00 | 2 | 00761 | 637 | LXD B3,2 | AND RETURN TO MAIN | LC064500 |
| 01106 | 0441 | 00 | 0 | 01173 | 638 | LDI B50 | RESTORE INDICATORS | LC064600 |
| 01107 | 0020 | 00 | 4 | 00003 | 639 | TRA 3,4 | PROGRAM | LC064700 |
| 01110 | -0634 | 00 | 1 | 01113 | 640 | C1 SXD C4,1 | SAVE ROW COUNT | LC064800 |
| 01111 | -0500 | 00 | 4 | 00001 | 641 | C9 CAL 1,4 | INITIALIZE ADDRESSES | LC064900 |
| 01112 | 0401 | 00 | 0 | 01127 | 642 | ADM C7 | X ADD 6 | LC065000 |
| 01113 | -3 | 00000 | 0 | 01117 | 643 | C4 TXL C6,,** | TRANSFER IO LEFT ROW | LC065100 |
| 01114 | 0401 | 00 | 0 | 01127 | 644 | ADM C7 | RIGHT ROW, ADD 6 MORE | LC065200 |
| 01115 | 0560 | 00 | 0 | 77664 | 645 | LDQ RS | OBTAIN RIGHT SUM AND | LC065300 |
| 01116 | 1 | 00000 | 0 | 01120 | 646 | TXI C8 | SKIP OVER LEFT SUM | LC065400 |
| 01117 | 0560 | 00 | 0 | 77663 | 647 | C6 LDQ LS | OBTAIN LEFT SUM | LC065500 |
| 01120 | 0621 | 00 | 0 | 01145 | 648 | C8 STA C2 | SET BCD RECORD ADDRESS | LC065600 |
| 01121 | 0621 | 00 | 0 | 01144 | 649 | STA C3 | X | LC065700 |
| 01122 | 3 | 00001 | 1 | 01126 | 650 | TXH C5,1,1 | SKIP TEST IF DIGIT ROW | LC065800 |
| 01123 | -0600 | 00 | 0 | 77662 | 651 | STQ TP | TEST FOR NO SUM | LC065900 |
| 01124 | -0500 | 00 | 0 | 77662 | 652 | CAL TP | X | LC066000 |

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| 01125 | 0100 | 00 | 0 | 01150 | 653 | | TZE C11 | X | | LC066100 |
| 01126 | 0534 | 00 | 1 | 01127 | 654 | C5 | LXA C7,1 | | SET WORD COUNT | LC066200 |
| 01127 | -0754 | 00 | 0 | 00006 | 655 | C7 | PXD 6,0 | | CONVERT ROW | |
| 01130 | -0763 | 00 | 0 | 00001 | 656 | | LGL 1 | X | | LC066400 |
| 01131 | 0767 | 00 | 0 | 00005 | 657 | | ALS 5 | X | | LC066500 |
| 01132 | -0763 | 00 | 0 | 00001 | 658 | | LGL 1 | X | | LC066600 |
| 01133 | 0767 | 00 | 0 | 00005 | 659 | | ALS 5 | X | | LC066700 |
| 01134 | -0763 | 00 | 0 | 00001 | 660 | | LGL 1 | X | | LC066800 |
| 01135 | 0767 | 00 | 0 | 00005 | 661 | | ALS 5 | X | | LC066900 |
| 01136 | -0763 | 00 | 0 | 00001 | 662 | | LGL 1 | X | | LC067000 |
| 01137 | 0767 | 00 | 0 | 00005 | 663 | | ALS 5 | X | | LC067100 |
| 01140 | -0763 | 00 | 0 | 00001 | 664 | | LGL 1 | X | | LC067200 |
| 01141 | 0767 | 00 | 0 | 00005 | 665 | | ALS 5 | X | | LC067300 |
| 01142 | -0763 | 00 | 0 | 00001 | 666 | | LGL 1 | X | | LC067400 |
| 01143 | 0020 | 00 | 2 | 00002 | 667 | | TRA 2,2 | | EXIT FOR ROW PROCEDURE | LC067500 |
| 01144 | 0361 | 00 | 1 | 00000 | 668 | C3 | ACL 0,1 | | ADD TO BCD RECORD | LC067600 |
| 01145 | 0602 | 00 | 1 | 00000 | 669 | C2 | SLW 0,1 | | STORE IN BCD RECORD | LC067700 |
| 01146 | 2 | 00001 | 1 | 01127 | 670 | | TIX C7,1,1 | | COUNT WORDS | LC067800 |
| 01147 | -0534 | 00 | 1 | 01113 | 671 | | LXD C4,1 | | RESTORE ROW COUNT | LC067900 |
| 01150 | 0502 | 00 | 0 | 01113 | 672 | C11 | CLS C4 | | INVERT ROW SWITCH AND | LC068000 |
| 01151 | 0601 | 00 | 0 | 01113 | 673 | | STO C4 | | TEST FOR RIGHT ROW DONE | LC068100 |
| 01152 | -0120 | 00 | 2 | 00001 | 674 | | TMI 1,2 | | TRANSFER IF RIGHT ROW DONE | LC068200 |
| 01153 | 1 | 00000 | 0 | 01111 | 675 | C10 | TXI C9 | | GO CONVERT RIGHT ROW | LC068300 |
| 01154 | -0051 | 00 | 0 | 00002 | 676 | B12 | IIL 2 | | CHANGE INDICATOR BIT 17 | LC068400 |
| 01155 | -0056 | 00 | 0 | 00002 | 677 | | LNT 2 | | IS THIS TWELVE ROW | LC068500 |
| 01156 | 0020 | 00 | 0 | 01165 | 678 | | TRA B100 | | CHANGE | LC068600 |
| 01157 | 0020 | 00 | 0 | 01034 | 679 | | TRA B40 | | NO | LC068700 |
| 01160 | -3 | 00001 | 1 | 01021 | 680 | B25 | TXL B7,1,1 | | IS IT XERO ROW OR ONE ROW | LC068800 |
| 01161 | 0544 | 00 | 0 | 01176 | 681 | | LCHA ZLR | | | LC068900 |
| 01162 | 0020 | 00 | 0 | 01003 | 682 | | TRA B8 | | | LC069000 |
| 01163 | -0760 | 00 | 0 | 00003 | 683 | B17 | SSM | | SET ERROR SIGN | |
| 01164 | 1 | 00001 | 4 | 01104 | 684 | | TXI B16,4,1 | | RESTORE INDEX REGISTERS AND MAKE BAD X | |
| 01165 | 0060 | 00 | 0 | 01165 | 685 | B100 | TCOA * | | | LC069200 |
| 01166 | 0074 | 00 | 2 | 01110 | 686 | | TSX C1,2 | | | LC069300 |
| 01167 | -3 | 00000 | 0 | 01172 | 687 | | TXL B200 | | | LC069400 |
| 01170 | 0767 | 00 | 0 | 00004 | 688 | | ALS 4 | | | LC069500 |
| 01171 | -3 | 00000 | 0 | 01144 | 689 | | TXL C3 | | | LC069600 |
| 01172 | 0020 | 00 | 0 | 01040 | 690 | B200 | TRA B9 | | | LC069700 |
| 01173 | 0 | 00000 | 0 | 00000 | 691 | B50 | PZE | | INDICATOR STORAGE | LC069800 |
| 01174 | -3 | 00002 | 0 | 77671 | 692 | LR | MTH L,0,2 | | | LC069900 |
| 01175 | -3 | 00002 | 0 | 77665 | 693 | 8LR | MTH 8L,0,2 | | | LC070000 |
| 01176 | -3 | 00002 | 0 | 77667 | 694 | ZLR | MTH LZ,0,2 | | | LC070100 |
| 01177 | -3 | 77777 | 0 | 00000 | 695 | CMMND | MTH **,-0,-1 | | | |
| | | | | 77662 | 696 | ORG | COMMON | | | |
| | 77662 | | | 697 | TP | BSS 1 | | TEMPORARY | | LC070300 |
| | 77663 | | | 698 | LS | BSS 1 | | LEFT SUM | | LC070400 |
| | 77664 | | | 699 | RS | BSS 1 | | RIGHT SUM | | LC070500 |
| | 77665 | | | 700 | LDS | BSS 1 | | LEFT DIGIT SUM | | LC070600 |
| | 77666 | | | 701 | RDS | BSS 1 | | RIGHT DIGIT SUM | | LC070700 |
| | 77667 | | | 702 | LZ | BSS 1 | | LEFT ZERO ROW | | LC070800 |
| | 77670 | | | 703 | RZ | BSS 1 | | RIGHT ZERO ROW | | LC070900 |
| | 77671 | | | 704 | L | BSS 1 | | LEFT ROW | | LC071000 |
| | 77672 | | | 705 | R | BSS 1 | | RIGHT ROW | | LC071100 |
| | | 77665 | | 706 | 8L | SYN LDS | | 8 LEFT ROW | | LC071200 |

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|--|--|--|--|--|-------|-------|-------|-------------|--|-------------|-----------|---------------------------------------|
| | | | | | 77666 | 707 | 8R | SYN RDS | | 8 RIGHT ROW | LC071300 | |
| | | | | | 01200 | 708 | | ORG | CMMND+1 | | | |
| | | | | | | 709 | 0 | HED | | | LC071400 | |
| | | | | | 00000 | 710 | BCDIN | EQU 0 | | | LC013900 | |
| | | | | | 00702 | 711 | RTX | SYN | C\$RTX | | LC071800 | |
| | | | | | | 712 | | HEAD | D | | 1.5P0200 | |
| | | | | | | 713 | * | | | | | |
| | | | | | | 714 | * | SPACEX | PROVIDES A VARIETY OF SPACES ON OFF LINE PRINTER | | | |
| | | | | | | 715 | * | | | | | |
| | | | | | 01200 | 0522 | 00 0 | 01402 | 716 | SPACEX XEC | \$SWT5 | TEST FOR NO OFF-LINE OUTPUT |
| | | | | | 01201 | 0020 | 00 0 | 01203 | 717 | TRA | **2 | |
| | | | | | 01202 | 0020 | 00 4 | 00002 | 718 | TRA | 2,4 | RETURN |
| | | | | | 01203 | 0634 | 00 4 | 01206 | 719 | SXA | SPX,4 | SAVE LINK IR |
| | | | | | 01204 | 0500 | 00 0 | 00364 | 720 | CLA | SYSPOT | SET UP TAPES |
| | | | | | 01205 | 0074 | 00 4 | 00276 | 721 | TSX | \$(IOS),4 | |
| | | | | | 01206 | 0774 | 00 4 | 00000 | 722 | SPX AXT | ** ,4 | RESTORE LINK IR |
| | | | | | 01207 | 0500 | 00 4 | 00001 | 723 | CLA | 1,4 | GET PARAMETER |
| | | | | | 01210 | 0737 | 00 4 | 00000 | 724 | PAC | 0,4 | COMPLEMENT INTO IR 4 |
| | | | | | 01211 | 0522 | 00 0 | 00351 | 725 | XEC | \$WRS | |
| | | | | | 01212 | 0522 | 00 0 | 00361 | 726 | XEC | \$RCH | |
| | | | | | 01213 | 0534 | 00 4 | 01206 | 727 | LXA | SPX,4 | |
| | | | | | 01214 | 0020 | 00 4 | 00002 | 728 | TRA | 2,4 | RETURN |
| | | | | | 01215 | 2 | 00001 | 0 00453 | 729 | 8SPACE IORP | ZBLANK,,1 | DOUBLE SPACE |
| | | | | | 01216 | 2 | 00001 | 0 00453 | 730 | 6SPACE IORP | ZBLANK,,1 | DOUBLE SPACE |
| | | | | | 01217 | 2 | 00001 | 0 00453 | 731 | 4SPACE IORP | ZBLANK,,1 | DOUBLE SPACE |
| | | | | | 01220 | 2 | 00001 | 0 00453 | 732 | 2SPACE IORP | ZBLANK,,1 | DOUBLE SPACE |
| | | | | | 01221 | 0 | 00000 | 0 00000 | 733 | IOCD | 0,,0 | DISCONNECT CHANNEL |
| | | | | | | 734 | * | | | | | 1.5L1370 |
| | | | | | | 735 | * | OUTPUT | BCD OUTPUT ROUTINE FOR LISP | | | 1.5L1380 |
| | | | | | | 736 | * | SWITCHES... | | | | LC029400 |
| | | | | | | 737 | * | 3 | PRINT ON-LINE | | | LC029600 |
| | | | | | | 738 | * | 5 | DONT WRITE TAPE FOR OFF-LINE PRINTING | | | LC029800 |
| | | | | | | 739 | * | | | | | 1.5L1390 |
| | | | | | 01222 | 0634 | 00 4 | 01245 | 740 | OUTPUT SXA | WOTX,4 | SAVE LINK IR |
| | | | | | 01223 | 0500 | 00 4 | 00002 | 741 | CLA | 2,4 | GET PARAMETER WORD |
| | | | | | 01224 | 0622 | 00 0 | 01367 | 742 | STD | WOTC | SET COUNT OF I-O COMMAND |
| | | | | | 01225 | 0400 | 00 0 | 00407 | 743 | ADD | \$Q20 | END OF BLOCK |
| | | | | | 01226 | 0621 | 00 0 | 01234 | 744 | STA | WOTM | SET MOVE LOOP |
| | | | | | 01227 | -0625 | 00 0 | 00357 | 745 | STL | \$TCC | WAIT FOR COMPLETION OF LAST OPERATION |
| | | | | | 01230 | 0522 | 00 0 | 00357 | 746 | XEC | \$TCC | |
| | | | | | 01231 | 0500 | 60 4 | 00001 | 747 | CLA* | 1,4 | GET TAPE SPECIFICATION |
| | | | | | 01232 | 0074 | 00 4 | 00276 | 748 | TSX | \$(IOS),4 | SET UP I-O COMMANDS |
| | | | | | 01233 | 0774 | 00 4 | 00024 | 749 | AXT | 20,4 | MAXIMUM THAT MAY BE ON 1 RECORD |
| | | | | | 01234 | 0500 | 00 4 | 00000 | 750 | WOTM CLA | ** ,4 | MOVE INTO BUFFER |
| | | | | | 01235 | -0601 | 00 4 | 01367 | 751 | STO | WOTB,4 | |
| | | | | | 01236 | 2 | 00001 | 4 01234 | 752 | TIX | WOTM,4,1 | |
| | | | | | 01237 | 0522 | 00 0 | 01402 | 753 | XEC | \$SWT5 | TEST FOR NO TAPE OUTPUT |
| | | | | | 01240 | 0020 | 00 0 | 01242 | 754 | TRA | **2 | IS OUTPUT ON TAPE |
| | | | | | 01241 | 0020 | 00 0 | 01245 | 755 | TRA | WOTX | TEST FOR ON-LINE OUTPUT |
| | | | | | 01242 | 0522 | 00 0 | 00351 | 756 | XEC | \$WRS | SELECT TAPE |
| | | | | | 01243 | -0774 | 00 4 | 01367 | 757 | AXC | WOTC,4 | POINTER TO I-O COMMAND |
| | | | | | 01244 | 0522 | 00 0 | 00361 | 758 | XEC | \$RCH | RESET ANF LOAD CHANNEL |
| | | | | | 01245 | 0774 | 00 4 | 00000 | 759 | WOTX AXT | ** ,4 | RESTORE LINK IR |
| | | | | | 01246 | 0500 | 00 4 | 00001 | 760 | CLA | 1,4 | TEST FOR ON-LINE |
| | | | | | | | | | | | | 1.5L1400 |
| | | | | | | | | | | | | 1.5L1450 |
| | | | | | | | | | | | | 1.5L1440 |
| | | | | | | | | | | | | 1.5L1460 |
| | | | | | | | | | | | | 1.5L1470 |
| | | | | | | | | | | | | 1.5L1500 |
| | | | | | | | | | | | | 1.5L1510 |
| | | | | | | | | | | | | 1.5L1540 |
| | | | | | | | | | | | | 1.5L1550 |
| | | | | | | | | | | | | 1.5L1560 |
| | | | | | | | | | | | | 1.5L1570 |
| | | | | | | | | | | | | 1.5L1410 |
| | | | | | | | | | | | | 1.5L1420 |
| | | | | | | | | | | | | 1.5L1430 |
| | | | | | | | | | | | | 1.5L1580 |
| | | | | | | | | | | | | 1.5L1590 |
| | | | | | | | | | | | | 1.5L1600 |
| | | | | | | | | | | | | 1.5L1610 |
| | | | | | | | | | | | | 1.5L1620 |

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| 01247 | 0522 | 00 | 0 | 01400 | 761 | XEC | \$SWT3 | ON-LINE SENSE SWITCH | 1.5L1630 |
| 01250 | 0120 | 00 | 4 | 00003 | 762 | TPL | 3,4 | EXIT IF DONE | 1.5L1640 |
| | | | | | 763 | * DM 716A - 48 CARDS - 02-09-59 | | | 716A0001 |
| | | | | | 764 | *BCD ON-LINE PRINT ROUTINE FOR 709 | | | 716A0002 |
| | | | | | 765 | * MODIFIED FOR USE IN LISP 1.5 | | | |
| 01251 | 0634 | 00 | 4 | 01334 | 766 | WOTDN | SXA | WOTU,4 | PRINT ON LINE |
| 01252 | 0634 | 00 | 2 | 01335 | 767 | SXA | WOTV,2 | SAVE INDEX REGISTERS | |
| 01253 | 0634 | 00 | 1 | 01336 | 768 | SXA | WOTW,1 | | |
| 01254 | 0600 | 00 | 0 | 01340 | 769 | STZ | WOTT | SET SWITCH | |
| 01255 | 0600 | 00 | 0 | 01341 | 770 | STZ | WOTS | SET SWITCH TO SKIP FIRST CHARACTER | |
| 01256 | -0534 | 00 | 6 | 01367 | 771 | LXD | WOTC,6 | COUNT IN INDEX 4 AND 2 | |
| 01257 | 1 | 01343 | 4 | 01260 | 772 | TXI | **1,4,WOTB-20 | ADD BEGINNING OF BUFFER | |
| 01260 | 0634 | 00 | 4 | 01271 | 773 | SXA | BC05,4 | SET ADDRESS | |
| 01261 | 0766 | 00 | 0 | 01361 | 774 | BC02 | WPDA | SELECT PRINTER | 716A0009 |
| 01262 | 0520 | 00 | 0 | 01340 | 775 | ZET | WOTT | SKIP ON FIRST 72 CHARACTERS | |
| 01263 | 0760 | 00 | 0 | 01371 | 776 | SPRA | 9 | SET UP SECOND HALF OF LINE | |
| 01264 | 0774 | 00 | 4 | 00030 | 777 | AXT | 24,4 | CLEAR | 716A0010 |
| 01265 | 0600 | 00 | 4 | 77714 | 778 | STZ | COMMON+26,4 | WORKING | 716A0011 |
| 01266 | 2 | 00001 | 4 | 01265 | 779 | TIX | **1,4,1 | STORAGE | 716A0012 |
| 01267 | -0500 | 00 | 0 | 00455 | 780 | BC03 | CAL | BC50 | STROBE STARTER |
| 01270 | 0634 | 00 | 2 | 01274 | 781 | BC04 | SXA | BC01,2 | WORKING CELL FOR N |
| 01271 | 0560 | 00 | 2 | 00000 | 782 | BC05 | LDQ | 0,2 | PICK UP WORD TO CONVERT |
| 01272 | 0774 | 00 | 2 | 00006 | 783 | AXT | 6,2 | X2 COUNTS 6 CHARACTERS | 716A0016 |
| 01273 | 0602 | 00 | 0 | 77714 | 784 | BC06 | SLW | COMMON+26 | STROBE |
| 01274 | -0754 | 00 | 0 | 00000 | 785 | BC07 | PXD | **0 | 716A0018 |
| 01275 | -0763 | 00 | 0 | 00006 | 786 | LGL | 6 | LOOK AT | 716A0019 |
| 01276 | -0520 | 00 | 0 | 01341 | 787 | NZT | WOTS | SKIP IF NOT FIRST CHARACTER | |
| 01277 | 0500 | 00 | 0 | 00427 | 788 | CLA | \$Q060 | GET BCD BLANK FOR LEADING CHARACTER | |
| 01300 | 0767 | 00 | 0 | 00001 | 789 | ALS | 1 | ONE CHARACTER | 716A0020 |
| 01301 | 0734 | 00 | 1 | 00000 | 790 | PAX | ,1 | | 716A0021 |
| 01302 | -0500 | 00 | 0 | 77714 | 791 | CAL | COMMON+26 | STROBE | 716A0022 |
| 01303 | -2 | 00140 | 1 | 01305 | 792 | TNX | **2,1,96 | NOT 0 | 716A0023 |
| 01304 | -0602 | 00 | 4 | 77707 | 793 | ORS | COMMON+21,4 | 0 | 716A0024 |
| 01305 | 3 | 00136 | 1 | 01320 | 794 | TXH | BC08,1,94 | BLANK | 716A0025 |
| 01306 | -2 | 00076 | 1 | 01311 | 795 | TNX | **3,1,62 | NOT 11 | 716A0026 |
| 01307 | -0602 | 00 | 4 | 77711 | 796 | ORS | COMMON+23,4 | 11 | 716A0027 |
| 01310 | -2 | 00002 | 1 | 01320 | 797 | TNX | BC08,1,2 | | 716A0028 |
| 01311 | -2 | 00036 | 1 | 01314 | 798 | TNX | **3,1,30 | NOT 12 | 716A0029 |
| 01312 | -0602 | 00 | 4 | 77713 | 799 | ORS | COMMON+25,4 | 12 | 716A0030 |
| 01313 | -2 | 00002 | 1 | 01320 | 800 | TNX | BC08,1,2 | | 716A0031 |
| 01314 | -2 | 00022 | 1 | 01317 | 801 | TNX | **3,1,18 | NOT 8 COMBINATION | 716A0032 |
| 01315 | 1 | 00002 | 1 | 01316 | 802 | TXI | **1,1,2 | | 716A0033 |
| 01316 | -0602 | 00 | 4 | 77667 | 803 | ORS | COMMON+5,4 | 8 COMBINATION | 716A0034 |
| 01317 | -0602 | 00 | 5 | 77707 | 804 | ORS | COMMON+21,5 | NUMBER | 716A0035 |
| 01320 | 0771 | 00 | 0 | 00001 | 805 | BC08 | ARS | 1 | MOVE STROBE |
| 01321 | -0625 | 00 | 0 | 01341 | 806 | STL | WOTS | SET SWITCH | 716A0036 |
| 01322 | 2 | 00001 | 2 | 01273 | 807 | TIX | BC06,2,1 | BACK FOR NEXT CHARACTER | 716A0037 |
| 01323 | 0534 | 00 | 3 | 01274 | 808 | LXA | BC01,3 | N | 716A0038 |
| 01324 | -2 | 00001 | 2 | 01330 | 809 | TNX | BC15,2,1 | OUT IF N WORDS DONE | 716A0039 |
| 01325 | -0100 | 00 | 0 | 01270 | 810 | TNZ | BC04 | BACK FOR REST OF HALF-CARD | 716A0040 |
| 01326 | -3 | 00000 | 4 | 01330 | 811 | TXL | BC15,4,0 | RIGHT-HALF DONE | 716A0041 |
| 01327 | 1 | 77777 | 4 | 01267 | 812 | TXI | BC03,4,-1 | BACK FOR RIGHT HALF | 716A0042 |
| 01330 | 0540 | 00 | 0 | 01342 | 813 | BC15 | RCHA | BC49 | 716A0043 |
| 01331 | -0625 | 00 | 0 | 01340 | 814 | STL | WOTT | SET SWITCH FOR SECOND HALF LINE | |

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|--|-------|-------|-------|---|-------|-----|--------|--|-----------------|---|----------|
| | 01332 | 3 | 00001 | 1 | 01261 | 815 | | TXH | BC02,1,1 | BACK FOR MORE WORDS | 716A0044 |
| | 01333 | 0060 | 00 | 0 | 01333 | 816 | | TCDA | * | | 716A0045 |
| | 01334 | 0774 | 00 | 4 | 00000 | 817 | WOTU | AXT | ** , 4 | RESTORE INDEX REGISTERS | |
| | 01335 | 0774 | 00 | 2 | 00000 | 818 | WOTV | AXT | ** , 2 | | |
| | 01336 | 0774 | 00 | 1 | 00000 | 819 | WOTW | AXT | ** , 1 | | |
| | 01337 | 0020 | 00 | 4 | 00003 | 820 | | TRA | 3 , 4 | EXIT | |
| | | | | | | 821 | * | | | | |
| | 01340 | 0 | 00000 | 0 | 00000 | 822 | WOTT | | | NON-ZERO ON SECOND HALF LINE | |
| | 01341 | 0 | 00000 | 0 | 00000 | 823 | WOTS | | | ZERO FOR FIRST CHARACTER | |
| | 01342 | 0 | 00030 | 0 | 77664 | 824 | BC49 | IOCD | COMMON+2 , , 24 | | 716A0047 |
| | | | | | 01274 | 825 | BC01 | SYN | BC07 | | |
| | | | | | 00455 | 826 | BC50 | SYN | \$SBIT | | |
| | | | | | | 827 | * | | | | |
| | 01367 | | | | | 828 | WOTB | BES | 20 | OUTPUT BUFFER | 1.5L1660 |
| | 01367 | 2 | 00000 | 0 | 01343 | 829 | WOTC | IORP | WOTB-20 , , ** | WRITE RECORD FROM BUFFER | |
| | 01370 | 0 | 00000 | 0 | 00000 | 830 | | IOCD | 0 , , 0 | DISCONNECT CHANNEL | |
| | | | | | 00364 | 831 | BCDOUT | SYN | SYSPOT | | 1.5L1700 |
| | | | | | 00363 | 832 | PPTOUT | SYN | SYSPPT | | 1.5L1710 |
| | | | | | | 833 | * | | | | |
| | | | | | | 834 | | | | | LC072900 |
| | 01371 | 0762 | 00 | 0 | 01321 | 835 | PSHLDB | RCDA | | | LC073000 |
| | 01372 | 0540 | 00 | 0 | 01375 | 836 | | RCDA | **+3 | | LC073100 |
| | 01373 | 0544 | 00 | 0 | 00000 | 837 | | LCHA | 0 | | LC073200 |
| | 01374 | 0021 | 00 | 0 | 00001 | 838 | | TTR | 1 | | LC073300 |
| | 01375 | -1 | 00003 | 0 | 00000 | 839 | | IOCT | 0 , , 3 | | LC073400 |
| | | | | | | 840 | | HEAD | 0 | | 1.5+0201 |
| | | | | | | 841 | * | \$SWTN | COMMANDS | ALL SWT COMMANDS ARE EXECUTED | 1.5L1730 |
| | | | | | | 842 | * | NOTE... | | SWT COMMANDS MAY BE SIMULATED BY MAKING DOWN SWITCHES | |
| | | | | | | 843 | * | ZET | \$ZERO | | |
| | | | | | | 844 | * | | | AND UP SWITCHES | |
| | | | | | | 845 | * | NZT | \$ZERO | | |
| | | | | | | 846 | * | | | | |
| | 01376 | 0 | 76000 | 0 | 00161 | 847 | SWT1 | SWT | 1 | | 1.5L1770 |
| | 01377 | 0 | 76000 | 0 | 00162 | 848 | SWT2 | SWT | 2 | | 1.5L1780 |
| | 01400 | 0 | 76000 | 0 | 00163 | 849 | SWT3 | SWT | 3 | | 1.5L1790 |
| | 01401 | 0 | 76000 | 0 | 00164 | 850 | SWT4 | SWT | 4 | | 1.5L1800 |
| | 01402 | 0 | 76000 | 0 | 00165 | 851 | SWT5 | SWT | 5 | | 1.5L1810 |
| | 01403 | 0 | 76000 | 0 | 00166 | 852 | SWT6 | SWT | 6 | | 1.5L1820 |
| | | | | | | 853 | * | | | | |
| | | | | | | 854 | * | SENSE LIGHT AND TEST INSTRUCTIONS TO BE EXECUTED OR DUMMYED | | | |
| | | | | | | 855 | * | | | | |
| | 01404 | 0760 | 00 | 0 | 00141 | 856 | SLN1 | SLN | 1 | | |
| | 01405 | 0760 | 00 | 0 | 00142 | 857 | SLN2 | SLN | 2 | | |
| | 01406 | 0760 | 00 | 0 | 00143 | 858 | SLN3 | SLN | 3 | | |
| | 01407 | 0760 | 00 | 0 | 00144 | 859 | SLN4 | SLN | 4 | | |
| | 01410 | 0760 | 00 | 0 | 00140 | 860 | SLF | SLF | | | |
| | 01411 | -0760 | 00 | 0 | 00141 | 861 | SLT1 | SLT | 1 | | |
| | 01412 | -0760 | 00 | 0 | 00142 | 862 | SLT2 | SLT | 2 | | |
| | 01413 | -0760 | 00 | 0 | 00143 | 863 | SLT3 | SLT | 3 | | |
| | 01414 | -0760 | 00 | 0 | 00144 | 864 | SLT4 | SLT | 4 | | |
| | | | | | | 865 | | | | | LC073500 |
| | | | | | | 866 | | HEAD | D | | 1.5P0300 |
| | | | | | | 867 | * | C043 786 R. DALEY ... GETTM ... READ CLOCK ROUTINE FOR 709 | | | LC073700 |
| | | | | | | 868 | * | RECODED AND SQUEEZED BY D. 4. EDWARDS | | | LC073800 |

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|-------|-------|-------|---|-------|-----|-------|-------------|--------|--|----------|
| 01415 | 0762 | 00 | 0 | 01361 | 869 | GETTM | RPRA | | | LC073900 |
| 01416 | 0634 | 00 | 1 | 01510 | 870 | SXA | EXA,1 | | | LC074000 |
| 01417 | 0634 | 00 | 2 | 01511 | 871 | SXA | EXB,2 | | | LC074100 |
| 01420 | 0634 | 00 | 4 | 01473 | 872 | SXA | EXC,4 | | .. | LC074200 |
| 01421 | 0774 | 00 | 2 | 00041 | 873 | AXT | 33,2 | | SET UP FOR LOOP | LC074300 |
| 01422 | 0600 | 00 | 2 | 77723 | 874 | STZ | COMMON+33,2 | | ZERO CARD IMAGE AND WORKING STORAGE | LC074400 |
| 01423 | 2 | 00001 | 2 | 01422 | 875 | TIX | *-1,2,1 | | LOOP | LC074500 |
| 01424 | 0540 | 00 | 0 | 01515 | 876 | RCHA | SKP27 | | SET PRINTER TO SKIPPING FIRST 27 WORDS | LC074600 |
| 01425 | 0760 | 00 | 0 | 01367 | 877 | SPRA | 7 | | SENSE TIME CLOCK | LC074700 |
| 01426 | 0760 | 00 | 0 | 01371 | 878 | SPRA | 9 | | SET ECHO ENTRIES | LC074800 |
| 01427 | -0140 | 00 | 0 | 01431 | 879 | TNO | **2 | | SKIP IF OVERFLOW LIGHT OFF | LC074900 |
| 01430 | -0625 | 00 | 0 | 77667 | 880 | STL | COMMON+5 | | OVERFLOW LIGHT ON, MAKE COMMON+5 =/ 0 | LC075000 |
| 01431 | 0544 | 00 | 0 | 01520 | 881 | LCHA | ONWD | | 9 RIGHT ECHO | LC075100 |
| 01432 | 0774 | 00 | 4 | 00011 | 882 | AXT | 9,4 | | ROW COUNT | LC075200 |
| 01433 | 0544 | 00 | 0 | 01516 | 883 | LCHA | SKP3 | | IOCPN ZERO,,3 IOCT COMMON,,1 | LC075300 |
| 01434 | 0560 | 00 | 0 | 77662 | 884 | LOAD | LDQ | COMMON | | LC075400 |
| 01435 | 0774 | 00 | 2 | 00002 | 885 | AXT | 2,2 | | .. | LC075500 |
| 01436 | -0754 | 00 | 0 | 00000 | 886 | CONV | PXD | ,0 | | |
| 01437 | 0774 | 00 | 1 | 00006 | 887 | AXT | 6,1 | | .. | LC075700 |
| 01440 | 0767 | 00 | 0 | 00005 | 888 | ALS | 5 | | .. | LC075800 |
| 01441 | -0763 | 00 | 0 | 00001 | 889 | LGL | 1 | | .. | LC075900 |
| 01442 | 2 | 00001 | 1 | 01440 | 890 | TIX | *-2,1,1 | | .. | LC076000 |
| 01443 | -0602 | 00 | 2 | 77665 | 891 | ORS | COMMON+3,2 | | .. | LC076100 |
| 01444 | -0500 | 00 | 2 | 77667 | 892 | CAL | COMMON+5,2 | | .. | LC076200 |
| 01445 | 0361 | 00 | 2 | 77665 | 893 | ACL | COMMON+3,2 | | .. | LC076300 |
| 01446 | 0602 | 00 | 2 | 77667 | 894 | SLW | COMMON+5,2 | | .. | LC076400 |
| 01447 | 2 | 00001 | 2 | 01436 | 895 | TIX | CONV,2,1 | | .. | LC076500 |
| 01450 | 0544 | 00 | 0 | 01517 | 896 | LCHA | SKP1 | | IOCPN ZERO,,1 IOCT COMMON,,1 | LC076600 |
| 01451 | 2 | 00001 | 4 | 01434 | 897 | TIX | LOAD,4,1 | | COUNTS ROWS | LC076700 |
| 01452 | 0544 | 00 | 0 | 01513 | 898 | LCHA | ZERC | | IOCD 0,,0 DISCONNECT PRINTER | LC076800 |
| 01453 | 0560 | 00 | 0 | 77665 | 899 | LDQ | COMMON+3 | | DATE | LC076900 |
| 01454 | -0754 | 00 | 0 | 00000 | 900 | PXD | ,0 | | | |
| 01455 | -0763 | 00 | 0 | 00006 | 901 | LGL | 6 | | .. | LC077100 |
| 01456 | -0100 | 00 | 0 | 01460 | 902 | TNZ | **2 | | .. | LC077200 |
| 01457 | -0500 | 00 | 0 | 00427 | 903 | CAL | OCT60 | | INSERT BLANK | LC077300 |
| 01460 | -0763 | 00 | 0 | 00014 | 904 | LGL | 12 | | .. | LC077400 |
| 01461 | -0501 | 00 | 0 | 00430 | 905 | ORA | OCT61 | | INSERT / BETWEEN MONTH AND DAY | LC077500 |
| 01462 | 0767 | 00 | 0 | 00022 | 906 | ALS | 18 | | .. | LC077600 |
| 01463 | 0602 | 00 | 0 | 77665 | 907 | SLW | COMMON+3 | | .. | LC077700 |
| 01464 | -0754 | 00 | 0 | 00000 | 908 | PXD | ,0 | | | |
| 01465 | -0763 | 00 | 0 | 00006 | 909 | LGL | 6 | | .. | LC077900 |
| 01466 | -0100 | 00 | 0 | 01470 | 910 | TNZ | **2 | | .. | LC078000 |
| 01467 | -0500 | 00 | 0 | 00427 | 911 | CAL | OCT60 | | INSERT BLANK | LC078100 |
| 01470 | -0763 | 00 | 0 | 00014 | 912 | LGL | 12 | | .. | LC078200 |
| 01471 | -0501 | 00 | 0 | 00427 | 913 | ORA | OCT60 | | PROVIDE BLANK AS LAST CHARACTER | LC078300 |
| 01472 | -0501 | 00 | 0 | 77665 | 914 | ORA | COMMON+3 | | .. | LC078400 |
| 01473 | 0774 | 00 | 4 | 00000 | 915 | EXC | AXT | ** ,4 | RESTORE LINK IR | LC078500 |
| 01474 | 0602 | 60 | 4 | 00001 | 916 | SLW* | 1,4 | | STORE DATE IN REGISTER SPECIFIED | LC078600 |
| 01475 | -0754 | 00 | 0 | 00000 | 917 | PXD | ,0 | | | |
| 01476 | 0560 | 00 | 0 | 77666 | 918 | LDQ | COMMON+4 | | TIME | LC078800 |
| 01477 | -0763 | 00 | 0 | 00006 | 919 | LGL | 6 | | .. | LC078900 |
| 01500 | -0100 | 00 | 0 | 01502 | 920 | TNZ | **2 | | .. | LC079000 |
| 01501 | -0500 | 00 | 0 | 00427 | 921 | CAL | OCT60 | | BLANK | LC079100 |
| 01502 | -0763 | 00 | 0 | 00036 | 922 | LGL | 30 | | .. | LC079200 |

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|-------|--------------|---------|-------|-------|--------|--------------------------|--------------------------------------|-----------------------------|----------|
| 01503 | -0501 | 00 0 | 00431 | 923 | ORA | OCT33 | PROVIDE DECIMAL POINT | LC079300 | |
| 01504 | 0602 | 60 4 | 00002 | 924 | SLW* | 2,4 | STORE TIME | LC079400 | |
| 01505 | 0767 | 00 0 | 00010 | 925 | ALS | 8 | TURN ON OVER FLOW | LC079500 | |
| 01506 | -0520 | 00 0 | 77667 | 926 | NZT | COMMON+5 | LEAVE ON IF COMMON+5 IS NON ZERO | LC079600 | |
| 01507 | 0140 | 00 0 | 01510 | 927 | TOV | **1 | TURN OFF OVER FLOW LIGHT | LC079700 | |
| 01510 | 0774 | 00 1 | 00000 | 928 | EXA | AXT 0,1 | RESTORE IRS | LC079800 | |
| 01511 | 0774 | 00 2 | 00000 | 929 | EXB | AXT 0,2 | .. | LC079900 | |
| 01512 | 0020 | 00 4 | 00003 | 930 | TRA | 3,4 | EXIT..... | LC080000 | |
| 01513 | 0 00000 | 0 00000 | 931 | ZERO | PZE | 0 | .. | LC080100 | |
| 01514 | 0 00000 | 0 00000 | 932 | | PZE | | | LC080200 | |
| 01515 | -1 00033 | 2 77670 | 933 | SKP27 | IOCTN | COMMON+6,,27 | | LC080300 | |
| 01516 | -0 00002 | 2 01513 | 934 | SKP3 | IOCPN | ZERO,,2 | SKIP TWO WORDS | LC080400 | |
| 01517 | -0 00001 | 2 01513 | 935 | SKP1 | IOCPN | ZERO,,1 | SKIP ONE WORD | LC080500 | |
| 01520 | -1 00001 | 0 77662 | 936 | ONWD | IOCT | COMMON,,1 | TRANSMIT ONE WORD TO COMMON | LC080600 | |
| | | 00427 | 937 | OCT60 | SYN | \$Q060 | | 1.5L3190 | |
| | | 00430 | 938 | OCT61 | SYN | \$Q061 | BCD / | 1.5L3200 | |
| | | 00431 | 939 | OCT33 | SYN | Q033Q2 | BCD .0 | 1.5L3210 | |
| | | | 940 | * | TIME | PRINTS THE DATE AND TIME | | LC081000 | |
| 01521 | 0634 | 00 4 | 01531 | 941 | TIME | SXA | TIR,4 | SAVE LINK IR | LC081100 |
| 01522 | 0074 | 00 4 | 01415 | 942 | | TSX | GETIM,4 | GET TIME FROM ON-LINE CLOCK | LC081200 |
| 01523 | 0 00000 | 0 01535 | 943 | | | | TR+2 | STORE DATE | 1.5P0395 |
| 01524 | 0 00000 | 0 01536 | 944 | | | | TR+2+1 | STORE TIME | 1.5P0396 |
| 01525 | 0074 | 00 4 | 01222 | 945 | | TSX | OUTPUT,4 | PRINT OUT DATE AND TIME | LC081500 |
| 01526 | 0 00000 | 0 00364 | 946 | | | | BCDOUT | ON BCD OUTPUT TAPE | LC081600 |
| 01527 | 0 00021 | 0 01533 | 947 | | | | TR,,17 | | 1.5P0398 |
| 01530 | -0754 | 00 0 | 00000 | 948 | | PXD | 0,0 | | |
| 01531 | 0774 | 00 4 | 00000 | 949 | TIR | AXT | **,,4 | RESTORE LINK IR | LC081800 |
| 01532 | 0020 | 00 4 | 00001 | 950 | | TRA | 1,4 | RETURN | LC081900 |
| 01533 | 006063302560 | | 951 | TR | BCI | 1,0 | THE | | 1.5P1399 |
| 01534 | 633144256074 | | 952 | | BCI | 9,TIME (|) HAS COME, THE WALRUS SAID, TO TALK | 1.5P0399 | |
| 01535 | 606060606060 | | | | | | | | |
| 01536 | 606060606060 | | | | | | | | |
| 01537 | 346030216260 | | | | | | | | |
| 01540 | 234644257360 | | | | | | | | |
| 01541 | 633025606621 | | | | | | | | |
| 01542 | 435164626062 | | | | | | | | |
| 01543 | 213124736063 | | | | | | | | |
| 01544 | 466063214342 | | | | | | | | |
| 01545 | 604626604421 | | 953 | | BCI | 7, OF MANY THINGS | -LEWIS CARROLL- | | 1.5P0400 |
| 01546 | 457060633031 | | | | | | | | |
| 01547 | 452762603333 | | | | | | | | |
| 01550 | 333333606060 | | | | | | | | |
| 01551 | 404325663162 | | | | | | | | |
| 01552 | 602321515146 | | | | | | | | |
| 01553 | 434340606060 | | | | | | | | |
| | | | 954 | 0 | HED | | | LC085000 | |
| | | 01521 | 955 | TIME | SYN | D\$TIME | | 1.5P0301 | |
| | | 01415 | 956 | GETTM | SYN | D\$GETTM | | 1.5P0302 | |
| | | | 957 | | | | | LC086800 | |
| 01554 | 0420 | 00 0 | 00007 | 958 | PAUSEF | HPR 7 | | LC086900 | |
| 01555 | 0020 | 00 4 | 00001 | 959 | | TRA 1,4 | | LC087000 | |
| | | | 960 | | | | | LC087100 | |
| | | | 961 | | | | | LC090700 | |
| | | | 962 | * | | | | | |

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|--|-------|-------|-------|---|-------------|---|
| | | | | | 963 * ERROR | PROCESSES ALL LISP ERRORS. NORMALLY GIVES ERROR NUMBER, |
| | | | | | 964 * | ERROR LOCATION, LISP PRINT OF AC AND BACK TRACE OF ALL |
| | | | | | 965 * | FUNCTIONS ENTERED ON PUSH DOWN LIST. |
| | | | | | 966 * | |
| | 01556 | 0 | 00000 | 0 | 00000 | 967 ERAC PLACE TO STORE MACHINE REGISTERS |
| | 01557 | 0 | 00000 | 0 | 00000 | 968 ERMQ |
| | 01560 | 0 | 00000 | 0 | 00000 | 969 ERIND |
| | 01561 | 0 | 00000 | 0 | 00000 | 970 ERX INDEX 1,,INDEX 2 |
| | 01562 | 3 | 00000 | 0 | 01563 | 971 ERROR TXH **1,,** INDEX 4 |
| | 01563 | -0520 | 00 | 0 | 11664 | 972 NZT ERNULL SEE IF ERROR PROGRAM IS TO BE EXECUTED |
| | 01564 | 0522 | 00 | 0 | 11665 | 973 XEC EREXIT NORMAL SETTING GOES TO EVALQUOTE |
| | 01565 | -0600 | 00 | 0 | 01557 | 974 STO ERMQ SAVE MACHINE REGISTERS |
| | 01566 | 0604 | 00 | 0 | 01560 | 975 STI ERIND |
| | 01567 | 0634 | 00 | 1 | 01561 | 976 SXA ERX,1 |
| | 01570 | -0634 | 00 | 2 | 01561 | 977 SXD ERX,2 |
| | 01571 | 0441 | 00 | 0 | 10340 | 978 LDI SYSIND PICK UP SYSTEM INDICATORS |
| | 01572 | 0055 | 00 | 0 | 000010 | 979 SIR ERRORI SET ERROR HAS OCCURRED INDICATOR |
| | 01573 | 0604 | 00 | 0 | 10340 | 980 STI SYSIND UPDATE SYSTEM INDICATOR CELLS |
| | 01574 | 0601 | 00 | 0 | 01655 | 981 STO ERT AC TO BE PRINTED |
| | 01575 | 0500 | 00 | 4 | 00001 | 982 CLA 1,4 ERROR NUMBER TO AC |
| | 01576 | 0601 | 00 | 0 | 01661 | 983 STO ERM PUT IN ERROR MESSAGE |
| | 01577 | -0535 | 00 | 4 | 01562 | 984 LDC ERROR,4 |
| | 01600 | -0754 | 00 | 4 | 00000 | 985 PXD 0,4 |
| | 01601 | 0131 | 00 | 0 | 00000 | 986 XCA AND CONVERT TO OCATL |
| | 01602 | 0074 | 00 | 4 | 11021 | 987 TSX OCTALP,4 |
| | 01603 | -0501 | 00 | 0 | 00452 | 988 ORA OBLANK INSERT LEADING BLANK |
| | 01604 | 0602 | 00 | 0 | 01664 | 989 SLW ERN PUT IN ERROR MESSAGE |
| | 01605 | 0074 | 00 | 4 | 01222 | 990 TSX OUTPUT,4 WRITE OUT ERROR MESSAGE |
| | 01606 | 0 | 00000 | 0 | 00364 | 991 BCDOUT |
| | 01607 | 0 | 00011 | 0 | 01656 | 992 ERO,,9 |
| | 01610 | 0520 | 00 | 0 | 01654 | 993 ZET BACACT SKIP IF BACK TRACE IS NOT ACTIVE |
| | 01611 | 0020 | 00 | 0 | 01650 | 994 TRA BACER GO TO SPECIAL ROUTINE |
| | 01612 | -0625 | 00 | 0 | 01654 | 995 STL BACACT MAKE BACK TRACE ROUTINE ACTIVE |
| | 01613 | 0500 | 00 | 0 | 01655 | 996 CLA ERT PICK UP AC ON ENTRANCE |
| | 01614 | 0074 | 00 | 4 | 04604 | 997 TSX \$PRINT,4 PRINT IT IN LISP |
| | 01615 | 0054 | 00 | 0 | 000200 | 998 RFT NOBACT TEST FOR NO BACK TRACE |
| | 01616 | 0020 | 00 | 0 | 01646 | 999 TRA BACC GO TO EXIT |
| | 01617 | 0560 | 00 | 0 | 00370 | 1000 LDQ \$ZERO ZERO THE ERROR LIST |
| | 01620 | -0534 | 00 | 4 | 11670 | 1001 LXD NUBPDL,4 BEGINNING OF PUSH DOWN LIST |
| | 01621 | 1 | 77777 | 4 | 01622 | 1002 TXI **1,4,-1 PUSH UP BY -1 |
| | 01622 | -0634 | 00 | 4 | 01624 | 1003 SXD BEX,4 SET UP ALL DONE TEST INSTRUCTION |
| | 01623 | -0534 | 00 | 4 | 02317 | 1004 LXD \$CPPI,4 PICK UP CURRENT PDL COUNTER |
| | 01624 | 3 | 00000 | 4 | 01644 | 1005 BEX TXH BACTD,4,** GO IF ALL UNSAVED |
| | 01625 | -0500 | 00 | 4 | 77777 | 1006 CAL -1,4 EITHER UNSAVE OR UNWND |
| | 01626 | -0320 | 00 | 0 | 00461 | 1007 ANA \$PMASK DEPENDING ON COMPILED OR |
| | 01627 | 0322 | 00 | 0 | 00451 | 1008 ERA \$QP5 SYSTEM SUBROUTINE PUT IT THERE |
| | 01630 | 0100 | 00 | 0 | 01633 | 1009 TZE **3 TEST IS FOR STR OP |
| | 01631 | 0074 | 00 | 4 | 02326 | 1010 TSX UNSAVE,4 IN LAST WORD OF BLOCK FROM COMPILER |
| | 01632 | 0020 | 00 | 0 | 01634 | 1011 TRA **2 |
| | 01633 | 0074 | 00 | 4 | 17330 | 1012 TSX C\$UNWND,4 |
| | 01634 | -0534 | 00 | 4 | 02317 | 1013 LXD \$CPPI,4 BEGINNING OF BLOCK JUST UNSAVED |
| | 01635 | 0500 | 00 | 4 | 00000 | 1014 CLA 0,4 LAST IR 4 WORD |
| | 01636 | 0734 | 00 | 4 | 00000 | 1015 PAX 0,4 FUNCTION ATOMIC SYMBOL |
| | 01637 | -0754 | 00 | 4 | 00000 | 1016 PXD 0,4 PUT IN DECREMENT |

| | | | | | | | | |
|-------|--------------|-------|---|--------|------|---------|----------------|--|
| 01640 | 0074 | 00 | 4 | 03730 | 1017 | TSX | \$CONS,4 | ADD TO ERROR LIST |
| 01641 | 0131 | 00 | 0 | 00000 | 1018 | XCA | | ANSWER TO MQ |
| 01642 | -0534 | 00 | 4 | 02317 | 1019 | LXD | \$CPPI,4 | PUSH DOWN INDICTOR |
| 01643 | 0020 | 00 | 0 | 01624 | 1020 | TRA | BEX | GO BACK FOR NEXT |
| 01644 | 0131 | 00 | 0 | 00000 | 1021 | RACTD | XCA | LIST TO AC |
| 01645 | 0074 | 00 | 4 | 04604 | 1022 | TSX | \$PRINT,4 | PRINT THE ERROR LIST |
| 01646 | 0600 | 00 | 0 | 01654 | 1023 | BACD | STZ | DE-ACTIVATE THE BACK TRACE ROUTINE |
| 01647 | 0522 | 00 | 0 | 11665 | 1024 | XEC | EREXIT | NORMAL SETTING GOES TO EVALQUOTE |
| | | | | | 1025 | * | | |
| 01650 | 0074 | 00 | 4 | 01222 | 1026 | BACER | TSX | WRITE OUT MESSAGE THAT BACK TRACE |
| 01651 | 0 | 00000 | 0 | 00364 | 1027 | | BCDOUT | CAUSED ANOTHER ERROR |
| 01652 | 0 | 00007 | 0 | 01667 | 1028 | | BACE,,7 | |
| 01653 | 0020 | 00 | 0 | 01646 | 1029 | TRA | BACD | RESET AND RETURN |
| | | | | 000200 | 1030 | NOBACT | BOOL | NO BACK TRACE INDICATOR |
| 01654 | 0 | 00000 | 0 | 00000 | 1031 | BACACT | | NON-ZERO MEANS BACK TRACE ACTIVE |
| 01655 | 0 | 00000 | 0 | 00000 | 1032 | ERT | | TEMPORARY STORAGE FOR AC |
| 01656 | 005454546025 | | | | 1033 | ERD | BCI | 3,0*** ERROR NUMBER |
| 01657 | 515146516045 | | | | | | | |
| 01660 | 644422255160 | | | | | | | |
| 01661 | 0 | 00000 | 0 | 00000 | 1034 | ERM | | ERROR NUMBER IN BCD GOES HERE |
| 01662 | 603145242567 | | | | 1035 | | BCI | 2, INDEX 4 = |
| 01663 | 600460136060 | | | | | | | |
| 01664 | 0 | 00000 | 0 | 00000 | 1036 | ERN | | OCATL LOCATION GOES HERE |
| 01665 | 604623632143 | | | | 1037 | | BCI | 2, OCTAL. *** |
| 01666 | 336054545460 | | | | | | | |
| 01667 | 005454546021 | | | | 1038 | BACE | BCI | 7,0*** ABOVE ERROR TERMINATED BACK-TRACE *** |
| 01670 | 224665256025 | | | | | | | |
| 01671 | 515146516063 | | | | | | | |
| 01672 | 255144314521 | | | | | | | |
| 01673 | 632524602221 | | | | | | | |
| 01674 | 234240635121 | | | | | | | |
| 01675 | 232560545454 | | | | | | | |
| | | | | | 1039 | * | | |
| | | | | | 1040 | * | FLAPTR AND DCT | GIVE ERROR DIAGNOSTICS FOR FLOATING POINT TRAP AND 1.5M4800 |
| | | | | | 1041 | * | | DIVIDE CHECK INCLUDING LOCATION AND CONTENTS OF AC. 1.5M4810 |
| | | | | | 1042 | * | | BOTH MY BE IGNORED BY MAKING CELL FPTG NR NON-ZERO. 1.5M4820 |
| | | | | | 1043 | * | | 1.5M4830 |
| 01676 | 0520 | 00 | 0 | 01706 | 1044 | DCT | ZET | FPTG NR TEST FOR IGNORE ERROR FLAG 1.5M4840 |
| 01677 | 0020 | 00 | 4 | 00001 | 1045 | TRA | 1,4 | RETURN 1.5M4850 |
| 01700 | -0634 | 00 | 4 | 01562 | 1046 | SXD | \$ERROR,4 | SAVE IR 4 1.5M4860 |
| 01701 | -0535 | 00 | 4 | 01562 | 1047 | LDC | \$ERROR,4 | COMPLEMENT LOCATION OF ENTRANCE 1.5M4870 |
| 01702 | 0634 | 00 | 4 | 01717 | 1048 | SXA | FLXT,4 | SET TRAP ADDRESS |
| 01703 | -0634 | 00 | 0 | 01717 | 1049 | SXD | FLXT,0 | ZERO THE DECREMENT |
| 01704 | -0625 | 00 | 0 | 01765 | 1050 | STL | FPTDV | SET DIVIDE CHECK FLAG 1.5M4890 |
| 01705 | 0020 | 00 | 0 | 01722 | 1051 | TRA | FPTA | DO FLOATING POINT TRAP ERROR 1.5M4900 |
| | | | | | 1052 | * | | 1.5M4910 |
| 01706 | 0 | 00000 | 0 | 00000 | 1053 | FPTG NR | | TEST CELL IS NON-ZERO TO IGNORE TRAPS |
| | | | | | 1054 | * | | |
| 01707 | 0601 | 00 | 0 | 77662 | 1055 | FLAPTR | STO | COMMON |
| 01710 | 0500 | 00 | 0 | 00000 | 1056 | | CLA | 0 |
| 01711 | 0621 | 00 | 0 | 01717 | 1057 | | STA | FLXT |
| 01712 | 0622 | 00 | 0 | 01717 | 1058 | | STD | FLXT |
| 01713 | 0500 | 00 | 0 | 00177 | 1059 | | CLA | FLAPCZ |
| 01714 | 0601 | 00 | 0 | 00000 | 1060 | | STO | 0 |
| | | | | | | | | NORMAL CONTENTS OF ZERO |

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|-------|--------------|-------|---|-------|-----------|---|---|---------------------------------------|----------|
| 01715 | 0500 | 00 | 0 | 77662 | 1061 | CLA | COMMON | RESTORE AC | |
| 01716 | 0520 | 00 | 0 | 01706 | 1062 | ZET | FPTGNR | TEST FOR IGNORE TRAP | |
| 01717 | -3 | 00000 | 0 | 00000 | 1063 | FLXT | TXL **,** | IMMEDIATE EXIT INSTRUCTION | |
| 01720 | 0600 | 00 | 0 | 01765 | 1064 | STZ | FPTDV | INDICATE FLAPPING TRAP | 1.5M4940 |
| 01721 | -0634 | 00 | 4 | 01562 | 1065 | SXD | \$ERROR,4 | SAVE LINK IR | 1.5M4950 |
| 01722 | 0131 | 00 | 0 | 00000 | 1066 | FPTA | XCA | AC TO MQ | 1.5M4960 |
| 01723 | 0074 | 00 | 4 | 11021 | 1067 | TSX | OCTALP,4 | CONVERT TO OCTAL | |
| 01724 | 0602 | 00 | 0 | 01757 | 1068 | SLW | FPTAC | STORE OCTAL FOR LEFT HALF OF AC | 1.5M5020 |
| 01725 | 0074 | 00 | 4 | 11021 | 1069 | TSX | OCTALP,4 | CONVERT TO OCTAL | |
| 01726 | 0602 | 00 | 0 | 01760 | 1070 | SLW | FPTAD | STORE AWAY IN ERROR MESSAGE | 1.5M5070 |
| 01727 | 0560 | 00 | 0 | 01717 | 1071 | LDQ | FLXT | GET TRAP CELL CONTENTS | |
| 01730 | -0773 | 00 | 0 | 00022 | 1072 | RQL | 18 | POSITION IN LEFT HALF OF MQ | 1.5M5090 |
| 01731 | 0074 | 00 | 4 | 11021 | 1073 | TSX | OCTALP,4 | CONVERT TO OCTAL | |
| 01732 | -0501 | 00 | 0 | 00452 | 1074 | ORA | OBLANK | MAKE LEADING ZERO A BLANK | 1.5M5130 |
| 01733 | 0602 | 00 | 0 | 01754 | 1075 | SLW | FPTLO | SAVE OCTAL FOR LOCATION OF ERROR | 1.5M5140 |
| 01734 | -0774 | 00 | 4 | 01761 | 1076 | AXC | FPTF,4 | POINTER TO BEGINNING OF ERROR MESSAGE | 1.5M5150 |
| 01735 | 0520 | 00 | 0 | 01765 | 1077 | ZET | FPTDV | TEST FOR DIVIDE CHECK ERROR | 1.5M5160 |
| 01736 | -0774 | 00 | 4 | 01763 | 1078 | AXC | FPTD,4 | DIVIDE CHECK MESSAGE | 1.5M5170 |
| 01737 | 0500 | 00 | 4 | 00000 | 1079 | CLA | 0,4 | PICK UP PROPER MESSAGE | 1.5M5180 |
| 01740 | 0601 | 00 | 0 | 01751 | 1080 | STO | FPTTY | STORE IN MESSAGE | 1.5M5190 |
| 01741 | 0500 | 00 | 4 | 00001 | 1081 | CLA | 1,4 | | 1.5M5200 |
| 01742 | 0601 | 00 | 0 | 01752 | 1082 | STO | FPTTY+1 | | 1.5M5210 |
| 01743 | 0074 | 00 | 4 | 01222 | 1083 | TSX | OUTPUT,4 | WRITE ERROR MESSAGE | |
| 01744 | 0 | 00000 | 0 | 00364 | 1084 | | RCDCUT | | |
| 01745 | 0 | 00010 | 0 | 01751 | 1085 | | FPTTY,,8 | | |
| 01746 | -0754 | 00 | 0 | 00000 | 1086 | PXD | 0,0 | CLAER AC | |
| 01747 | 0074 | 00 | 4 | 01563 | 1087 | TSX | \$ERROR+1,4 | GO TO ERROR PROGRAM | 1.5M5220 |
| 01750 | 542760600154 | | | 1088 | BCI | 1,*G 1* | | FLOATING POINT TRAP OR DCT | |
| 01751 | 606060606060 | | | 1089 | FPTTY BCI | 3, | AT.... | | 1.5M5230 |
| 01752 | 606060606060 | | | | | | | | |
| 01753 | 216333333333 | | | | | | | | |
| 01754 | 0 | 00000 | 0 | 00000 | 1090 | FPTLO | | LOCATION OF ERROR | 1.5M5240 |
| 01755 | 606631633060 | | | 1091 | BCI | 2, WITH AC = | | | 1.5M5250 |
| 01756 | 212360136060 | | | | | | | | |
| 01757 | 0 | 00000 | 0 | 00000 | 1092 | FPTAC | | OCTAL LEFT HALF OF AC | 1.5M5260 |
| 01760 | 0 | 00000 | 0 | 00000 | 1093 | FPTAD | | OCTAL RIGHT HALF OF AC | 1.5M5270 |
| 01761 | 002643214760 | | | 1094 | FPTF BCI | 2,0FLAP TRAP | | | 1.5M5300 |
| 01762 | 635121476060 | | | | | | | | |
| 01763 | 002431653124 | | | 1095 | FPTD BCI | 2,0DIVIDE CHK | | | 1.5M5310 |
| 01764 | 256023304260 | | | | | | | | |
| | | | | 1096 | * | | | | 1.5M5320 |
| | | | | 1097 | * | THIS ROUTINE USES \$ERROR,\$ERRORP1(AND FPTGNR | | | 1.5M5330 |
| 01765 | 0 | 00000 | 0 | 00000 | 1098 | FPTDV | | DIVIDE CHECK INDICATOR CELL | 1.5M5350 |
| | | | | 1099 | * | | | | 1.5M5370 |
| | | | | 1100 | * | | | | 1.5M5380 |
| | | | | 1101 | * | STRPNT | A DEBUGGING AID WHICH PRINTS THE DECREMENT OF THE AC AS | | 1.5M5390 |
| | | | | 1102 | * | | A LIST OR DUMPS AC AND IR 4 IN OCTAL WHICH EVER IS APPROPRIATE. | | 1.5M5400 |
| | | | | 1103 | * | | | | 1.5M5410 |
| 01766 | 0520 | 00 | 0 | 02051 | 1104 | STRPNT ZET | STRT | TEST IF ROUTINE IS ACTIVE. | 1.5M5420 |
| 01767 | 0020 | 00 | 0 | 02037 | 1105 | TRA | STREX | IT IS THEREFORE EXIT | 1.5M5430 |
| 01770 | 0634 | 00 | 4 | 02035 | 1106 | SXA | STRX,4 | NO, SAVE LINK IR | 1.5M5440 |
| 01771 | 0601 | 00 | 0 | 02046 | 1107 | STO | STRA | SAVE AC | 1.5M5450 |
| 01772 | -0600 | 00 | 0 | 02047 | 1108 | STQ | STRQ | SAVE MQ | 1.5M5460 |
| 01773 | -0625 | 00 | 0 | 02051 | 1109 | STL | STRT | SET CELL TO INDAICTE ACTIVE | |

| | | | | | | | | | | |
|-------|--------------|-------|---|-------|------|--------|-------------|---------------------------------------|-------------------------------|----------|
| 01774 | 0560 | 00 | 0 | 00000 | 1110 | LDQ | 0 | PICK UP TRAP LOCATION | 1.5M5480 | |
| 01775 | -0600 | 00 | 0 | 02052 | 1111 | STQ | STRXT | SAVE CONTENTS | 1.5M5490 | |
| 01776 | -0773 | 00 | 0 | 00022 | 1112 | RQL | 18 | ADDRESS PORTION TO LEFT HALF OF MQ | 1.5M5500 | |
| 01777 | 0074 | 00 | 4 | 11021 | 1113 | TSX | OCTALP,4 | | | |
| 02000 | -0501 | 00 | 0 | 00452 | 1114 | ORA | OBLANK | LEADING BLANK | 1.5M5560 | |
| 02001 | 0602 | 00 | 0 | 02055 | 1115 | SLW | STRM | STORE TRAP ADDRESS IN OCATL | 1.5M5570 | |
| 02002 | 0500 | 00 | 0 | 00177 | 1116 | CLA | FLAPCZ | RESTORE ORIGINAL CONTENTS OF ZERO | | |
| 02003 | 0601 | 00 | 0 | 00000 | 1117 | STQ | 0 | | | |
| 02004 | 0074 | 00 | 4 | 01222 | 1118 | TSX | OUTPUT,4 | | 1.5M5580 | |
| 02005 | 0 | 00000 | 0 | 00364 | 1119 | | BCDOUT | OUTPUT BCD MESSAGE | 1.5M5590 | |
| 02006 | 0 | 00005 | 0 | 02053 | 1120 | | STRN,,5 | | 1.5M5600 | |
| 02007 | 0560 | 00 | 0 | 02046 | 1121 | STRO | LDQ | AC AT TIME OF TRAP | | |
| 02010 | 0074 | 00 | 4 | 11021 | 1122 | TSX | OCTALP,4 | CONVERT TO OCTAL | | |
| 02011 | 0602 | 00 | 0 | 02064 | 1123 | SLW | STRMA | STORE LEFT HALF IN OCTAL | 1.5M5990 | |
| 02012 | 0074 | 00 | 4 | 11021 | 1124 | TSX | OCTALP,4 | CONVERT TO OCTAL | | |
| 02013 | 0602 | 00 | 0 | 02065 | 1125 | SLW | STRMB | RIGHT HALF IN OCTAL | 1.5M6040 | |
| 02014 | 0560 | 00 | 0 | 02035 | 1126 | LDQ | STRX | PICK UP LINK IR | 1.5M6050 | |
| 02015 | -0773 | 00 | 0 | 00025 | 1127 | RQL | 21 | SHIFT TO LEFT OF MQ | 1.5M6060 | |
| 02016 | 0074 | 00 | 4 | 11021 | 1128 | TSX | OCTALP,4 | CONVERT TO OCTAL | | |
| 02017 | 0771 | 00 | 0 | 00006 | 1129 | ARS | 6 | MAKE A HOLE | | |
| 02020 | -0501 | 00 | 0 | 00452 | 1130 | ORA | OBLANK | MAKE LEADING ZERO A BLANK | 1.5M6120 | |
| 02021 | 0602 | 00 | 0 | 02070 | 1131 | SLW | STRMC | PUT IN MESSAGE | 1.5M6140 | |
| 02022 | 0074 | 00 | 4 | 01222 | 1132 | TSX | OUTPUT,4 | | 1.5M6150 | |
| 02023 | 0 | 00000 | 0 | 00364 | 1133 | | BCDOUT | OUTPUT IN BCD | 1.5M6160 | |
| 02024 | 0 | 00011 | 0 | 02060 | 1134 | | STRMD,,9 | | | |
| 02025 | -0500 | 00 | 0 | 02046 | 1135 | CAL | STRA | PICK UP AC | 1.5M5610 | |
| 02026 | -0734 | 00 | 4 | 00000 | 1136 | PDX | 0,4 | | 1.5M5620 | |
| 02027 | -0320 | 00 | 0 | 00466 | 1137 | ANA | PTAMSK | MASK OUT ONLY DECREMENT | | |
| 02030 | -0100 | 00 | 0 | 02035 | 1138 | TNZ | STRF | GO IF ANY THING LEFT | | |
| 02031 | -3 | 00000 | 4 | 02035 | 1139 | STRTOP | TXL | -TFS-1 IF NOT IN LIST STRUCTURE | 1.5M5660 | |
| 02032 | 3 | 00000 | 4 | 02035 | 1140 | STRBTM | TXH | -BRK GO TO EXIT IF NOT IN FREE STORAG | | |
| 02033 | -0754 | 00 | 4 | 00000 | 1141 | PXD | 0,4 | OTHERWISE | 1.5M5680 | |
| 02034 | 0074 | 00 | 4 | 04604 | 1142 | TSX | \$PRINT,4 | PRINT AS LISP LIST | 1.5M5690 | |
| 02035 | | | | | 1143 | STRF | BSS | 0 | | |
| 02035 | 0774 | 00 | 4 | 00000 | 1144 | STRX | AXT | ** , 4 | DITTO LINK IR | 1.5M5740 |
| 02036 | 0600 | 00 | 0 | 02051 | 1145 | STZ | STRT | | INDICATE ROUTINE IS INACTIVE | 1.5M5750 |
| 02037 | 0522 | 00 | 0 | 01403 | 1146 | STREX | XEC | \$SWT6 | SHOULD WE GO BACK TO OVERLORD | |
| 02040 | 0020 | 00 | 0 | 02042 | 1147 | TRA | **+2 | | | |
| 02041 | 0020 | 00 | 0 | 10230 | 1148 | TRA | OVRLRD | FIND NEXT OVERLORD DIRECTION CARD | 1.5M5770 | |
| 02042 | -0754 | 00 | 0 | 00000 | 1149 | PXD | 0,0 | | | |
| 02043 | -0634 | 00 | 4 | 01562 | 1150 | SXD | \$ERROR,4 | | | |
| 02044 | 0074 | 00 | 4 | 01563 | 1151 | TSX | \$ERROR+1,4 | | | |
| 02045 | 542660600554 | | | | 1152 | BCI | 1,*F 5* | STR TRAP ERROR | | |
| | | | | | 1153 | * | | | | 1.5M5920 |
| | | | | | 1154 | * | | | | 1.5M6190 |
| 02046 | 0 | 00000 | 0 | 00000 | 1155 | STRA | | AC STROAGE | | 1.5M6200 |
| 02047 | 0 | 00000 | 0 | 00000 | 1156 | STRQ | | MQ | | 1.5M6220 |
| 02050 | -3 | 00000 | 0 | 00000 | 1157 | STRO | TXL | ** , ** | MASK FOR PREFIX | 1.5M6240 |
| 02051 | 0 | 00000 | 0 | 00000 | 1158 | STRT | | CELL INDICATES ACTIVE IF NON-ZERO | | 1.5M6250 |
| 02052 | 0 | 00000 | 0 | 00000 | 1159 | STRXT | | STORAGE FOR CONTENTS OF ZERO | | 1.5M6260 |
| 02053 | 006263516063 | | | | 1160 | STRN | BCI | 2,OSTR TRAP AT | | 1.5M6270 |
| 02054 | 512147602163 | | | | | | | | | |
| 02055 | 0 | 00000 | 0 | 00000 | 1161 | STRM | PZE | TRAP LOCATION IN OCTAL | | 1.5M6280 |
| 02056 | 604623632143 | | | | 1162 | BCI | 2, OCTAL. | | | 1.5M6290 |

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|-------|------------------|------|--------|---|-------------|-----------|----------------|------------|----------|------|--------|-------------|-----------|-------|
| 02057 | 336060606060 | | | | | | | | | | | | | |
| 02060 | 004623632143 | 1163 | STRMD | BCI | 4,000 | AL | CONTENTS OF AC | | 1.5M6300 | | | | | |
| 02061 | 602346456325 | | | | | | | | | | | | | |
| 02062 | 456362604626 | | | | | | | | | | | | | |
| 02063 | 602123606060 | | | | | | | | | | | | | |
| 02064 | 0 00000 0 00000 | 1164 | STRMA | | | | | | 1.5M6310 | | | | | |
| 02065 | 0 00000 0 00000 | 1165 | STRMB | | | | | | 1.5M6320 | | | | | |
| 02066 | 602145246031 | 1166 | | BCI | 2, | AND | INDEX 4 | | 1.5M6330 | | | | | |
| 02067 | 452425676004 | | | | | | | | | | | | | |
| 02070 | 0 00000 0 00000 | 1167 | STRMC | | | | | | 1.5M6340 | | | | | |
| | | 1168 | * | | | | | | 1.5M6350 | | | | | |
| | | 1169 | * | THIS ROUTINE USES \$PRINT,OUTPUT,BCDOUT AND OBLANK | | | | | 1.5M6360 | | | | | |
| | | 1170 | * | | | | | | 1.5M6370 | | | | | |
| | | 1171 | * | | | | | | 1.5M6380 | | | | | |
| | | 1172 | | | | | | | LC099800 | | | | | |
| | | 1173 | | ERROR1 USED BY APPLY HAS ONE ARGUMENT AND PRINTS IT USING | | | | | LC099900 | | | | | |
| | | 1174 | | PRINT | | | | | LC100000 | | | | | |
| | | 1175 | | | | | | | LC100100 | | | | | |
| 02071 | -0634 00 4 01562 | 1176 | ERROR1 | SXD | \$ERROR,4 | | | | LC100200 | | | | | |
| 02072 | 0074 00 4 01563 | 1177 | | TSX | \$ERROR+1,4 | | | | LC100300 | | | | | |
| 02073 | 542160600154 | 1178 | | BCI | 1,*A 1* | | | | | | | | | |
| | | 1179 | * | APPLIED FUNCTION CALLED ERROR | | | | | | | | | | |
| | | 1180 | * | SETUP | | TAKES | SIZE | PARAMETERS | AND | SETS | UP | THE | DEPENDENT | CELLS |
| | | 1181 | * | MAINLY IN THE RECLAIMER (GARBAGGE COLLECTOR) AND STRPNT | | | | | | | | | | |
| | | 1182 | * | | | | | | | | | | | |
| | | 1183 | | HEAD | | E | | | | | | | | |
| | | 1184 | * | | | | | | | | | | | |
| | | 1185 | * | RESETP | | ALTERNATE | ENTRANCE | TO | SETUP | TO | CHANGE | COMPOSITION | OF | |
| | | 1186 | * | FREE STORAGE SLIGHTLY. | | | | | | | | | | |
| | | 1187 | * | | | | | | | | | | | |
| 02074 | -0625 00 0 02256 | 1188 | RESETP | STL | RST | | | | | | | | | |
| 02075 | 0634 00 4 02252 | 1189 | | SXA | SUPX,4 | | | | | | | | | |
| 02076 | 0020 00 0 02147 | 1190 | | TRA | RSU | | | | | | | | | |
| | | 1191 | * | CHANGE GARBAGGE COLLECTOR PARAMETERS | | | | | | | | | | |
| 02077 | 0634 00 4 02252 | 1192 | SETUP | SXA | SUPX,4 | | | | | | | | | |
| 02100 | 0500 00 0 02303 | 1193 | | CLA | \$TPG | | | | | | | | | |
| 02101 | 0601 00 0 02304 | 1194 | | STU | \$ORG | | | | | | | | | |
| 02102 | 0400 00 0 02305 | 1195 | | ADD | LBINPG | | | | | | | | | |
| 02103 | 0734 00 4 00000 | 1196 | | PAX | 0,4 | | | | | | | | | |
| 02104 | 1 77777 4 02105 | 1197 | | TXI | **1,4,-1 | | | | | | | | | |
| 02105 | -0634 00 4 16526 | 1198 | | SXD | C\$LBPTP,4 | | | | | | | | | |
| 02106 | 0737 00 4 00000 | 1199 | | PAC | 0,4 | | | | | | | | | |
| 02107 | -0634 00 4 04016 | 1200 | | SXD | BLKETP,4 | | | | | | | | | |
| 02110 | 0400 00 0 00371 | 1201 | | ADD | \$Q1 | | | | | | | | | |
| 02111 | 0737 00 4 00000 | 1202 | | PAC | 0,4 | | | | | | | | | |
| 02112 | -0634 00 4 02317 | 1203 | | SXD | \$CPPI,4 | | | | | | | | | |
| 02113 | -0634 00 4 02413 | 1204 | | SXD | \$CSSI,4 | | | | | | | | | |
| 02114 | -0634 00 4 11670 | 1205 | | SXD | NUBPDL,4 | | | | | | | | | |
| 02115 | 0400 00 0 02306 | 1206 | | ADD | LPBPDL | | | | | | | | | |
| 02116 | 0621 00 0 02761 | 1207 | | STA | ZPDL | | | | | | | | | |
| 02117 | 0402 00 0 00407 | 1208 | | SUB | \$Q20 | | | | | | | | | |
| 02120 | 0737 00 4 00000 | 1209 | | PAC | 0,4 | | | | | | | | | |
| 02121 | -0634 00 4 02414 | 1210 | | SXD | ENDPDL,4 | | | | | | | | | |
| 02122 | 0500 00 0 02274 | 1211 | | CLA | \$TFS | | | | | | | | | |

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| 02123 | 0402 | 00 | 0 | 02310 | 1212 | SUB | LFREES | |
| 02124 | 0621 | 00 | 0 | 02277 | 1213 | STA | \$TBT | |
| 02125 | 0400 | 00 | 0 | 00371 | 1214 | ADD | \$Q1 | |
| 02126 | 0621 | 00 | 0 | 02276 | 1215 | STA | \$BFS | |
| 02127 | 0500 | 00 | 0 | 02307 | 1216 | CLA | LFULWS | |
| 02130 | 0771 | 00 | 0 | 00005 | 1217 | ARS | 5 | |
| 02131 | 0400 | 00 | 0 | 00371 | 1218 | ADD | \$Q1 | |
| 02132 | 0601 | 00 | 0 | 02311 | 1219 | STO | \$LBT | |
| 02133 | 0500 | 00 | 0 | 02276 | 1220 | CLA | \$BFS | |
| 02134 | 0402 | 00 | 0 | 02311 | 1221 | SUB | \$LBT | |
| 02135 | 0601 | 00 | 0 | 02300 | 1222 | STO | \$BBT | |
| 02136 | 0402 | 00 | 0 | 00371 | 1223 | SUB | \$Q1 | |
| 02137 | 0601 | 00 | 0 | 02301 | 1224 | STO | \$TFW | |
| 02140 | 0500 | 00 | 0 | 02276 | 1225 | CLA | \$BFS | |
| 02141 | 0402 | 00 | 0 | 02307 | 1226 | SUB | LFULWS | |
| 02142 | 0601 | 00 | 0 | 02302 | 1227 | STO | \$BFW | |
| 02143 | 0402 | 00 | 0 | 02306 | 1228 | SUB | LPBPD | |
| 02144 | 0402 | 00 | 0 | 02305 | 1229 | SUB | LBINPG | |
| 02145 | 0402 | 00 | 0 | 02303 | 1230 | SUB | \$TPG | |
| 02146 | -0120 | 00 | 0 | 02257 | 1231 | TMI | SETERR | OVER LAPPING STORAGE ERROR |
| | | | | | 1232 * | | STRPNT SETUP | |
| 02147 | 0535 | 00 | 4 | 02274 | 1233 | RSU | \$TFS,4 | |
| 02150 | 1 77777 | 4 | 02151 | 1234 | TXI | **1,4,-1 | | |
| 02151 | -0634 | 00 | 4 | 02031 | 1235 | SXD | STRTOP,4 | |
| 02152 | 0535 | 00 | 4 | 02276 | 1236 | LAC | \$BFS,4 | |
| 02153 | -0634 | 00 | 4 | 02032 | 1237 | SXD | STRBTM,4 | |
| | | | | | 1238 * | | RECLAIMER SETUP | |
| 02154 | 0534 | 00 | 4 | 02311 | 1239 | LXA | \$LBT,4 | |
| 02155 | 0634 | 00 | 4 | 02532 | 1240 | SXA | A,4 | |
| 02156 | 0534 | 00 | 4 | 02276 | 1241 | LXA | \$BFS,4 | |
| 02157 | 0634 | 00 | 4 | 02533 | 1242 | SXA | B,4 | |
| 02160 | 0534 | 00 | 4 | 02301 | 1243 | LXA | \$TFW,4 | |
| 02161 | -0634 | 00 | 4 | 02645 | 1244 | SXD | C,4 | |
| 02162 | -0634 | 00 | 4 | 02734 | 1245 | SXD | I,4 | |
| 02163 | -0634 | 00 | 4 | 03116 | 1246 | SXD | MONE,4 | |
| 02164 | 0534 | 00 | 4 | 02277 | 1247 | LXA | \$TBT,4 | |
| 02165 | 0634 | 00 | 4 | 02662 | 1248 | SXA | MBTTA,4 | |
| 02166 | 0634 | 00 | 4 | 02667 | 1249 | SXA | D,4 | |
| 02167 | 0634 | 00 | 4 | 02677 | 1250 | SXA | E,4 | |
| 02170 | 0634 | 00 | 4 | 03126 | 1251 | SXA | MLTBT,4 | |
| 02171 | 0534 | 00 | 4 | 02274 | 1252 | LXA | \$TFS,4 | |
| 02172 | 0634 | 00 | 4 | 02713 | 1253 | SXA | F,4 | |
| 02173 | 0534 | 00 | 4 | 02276 | 1254 | LXA | \$BFS,4 | |
| 02174 | 0634 | 00 | 4 | 02746 | 1255 | SXA | SFWLD,4 | |
| 02175 | 0534 | 00 | 4 | 02302 | 1256 | LXA | \$BFW,4 | |
| 02176 | 0634 | 00 | 4 | 02733 | 1257 | SXA | H,4 | |
| 02177 | 0535 | 00 | 4 | 02302 | 1258 | LAC | \$BFW,4 | |
| 02200 | -0634 | 00 | 4 | 03066 | 1259 | SXD | MRKLST,4 | |
| 02201 | -0634 | 00 | 4 | 03114 | 1260 | SXD | MLBCW,4 | |
| 02202 | 0535 | 00 | 4 | 02274 | 1261 | LAC | \$TFS,4 | |
| 02203 | 1 77777 | 4 | 02204 | 1262 | TXI | **1,4,-1 | | |
| 02204 | -0634 | 00 | 4 | 03067 | 1263 | SXD | MRKLST+1,4 | |
| 02205 | -0634 | 00 | 4 | 03111 | 1264 | SXD | MLIST,4 | |
| 02206 | 0535 | 00 | 4 | 02276 | 1265 | LAC | \$BFS,4 | |

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| 02207 | -0634 | 00 | 4 | 02720 | 1266 | SXD | G,4 | |
| 02210 | -0634 | 00 | 4 | 03112 | 1267 | SXD | MLBFA,4 | |
| 02211 | -0535 | 00 | 4 | 02414 | 1268 | LDC | ENDPDL,4 | |
| 02212 | 1 | 00001 | 4 | 02213 | 1269 | TXI | **1,4,1 | |
| 02213 | 0634 | 00 | 4 | 03100 | 1270 | SXA | MLEPD,4 | |
| 02214 | 0634 | 00 | 4 | 03107 | 1271 | SXA | MLEPF,4 | |
| 02215 | 0535 | 00 | 4 | 02300 | 1272 | LAC | \$BBT,4 | |
| 02216 | -0634 | 00 | 4 | 03113 | 1273 | SXD | MLBBJ,4 | |
| 02217 | 0520 | 00 | 0 | 02256 | 1274 | ZET | RST | SKIP IF INITAL SETUP |
| 02220 | 0020 | 00 | 0 | 02252 | 1275 | TRA | SUPX | GO TO EXIT OTHERWISE |
| 02221 | 0535 | 00 | 4 | 02276 | 1276 | LAC | \$BFS,4 | BOTTOM OF FREE STORAGE |
| 02222 | 1 | 77777 | 4 | 02223 | 1277 | TXI | **1,4,-1 | SUBTRACT 1 |
| 02223 | -0634 | 00 | 4 | 02232 | 1278 | SXD | SUPFS,4 | SET DECREMENT |
| 02224 | 0535 | 00 | 4 | 02275 | 1279 | LAC | \$MFS,4 | LOWERP |
| 02225 | -0754 | 00 | 4 | 00000 | 1280 | PXD | 0,4 | POINTER TO LWERP IN DECREMENT |
| 02226 | 0601 | 00 | 0 | 03751 | 1281 | STO | \$FREE | SET UP FREE |
| 02227 | 0400 | 00 | 0 | 00442 | 1282 | ADD | \$QD1 | |
| 02230 | -0601 | 00 | 4 | 00000 | 1283 | STO | 0,4 | START MAKING FREE STORAGE |
| 02231 | 1 | 00001 | 4 | 02232 | 1284 | TXI | **1,4,1 | |
| 02232 | -3 | 00000 | 4 | 02227 | 1285 | SUPFS TXI | *-3,4,** | -BFS |
| 02233 | 0600 | 00 | 4 | 00000 | 1286 | STZ | 0,4 | |
| 02234 | 0535 | 00 | 4 | 02302 | 1287 | LAC | \$BFW,4 | BOTTOM FULL WORD SPACR |
| 02235 | -0754 | 00 | 4 | 00000 | 1288 | PXD | 0,4 | |
| 02236 | 0601 | 00 | 0 | 03727 | 1289 | STO | FWORDL | SET UP FULL WORD LIST |
| 02237 | -0737 | 00 | 4 | 00000 | 1290 | PDC | 0,4 | GET IT RUE IN INDEX |
| 02240 | -0634 | 00 | 4 | 02243 | 1291 | SXD | SUPFV,4 | USE TO CALCULATE LENGTH OF FULL WORD S |
| 02241 | 0534 | 00 | 4 | 02300 | 1292 | LXA | \$BBT,4 | TFW + 1 |
| 02242 | 0634 | 00 | 4 | 02245 | 1293 | SXA | SUPFW,4 | SET END + 1 ADDRESS |
| 02243 | 2 | 00000 | 4 | 02244 | 1294 | SUPFV TIX | **1,4,** | LENGHT OF FULL WORD |
| 02244 | 0402 | 00 | 0 | 00442 | 1295 | SUB | \$QD1 | |
| 02245 | 0601 | 00 | 4 | 00000 | 1296 | SUPFW STO | ** ,4 | MAKE LIST |
| 02246 | 2 | 00001 | 4 | 02244 | 1297 | TIX | *-2,4,1 | LOOP |
| 02247 | 0600 | 60 | 0 | 02245 | 1298 | STZ* | SUPFW | MAKE LAST ENTRY ZERO |
| 02250 | 0500 | 00 | 0 | 66430 | 1299 | CLA | \$OBLB | BEGINNING OF UNSORTED OBJECT LIST |
| 02251 | 0074 | 00 | 4 | 02420 | 1300 | TSX | CNSFWL,4 | |
| 02252 | 0774 | 00 | 4 | 00000 | 1301 | SUPX AXT | ** ,4 | |
| 02253 | 0600 | 00 | 0 | 02256 | 1302 | STZ | RST | ZERD RESETUP SWITCH |
| 02254 | -0754 | 00 | 0 | 00000 | 1303 | PXD | 0,0 | |
| 02255 | 0020 | 00 | 4 | 00001 | 1304 | TRA | 1,4 | |
| 02256 | 0 | 00000 | 0 | 00000 | 1305 | RST | | RESETUP TEST CELL |
| 02257 | 0074 | 00 | 4 | 01222 | 1306 | SETERR TSX | OUTPUT,4 | |
| 02260 | -0 | 00000 | 0 | 00364 | 1307 | MZE | BCDOUT | PRINT ON-LINE |
| 02261 | 0 | 00011 | 0 | 02263 | 1308 | | NOSET,,9 | |
| 02262 | 0020 | 00 | 0 | 02252 | 1309 | TRA | SUPX | EXIT |
| 02263 | 004665255143 | | | 1310 | NOSET BCI | | 9,0OVERLAPPING PARAMETERS -SETUP- ERROR NUMBER *0 7* | |
| 02264 | 214747314527 | | | | | | | |
| 02265 | 604721512144 | | | | | | | |
| 02266 | 256325516260 | | | | | | | |
| 02267 | 406225636447 | | | | | | | |
| 02270 | 406025515146 | | | | | | | |
| 02271 | 516045644422 | | | | | | | |
| 02272 | 255160544660 | | | | | | | |
| 02273 | 600754006060 | | | | | | | |

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| | | | | | 1312 | HEAD | 0 | | |
| | | | | | 1313 | * | | | |
| | | | | | 1314 | * | | STORAGE MAP CELLS FOR LISP | |
| | | | | | 1315 | * | | | |
| | 02274 | 0 | 00000 | 0 | 71651 | 1316 | TFS | UPERML-1 | UPPER LIMIT OF FREE STORAGE |
| | 02275 | 0 | 00000 | 0 | 66230 | 1317 | MFS | LOWERP | LOW LIMIT OF PERM. LIST STRUCTURE |
| | 02276 | 0 | 00000 | 0 | 00000 | 1318 | BFS | | BOTTOM OF FREE STORAGE |
| | 02277 | 0 | 00000 | 0 | 00000 | 1319 | TBT | | TOP OF BIT TABLE |
| | 02300 | 0 | 00000 | 0 | 00000 | 1320 | BBT | | BOTTOM OF BIT TABLR |
| | 02301 | 0 | 00000 | 0 | 00000 | 1321 | TFW | | TOP OF FULL WORD SPACE PROPER |
| | 02302 | 0 | 00000 | 0 | 00000 | 1322 | BFW | | BOTTOM OF FULL WORD SPACE |
| | 02303 | 0 | 00000 | 0 | 17462 | 1323 | TPG | TOPROG | |
| | 02304 | 0 | 00000 | 0 | 00000 | 1324 | ORG | | ORIGIN OF BINARY PROGRAM IN DECREMENT |
| | 02305 | 0 | 00000 | 0 | 00000 | 1325 | LBINPG | | LENGTH OF BINATY PROGRAM |
| | 02306 | 0 | 00000 | 0 | 00000 | 1326 | LPBPD | | LENGTH OF PUBLIC PUSH DOWN LIST |
| | 02307 | 0 | 00000 | 0 | 00000 | 1327 | LFULWS | | LENGTH OF FULL WORD SPACE + BIT TABLE |
| | 02310 | 0 | 00000 | 0 | 00000 | 1328 | LFREES | | LENGTH OF FREE STORAGE |
| | 02311 | 0 | 00000 | 0 | 00000 | 1329 | LBT | | LENGTH OF FULL WORD BIT TABLE |
| | | | | | 1330 | * | SAVE AND UNSAVE | | THE CLOSED SUBROUTINES THAT CONTROL |
| | | | | | 1331 | * | | | THE PUBLIC PUSH DOWN LIST. THE CALLING SEQUENCES ARE ... |
| | | | | | 1332 | * | | | |
| | | | | | 1333 | * | TSX | \$SAVE,4 | |
| | | | | | 1334 | * | TXL | \$ENDN,,END OF BLOCK TO BE SAVED + 2 | |
| | | | | | 1335 | * | RETURN | | |
| | | | | | 1336 | * | | | WHERE N IN \$ENDN IS THE NUMBER OF ITEMS TO BE SAVED |
| | | | | | 1337 | * | | | |
| | | | | | 1338 | * | TSX | UNSAVE,4 | |
| | | | | | 1339 | * | RETURN | | |
| | | | | | 1340 | * | | | THE SAVED ITEMS MUST BE IN A CONTIGOUS BLOCK WITH THE |
| | | | | | 1341 | * | | | THE FIRST ITEM PZE ATOMIC NAME OF SUBR,,IR 4 |
| | | | | | 1342 | * | | | THE SAVE PARAMETER WORD IS ADDED AS THE LAST ITEM ON THE |
| | | | | | 1343 | * | | | BLOCK TO BE SAVED BUT IS NOT UNSAVED. |
| | | | | | 1344 | * | | | |
| | 02312 | 0634 | 00 | 2 | 02405 | 1345 | SAVE SXA | SAVY,2 | SAVE INDEX 2 AND 1 |
| | 02313 | 0634 | 00 | 1 | 02404 | 1346 | SXA | SAVZ,1 | |
| | 02314 | 0601 | 00 | 0 | 02407 | 1347 | STO | SAVT | SAVE THE AC |
| | 02315 | 0500 | 60 | 4 | 00001 | 1348 | CLA* | 1,4 | AMMOUNT TO SUBTRACT FROM CPPI IN AC |
| | 02316 | 0734 | 00 | 1 | 00000 | 1349 | PAX | 0,1 | PUT - NUMBER OF ITEMS TO BE SAVED + 1 |
| | 02317 | 1 | 00000 | 1 | 02320 | 1350 | CPPI TXI | **1,1,** | IN IR 1 AND INCREMENT BE PUSH DOWN CNT |
| | 02320 | -3 | 00000 | 1 | 02415 | 1351 | TXL | NOPDL,1,** | GO TO NOPDL IF NOT ENOUGH PDL |
| | 02321 | -0634 | 00 | 1 | 02317 | 1352 | SXD | \$CPPI,1 | UP DATE PDL COUNTER LOCATION |
| | 02322 | 0500 | 00 | 4 | 00001 | 1353 | CLA | 1,4 | PARAMETER WORD |
| | 02323 | 0601 | 00 | 1 | 77777 | 1354 | STO | -1,1 | PUT ON PUSH DOWN LIST |
| | 02324 | -0737 | 00 | 2 | 00000 | 1355 | PDC | 0,2 | LOCATION OF BLOCK TO BE SAVED + 2 |
| | 02325 | 0522 | 00 | 4 | 00001 | 1356 | XEC | 1,4 | JUMP INTO SAVE TABLE |
| | | | | | 1357 | * | | | |
| | 02326 | 0634 | 00 | 2 | 02405 | 1358 | UNSAVE SXA | SAVY,2 | SAVE INDEX 2 AND 1 |
| | 02327 | 0634 | 00 | 1 | 02404 | 1359 | SXA | SAVZ,1 | |
| | 02330 | 0601 | 00 | 0 | 02407 | 1360 | STO | SAVT | SAVE THE AC |
| | 02331 | -0534 | 00 | 2 | 02317 | 1361 | LXD | \$CPPI,2 | CURRENT PUSH DOWN COUNTER |
| | 02332 | 0500 | 00 | 2 | 77777 | 1362 | CLA | -1,2 | LAST SAVE PARAMETER WORD |
| | 02333 | 0621 | 00 | 0 | 02336 | 1363 | STA | SAVJ | SET FETCH AND TXI INSTRUCTIONS |
| | 02334 | 0621 | 00 | 0 | 02342 | 1364 | STA | SAVK | |
| | 02335 | -0634 | 00 | 2 | 02337 | 1365 | SXD | SAVI,2 | SET UP TO RESTORE PDL COUNTER |

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| | | | | 1420 | | RESETS PUBLIC PUSH DOWN LIST TO ZERO | | LC123300 |
| | | | | 1421 | | | | LC123400 |
| | 02410 | 0500 | 00 0 | 02413 | 1422 | TERPDL CLA \$CSSI | | LC123500 |
| | 02411 | 0622 | 00 0 | 02317 | 1423 | STD CPPI | | LC123600 |
| | 02412 | 0020 | 00 4 | 00001 | 1424 | TRA 1,4 | | LC123700 |
| | 02413 | 0 | 00000 | 0 | 00000 | 1425 | CSSI | LC123900 |
| | 02414 | -3 | 00000 | 4 | 02415 | 1426 | ENOPDL TXL **1,4,** | OUT OF PDL TEST INSTRUCTION (IS XEC) |
| | 02415 | -0634 | 00 4 | 01562 | 1427 | NOPDL SXD \$ERROR,4 | | LC124100 |
| | 02416 | 0074 | 00 4 | 01563 | 1428 | TSX \$ERROR+1,4 | | LC124200 |
| | 02417 | 542760600254 | | | 1429 | BCI 1,*G 2* | | OUT OF PUBLIC PUSH DOWN LIST |
| | | | | 1430 | | | | LC124600 |
| | | | | 1431 | | | | LC124700 |
| | | | | 1432 * | | | | 1.5M4790 |
| | | | | 1433 | | HEAD E | | 1.5P7000 |
| | | | | 1434 | | | | LC118600 |
| | | | | 1435 * | | | | 1.5M8400 |
| | | | | 1436 * | CNSFWL | USED BY SETUP TO MOVE ALL FULL WORDS ON PERMENENT OBJECTS | | 1.5M8410 |
| | | | | 1437 * | | TO THE FULL WORD SPACE. | | 1.5M8420 |
| | | | | 1438 * | | ALSO BUCKET SORTS THE PERMENENT OBJECTS. | | 1.5M8430 |
| | | | | 1439 * | | | | 1.5M8440 |
| | 02420 | 0634 | 00 4 | 02447 | 1440 | CNSFWL SXA CNFWX,4 | | SAVE INDEX REGISTERS |
| | 02421 | 0634 | 00 2 | 02450 | 1441 | SXA CNFWY,2 | | 1.5M8450 |
| | 02422 | -0734 | 00 4 | 00000 | 1442 | PDX 0,4 | | 1.5M8460 |
| | 02423 | 0500 | 00 4 | 00000 | 1443 | CNMLP CLA 0,4 | | POINTER TO OBJECT LIST |
| | 02424 | 0622 | 00 0 | 03310 | 1444 | STD CNXT | | NEXT WORD ON LIST |
| | 02425 | 0734 | 00 2 | 00000 | 1445 | PAX 0,2 | | POINTET TO AN ATOM |
| | 02426 | -0634 | 00 2 | 03313 | 1446 | SXD CNAT,2 | | POINTER TO NEXT WORD |
| | 02427 | 0500 | 00 2 | 00000 | 1447 | CLA 0,2 | | SAVE THE POINTER TO THE ATOM |
| | 02430 | -0320 | 00 0 | 00470 | 1448 | ANA TAGMSK | | TEST FOR NUMBER |
| | 02431 | -0100 | 00 0 | 02452 | 1449 | TNZ CNNM | | MAKE A NUMVER |
| | 02432 | 0500 | 00 2 | 00000 | 1450 | CNSLP CLA 0,2 | | NEXT WORD ON ATOM |
| | 02433 | 0734 | 00 2 | 00000 | 1451 | PAX 0,2 | | CAR OF ATOM, SEARCH FOR FULL WORD |
| | 02434 | 3 | 06733 | 2 | 02436 | 1452 | TXH **2,2,\$SUBR | SUCH AS \$SUBR |
| | 02435 | 3 | 06732 | 2 | 02461 | 1453 | TXH CMKO,2,\$SUBR-1 | |
| | 02436 | 3 | 10103 | 2 | 02440 | 1454 | TXH **2,2,\$FSUBR | |
| | 02437 | 3 | 10102 | 2 | 02461 | 1455 | TXH CMKO,2,\$FSUBR-1 | |
| | 02440 | 3 | 07335 | 2 | 02442 | 1456 | TXH **2,2,\$PNAME | |
| | 02441 | 3 | 07334 | 2 | 02476 | 1457 | TXH CMPNT,2,\$PNAME-1 | |
| | 02442 | -0734 | 00 2 | 00000 | 1458 | CNRS PDX 0,2 | | IS NONE OF ABOVE SO CDR TO IR 2 |
| | 02443 | 3 | 00000 | 2 | 02432 | 1459 | CNRT TXH CNSLP,2,0 | |
| | 02444 | -0534 | 00 4 | 03310 | 1460 | CNNR LXD CNXT,4 | | GO BACK IF NOT END OF PROPERTY LIST |
| | 02445 | 3 | 00000 | 4 | 02423 | 1461 | TXH CNMLP,4,0 | |
| | 02446 | -0754 | 00 0 | 00000 | 1462 | PXD 0,0 | | GO BACK IF NOT END |
| | 02447 | 0774 | 00 4 | 00000 | 1463 | CNFWX AXT **,4 | | CLAER AC |
| | 02450 | 0774 | 00 2 | 00000 | 1464 | CNFWY AXT **,2 | | RESTORE INDEX REGISTERS |
| | 02451 | 0020 | 00 4 | 00001 | 1465 | TRA 1,4 | | EXIT |
| | | | | 1466 * | | | | 1.5M8700 |
| | 02452 | 0500 | 00 2 | 00000 | 1467 | CNNM CLA 0,2 | | 1.5M8710 |
| | 02453 | -0120 | 00 0 | 02444 | 1468 | TMI CNNR | | 1.5M8720 |
| | 02454 | -0734 | 00 4 | 00000 | 1469 | PDX 0,4 | | 1.5M8730 |
| | 02455 | 0500 | 00 4 | 00000 | 1470 | CLA 0,4 | | 1.5M8740 |
| | 02456 | 0074 | 00 4 | 03710 | 1471 | TSX \$CONSW,4 | | 1.5M8750 |
| | 02457 | 0622 | 00 2 | 00000 | 1472 | STD 0,2 | | 1.5M8760 |
| | 02460 | 0020 | 00 0 | 02444 | 1473 | TRA CNNR | | MAKE UP THE NEW NUMBER |

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|-------|----------|---------|--------|------|------|-------|--|-------------------------------------|--|----------|
| 02537 | -0534 | 00 4 | 02317 | 1528 | | LXD | \$CPPI,4 | CURRENT PUSH DOWN LIST LOC. | 1.5M9390 | |
| 02540 | -2 000C0 | 4 03103 | 1529 | | RCIA | TNX | MLPDE,4,** | AMOUNT OF PUSH DOWN LIST AVAILABLE | 1.5M9400 | |
| 02541 | -0634 | 00 4 | 03102 | 1530 | | SXD | MLPDC,4 | SET CELL IN MRKLST | 1.5M9410 | |
| 02542 | 0634 | 00 4 | 02760 | 1531 | | SXA | ZPDLA,4 | LENGTH LEFT BAR FOR ZEROIND PDL | | |
| 02543 | -0774 | 00 2 | 66427 | 1532 | | AXC | OBLIST,2 | POINTER TO OBJECT LICT | | |
| 02544 | 0441 | 00 0 | 10340 | 1533 | | LDI | SYSIND | SYSTEM INDICATORS | 1.5M9430 | |
| 02545 | 0520 | 00 0 | 11516 | 1534 | | ZET | EVQRTS | SKIP IF DURING READ IN IN EVALQUOTE | | |
| 02546 | 0056 | 00 | CC00C4 | 1535 | | RNT | DEBUGI | SKIP MARKING OBLIST IF IN A DEBUG | 1.5M9440 | |
| 02547 | 0074 | 00 4 | 03066 | 1536 | | TSX | MRKLST,4 | MARK THE LIST | 1.5M9450 | |
| | | | 1537 | * | | | | | 1.5M9500 | |
| | | | 1538 | * | | | TEMLIS MARKER | | 1.5M9510 | |
| | | | 1539 | * | | | TEMLIS IS A LIST IN FREE STORAGE AND FULL WORD SPACE | | 1.5M9520 | |
| | | | 1540 | * | | | OF THE FORM (CONS (CONSW BEG,,END) TEMLIS) AND INDICATES | | 1.5M9530 | |
| | | | 1541 | * | | | PLACES WHERE LIST STRUCTURE MAY BE DURING A GARBAGE | | 1.5M9540 | |
| | | | 1542 | * | | | COLLECTION. USED PRINCIPALLY BY THE COMPILER | | 1.5M9550 | |
| | | | 1543 | * | | | | | 1.5M9560 | |
| 02550 | 0600 | 00 0 | 03273 | 1544 | | STZ | TMLM | SET EXIT SWITCH | 1.5M9590 | |
| 02551 | -0534 | 00 4 | 03304 | 1545 | | LXD | TEMLIS,4 | | 1.5M9600 | |
| 02552 | 0500 | 00 4 | 00000 | 1546 | | TMLJ | CLA | 0,4 | NEXT WORD ON TEMLIS | 1.5M9610 |
| 02553 | 0622 | 00 0 | 03273 | 1547 | | STD | TMLM | | SAVE POINTER TO NEXT WORD | 1.5M9620 |
| 02554 | 0734 | 00 4 | 00000 | 1548 | | PAX | 0,4 | | POINTER TO FULL WORD | 1.5M9630 |
| 02555 | 0500 | 00 4 | 00000 | 1549 | | CLA | 0,4 | | FULL WORD | 1.5M9640 |
| 02556 | 0734 | 00 4 | 00000 | 1550 | | PAX | 0,4 | | BEGINNING OF ARRAY | 1.5M9650 |
| 02557 | -0634 | 00 4 | 02563 | 1551 | | SXD | TMLC,4 | | | 1.5M9660 |
| 02560 | -0734 | 00 1 | 00000 | 1552 | | PDX | 0,1 | | END OF ARRAY | 1.5M9670 |
| 02561 | 1 00001 | 1 | 02562 | 1553 | | TXI | **1,1,1 | | ADD 1 | 1.5M9680 |
| 02562 | 0634 | 00 1 | 02565 | 1554 | | TMLK | SXA | TMLE,1 | | |
| 02563 | -2 00000 | 1 | 02577 | 1555 | | TMLD | TNX | TMLH,1,** | SUBTRACT BEGINNING , GIVES COUNT IN IR | 1.5M9700 |
| 02564 | 0634 | 00 1 | 03216 | 1556 | | SXA | GCPDLC,1 | | LAST USE IS MARKING PDL, SAVE LENGTH | 1.5M9710 |
| 02565 | 0441 | 00 1 | 00000 | 1557 | | TMLE | LDI | **1 | PICK UP WORD | 1.5M9720 |
| 02566 | 0444 | 00 0 | 03274 | 1558 | | OFT | TMPTM | | SKIP IF NOTAG OR PREFIX | 1.5M9730 |
| 02567 | 0020 | 00 0 | 02576 | 1559 | | TRA | TMLG | | NOT A LIST, DO NOT MARK | 1.5M9740 |
| 02570 | -0046 | 00 0 | 00000 | 1560 | | PIA | | | ITEM TO AC | 1.5M9750 |
| 02571 | 0621 | 00 0 | 02574 | 1561 | | STA | TMLF | | SAVE ADDRESS | 1.5M9760 |
| 02572 | -0734 | 00 2 | 00000 | 1562 | | PDX | 0,2 | | | 1.5M9770 |
| 02573 | 0074 | 00 4 | 03066 | 1563 | | TSX | MRKLST,4 | | MARK THE DECREMENT | 1.5M9780 |
| 02574 | 0774 | 00 2 | 00000 | 1564 | | TMLF | AXT | **2 | ADDRESS OF WORD TO IR | 1.5M9790 |
| 02575 | 0074 | 00 4 | 03066 | 1565 | | TSX | MRKLST,4 | | MARK IT | 1.5M9800 |
| 02576 | 2 00001 | 1 | 02565 | 1566 | | TMLG | TXI | TMLE,1,1 | GET NEXT WORD IN ARRAY | 1.5M9810 |
| 02577 | -0534 | 00 4 | 03273 | 1567 | | TMLH | LXD | TMLM,4 | NEXT TEMLIS ITEM | 1.5M9820 |
| 02600 | 3 00000 | 4 | 02552 | 1568 | | TXH | TMLJ,4,0 | | GO IF NOT DONE | 1.5M9830 |
| 02601 | 0520 | 00 0 | 03273 | 1569 | | ZET | TMLM | | TEST FOR EXIT | 1.5M9840 |
| 02602 | 0020 | 00 0 | 02611 | 1570 | | TRA | MPDLF | | ALL DONE | 1.5M9850 |
| 02603 | -0535 | 00 4 | 02413 | 1571 | | LDC | \$CSSI,4 | | BEGINNING OF PDL | 1.5M9860 |
| 02604 | -0634 | 00 4 | 02563 | 1572 | | SXD | TMLD,4 | | SET UP CELL | 1.5M9870 |
| 02605 | -0535 | 00 1 | 02317 | 1573 | | LDC | \$CPPI,1 | | FIRST FREE CELL ON PDL | 1.5M9880 |
| 02606 | -0625 | 00 0 | 03273 | 1574 | | STL | TMLM | | INDICATE LAST USE OF LOOP | 1.5M9890 |
| 02607 | 0600 | 00 0 | 03216 | 1575 | | STZ | GCPDLC | | PUSH DOWN LENGTH INITIALLY ZERO | |
| 02610 | 0020 | 00 0 | 02562 | 1576 | | TRA | TMLK | | GO MARK PUSH DOWN LIST | 1.5M9900 |
| 02611 | -0534 | 00 4 | 03305 | 1577 | | MPDLF | LXD | ARYLIS,4 | START TO MARK ACTIVE ARRAYS | 1.5M9910 |
| 02612 | -3 00000 | 4 | 02707 | 1578 | | MARYB | TXL | RCB,4,0 | GO IF NO ARRAYS | |
| 02613 | 0500 | 00 4 | 00000 | 1579 | | CLA | 0,4 | | NEXT WORD ON ARYLIS | 1.5M9930 |
| 02614 | 0622 | 00 0 | 03226 | 1580 | | STD | MARYT | | SAVE POINTER TO NEXT WORD | 1.5M9940 |
| 02615 | 0734 | 00 4 | 00000 | 1581 | | PAX | 0,4 | | ARYATOM TO AC | 1.5M9950 |

Form - 1413

MOORE BUSINESS FORMS, INC.

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|-------|-------|-------|---|-------|------|-------|-----|-----------------|------------------------------------|----------|
| 02616 | 0500 | 00 | 4 | 00000 | 1582 | MARYA | CLA | 0,4 | NEXT WORD ON ATOM | 1.5M9960 |
| 02617 | 0734 | 00 | 4 | 00000 | 1583 | | PAX | 0,4 | | 1.5M9970 |
| 02620 | -3 | 10734 | 4 | 02622 | 1584 | | TXL | **2,4,\$ARRAY-1 | SERCH FOR ARRAY SPECIFICATION | 1.5M9980 |
| 02621 | -3 | 10735 | 4 | 02626 | 1585 | | TXL | MRKA,4,\$ARRAY | GO IF FOUND | 1.5N0010 |
| 02622 | -0734 | 00 | 4 | 00000 | 1586 | | PDX | 0,4 | POINTER TO NEXT WORD | 1.5N0020 |
| 02623 | 3 | 00000 | 4 | 02616 | 1587 | | TXH | MARYA,4,0 | GO IF NOT END OF ATOM | 1.5N0030 |
| 02624 | -0534 | 00 | 4 | 03226 | 1588 | MARYC | LXD | MARYT,4 | NEXT WORD ON ARYLIS | 1.5N0040 |
| 02625 | 0020 | CC | C | 02612 | 1589 | | TRA | MARYB | | 1.5N0050 |
| | | | | | 1590 | * | | | | 1.5N0060 |
| 02626 | -0734 | 00 | 4 | 00000 | 1591 | MRKA | PDX | 0,4 | GET ARRAY SPECIFICATIONS | 1.5N0070 |
| 02627 | 0500 | 00 | 4 | 00000 | 1592 | | CLA | 0,4 | | 1.5N0080 |
| 02630 | 0734 | 00 | 4 | 00000 | 1593 | | PAX | 0,4 | | 1.5N0090 |
| 02631 | 0500 | 00 | 4 | 00000 | 1594 | | CLA | 0,4 | | |
| 02632 | 0734 | 00 | 4 | 00000 | 1595 | | PAX | 0,4 | | |
| 02633 | 0500 | 00 | 4 | 00000 | 1596 | | CLA | 0,4 | FIRST SPEC. WORD | 1.5N0100 |
| 02634 | 0734 | 00 | 2 | 00000 | 1597 | | PAX | 0,2 | END OF ARRAY + 1 | 1.5N0110 |
| 02635 | 0621 | 00 | 0 | 02702 | 1598 | | STA | MRKE | END OF ARRAY + 1 | 1.5N0120 |
| 02636 | 0500 | 00 | 4 | 00001 | 1599 | | CLA | 1,4 | | 1.5N0130 |
| 02637 | 0601 | 00 | 0 | 03275 | 1600 | | STO | MRKP | SECOND SPEC. WORD TOTAL L,, LIST L | 1.5N0140 |
| 02640 | 0734 | 00 | 1 | 00000 | 1601 | | PAX | 0,1 | TOTAL LENGTH | 1.5N0150 |
| 02641 | -0634 | 00 | 1 | 02642 | 1602 | | SXD | MAA,1 | UPDATE TNX INSTRUCTION | 1.5N0160 |
| 02642 | -2 | 00000 | 2 | 02624 | 1603 | MAA | TXN | MARYC,2,** | LOCATION OF BEGINNING OF ARRAY | 1.5N0170 |
| 02643 | 0634 | 00 | 2 | 02644 | 1604 | | SXA | MAB,2 | PREPARE TO COMPLEMENT | 1.5N0180 |
| 02644 | -0774 | 00 | 2 | 00000 | 1605 | MAB | AXC | **2 | | 1.5N0190 |
| 02645 | 1 | 00000 | 2 | 02646 | 1606 | C | TXI | **1,2,** | TOP FULL WORD | 1.5N0200 |
| 02646 | 0754 | 00 | 2 | 00000 | 1607 | | PXA | 0,2 | CALCULATE BIT TABLE WORD AND BIT | 1.5N0210 |
| 02647 | -0765 | 00 | 0 | 00005 | 1608 | | LGR | 5 | BIT NUMBER IN TO MQ | 1.5N0220 |
| 02650 | 0734 | 00 | 2 | 00000 | 1609 | | PAX | 0,2 | WORD NUMBER IN IR 2 | 1.5N0230 |
| 02651 | -0754 | 00 | 0 | 00000 | 1610 | | PXD | 0,0 | ZERO AC | 1.5N0240 |
| 02652 | -0763 | 00 | 0 | 00005 | 1611 | | LGL | 5 | BIT NUMBER | 1.5N0250 |
| 02653 | 0734 | 00 | 4 | 00000 | 1612 | | PAX | 0,4 | | 1.5N0260 |
| 02654 | 3 | 00036 | 4 | 02665 | 1613 | | TXH | MBTT,4,30 | GO TO MARK BY 32 | 1.5N0270 |
| 02655 | -0754 | 00 | 0 | 00000 | 1614 | | PXD | 0,0 | ZERO AC | 1.5N0280 |
| 02656 | -0501 | 00 | 4 | 03266 | 1615 | MAC | ORA | BIT,4 | | 1.5N0290 |
| 02657 | -2 | 00001 | 1 | 02662 | 1616 | | TXN | MBTTA,1,1 | DECREMENT COUNT | 1.5N0300 |
| 02660 | 2 | 00001 | 4 | 02656 | 1617 | | TIX | MAC,4,1 | RUN BIT COUNT DOWN | 1.5N0310 |
| 02661 | -0501 | 00 | 0 | 03266 | 1618 | | ORA | BIT | PUT IN ZERO BIT | 1.5N0320 |
| 02662 | -0602 | 00 | 2 | 00000 | 1619 | MBTTA | CRS | **2 | TOP BIT TABLE, SET BITS | 1.5N0330 |
| 02663 | -2 | 00001 | 1 | 02700 | 1620 | | TXN | MRKF,1,1 | GO IF DONE | 1.5N0340 |
| 02664 | 1 | 77777 | 2 | 02665 | 1621 | | TXI | **1,2,-1 | DECREMENT BIT WORD BY ONE | 1.5N0350 |
| 02665 | -0500 | 00 | 0 | 00471 | 1622 | MBTT | CAL | MONS | ALL ONES TO AC | 1.5N0360 |
| 02666 | -2 | 00040 | 1 | 02671 | 1623 | MAE | TXN | MAD,1,32 | DECREMENT COUNT BY 32 | 1.5N0370 |
| 02667 | -0602 | 00 | 2 | 00000 | 1624 | D | ORS | **2 | TOP BIT TABLE, SET ALL BITS | 1.5N0380 |
| 02670 | 1 | 77777 | 2 | 02666 | 1625 | | TXI | MAE,2,-1 | DECREMENT BIT TABLE WORD COUNT | 1.5N0390 |
| 02671 | 0754 | 00 | 1 | 00000 | 1626 | MAD | PXA | 0,1 | PREPARE TO MARK LAST BITS | 1.5N0400 |
| 02672 | 0737 | 00 | 1 | 00000 | 1627 | | PAC | 0,1 | COMPLMENT COUNT | 1.5N0410 |
| 02673 | -0754 | 00 | 0 | 00000 | 1628 | | PXD | 0,0 | ZERO AC | 1.5N0420 |
| 02674 | -0501 | 00 | 1 | 03226 | 1629 | MAF | ORA | MBITF,1 | SET PROPER BIT | 1.5N0430 |
| 02675 | 1 | 00001 | 1 | 02676 | 1630 | | TXI | **1,1,1 | INCREMENT COUNT BY ONE | 1.5N0440 |
| 02676 | 3 | 00000 | 1 | 02674 | 1631 | | TXH | MAF,1,0 | GO UNTIL COUNT REACHES ZERO | 1.5N0450 |
| 02677 | -0602 | 00 | 2 | 00000 | 1632 | E | ORS | **2 | TOP BIT TABLE, SET BITS | 1.5N0460 |
| 02700 | -0534 | 00 | 1 | 03275 | 1633 | MRKF | LXD | MRKP,1 | GET LIST LENGTH IF ANY | 1.5N0470 |
| 02701 | -3 | 00000 | 1 | 02624 | 1634 | | TXL | MARYC,1,0 | EXIT IF A NON-LIST ARRAY | 1.5N0480 |
| 02702 | C500 | 00 | 1 | 00000 | 1635 | MRKE | CLA | **1 | LIST ITEM | 1.5N0490 |

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|-------|-------|-------|---|-------|------|--------|--|---------------|--|----------|
| 02703 | -0734 | 00 | 2 | 00000 | 1636 | PDX | 0,2 | | 1.5N0500 | |
| 02704 | 0074 | 00 | 4 | 03066 | 1637 | TSX | MRKLST,4 | MARK IT | 1.5N0510 | |
| 02705 | 2 | 00001 | 1 | 02702 | 1638 | TIX | MRKE,1,1 | GET NEXT ITEM | 1.5N0520 | |
| 02706 | 0020 | 00 | 0 | 02624 | 1639 | TRA | MARYC | EXIT | 1.5N0530 | |
| | | | | 1640 | * | | | | 1.5N0590 | |
| | | | | 1641 | * | | ALL MARKING DONE. NOW SWEEP FREE STORAGE | | 1.5N0600 | |
| | | | | 1642 | * | | | | 1.5N0610 | |
| 02707 | 0774 | 00 | 2 | 00000 | 1643 | RCB | AXT | 0,2 | ZERO COUNT IR | 1.5N0620 |
| 02710 | 0600 | 00 | 0 | 03212 | 1644 | | STZ | FSC | INITIALIZE COUNTER | |
| 02711 | 0560 | 00 | 0 | 03271 | 1645 | | LDQ | RCSGNN | SWEEPING SIGNAL TO MQ | 1.5N0630 |
| 02712 | -0774 | 00 | 1 | 03751 | 1646 | | AXC | \$FREE,1 | INITIALIZE LAST LOC IR | 1.5N0640 |
| 02713 | -0774 | 00 | 4 | 00000 | 1647 | F | AXC | ** ,4 | TOP FREE STORAGE | 1.5N0650 |
| 02714 | 0502 | 00 | 4 | 00000 | 1648 | SFSL | CLS | 0,4 | PICK UP WORD | 1.5N0660 |
| 02715 | -0120 | 00 | 0 | 02724 | 1649 | | TMI | SFSC | COLLECT IF SIGN NOW MINUS | 1.5N0670 |
| 02716 | 0601 | 00 | 4 | 00000 | 1650 | | STO | 0,4 | RESTORE WORD WITH + SIGN | 1.5N0680 |
| 02717 | 1 | 00001 | 4 | 02720 | 1651 | SFSA | TXI | **1,4,1 | INCREMENT BY ONE | 1.5N0690 |
| 02720 | -3 | 00000 | 4 | 02714 | 1652 | G | TXL | SFSL,4,** | LOOP IF LESS THAN BOTTOM FREE STORAGE | 1.5N0700 |
| 02721 | 0600 | 00 | 1 | 00000 | 1653 | | STZ | 0,1 | ZERO LAST WORD COLLECTED | 1.5N0710 |
| 02722 | 0634 | 00 | 2 | 03212 | 1654 | | SXA | FSC,2 | SAVE COUNT | 1.5N0720 |
| 02723 | 0020 | 00 | 0 | 02730 | 1655 | | TRA | SWPFWS | | 1.5N0730 |
| 02724 | -0754 | 00 | 4 | 00000 | 1656 | SFSC | PXD | 0,4 | THIS LOCATION | 1.5N0740 |
| 02725 | 0601 | 00 | 1 | 00000 | 1657 | | STO | 0,1 | STORE POINTER IN LAST WORD COLLECTED | 1.5N0750 |
| 02726 | -0734 | 00 | 1 | 00000 | 1658 | | PDX | 0,1 | UP DATE LAST WORD IR | 1.5N0760 |
| 02727 | 1 | 00001 | 2 | 02717 | 1659 | | TXI | SFSA,2,1 | UPDATE COUNTER | 1.5N0770 |
| | | | | 1660 | * | | | | 1.5N0780 | |
| | | | | 1661 | * | | NOW SWEEP FULL WORD SPACE WITH THE BIT TABLE | | 1.5N0790 | |
| | | | | 1662 | * | | | | 1.5N0800 | |
| 02730 | 0774 | 00 | 4 | 03727 | 1663 | SWPFWS | AXT | FWORDL,4 | BEGINNING OF FULL WORD LIST | 1.5N0810 |
| 02731 | 0634 | 00 | 4 | 03057 | 1664 | | SXA | SFWA,4 | INITIALIZE ADDRESS | 1.5N0820 |
| 02732 | 0600 | 00 | 0 | 03210 | 1665 | | STZ | FWC | ZERO FULL WORD COUNTER | 1.5N0830 |
| 02733 | -0774 | 00 | 1 | 00000 | 1666 | H | AXC | ** ,1 | BOTTOM FULL WORD SPACE | 1.5N0840 |
| 02734 | 1 | 00000 | 1 | 02735 | 1667 | I | TXI | **1,1,** | TOP FULL WORD SPACE | 1.5N0850 |
| 02735 | 0754 | 00 | 1 | 00000 | 1668 | | PXA | 0,1 | GET ADDRESS OF BIT TABLE CORRESPONDING | 1.5N0860 |
| 02736 | -0765 | 00 | 0 | 00005 | 1669 | | LGR | 5 | TO THE BOTTOM OF FULL WORD SPACE | 1.5N0870 |
| 02737 | 0734 | 00 | 4 | 00000 | 1670 | | PAX | 0,4 | BIT TABLE WORD | 1.5N0880 |
| 02740 | 1 | 00001 | 4 | 02741 | 1671 | | TXI | **1,4,1 | MAKE INDEXING EASY | 1.5N0890 |
| 02741 | -0754 | 00 | 0 | 00000 | 1672 | | PXD | 0,0 | ZERO AC | 1.5N0900 |
| 02742 | -0763 | 00 | 0 | 00005 | 1673 | | LGL | 5 | BIT NUMBER | 1.5N0910 |
| 02743 | 0734 | 00 | 2 | 00000 | 1674 | | PAX | 0,2 | INTO IR 2 | 1.5N0920 |
| 02744 | 1 | 00001 | 2 | 02745 | 1675 | | TXI | **1,2,1 | MAKE INDEXING EASY | 1.5N0930 |
| 02745 | 0535 | 00 | 1 | 02733 | 1676 | | LAC | H,1 | SET UP IR 1 | |
| 02746 | 0441 | 00 | 4 | 00000 | 1677 | SFWLD | LDI | ** ,4 | BOTTOM FREE STORAGE, (TBT + 1) | 1.5N0940 |
| 02747 | 0446 | 00 | 0 | 00471 | 1678 | | ONT | MONES | SKIP IF ALL WORDS TO BE SAVED | 1.5N0950 |
| 02750 | 0020 | 00 | 0 | 03047 | 1679 | | TRA | SFWSC | SEARCH FOR THE WORDS TO BE COLLECTED | 1.5N0960 |
| 02751 | 1 | 77740 | 1 | 02752 | 1680 | | TXI | **1,1,-32 | DECREMENT CURRENT LOC IR | 1.5N0970 |
| 02752 | 2 | 00001 | 4 | 02746 | 1681 | SFWB | TIX | SFWLD,4,1 | INDEX THROUGH BIT TABLE | 1.5N0980 |
| 02753 | 0500 | 00 | 0 | 03210 | 1682 | SFWDN | CLA | FWC | ALL DONE, GET FULL WORD COUNTER | 1.5N0990 |
| 02754 | 0601 | 60 | 0 | 03057 | 1683 | | STO* | SFWA | SET UP LAST CELL COLLECTED | 1.5N1000 |
| 02755 | 0560 | 00 | 0 | 03272 | 1684 | | LDQ | RCSGNN | PASE 3 SIGNAL | |
| 02756 | 0520 | 00 | 0 | 03220 | 1685 | | ZET | KCT | TEST FOR OUT OF ARRAY SPACE ENTRANCE | 1.5N1020 |
| 02757 | 0074 | 00 | 4 | 03165 | 1686 | | TSX | RELOC,4 | RELOCATE AND COMPACT FULL WORD SPACE | 1.5N1030 |
| 02760 | 0774 | 00 | 4 | 00000 | 1687 | ZPDLA | AXT | ** ,4 | ZERO UNUSED PDL | |
| 02761 | 0600 | 00 | 4 | 00000 | 1688 | ZPDL | STZ | ** ,4 | ZERO PDL WORD | |
| 02762 | 2 | 00001 | 4 | 02761 | 1689 | | TIX | *-1,4,1 | | |

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|-------|-------|-------|---|-------|------|--------|-----------|--|-------------------------------------|----------|
| 02763 | 0560 | 00 | 0 | 00402 | 1690 | LDQ | CRITWN | CRITACL WORD NUMBER | 1.5N1040 | |
| 02764 | 0600 | 00 | 0 | 03225 | 1691 | STZ | RCBF | INITIALIZE BAD EXIT TEST CELL | 1.5N1050 | |
| 02765 | 0500 | 00 | 0 | 03210 | 1692 | CLA | FWC | NUMBER OF FULL WORDS COLLECTED | 1.5N1060 | |
| 02766 | 0040 | 00 | 0 | 02770 | 1693 | TLO | RCEA | TRANSFER IF MORE THAN CRITACL COLLECT | 1.5N1070 | |
| 02767 | -0625 | 00 | 0 | 03225 | 1694 | STL | RCBE | NOT ENOUGH, SIGNAL BAD EXIT | 1.5N1080 | |
| 02770 | 0400 | 00 | 0 | 03222 | 1695 | RCEA | ADD | TFWC | ADD TOTAL OF FULL WORDS COLLECTED | 1.5N1090 |
| 02771 | 0601 | 00 | 0 | 03222 | 1696 | STO | TFWC | UPDATE COUNTER | 1.5N1100 | |
| 02772 | -0763 | 00 | 0 | 00004 | 1697 | LGL | 4 | INCREASE TOLERANCE BY 2 TO THE 4 TH | 1.5N1110 | |
| 02773 | 0500 | 00 | 0 | 03212 | 1698 | CLA | FSC | NUMBER OF FREE STORAGE CELLS PICKED UP | 1.5N1120 | |
| 02774 | 0040 | 00 | 0 | 02776 | 1699 | TLO | RCEB | TRA IF GREATER THAN CRITACL NUMBER | 1.5N1130 | |
| 02775 | -0625 | 00 | 0 | 03225 | 1700 | STL | RCBE | NO, SIGNAL BAD EXIT | 1.5N1140 | |
| 02776 | 0400 | 00 | 0 | 03223 | 1701 | RCEB | ADD | TFSC | ADD TOTAL OF FREE COLLECTED TO DATE | 1.5N1150 |
| 02777 | 0601 | 00 | 0 | 03223 | 1702 | STO | TFSC | UPDATE TOTAL | 1.5N1160 | |
| 03000 | 0500 | 00 | 0 | 03217 | 1703 | CLA | RCC | NUMBER OF RECLAMATION CYCLES EXECUTED | 1.5N1170 | |
| 03001 | 0400 | 00 | 0 | 00371 | 1704 | ADD | \$Q1 | INCREMENT BY 1 | 1.5N1180 | |
| 03002 | 0601 | 00 | 0 | 03217 | 1705 | STO | RCC | UPDATE TOTAL | 1.5N1190 | |
| 03003 | 0500 | 00 | 0 | 03221 | 1706 | CLA | RLC | NUMBER OF TIMES RELOCATION OF FWS | 1.5N1200 | |
| 03004 | 0520 | 00 | 0 | 03220 | 1707 | ZET | RCT | SKIP IF NO RELOCATION | | |
| 03005 | 0400 | 00 | 0 | 00371 | 1708 | ADD | \$Q1 | | 1.5N1220 | |
| 03006 | 0601 | 00 | 0 | 03221 | 1709 | STO | RLC | UPDATE COUNTER | | |
| 03007 | -0520 | 00 | 0 | 03225 | 1710 | NZT | RCBE | SKIP IF BAD EXIT | 1.5N1240 | |
| 03010 | 0020 | 00 | 0 | 03012 | 1711 | TRA | RCED | DO GOOD EXIT | 1.5N1250 | |
| 03011 | 0020 | 00 | 0 | 03014 | 1712 | TRA | RCEC | DO VERBOSE AND BAD EXIT | 1.5N1280 | |
| 03012 | -0520 | 00 | 0 | 03267 | 1713 | RCEC | NZT | VERBOS | SKIP IF TALKATIVE | 1.5N1290 |
| 03013 | 0020 | 00 | 0 | 03040 | 1714 | TRA | RCEXIT | DO EXIT | 1.5N1300 | |
| 03014 | 0535 | 00 | 4 | 03043 | 1715 | RCEC | LAC | RCX,4 | GET EXIT IR4 | |
| 03015 | -0754 | 00 | 4 | 00000 | 1716 | PXD | 0,4 | AND CONVERT FOR PRINTING | | |
| 03016 | 0131 | 00 | 0 | 00000 | 1717 | XCA | | | | |
| 03017 | 0074 | 00 | 4 | 11021 | 1718 | TSX | OCTALP,4 | | | |
| 03020 | -0501 | 00 | 0 | 00452 | 1719 | ORA | OBLANK | | | |
| 03021 | 0602 | 00 | 0 | 03201 | 1720 | SLW | RCT1 | | | |
| 03022 | 0500 | 00 | 0 | 03210 | 1721 | CLA | FWC | FULL WORD COUNTER | 1.5N1340 | |
| 03023 | 0074 | 00 | 4 | 04111 | 1722 | TSX | \$DECON,4 | CONVERT TO BCD DECIMAL | 1.5N1350 | |
| 03024 | 0602 | 00 | 0 | 03210 | 1723 | SLW | RCT4 | PUT IN MESSAGE | 1.5N1360 | |
| 03025 | 0500 | 00 | 0 | 03212 | 1724 | CLA | FSC | FREE STORAGE COUNTER | 1.5N1370 | |
| 03026 | 0074 | 00 | 4 | 04111 | 1725 | TSX | \$DECON,4 | TO DECIMAL | 1.5N1380 | |
| 03027 | 0602 | 00 | 0 | 03212 | 1726 | SLW | RCT5 | PUT IN MESSAGE | 1.5N1390 | |
| 03030 | 0500 | 00 | 0 | 03216 | 1727 | CLA | GCPDLC | NUMBER OF ACTIVE REGISTERS ON PDL | 1.5N1400 | |
| 03031 | 0074 | 00 | 4 | 04111 | 1728 | TSX | \$DECON,4 | TO DECIMAL | 1.5N1410 | |
| 03032 | 0602 | 00 | 0 | 03216 | 1729 | SLW | RCT6 | IN MESSAGE | 1.5N1420 | |
| 03033 | 0074 | 00 | 4 | 01222 | 1730 | TSX | OUTPUT,4 | WRITE OUT MESSAGE | 1.5N1430 | |
| 03034 | 0 | 00000 | 0 | 00364 | 1731 | | BCDOUT | | 1.5N1440 | |
| 03035 | 0 | 00023 | 0 | 03174 | 1732 | | RCTM,,19 | | 1.5N1450 | |
| 03036 | 0520 | 00 | 0 | 03225 | 1733 | ZET | RCBE | SKIP IF GOOD EXIT | 1.5N1460 | |
| 03037 | 0020 | 00 | 0 | 03152 | 1734 | TRA | RCBEX | DO BAD EXIT | 1.5N1470 | |
| 03040 | 0500 | 00 | 0 | 03306 | 1735 | RCEXIT | CLA | RCAC | RESTORE MACHINE REGISTERS | 1.5N1480 |
| 03041 | 0560 | 00 | 0 | 03307 | 1736 | LDQ | RCMQ | | 1.5N1490 | |
| 03042 | 0441 | 00 | 0 | 03224 | 1737 | LDI | RCIND | | 1.5N1500 | |
| 03043 | 0774 | 00 | 4 | 00000 | 1738 | RCX | AXT | ** ,4 | AND INDEX REGISTERS | 1.5N1510 |
| 03044 | 0774 | 00 | 2 | 00000 | 1739 | RCY | AXT | ** ,2 | | 1.5N1520 |
| 03045 | 0774 | 00 | 1 | 00000 | 1740 | RCZ | AXT | ** ,1 | | 1.5N1530 |
| 03046 | 0020 | 00 | 4 | 00001 | 1741 | TRA | 1,4 | EXIT | 1.5N1540 | |
| 03047 | 0446 | 00 | 2 | 03267 | 1742 | SFWSO | ONT | MBIT,2 | CHECK FOR CURRENT BIT | 1.5N1550 |
| 03050 | 0020 | 00 | 0 | 03055 | 1743 | TRA | SFWSO | IS OFF, COLLECT WORD | 1.5N1560 | |

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|-------|--------------|-------|---|-------|------|--------|--------|-----|--------------------|---|----------|
| 03051 | 1 | 77777 | 1 | 03052 | 1744 | | | TXI | **1,1,-1 | IS ON, DECREMENT CURRENT LOC IR | 1.5N1570 |
| 03052 | 2 | 00001 | 2 | 03047 | 1745 | SFWD | | TIX | SFWS,2,1 | INDEX THROUGH THE BITS | 1.5N1580 |
| 03053 | 0774 | 00 | 2 | 00040 | 1746 | | | AXT | 32,2 | SET UP IR WITH NUMBER OF BITS PER WORD | 1.5N1590 |
| 03054 | 0020 | 00 | 0 | 02752 | 1747 | | | TRA | SFWB | EXAMINE NEXT WORD IN BIT TABLE | 1.5N1600 |
| | | | | | 1748 | * | | | | | 1.5N1610 |
| 03055 | -0754 | 00 | 1 | 00000 | 1749 | SFWC | | PXD | 0,1 | COLLECT THIS WORD, POINTER TO THIS WORD | 1.5N1620 |
| 03056 | 0400 | 00 | 0 | 03210 | 1750 | | | ADD | FWC | D PLUS NUMBER OF WORDS COLLECTED IN AC | 1.5N1630 |
| 03057 | 0601 | 00 | 0 | 00000 | 1751 | SFWA | | STO | ** | SET LAST WORD COLLECTED | 1.5N1640 |
| 03060 | 0400 | 00 | 0 | 00371 | 1752 | | | ADD | \$Q1 | INCREMENT NUMBER OF FULL WORDS COLLECT | 1.5N1650 |
| 03061 | 0621 | 00 | 0 | 03210 | 1753 | | | STA | FWC | SAVE FULL WORD COUNTER | 1.5N1660 |
| 03062 | -0737 | 00 | 1 | 00000 | 1754 | | | PDC | 0,1 | COMPLEMENT CURRENT LOCATION | 1.5N1670 |
| 03063 | 0634 | 00 | 1 | 03057 | 1755 | | | SXA | SFWA,1 | TO FORM TRUE ADDRESS FOR UPDATE STORE | 1.5N1680 |
| 03064 | -0734 | 00 | 1 | 00000 | 1756 | | | PDX | 0,1 | CURRENT LOCATION POINTER | 1.5N1690 |
| 03065 | 1 | 77777 | 1 | 03052 | 1757 | | | TXI | SFWD,1,-1 | DECREMENT CURRENT LOCATION AND RETURN | 1.5N1700 |
| | | | | | 1758 | * | | | | | 1.5N1710 |
| | | | | | 1759 | * | MRKLST | | | THE RECURSIVE SUBROUTINE THAT DOES ALL LIST MARKING | 1.5N1720 |
| | | | | | 1760 | * | | | | | 1.5N1730 |
| 03066 | 3 | 00000 | 2 | 03132 | 1761 | MRKLST | | TXH | MLEXT,2,** | BFW BAR, REJECT POINTERS TO PROGRAM | 1.5N1740 |
| 03067 | -3 | 00000 | 2 | 03132 | 1762 | | | TXL | MLEXT,2,** | TFS BAR - 1, REJECT POINTERS TO LOADER | 1.5N1750 |
| 03070 | 0634 | 00 | 1 | 03130 | 1763 | | | SXA | MSRTN,1 | SAVE IR 1 | 1.5N1760 |
| 03071 | 0634 | 00 | 4 | 03131 | 1764 | | | SXA | MRKX,4 | SAVE LINK IR | 1.5N1770 |
| 03072 | 0774 | 00 | 1 | 00001 | 1765 | | | AXT | 1,1 | PRESET TO ONE FOR FAST PUSH DOWN ACCESS | 1.5N1780 |
| 03073 | 0020 | 00 | 0 | 03111 | 1766 | | | TRA | MLIST | DO ACTUAL MARKING | 1.5N1790 |
| | | | | | 1767 | * | | | | | 1.5N1800 |
| 03074 | 0502 | 00 | 2 | 00000 | 1768 | MWIN | | CLS | 0,2 | MARK THIS WORD IN FREE STORAGE | 1.5N1810 |
| 03075 | 0120 | 00 | 0 | 03127 | 1769 | | | TPL | MOUT | TRANSFER OUT IF ALREADY MARKED | 1.5N1820 |
| 03076 | 0601 | 00 | 2 | 00000 | 1770 | | | STO | 0,2 | CAR OF LIST | 1.5N1830 |
| 03077 | 0734 | 00 | 2 | 00000 | 1771 | | | PAX | 0,2 | CAR TO IR 2 | |
| 03100 | 0622 | 00 | 1 | 00000 | 1772 | MLEPD | | STD | **1 | ENDPDL + 1, SAVE CDR OF LIST ON PDL | 1.5N1840 |
| 03101 | 1 | 00001 | 1 | 03102 | 1773 | | | TXI | **1,1,1 | INCREMENT PUSH DOWN COUNTER | 1.5N1850 |
| 03102 | -3 | 00000 | 1 | 03111 | 1774 | MLPDC | | TXL | MLIST,1,** | ENDPDL - C(\$CPPI) BAR, GO IF NOT NOPDL | 1.5N1860 |
| 03103 | 0074 | 00 | 4 | 03133 | 1775 | MLPDE | | TSX | RCERR,4 | OUT OF PUSH DOWN LIST, FATAL ERROR | 1.5N1870 |
| 03104 | 004546604724 | | | | 1776 | | | BCI | 3,0ND PDL -MRKLST- | | 1.5N1880 |
| 03105 | 436040445142 | | | | | | | | | | |
| 03106 | 436263406060 | | | | | | | | | | |
| 03107 | 0500 | 00 | 1 | 00000 | 1777 | MLEPE | | CLA | **1 | ENDPDL + 1, GET CDR OF LIST | 1.5N1890 |
| 03110 | -0734 | 00 | 2 | 00000 | 1778 | | | PDX | 0,2 | PUT IN IR 2 | 1.5N1900 |
| 03111 | -3 | 00000 | 2 | 03127 | 1779 | MLIST | | TXL | MOUT,2,** | TFS BAR - 1, OUT IF NOT IN LISP STORAGE | 1.5N1910 |
| 03112 | -3 | 00000 | 2 | 03074 | 1780 | MLBFA | | TXL | MWIN,2,** | BOTTOM FREE STORAGE BAR, IN FREE | 1.5N1920 |
| 03113 | -3 | 00000 | 2 | 03127 | 1781 | MLBBJ | | TXL | MOUT,2,** | BBT BAR OUT IF POINTER TO BIT TABLE | |
| 03114 | -3 | 00000 | 2 | 03116 | 1782 | MLBDW | | TXL | MCNE,2,** | BOTTOM FULL WORD BAR, IN FULL WORD | 1.5N1930 |
| 03115 | 0020 | 00 | 0 | 03127 | 1783 | | | TRA | MOUT | EXIT, NOT ANY OF ABOVE | 1.5N1940 |
| | | | | | 1784 | * | | | | | 1.5N1950 |
| 03116 | 1 | 00000 | 2 | 03117 | 1785 | MCNE | | TXI | **1,2,** | TOP FULL WORD | 1.5N1960 |
| 03117 | 0754 | 00 | 2 | 00000 | 1786 | | | PXA | 0,2 | CALCULATE BIT TABLE WORD AND BIT | 1.5N1970 |
| 03120 | -0765 | 00 | 0 | 00005 | 1787 | | | LGR | 5 | | 1.5N1980 |
| 03121 | 0734 | 00 | 2 | 00000 | 1788 | | | PAX | 0,2 | BIT TABLE WORD | 1.5N1990 |
| 03122 | -0754 | 00 | 0 | 00000 | 1789 | | | PXD | 0,0 | | 1.5N2000 |
| 03123 | -0763 | 00 | 0 | 00005 | 1790 | | | LGL | 5 | BIT TABLE BIT | 1.5N2010 |
| 03124 | 0734 | 00 | 4 | 00000 | 1791 | | | PAX | 0,4 | | 1.5N2020 |
| 03125 | -0500 | 00 | 4 | 03266 | 1792 | | | CAL | BIT,4 | PICK UP BIT | 1.5N2030 |
| 03126 | -0602 | 00 | 2 | 00000 | 1793 | MLTBT | | ORS | **2 | TOP BIT TABLE, PUT IN BIT | 1.5N2040 |
| 03127 | 2 | 00001 | 1 | 03107 | 1794 | MCUT | | TIX | MLEPE,1,1 | GO BACK IF IN RECURSION | 1.5N2050 |
| 03130 | 0774 | 00 | 1 | 00000 | 1795 | MSRTN | | AXT | **1 | OTHERWISE RESTORE IR 1 | 1.5N2060 |

| | | | | | | | |
|-------|------------------|------|-------|-------|----------------------------------|---|----------|
| 03131 | 0774 00 4 00000 | 1796 | MRXX | AXT | ** , 4 | AND LINK IR | 1.5N2070 |
| 03132 | 0020 00 4 00001 | 1797 | MIEXT | TRA | 1, 4 | AND EXIT | 1.5N2080 |
| | | 1798 | * | | | | 1.5N2090 |
| | | 1799 | * | RCERR | | RECLAIMER FATAL ERROR DUMP ROUTINE | 1.5N2100 |
| | | 1800 | * | | | | 1.5N2110 |
| 03133 | -0634 00 4 01562 | 1801 | RCERR | SXD | \$ERROR, 4 | SAVE IR 4 | 1.5N2120 |
| 03134 | 0634 00 4 03135 | 1802 | | SXA | ** +1, 4 | COMPLEMENT IR 4 TO GET ERROR MESSAGE | 1.5N2130 |
| 03135 | -0774 00 4 00000 | 1803 | | AXC | ** , 4 | | 1.5N2140 |
| 03136 | 1 00001 4 03137 | 1804 | | TXI | ** +1, 4, 1 | LOCATION OF ERROR MESSAGE | 1.5N2150 |
| 03137 | 0634 00 4 03142 | 1805 | | SXA | RCFEM, 4 | BUILD OUTPUT CALL | |
| 03140 | 0074 00 4 01222 | 1806 | | TSX | OUTPUT, 4 | WRITE ERROR MESSAGE ON TAPE | 1.5N2170 |
| 03141 | 0 00000 0 00364 | 1807 | | | BCDOUT | | 1.5N2180 |
| 03142 | 0 00003 0 00000 | 1808 | RCFEM | | ** , , 3 | WRITE OUT 3 WORDS | |
| 03143 | 0600 00 0 03751 | 1809 | | STZ | \$FREE | | 1.5N2200 |
| 03144 | 0600 00 0 03727 | 1810 | | STZ | FWORDL | ZERO STORAGE LISTS | 1.5N2210 |
| 03145 | 0441 00 0 10340 | 1811 | | LDI | SYSIND | GET SYSTEM INDICATORS | |
| 03146 | 0055 00 000010 | 1812 | | SIR | ERRORI | SET ERRIR INDICATOR | |
| 03147 | 0604 00 0 10340 | 1813 | | STI | SYSIND | UPDATE REGISTER | |
| 03150 | 0074 00 4 01521 | 1814 | | TSX | \$TIME, 4 | PRINT THE CURRENT TO TIME | |
| 03151 | 0020 00 0 10230 | 1815 | | TRA | OVRLRD | GET NEXT DIRECTION CARD | |
| | | 1816 | * | | | | 1.5N2250 |
| 03152 | 0441 00 0 03224 | 1817 | RCBEX | LDI | RCIND | RESTORE MACHINE REGISTERS | 1.5N2270 |
| 03153 | 0500 00 0 03306 | 1818 | | CLA | RCAC | | 1.5N2280 |
| 03154 | 0560 00 0 03307 | 1819 | | LDQ | RCMQ | | 1.5N2290 |
| 03155 | 0534 00 4 03043 | 1820 | | LXA | RCX, 4 | AND INDEX REGISTERS | 1.5N2300 |
| 03156 | 0534 00 2 03044 | 1821 | | LXA | RCY, 2 | | 1.5N2310 |
| 03157 | 0534 00 1 03045 | 1822 | | LXA | RCZ, 1 | | 1.5N2320 |
| 03160 | -0634 00 4 01562 | 1823 | | SXD | \$ERROR, 4 | SAVE IR 4 | 1.5N2330 |
| 03161 | 0601 00 0 01556 | 1824 | | STO | \$ERAC | SAVE THE CONTENTS OF THE AC | |
| 03162 | -0754 00 0 00000 | 1825 | | PXD | 0, 0 | | |
| 03163 | 0074 00 4 01563 | 1826 | | TSX | \$ERROR+1, 4 | GO TO ERROR | 1.5N2340 |
| 03164 | 542723600254 | 1827 | | BCI | 1, *GC 2* | NOT ENOUGH WORDS COLLECTED -RECLAIMER- | |
| | | 1828 | * | | | | 1.5N2380 |
| | | 1829 | * | RELOC | | RELOCATES ALL ITEMS IN FULL WORD SPACE INTO A COMPACTED | 1.5N2390 |
| | | 1830 | * | | | BLOCK TO MAKE BLOCKS OF CONTIGOUS STORAGE AVAILABLE FOR | 1.5N2400 |
| | | 1831 | * | | | ARRAYS. | 1.5N2410 |
| | | 1832 | * | | | | 1.5N2420 |
| 03165 | 0634 00 4 03172 | 1833 | RELOC | SXA | RELX, 4 | SAVE LINK IR | 1.5N2430 |
| 03166 | 0074 00 4 03133 | 1834 | | TSX | RCERR, 4 | THIS RPUTINE HAS NOT BEEN CODED YET. | 1.5N2440 |
| 03167 | 004546605125 | 1835 | | BCI | 3, 0NO RELOCATOR | | 1.5N2450 |
| 03170 | 434623216346 | | | | | | |
| 03171 | 516060606060 | | | | | | |
| 03172 | 0774 00 4 00000 | 1836 | RELX | AXT | ** , 4 | RESTORE LINK IR | 1.5N2460 |
| 03173 | 0020 00 4 00001 | 1837 | | TRA | 1, 4 | RETURN TO MAIN PROGRAM | 1.5N2470 |
| | | 1838 | * | | | | 1.5N2480 |
| | | 1839 | * | | | MESSAGES AND CONSTANTS PLUS STORAGE GO HERE | 1.5N2490 |
| | | 1840 | * | | | | 1.5N2500 |
| 03174 | 002721512221 | 1841 | RCTM | BCI | 5, 0GARBAGE COLLECTOR ENTERED AT | | |
| 03175 | 272560234643 | | | | | | |
| 03176 | 432523634651 | | | | | | |
| 03177 | 602545632551 | | | | | | |
| 03200 | 252460216360 | | | | | | |
| 03201 | 0 00000 0 00000 | 1842 | RCT1 | | | THE CALL LOCATION IS PUT HERE | |
| 03202 | 604623632143 | 1843 | | BCI | 4, OCTAL. | | |

| | | | | | | | | |
|-------|-----------------|-------|-------|---|---|--|----------------------|----------|
| C3203 | 336060606060 | | | | | | | |
| C3204 | 606060606060 | | | | | | | |
| C3205 | 606060606060 | | | | | | | |
| C3206 | 606026644343 | 1844 | BCI | 2, | FULL WORDS | | | 1.5N2580 |
| C3207 | 606646512462 | | | | | | | |
| C3210 | 0 00000 0 00000 | 1845 | RCT4 | | | NUMBER FULL WORDS COLLECTED | | 1.5N2590 |
| C3211 | 602651252560 | 1846 | BCI | 1, | FREE | | | 1.5N2600 |
| C3212 | 0 00000 0 00000 | 1847 | RCT5 | | | FREE STORAGE WORDS COLLECTED | | 1.5N2610 |
| C3213 | 606047646230 | 1848 | BCI | 3, | PUSH DOWN DEPTH | | | 1.5N2620 |
| C3214 | 602446664560 | | | | | | | |
| C3215 | 242547633060 | | | | | | | |
| C3216 | 0 00000 0 00000 | 1849 | RCT6 | | | DEPTH ON PUSH DOWN LIST GOES HERE | | 1.5N2630 |
| | | 03210 | 1850 | FWC | SYN | RCT4 | | 1.5N2640 |
| | | 03212 | 1851 | FSC | SYN | RCT5 | STORAGE SAVING SYN S | 1.5N2650 |
| | | 03216 | 1852 | GCPDLC | SYN | RCT6 | | 1.5N2660 |
| C3217 | 0 00000 0 00000 | 1853 | RCC | | | TOTAL NUMBER OF RECLAMATION CYCLES | | 1.5N2670 |
| C3220 | 0 00000 0 00000 | 1854 | RCT | | | TEST CELL TO SEE IF RELOCATION WAS DON | | 1.5N2680 |
| | | 03220 | 1855 | RCRLOC | SYN | RCT | | 1.5N2690 |
| C3221 | 0 00000 0 00000 | 1856 | RLC | | | NUMBER OF TIMES RELOCATION WAS DONE | | 1.5N2700 |
| C3222 | 0 00000 0 00000 | 1857 | TFWC | | | TOTAL FULL WORDS COLLECTED | | 1.5N2710 |
| C3223 | 0 00000 0 00000 | 1858 | TFSC | | | TOTAL FREE STORAGE COLLECTED | | 1.5N2720 |
| | | 00471 | 1859 | MONES | SYN | SEVENS | | |
| | | 00471 | 1860 | MONS | SYN | SEVENS | | |
| C3224 | 0 00000 0 00000 | 1861 | RCIND | | | INDICATOR STORAGE | | 1.5N2750 |
| C3225 | 0 00000 0 00000 | 1862 | KCBE | | | TEST CELL FOR BAD EXIT | | |
| C3226 | 0 00000 0 00000 | 1863 | MARYT | | | TEMPORARY STORAGE | | |
| | | 00402 | 1864 | CRITWN | SYN | \$Q10 | | |
| | | | 1865 | * | | | | 1.5N2780 |
| | | | 1866 | * | BIT TABLES FOR MARKING AND SWEEPING FULL WORD SPACE | | | 1.5N2790 |
| | | | 1867 | * | | | | 1.5N2800 |
| C3227 | +000000000020 | 1868 | OCT | 20 | | | | |
| C3230 | +000000000040 | 1869 | OCT | 40,100,200,400,1000,2000,4000,10000,20000,40000,100000 | | | | 1.5N2820 |
| C3231 | +000000000100 | | | | | | | |
| C3232 | +000000000200 | | | | | | | |
| C3233 | +000000000400 | | | | | | | |
| C3234 | +000000001000 | | | | | | | |
| C3235 | +000000002000 | | | | | | | |
| C3236 | +000000004000 | | | | | | | |
| C3237 | +000000010000 | | | | | | | |
| C3240 | +000000020000 | | | | | | | |
| C3241 | +000000040000 | | | | | | | |
| C3242 | +000000100000 | | | | | | | |
| C3243 | +000000200000 | 1870 | OCT | 200000,400000,1000000,2000000,4000000,10000000,20000000 | | | | 1.5N2830 |
| C3244 | +000000400000 | | | | | | | |
| C3245 | +000001000000 | | | | | | | |
| C3246 | +000002000000 | | | | | | | |
| C3247 | +000004000000 | | | | | | | |
| C3250 | +000010000000 | | | | | | | |
| C3251 | +000020000000 | | | | | | | |
| C3252 | +000040000000 | 1871 | OCT | 40000000,100000000,200000000,400000000,1000000000 | | | | 1.5N2840 |
| C3253 | +000100000000 | | | | | | | |
| C3254 | +000200000000 | | | | | | | |
| C3255 | +000400000000 | | | | | | | |
| C3256 | +001000000000 | | | | | | | |

| | | | | |
|------------------------|-------|------------|---|--|
| 03257 +002000000000 | 1872 | OCT | 2000000000,4000000000,10000000000,20000000000 | 1.5N2850 |
| 03260 +004000000000 | | | | |
| 03261 +010000000000 | | | | |
| 03262 +020000000000 | | | | |
| 03263 +040000000000 | 1873 | OCT | 40000000000,100000000000,200000000000 | 1.5N2860 |
| 03264 +100000000000 | | | | |
| 03265 +200000000000 | | | | |
| 03266 -000000000000 | 1874 | BIT OCT | 400000000000 | 1.5N2870 |
| | 03267 | 1875 | MBIT SYN | BIT+1 |
| | 03226 | 1876 | MBITF SYN | BIT-32 |
| | 1877 | * | | 1.5N2890 |
| | 1878 | * | | 1.5N2900 |
| 03267 -377777777777 | 1879 | VERBOS OCT | 777777777777 | THIS CELL NON ZERO MAKES THE RECLAIMER VERY TALKATIVE |
| | 1880 | * | | 1.5N2920 |
| 03270 +111111111111 | 1881 | RCSGNL OCT | 111111111111 | |
| 03271 +222222222222 | 1882 | RCSGNM OCT | 222222222222 | 1.5N2940 |
| 03272 +333333333333 | 1883 | RCSGNN OCT | 333333333333 | PHASE SIGNALS FOR MQ |
| 03273 0 00000 0 00000 | 1884 | TMLM | | TEMPORARY STORAGE |
| 03274 -3 00000 7 00000 | 1885 | TMPTM SVN | ,7 | PREFIX AND TAG MASK |
| 03275 0 00000 0 00000 | 1886 | MRKP | | TEMPORARY STORAGE |
| | 1887 | * | | 1.5N2990 |
| 03276 0 74500 0 74501 | 1888 | TEMXX | --1,--2 | PERMENANT TEMPLIS ITEMS |
| 03277 0 00531 0 00473 | 1889 | | BCONAT,,ECONAT | |
| 03300 0 74476 0 74477 | 1890 | | --1,--2 | |
| 03301 0 16503 0 16477 | 1891 | | C\$PROBE,,C\$PROEN | LAP PROTECTED AREA |
| 03302 0 00000 0 74475 | 1892 | | --1 | END OF TEMPLIS |
| 03303 0 03707 0 03304 | 1893 | | BEGBLK,,ENDBLK-1 | FUNCTION STORAGE |
| | 1894 | * | | |

| | | | | | | | | |
|-------|---|-------|---|--------|------------|---|--|----------|
| | | | | 1895 | EJECT | | | |
| | | | | 1896 * | | STORAGE BLOCK FOR FUNCTIONS ALL OVER THE PACKAGE | | |
| | | | | 1897 * | | | | |
| 03304 | | | | 1898 | BEGBLK BSS | 0 | | |
| | | | | 1899 * | | RECLAIMER STORAGE TO BE MARKED | | |
| 03304 | 0 | 74502 | 0 | 00000 | 1900 | TEMLIS | ,-TEMXX | |
| 03305 | 0 | 00000 | 0 | 00000 | 1901 | ARYLIS | LIST OF ACTIVE ARRAYS | |
| 03306 | 0 | 00000 | 0 | 00000 | 1902 | RCAC | AC STORAGE | 1.5N2760 |
| 03307 | 0 | 00000 | 0 | 00000 | 1903 | RCMQ | MQ-STORAGE | 1.5N2770 |
| | | | | 1904 * | | CNSFWL STORAGE | | |
| 03310 | 0 | 00000 | 0 | 00000 | 1905 | CNXT | POINTER TO NEXT WORD ON LINEAR OBJLIST | 1.5M9120 |
| 03311 | 0 | 00000 | 0 | 00000 | 1906 | CNX | POINTER TO NEXT WORD ON PROPERTY LIST | 1.5M9130 |
| 03312 | 0 | 00000 | 0 | 00000 | 1907 | CNFT | POINTER TO NEXT WORD ON PNAME LIST | 1.5M9140 |
| 03313 | 0 | 00000 | 0 | 03313 | 1908 | CNAT | POINTER TO FIRST WORD OF CURRENT ATOM | 1.5M9150 |
| 03314 | 0 | 00000 | 0 | 00000 | 1909 | CNVA | POINTER TO FIRST WORD OF PNAME LIST | 1.5M9160 |
| | | | | 1910 | ***** | | | |
| | | | | 1911 * | | THESE CARDS ARE A BLOCK | | |
| | | | | 1912 | HEAD | A | \$ALIST AND RET IR4 | |
| 03315 | 0 | 00000 | 0 | 00000 | 1913 | CSV | | |
| | | | | | 1914 | HEAD | 0 | |
| 03316 | 0 | 00000 | 0 | 00000 | 1915 | ALIST | REFERED TO BY COMPILED FUNCTIONS | |
| | | | | 1916 | | | | LC089200 |
| | | | | 1917 | | REGISTERS FOR FUNCTION ARGUMENTS. ARG1 AND ARG2 ARE NOT | | LC089300 |
| | | | | 1918 | | NORMALLY USED. | | LC089400 |
| | | | | 1919 | | | | LC087200 |
| 03317 | 0 | 00000 | 0 | 00000 | 1920 | ARG1 | | LC089500 |
| 03320 | 0 | 00000 | 0 | 00000 | 1921 | ARG2 | | LC089600 |
| 03321 | 0 | 00000 | 0 | 00000 | 1922 | ARG3 | | LC089700 |
| 03322 | 0 | 00000 | 0 | 00000 | 1923 | ARG4 | | LC089800 |
| 03323 | 0 | 00000 | 0 | 00000 | 1924 | ARG5 | | LC089900 |
| 03324 | 0 | 00000 | 0 | 00000 | 1925 | ARG6 | | LC090000 |
| 03325 | 0 | 00000 | 0 | 00000 | 1926 | ARG7 | | LC090100 |
| 03326 | 0 | 00000 | 0 | 00000 | 1927 | ARG8 | | LC090200 |
| 03327 | 0 | 00000 | 0 | 00000 | 1928 | ARG9 | | LC090300 |
| 03330 | 0 | 00000 | 0 | 00000 | 1929 | ARG10 | | LC090400 |
| 03331 | 0 | 00000 | 0 | 00000 | 1930 | ARG11 | | |
| 03332 | 0 | 00000 | 0 | 00000 | 1931 | ARG12 | | |
| 03333 | 0 | 00000 | 0 | 00000 | 1932 | ARG13 | | |
| 03334 | 0 | 00000 | 0 | 00000 | 1933 | ARG14 | | |
| 03335 | 0 | 00000 | 0 | 00000 | 1934 | ARG15 | | |
| 03336 | 0 | 00000 | 0 | 00000 | 1935 | ARG16 | | |
| 03337 | 0 | 00000 | 0 | 00000 | 1936 | ARG17 | | |
| 03340 | 0 | 00000 | 0 | 00000 | 1937 | ARG18 | | |
| 03341 | 0 | 00000 | 0 | 00000 | 1938 | ARG19 | | |
| 03342 | 0 | 00000 | 0 | 00000 | 1939 | ARG20 | | |
| | | | | 1940 | | | | LC090600 |
| | | | | 1941 | ***** | | | |
| | | | | 1942 | HEAC | R | AND | 1.5R1490 |
| 03343 | 0 | 00000 | 0 | 10772 | 1943 | EVA1 | \$AND | LC497000 |
| 03344 | 0 | 00000 | 0 | 00000 | 1944 | EVA2 | | LC496900 |
| 03345 | 0 | 00000 | 0 | 00000 | 1945 | EVA9 | | LC496800 |
| | | | | 1946 | HEAC | A | APPEND | 1.5R1500 |
| 03346 | 0 | 00000 | 0 | 10762 | 1947 | AS1 | \$F1 | LC391100 |
| 03347 | 0 | 00000 | 0 | 00000 | 1948 | CWR1 | | LC391000 |

| | | | | | | | | |
|-------|----|-------|---|-------|-------|-------|--|-----------------------------|
| | | | | 1949 | HEAD | A | APPLY | 1.5R1510 |
| 03350 | 0 | 00000 | 0 | 00000 | 1950 | ASS1 | | LC442100 |
| 03351 | 0 | 00000 | 0 | 00000 | 1951 | ASSL | | LC442000 |
| 03352 | 0 | 00000 | 0 | 00000 | 1952 | ASSA | | LC441900 |
| 03353 | 0 | 00000 | 0 | 00000 | 1953 | AST1 | | LC442200 |
| 03354 | 0 | 00000 | 0 | 00000 | 1954 | AST2 | | LC442300 |
| 03355 | 0 | 00000 | 0 | 00000 | 1955 | AST3 | | LC442400 |
| 03356 | 0 | 00000 | 0 | 00000 | 1956 | AST4 | | LC442500 |
| | | | | 1957 | HEAD | R | COPY | 1.5R1530 |
| 03357 | 0 | 00000 | 0 | 10430 | 1958 | CS1 | \$COPYN | LC214200 |
| 03360 | 0 | 00000 | 0 | 00000 | 1959 | CS2 | | LC214100 |
| | | | | 1960 | HEAD | C | CPI | 1.5R1540 |
| 03361 | 0 | 00000 | 0 | 10440 | 1961 | CR1 | \$F12 | LC374300 |
| 03362 | 0 | 00000 | 0 | 00000 | 1962 | CR2 | | LC374200 |
| 03363 | 0 | 00000 | 0 | 00000 | 1963 | CWRL | | LC374400 |
| | | | | 1964 | HEAD | A | EVCON | 1.5R1550 |
| 03364 | 0 | 00000 | 0 | 10460 | 1965 | ECS1 | \$COND | LC473300 |
| 03365 | 0 | 00000 | 0 | 00000 | 1966 | ECS2 | | LC473200 |
| 03366 | 0 | 00000 | 0 | 00000 | 1967 | ECS3 | | LC473100 |
| 03367 | 0 | 00000 | 0 | 00000 | 1968 | ECS4 | | LC473000 |
| | | | | 1969 | HEAD | R | EVLIS | 1.5R1560 |
| 03370 | 0 | 00000 | 0 | 10167 | 1970 | EVLX | EVLISL | LINK IR |
| 03371 | 0 | 00000 | 0 | 00000 | 1971 | ELA | ALIST | LC528900 |
| | | | | 1972 | HEAD | A | EVP26 | 1.5R1570 |
| 03372 | 0 | 00000 | 0 | 00000 | 1973 | EVS1 | IR4, BOTTOM OF PROTECTED TEMP. STORAGE | LC523500 |
| 03373 | 0 | 00000 | 0 | 00000 | 1974 | EVSE | | LC523300 |
| 03374 | 0 | 00000 | 0 | 00000 | 1975 | EVSA | | LC523400 |
| 03375 | -0 | 00000 | 0 | 00000 | 1976 | EVTBK | MZE | TRACE SWITCH |
| 03376 | 0 | 00000 | 0 | 00000 | 1977 | EVCDR | | ARG LIST FOR SUBR ARGUMENTS |
| 03411 | | | | 1978 | EAG11 | BES | 10 | ARGUMENT BLOCK FOR EVAL |
| 03411 | 0 | 00000 | 0 | 00000 | 1979 | EVTDE | | CDR(E) |
| 03412 | 0 | 00000 | 0 | 00000 | 1980 | EVD2 | | LC523800 |
| | | | | 1981 | HEAD | R | GO SPECIAL FORM | LC524200 |
| 03413 | 0 | 00000 | 0 | 10037 | 1982 | GOX | \$GO | LINK IR |
| | | | | 1983 | HEAD | R | LABP | 1.5R1600 |
| 03414 | 0 | 00000 | 0 | 00000 | 1984 | BFS4 | | LC483000 |
| | | | | 1985 | HEAD | R | LAMP | 1.5R1610 |
| 03415 | 0 | 00000 | 0 | 00000 | 1986 | BFS2 | | LC479800 |
| 03416 | 0 | 00000 | 0 | 00000 | 1987 | BFS3 | | LC479900 |
| | | | | 1988 | * | | | |
| | | | | 1989 | HEAD | C | LINK FOR COMPILED FUNCTIONS | |
| 03417 | 0 | 00000 | 0 | 00000 | 1990 | LNKA | | LINK STORAGE FOR AC |
| 03420 | 0 | 00000 | 0 | 00000 | 1991 | LNKB | | LINK STORAGE FOR MQ |
| | | | | 1992 | HEAD | D | MAPCAR | 1.5R1620 |
| 03421 | 0 | 00000 | 0 | 07646 | 1993 | RET | \$PMAPCA | LC403000 |
| 03422 | 0 | 00000 | 0 | 00000 | 1994 | L | | LC402900 |
| 03423 | 0 | 00000 | 0 | 00000 | 1995 | F | | LC402800 |
| | | | | 1996 | HEAD | R | MAPCON | 1.5R1630 |
| 03424 | 0 | 00000 | 0 | 07636 | 1997 | MCN5 | -\$10698 | LC406600 |
| 03425 | 0 | 00000 | 0 | 00000 | 1998 | MCN4 | | LC406500 |
| 03426 | 0 | 00000 | 0 | 00000 | 1999 | MCN3 | | LC406400 |
| 03427 | 0 | 00000 | 0 | 00000 | 2000 | MCN2 | | LC406300 |
| | | | | 2001 | HEAD | R | MAPLIS | 1.5R1640 |
| 03430 | 0 | 00000 | 0 | 07626 | 2002 | MS1 | -\$1069A | LINK IR STORAGE |

| | | | | | | | | | | |
|-------|---|-------|---|-------|------|--------|------|--------|---|----------|
| 03431 | 0 | 00000 | 0 | 00000 | 2003 | MS2 | | | ARGUMENT L | LC210600 |
| 03432 | 0 | 00000 | 0 | 00000 | 2004 | MS3 | | | FUNCTIONAL ARGUMENT | LC210500 |
| 03433 | 0 | 00000 | 0 | 00000 | 2005 | MS4 | | | FINAL ANSWER | LC210400 |
| 03434 | 0 | 00000 | 0 | 00000 | 2006 | MS5 | | | INTERMEDIATE ANSWER | LC210300 |
| | | | | | 2007 | | HEAD | R | | |
| 03435 | 0 | 00000 | 0 | 07435 | 2008 | EVR1 | | \$OR | OR | 1.5R1650 |
| 03436 | 0 | 00000 | 0 | 00000 | 2009 | EVR2 | | | | LC499900 |
| 03437 | 0 | 00000 | 0 | 00000 | 2010 | EVR9 | | | | LC499700 |
| | | | | | 2011 | | HEAD | A | PAIR | 1.5R1660 |
| 03440 | 0 | 00000 | 0 | 00000 | 2012 | TEM | | | FIRST ARGUMENT | 4500 |
| 03441 | 0 | 00000 | 0 | 00000 | 2013 | LIS | | | SECONDR ARGUMENT | 4510 |
| | | | | | 2014 | | HEAD | P | PRINAR | 1.5R1670 |
| 03442 | 0 | 00000 | 0 | 00000 | 2015 | PAS3 | | | | LC429200 |
| 03443 | 0 | 00000 | 0 | 00000 | 2016 | PAS4 | | | | LC429300 |
| | | | | | 2017 | | HEAD | R | PROGRAM FEATURE | |
| 03444 | 0 | 00000 | 0 | 07300 | 2018 | INTRX | | \$PROG | LINK INDEX REGISTER | |
| 03445 | 0 | 00000 | 0 | 00000 | 2019 | INTB | | | CURRENT STATEMENT | 1.5R1120 |
| 03446 | 0 | 00000 | 0 | 00000 | 2020 | INTGL | | | GO LIST, (LIST OF PROGRAM POINTS) + IR2 | |
| 03447 | 0 | 00000 | 0 | 00000 | 2021 | INTPL | | | PAIR LIST | 1.5R1100 |
| 03450 | 0 | 00000 | 0 | 00000 | 2022 | INTGS | | | GO SWITCH , NON-ZERO IF GO OR RETURN | 1.5R1090 |
| | | | | | 2023 | | HEAD | I | READ1 | 1.5R1680 |
| 03451 | 0 | 00000 | 0 | 07226 | 2024 | RS1 | | \$F13 | | |
| 03452 | 0 | 00000 | 0 | 00000 | 2025 | RS2 | | | | LC295800 |
| 03453 | 0 | 00000 | 0 | 00000 | 2026 | PKINTL | | | TEMPORARY STORAGE FOR PRINT OR PUNCH | |
| | | | | | 2027 | | HEAD | R | SEARCH | 1.5R1690 |
| 03454 | 0 | 00000 | 0 | 07042 | 2028 | SRS1 | | \$SRCH | IR4 | LC225600 |
| 03455 | 0 | 00000 | 0 | 00000 | 2029 | SRS2 | | | L | LC225500 |
| 03456 | 0 | 00000 | 0 | 00000 | 2030 | SRS3 | | | P | LC225400 |
| 03457 | 0 | 00000 | 0 | 00000 | 2031 | SRS4 | | | F | LC225300 |
| 03460 | 0 | 00000 | 0 | 00000 | 2032 | SRS5 | | | U | LC225200 |
| | | | | | 2033 | | HEAD | R | SETQP | 1.5R1700 |
| 03461 | 0 | 00000 | 0 | 07022 | 2034 | REPS1 | | \$SETQ | | |
| 03462 | 0 | 00000 | 0 | 00000 | 2035 | REPV | | | | LC487100 |
| 03463 | 0 | 00000 | 0 | 00000 | 2036 | REPT1 | | | | LC487300 |
| | | | | | 2037 | | HEAD | B | SUBLIS | 1.5R1710 |
| 03464 | 0 | 00000 | 0 | 06726 | 2038 | X1 | | \$F17 | IR4 OF SUBLIS | LC387700 |
| 03465 | 0 | 00000 | 0 | 00000 | 2039 | X2 | | | CDR(E) | LC387800 |
| 03466 | 0 | 00000 | 0 | 00000 | 2040 | X3 | | | CAR(E) | LC387900 |
| 03467 | 0 | 00000 | 0 | 00000 | 2041 | X4 | | | SUBLIS(P,CDR(E)) | LC388000 |
| 03470 | 0 | 00000 | 0 | 00000 | 2042 | X5 | | | CDAR(J) | LC388100 |
| 03471 | 0 | 00000 | 0 | 00000 | 2043 | P | | | | LC388200 |
| 03472 | 0 | 00000 | 0 | 00000 | 2044 | E | | | | LC387600 |
| | | | | | 2045 | | HEAD | R | SUBST | 1.5R1720 |
| 03473 | 0 | 00000 | 0 | 00000 | 2046 | SXT | | | | |
| 03474 | 0 | 00000 | 0 | 00000 | 2047 | SZ | | | | |
| 03475 | 0 | 00000 | 0 | 00000 | 2048 | SX | | | | |
| 03476 | 0 | 00000 | 0 | 00000 | 2049 | SY | | | | |
| 03477 | 0 | 00000 | 0 | 00000 | 2050 | ST | | | | |
| | | | | | 2051 | | HEAD | Q | ADD, ETC. | |
| 03500 | 0 | 00000 | 0 | 00000 | 2052 | AMIR | | | IR 4 STORAGE | RDCX0293 |
| 03501 | 0 | 00000 | 0 | 00000 | 2053 | AMIND | | | INDICATOR REGISTER STORAGEE | RDCX0292 |
| 03502 | 0 | 00000 | 0 | 00000 | 2054 | AMLIS | | | LIST STORAGE | RDCX0291 |
| 03503 | 0 | 00000 | 0 | 00000 | 2055 | AMQ | | | TYPE STORAGE | RDCX0289 |
| | | | | | 2056 | * | | | ARRAY MAKE PROGRAM | |

| | | | | | | | | | | |
|-------|----|-------|---|-------|------|--------|------|------|--------------------------------|----------|
| 03504 | 0 | 00000 | 0 | 00000 | 2057 | AFAT | | | ARRAY ATOM GOES HERE | |
| 03505 | 0 | 00000 | 0 | 00000 | 2058 | ATMP | | | TEMPORARY STORAGE | 1.5N6370 |
| | | | | | 2059 | | HEAD | S | EVALQUOTE STORAGE | |
| 03506 | 0 | 00000 | 0 | 00000 | 2060 | EVQAN | | | | |
| 03507 | | | | | 2061 | BSS | | 100 | EVALQUOTE BUFFER | 9220 |
| 03653 | -0 | 00000 | 0 | 00000 | 2062 | EVQB | MZE | | TEST CELL FOR READ IN | 9230 |
| | | | | | 2063 | | HEAD | F | | |
| | | | | | 2064 | * | | | CHARACTER FUNCTIONS | |
| 03654 | | | | | 2065 | BBPNT | BSS | 1 | POINTER TO REMAINDER OF LIST | RDC10354 |
| 03655 | | | | | 2066 | PIND | BSS | 1 | | RDC10355 |
| | | | | | 2067 | * | | MKNO | | |
| 03656 | 0 | 00000 | 0 | 00000 | 2068 | MKT1 | | | TEMP STORAGE TYPE (FIX OR FLO) | RDC10412 |
| 03657 | | | | | 2069 | | BSS | 25 | ROOM FOR MORE STORAGE | |
| 03710 | | | | | 2070 | ENDBLK | BSS | 0 | | |

| | | | | | | | | | |
|-------|-------|---------|-------|------|---------|-------|---|--|----------|
| | | | | 2071 | | EJECT | | | |
| | | | | 2072 | | HEAD | 0 | | |
| | | | | 2073 | * CONSW | | PUTS FULL WORDS IN FULL WORD SPACE | | 1.5N3010 |
| | | | | 2074 | * | | | | 1.5N3020 |
| 03710 | 0634 | 00 4 | 03724 | 2075 | CONSW | SXA | CSWX,4 | SAVE LINK IR | 1.5N3030 |
| 03711 | -0534 | 00 4 | 03727 | 2076 | FWLOR | LXD | FWORDL,4 | PICK UP FULL WORD LIST | 1.5N3040 |
| 03712 | -3 | 00000 4 | 04031 | 2077 | | TXL | FWLOUT,4,0 | TEST FOR NO MORE | 1.5N3050 |
| 03713 | -0600 | 00 0 | 03726 | 2078 | | STG | CSWQ | SAVE MQ | 1.5N3060 |
| 03714 | 0560 | 00 4 | 00000 | 2079 | | LDQ | 0,4 | PICK UP POINTER TO NEXT WORD ON FWL | 1.5N3070 |
| 03715 | -0620 | 00 0 | 03727 | 2080 | | SLQ | FWORDL | UP DATE FULL WORD LIST POINTER | 1.5N3080 |
| 03716 | 0601 | 00 4 | 00000 | 2081 | | STO | 0,4 | PUT AC IN FULL WORD AREA | 1.5N3090 |
| 03717 | -0754 | 00 4 | 00000 | 2082 | | PXD | 0,4 | POINTER TO AC | 1.5N3100 |
| 03720 | -0534 | 00 4 | 03727 | 2083 | | LXD | FWORDL,4 | POINTER TO NEXT AVAILABLE WORD | 1.5N3110 |
| 03721 | 3 | 00000 4 | 03723 | 2084 | LOWARY | TXH | CSWO,4,** | BOTTOM FULL WORD SPACE, TEST FOR ARY | 1.5N3120 |
| 03722 | -0634 | 00 4 | 03721 | 2085 | | SXD | **1,4 | AVAILABLE LOCATION AND UPDATE SAME | 1.5N3130 |
| 03723 | 0560 | 00 0 | 03726 | 2086 | CSWO | LDQ | CSWQ | RESTORE MQ | 1.5N3140 |
| 03724 | 0774 | 00 4 | 00000 | 2087 | CSWX | AXT | **1,4 | RESTORE LINK IR | 1.5N3150 |
| 03725 | 0020 | 00 4 | 00001 | 2088 | | TRA | 1,4 | EXIT | 1.5N3160 |
| 03726 | 0 | 00000 0 | 00000 | 2089 | CSWQ | | | TEMPORARY STORAGE FOR MQ | 1.5N3170 |
| 03727 | 0 | 00000 0 | 00000 | 2090 | FWORDL | | | POINTER TO FULL WORD LIST | 1.5N3180 |
| | | | | 2091 | * | | | | 1.5N3190 |
| | | | | 2092 | * CONS | | BASIC LISP FUNCTION PUTS A WORD IN FREE STORAGE | | 1.5N3200 |
| | | | | 2093 | * | | | | 1.5N3210 |
| 03730 | 0634 | 00 4 | 03747 | 2094 | CCNS | SXA | CNSX,4 | SAVE LINK IR | 1.5N3220 |
| 03731 | -0534 | 00 4 | 03751 | 2095 | | LXD | \$FREE,4 | GET FREE STORAGE LIST POINTER | 1.5N3230 |
| 03732 | 3 | 00000 4 | 03734 | 2096 | | TXH | **2,4,0 | SKIP IF NOT OUT OF FREE STORAGE | 1.5N3240 |
| 03733 | 0074 | 00 4 | 04037 | 2097 | | TSX | FROUT,4 | OUT OF FREE STORAGE | 1.5N3250 |
| 03734 | 0771 | 00 0 | 00022 | 2098 | | ARS | 18 | DECREMENT TO ADDRESS | 1.5N3260 |
| 03735 | 0621 | 00 4 | 00000 | 2099 | | STA | 0,4 | PUT ADDRESS AWY | 1.5N3270 |
| 03736 | 0500 | 00 4 | 00000 | 2100 | | CLA | 0,4 | GET POINTER TO NEXT WORD IN FREE | 1.5N3280 |
| 03737 | 0622 | 00 0 | 03751 | 2101 | | STO | FREE | PUT IN FREE | 1.5N3290 |
| 03740 | -0620 | 00 4 | 00000 | 2102 | | SLQ | 0,4 | PUT DECREMENT AWAY | 1.5N3300 |
| 03741 | -0754 | 00 4 | 00000 | 2103 | | PXD | 0,4 | POINTER TO WORD | 1.5N3310 |
| 03742 | 0774 | 00 4 | 00000 | 2104 | CNTRI | AXT | **1,4 | LOW ORDER 15 BITS OF CONS COUNTER KEPT | 1.5P6000 |
| 03743 | 2 | 00001 4 | 03746 | 2105 | | TIX | **3,4,1 | DECREMENT COUNT BY 1 | 1.5P6001 |
| 03744 | 0074 | 00 4 | 03752 | 2106 | | TSX | ARREST,4 | COUNT EXHAUSTED, RELOAD OR STOP | 1.5P6002 |
| 03745 | 0774 | 00 4 | 77777 | 2107 | | AXT | -1,4 | RELOAD NUMBER | 1.5P6003 |
| 03746 | 0634 | 00 4 | 03742 | 2108 | | SXA | CNTRI,4 | PUT IN COUNTER | 1.5P6004 |
| 03747 | 0774 | 00 4 | 00000 | 2109 | CNSX | AXT | **1,4 | RESTORE LINK IR | 1.5N3320 |
| 03750 | 0020 | 00 4 | 00001 | 2110 | | TRA | 1,4 | EXIT | 1.5N3330 |
| 03751 | 0 | 00000 0 | 00000 | 2111 | FREE | | | POINTER TO FREE STORAGE LIST | 1.5N3340 |
| | | | | 2112 | * | | | | 1.5P6005 |
| 03752 | -0520 | 00 0 | 11671 | 2113 | ARREST | NZT | TCOUNT | SKIP IF COUNS COUNTER ON | 1.5P6006 |
| 03753 | 0020 | 00 4 | 00001 | 2114 | | TRA | 1,4 | OTERWISE RETURN | 1.5P6007 |
| 03754 | 0601 | 00 0 | 04107 | 2115 | | STO | CNTM | SAVE AC | 1.5P6008 |
| 03755 | 0500 | 00 0 | 04106 | 2116 | | CLA | CNTS | GET REST OF COUNTER | 1.5P6009 |
| 03756 | 0100 | 00 0 | 03763 | 2117 | | TZE | AWHOA | GO TO ERROR CALL IF EXHAUSTED | 1.5P6010 |
| 03757 | 0402 | 00 0 | 04110 | 2118 | | SUB | CTG | DECREMENT BY 32,768 | 1.5P6011 |
| 03760 | 0601 | 00 0 | 04106 | 2119 | | STO | CNTS | UPDATE COUNTER | 1.5P6012 |
| 03761 | 0500 | 00 0 | 04107 | 2120 | | CLA | CNTM | RESTORE AC | 1.5P6013 |
| 03762 | 0020 | 00 4 | 00001 | 2121 | | TRA | 1,4 | EXIT TO RELOAD CNTRI | 1.5P6014 |
| | | | | 2122 | * | | | | 1.5P6015 |
| 03763 | 0634 | 00 0 | 11671 | 2123 | AWHOA | SXA | TCOUNT,0 | DEACTIVATE THE CONS COUNTER | |
| 03764 | 0500 | 00 0 | 04100 | 2124 | | CLA | CNTST | PICK UP INITAL COUNT | 1.5P6017 |

| | | | | | | | | | |
|-------|--------------|-------|---|-------|------|------------|-------------|--|----------|
| 03765 | 0560 | 00 | 0 | 00475 | 2125 | LDQ | \$FIXD | PICK UP \$FIX | 1.5P6018 |
| 03766 | -0634 | 00 | 4 | 01562 | 2126 | SXD | \$ERROR,4 | SAVE LINK IR | 1.5P6019 |
| 03767 | 0774 | 00 | 4 | 00010 | 2127 | AXT | 8,4 | 8 SPARE CONSES FOR \$MKNO | |
| 03770 | 0634 | 00 | 4 | 03742 | 2128 | SXA | CNTR1,4 | | |
| 03771 | 0074 | 00 | 4 | 12636 | 2129 | TSX | \$MKNO,4 | MAKE THE COUNT A NUMBER | 1.5P6020 |
| 03772 | 0074 | 00 | 4 | 01563 | 2130 | TSX | \$ERROR+1,4 | GO TO ERROT | 1.5P6021 |
| 03773 | 542660600154 | | | | 2131 | BCI | 1,*F 1* | CONS COUNTER TRAP | |
| | | | | | 2132 | * | | | 1.5P6040 |
| | | | | | 2133 | * SPEAK | | URNS THE CONTENTS OF THE CONS COUNTER INTO A FIXED POINT | 1.5P6041 |
| | | | | | 2134 | * | | NUMBER. | 1.5P6042 |
| | | | | | 2135 | * | | | 1.5P6043 |
| 03774 | 0500 | 00 | 0 | 00457 | 2136 | SPEAK CLA | \$AMASK | GET ADDRESS MASK | 1.5P6044 |
| 03775 | -0320 | 00 | 0 | 03742 | 2137 | ANA | CNTR1 | PICK UP 15 LOW ORDER BITS | 1.5P6045 |
| 03776 | -0501 | 00 | 0 | 04106 | 2138 | ORA | CNTS | OR IN REST OF COUNT | 1.5P6046 |
| 03777 | 0601 | 00 | 0 | 04107 | 2139 | STO | CNTM | SAVE CURRENT VALUE | 1.5P6047 |
| 04000 | 0500 | 00 | 0 | 04100 | 2140 | CLA | CNTST | PICK UP INITIAL VALUE | 1.5P6048 |
| 04001 | 0402 | 00 | 0 | 04107 | 2141 | SUB | CNTM | SUBTRACT CURRENT VALUE TO GET NUMBER | 1.5P6049 |
| 04002 | 0560 | 00 | 0 | 00475 | 2142 | LDQ | \$FIXD | OF CONSES. PUT \$FIX IN MQ | 1.5P6050 |
| 04003 | 0020 | 00 | 0 | 12636 | 2143 | TRA | \$MKNO | MAKE THE RESULT A NUMBER | 1.5P6051 |
| | | | | | 2144 | * | | | 1.5N3350 |
| | | | | | 2145 | * BLOCKR | | BLOCK RESERVATION ROUTINE USED IN DECLARING ARRAYS. | 1.5N3360 |
| | | | | | 2146 | * | | | 1.5N3370 |
| 04004 | 0634 | 00 | 4 | 04026 | 2147 | BLOCKR SXA | BLKX,4 | SAVE LINK IR | |
| 04005 | -0625 | 00 | 0 | 04056 | 2148 | STL | NROOM | SET UP TOO BIG TEST CELL | 1.5N3390 |
| 04006 | 0621 | 00 | 0 | 04022 | 2149 | STA | BLKB | BE RESERVED | 1.5N3400 |
| 04007 | -0534 | 00 | 4 | 02304 | 2150 | LXD | \$ORG,4 | ADDRESS OF FIRST REGISTER AVAIALABER | |
| 04010 | 0754 | 00 | 4 | 00000 | 2151 | BKOR PXA | 0,4 | ADDRESS OF FIRST REGISTER FOR ARRAYS | 1.5N3420 |
| 04011 | 0401 | 00 | 0 | 04022 | 2152 | ADM | BLKB | ADDRESS OF END OF BLOCK | 1.5N3430 |
| 04012 | 0621 | 00 | 0 | 04023 | 2153 | STA | BLKC | INITIALIZE STZ LOOP TO CLEAN OUT BLOCK | 1.5N3470 |
| 04013 | 0734 | 00 | 4 | 00000 | 2154 | PAX | 0,4 | | |
| 04014 | 0402 | 00 | 0 | 00371 | 2155 | SUB | \$Q1 | | |
| 04015 | 0621 | 00 | 0 | 04030 | 2156 | STA | BLKBB | | |
| 04016 | -3 | 00000 | 4 | 04044 | 2157 | BLKETP TXL | BLKOUT,4,** | BOTTOM BIT TABLE BAR, GO IF WONT FIT | 1.5N3480 |
| 04017 | -0634 | 00 | 4 | 02304 | 2158 | SXD | \$ORG,4 | UPDATE ORG | |
| 04020 | 0500 | 00 | 4 | 77777 | 2159 | CLA | -1,4 | POINTER TO NEXT WORD ON FULL WORD LIST | |
| 04021 | 0622 | 00 | 0 | 03727 | 2160 | STD | FWORDL | UPDATE FULL WORD LIST | 1.5N3510 |
| 04022 | 0774 | 00 | 4 | 00000 | 2161 | BLKB AXT | ** ,4 | LENGTH OF BLOCK | 1.5N3520 |
| 04023 | 0600 | 00 | 4 | 00000 | 2162 | BLKC STZ | ** ,4 | ZERO THE BLOCK | 1.5N3530 |
| 04024 | 2 | 00001 | 4 | 04023 | 2163 | TIX | *-1,4,1 | | |
| 04025 | 0500 | 00 | 0 | 04030 | 2164 | CLA | BLKBB | GET ANSWER | 1.5N3550 |
| 04026 | 0774 | 00 | 4 | 00000 | 2165 | BLKX AXT | ** ,4 | RESTORE LINK IR | 1.5N3560 |
| 04027 | 0020 | 00 | 4 | 00001 | 2166 | TRA | 1,4 | | 1.5N3570 |
| 04030 | 0 | 00000 | 0 | 00000 | 2167 | BLKBB | | ANSWER STORED HERE | 1.5N3580 |
| | | | | | 2168 | * | | | 1.5N3590 |
| | | | | | 2169 | * | | VARIOUS ENTRANCES TO THE RECLAIMER | 1.5N3600 |
| | | | | | 2170 | * | | | 1.5N3610 |
| | | | | | 2171 | * | | FWLOUT - OUT OF FULL WORD LIST | 1.5N3620 |
| 04031 | 0601 | 00 | 0 | 03726 | 2172 | FWLOUT STO | CSWQ | SAVE FULL WORD | 1.5N3630 |
| 04032 | -0754 | 00 | 0 | 00000 | 2173 | PXD | 0,0 | ZERO AC | 1.5N3640 |
| 04033 | 0600 | 00 | 0 | 03220 | 2174 | STZ | RCRLOC | SIGNAL NO RELOCATION IS NECESSARY | 1.5N3650 |
| 04034 | 0074 | 00 | 4 | 02522 | 2175 | TSX | RECLAM,4 | DO THE WORK | 1.5N3660 |
| 04035 | 0500 | 00 | 0 | 03726 | 2176 | CLA | CSWQ | RESTORE AC | 1.5N3670 |
| 04036 | 0020 | 00 | 0 | 03711 | 2177 | TRA | FWLOR | RETURN TO CONSW | 1.5N3680 |
| | | | | | 2178 | * | | FROUT - OUT OF REE STORAGE | 1.5N3690 |

| | | | | | | | | | | |
|-------|-------|-------|---|-------|------|--------|--------|----------|--|----------|
| 04037 | 0634 | 00 | 4 | 04042 | 2179 | FROUT | SXA | FRX,4 | SAVE LINK IR | |
| 04040 | 0600 | 00 | 0 | 03220 | 2180 | STZ | | RCRLOC | SIGNAL NO RELOCATION NECESSARY | 1.5N3710 |
| 04041 | 0074 | 00 | 4 | 02522 | 2181 | TSX | | RECLAM,4 | DO THE WORK | 1.5N3720 |
| 04042 | 0774 | 00 | 4 | 00000 | 2182 | FRX | AXT | ** ,4 | RESTORE LINK OR | 1.5N3730 |
| 04043 | 0020 | 00 | 4 | 77776 | 2183 | TRA | | -2,4 | NON-STANDARD EXIT | 1.5N3740 |
| | | | | | 2184 | * | | | BLKOUT - OUT OF FULL WORD SPACE FOR ARRAYS | 1.5N3750 |
| 04044 | -0625 | 00 | 0 | 03220 | 2185 | BLKOUT | STL | RCRLOC | SIGNAL RELOCATION NECESSARY | 1.5N3760 |
| 04045 | -0754 | 00 | 0 | 00000 | 2186 | PXD | | 0,0 | CLEAR AC | 1.5N3770 |
| 04046 | -0520 | 00 | 0 | 04056 | 2187 | NZT | | NROOM | FALL THROUGH ON SECOND CONSECUTIVE ENT | 1.5N3780 |
| 04047 | 0020 | 00 | 0 | 04026 | 2188 | TRA | | BLKX | EXIT FROM BLOCKR ROUTINE | 1.5N3790 |
| 04050 | 0074 | 00 | 4 | 02522 | 2189 | TSX | | RECLAM,4 | DO THE WORK | 1.5N3800 |
| 04051 | 0500 | 00 | 0 | 03727 | 2190 | CLA | | FWORDL | PICK UP POINTER TO FIRST AVAILABLE WORD | 1.5N3810 |
| 04052 | 0622 | 00 | 0 | 03721 | 2191 | STD | | LOWARY | SET UP LOWARY | 1.5N3820 |
| 04053 | 0737 | 00 | 4 | 00000 | 2192 | PAC | | 0,4 | COMPLEMENT INTO IR 4 | 1.5N3830 |
| 04054 | 0600 | 00 | 0 | 04056 | 2193 | STZ | | NROOM | SET UP TOO BIG TEST CELL | 1.5N3840 |
| 04055 | 0020 | 00 | 0 | 04010 | 2194 | TRA | | BKOR | DO BLOCK RESERVATION | 1.5N3850 |
| 04056 | 0 | 00000 | 0 | 00000 | 2195 | NROOM | | | | 1.5N3860 |
| | | | | | 2196 | * | | | | 1.5N3870 |
| | | | | | 2197 | * | | | | 1.5P6052 |
| | | | | | 2198 | * | COUNT | | A FUNCTION OF 1 ARGUMENT (A FIXED POINT NUMBER) TURNS ON | 1.5P6053 |
| | | | | | 2199 | * | | | THE CONS COUNTER AND LOADS IT WITH THAT NUMBER | 1.5P6054 |
| | | | | | 2200 | * | | | A LOAD OF NIL SIMPLY LEAVES THE PREVIOUS CONTENTS IN THE | 1.5P6055 |
| | | | | | 2201 | * | | | COUNTER | 1.5P6056 |
| | | | | | 2202 | * | | | | 1.5P6057 |
| 04057 | -0625 | 00 | 0 | 11671 | 2203 | COUNT | STL | TCOUNT | ACTIVATE THE CONS COUNTER | 1.5P6058 |
| 04060 | -0100 | 00 | 0 | 04064 | 2204 | | TNZ | CNTA | GO IF ARGUMENT IS NOT NULL | 1.5P6089 |
| 04061 | 0500 | 00 | 0 | 04107 | 2205 | | CLA | CNTM | OLD VALUE OF CNTR1 | 1.5P6090 |
| 04062 | 0621 | 00 | 0 | 03742 | 2206 | | STA | CNTR1 | PUT IT THERE | 1.5P6091 |
| 04063 | 0020 | 00 | 0 | 04076 | 2207 | | TRA | CNTB | CLEAR AC AND EXIT | 1.5P6092 |
| 04064 | 0634 | 00 | 4 | 04074 | 2208 | CNTA | SXA | CNTX,4 | RELOAD COUNTER WITH FIXED POINT ARG. | 1.5P6060 |
| 04065 | 0634 | 00 | 2 | 04075 | 2209 | | SXA | CNTY,2 | SAVE INDEX REGISTERS | 1.5P6061 |
| 04066 | -0734 | 00 | 2 | 00000 | 2210 | | PDX | 0,2 | ARGUMENT TO INDEX 2 | 1.5P6062 |
| 04067 | 0074 | 00 | 4 | 13075 | 2211 | | TSX | FIXVAL,4 | EVALUATE AS A FIXED POINT NUMBER | 1.5P6063 |
| 04070 | 0601 | 00 | 0 | 04100 | 2212 | | STO | CNTST | SET INITIAL VALUE CELL | 1.5P6064 |
| 04071 | 0621 | 00 | 0 | 03742 | 2213 | | STA | CNTR1 | LOW ORDER 15 BITS TO CNTR1 | 1.5P6065 |
| 04072 | -0320 | 00 | 0 | 00465 | 2214 | | ANA | PDTMSK | MASK OUT LOW ORDER 15 BITS | |
| 04073 | 0601 | 00 | 0 | 04106 | 2215 | | STO | CNTS | STORE REMAINDER IN HIGH ORDER CELL | 1.5P6069 |
| 04074 | 0774 | 00 | 4 | 00000 | 2216 | CNTX | AXT | ** ,4 | RESTORE INDEX REGISTERS | 1.5P6070 |
| 04075 | 0774 | 00 | 2 | 00000 | 2217 | CNTY | AXT | ** ,2 | | 1.5P6071 |
| 04076 | -0754 | 00 | 0 | 00000 | 2218 | CNTB | PXD | 0,0 | GIVE VALUE OF NIL | 1.5P6072 |
| 04077 | 0020 | 00 | 4 | 00001 | 2219 | | TRA | 1,4 | EXIT | 1.5P6073 |
| 04100 | 0 | 00000 | 0 | 00000 | 2220 | CNTST | | | INITIAL VALUE OF COUNT | |
| | | | | | 2221 | * | | | | 1.5P6074 |
| | | | | | 2222 | * | UNCONT | | DEACTIVATES THE CONS COUNTER | 1.5P6075 |
| | | | | | 2223 | * | | | | 1.5P6076 |
| 04101 | 0634 | 00 | 0 | 11671 | 2224 | UNCONT | SXA | TCOUNT,0 | DEACTIVATE THE CONS COUNTER | |
| 04102 | 0500 | 00 | 0 | 03742 | 2225 | | CLA | CNTR1 | GET CURENT CONTENST OF COUNTER | 1.5P6078 |
| 04103 | 0621 | 00 | 0 | 04107 | 2226 | | STA | CNTM | SAVE IN TEMP STORAGE | 1.5P6079 |
| 04104 | -0754 | 00 | 0 | 00000 | 2227 | | PXD | 0,0 | GIVE VALUE OF NULL | 1.5P6080 |
| 04105 | 0020 | 00 | 4 | 00001 | 2228 | | TRA | 1,4 | EXIT | 1.5P6081 |
| | | | | | 2229 | * | | | | 1.5P6082 |
| 04106 | 0 | 00000 | 0 | 00000 | 2230 | CNTS | | | HIGH ORDER BITS OF CONS COUNTER | 1.5P6083 |
| 04107 | 0 | 00000 | 0 | 00000 | 2231 | CNTM | | | TEMPORARY STORAGE | 1.5P6084 |
| 04110 | 0 | 00000 | 1 | 00000 | 2232 | CTG | | ,1 | LOW ORDER BIT OF HIGH ORDER 20 BITS | |

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|-------|-------|-------|---|--------|---|--------|-----|----------|------------------------------------|----------|
| | | | | 2233 * | | | | 1.5P6087 | | |
| | | | | 2234 * | | | | 1.5P6088 | | |
| | | | | 2235 E | HED | | | LC188300 | | |
| | | | | 2236 * | DECON AND NUMNAM | | | RDC10244 | | |
| | | | | 2237 * | | | | RDC10245 | | |
| | | | | 2238 * | DECON TAKES A DECIMAL INTEGER (+ OR -) AS INPUT IN THE AC AND | | | RDC10246 | | |
| | | | | 2239 * | GIVES AS OUTPUT THE BCD REPRESENTATION OF THAT NUMBER. LO ORDER | | | RDC10247 | | |
| | | | | 2240 * | BITS ARE IN AC, HI ORDER BITS IN MQ. LEADING ZEROS ARE | | | RDC10248 | | |
| | | | | 2241 * | SUPPRESSED. IF THERE ARE NO HI ORDER BITS, MQ IS ZERO. THE | | | RDC10249 | | |
| | | | | 2242 * | P BIT AND SIGN OF AC WILL AGREE. | | | RDC10250 | | |
| | | | | 2243 * | | | | RDC10251 | | |
| | | | | 2244 * | NUMNAM TAKES AS INPUT A POINTER TO A DECIMAL INTEGER (+ OR -) AND | | | RDC10252 | | |
| | | | | 2245 * | CAUSES THE BCD REPRESENTATION OF THAT NUMBER TO BE PRINTED, WITH | | | RDC10253 | | |
| | | | | 2246 * | LEADING ZEROS SUPPRESSED. | | | RDC10254 | | |
| | | | | 2247 | | | | RDC10255 | | |
| | | | | 2248 | | | | RDC10256 | | |
| 04111 | 0600 | 00 | 0 | 77662 | 2249 | DECON | STZ | DETS1 | SIGNAL FOR DECON EXIT | RDC10257 |
| 04112 | 0600 | 00 | 0 | 77664 | 2250 | | STZ | DELOD | SET LO ORDER DIGITS TO ZERO | RDC10258 |
| 04113 | 0634 | 00 | 4 | 04176 | 2251 | | SXA | DEIR4,4 | SAVE IR4 | RDC10259 |
| 04114 | 0020 | 00 | 0 | 04121 | 2252 | | TRA | DE7 | | RDC10260 |
| | | | | 2253 | | | | | | RDC10261 |
| 04115 | -0625 | 00 | 0 | 77662 | 2254 | NUMNAM | STL | DETS1 | SIGNAL FOR NUMNAM EXIT | RDC10262 |
| 04116 | 0634 | 00 | 4 | 04176 | 2255 | | SXA | DEIR4,4 | SAVE IR4 | RDC10263 |
| 04117 | -0734 | 00 | 4 | 00000 | 2256 | | PDX | ,4 | PLACE INPUT NUMBER IN AC | RDC10264 |
| 04120 | 0500 | 00 | 4 | 00000 | 2257 | | CLA | 0,4 | | RDC10265 |
| 04121 | -0625 | 00 | 0 | 77663 | 2258 | DE7 | STL | DETS2 | SIGNAL FOR NO HI- ORDER DIGITS | RDC10266 |
| 04122 | 0601 | 00 | 0 | 77667 | 2259 | | STO | DEINP | SAVE INPUT FOR SIGN TEST | RDC10267 |
| 04123 | 0760 | 00 | 0 | 00012 | 2260 | | DCT | | SHUT OFF DIVIDE CHECK LIGHT | RDC10268 |
| 04124 | 0761 | 00 | 0 | 00000 | 2261 | | NOP | | | RDC10269 |
| 04125 | -0130 | 00 | 0 | 00000 | 2262 | | XCL | | NUMBER TO MQ | RDC10270 |
| 04126 | 0774 | 00 | 4 | 00044 | 2263 | | AXT | 36,4 | INDEX FOR SHIFTING | RDC10271 |
| 04127 | 0600 | 00 | 0 | 77665 | 2264 | DE4 | STZ | DEDIG | DEDIG WILL RECIEVE DIGITS | RDC10272 |
| | | | | 2265 | | | | | | RDC10273 |
| 04130 | -0754 | 00 | 0 | 00000 | 2266 | DE1 | PXD | ,0 | | RDC10274 |
| 04131 | 0221 | 00 | 0 | 00402 | 2267 | | DVP | \$Q10 | PUT ANOTHER DIGIT IN DEDIG | RDC10275 |
| 04132 | 0767 | 00 | 4 | 00044 | 2268 | | ALS | 36,4 | | RDC10276 |
| 04133 | -0602 | 00 | 0 | 77665 | 2269 | | ORS | DEDIG | | RDC10277 |
| 04134 | -0600 | 00 | 0 | 77666 | 2270 | | STQ | DEMQ | IF QUOTIENT ZERO, CONVERSION | RDC10278 |
| 04135 | -0520 | 00 | 0 | 77666 | 2271 | | NZT | DEMQ | IS DONE | RDC10279 |
| 04136 | 0020 | 00 | 0 | 04144 | 2272 | | TRA | DE2 | | RDC10280 |
| 04137 | 2 | 00006 | 4 | 04130 | 2273 | | TIX | DE1,4,6 | | RDC10281 |
| | | | | 2274 | | | | | | RDC10282 |
| 04140 | 0500 | 00 | 0 | 77665 | 2275 | | CLA | DEDIG | STORE LO ORDER DIGITS | RDC10283 |
| 04141 | 0601 | 00 | 0 | 77664 | 2276 | | STO | DELOD | | RDC10284 |
| 04142 | 0600 | 00 | 0 | 77663 | 2277 | | STZ | DETS2 | SIGNAL THAT HI ORDER DIGITS EXIST | RDC10285 |
| 04143 | 1 | 00036 | 4 | 04127 | 2278 | | TXI | DE4,4,30 | RESTORE SHIFT INDEX AND LOOP AGAIN | RDC10286 |
| | | | | 2279 | | | | | | RDC10287 |
| 04144 | 0560 | 00 | 0 | 77667 | 2280 | DE2 | LDQ | DEINP | SEE IF MINUS SIGN NEEDED | RDC10288 |
| 04145 | 0162 | 00 | 0 | 04157 | 2281 | | TQP | DEV | | RDC10289 |
| 04146 | 2 | 00006 | 4 | 04154 | 2282 | | TIX | DEQ,4,6 | | RDC10290 |
| | | | | 2283 | | | | | | RDC10291 |
| | | | | 2284 * | | | | | MINUS SIGN BEGINS A NEW WORD | RDC10292 |
| 04147 | 0500 | 00 | 0 | 77665 | 2285 | | CLA | DEDIG | STORE LO ORDER DIGITS | RDC10293 |
| 04150 | 0601 | 00 | 0 | 77664 | 2286 | | STO | DELOD | | RDC10294 |

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|-------|-------|-------|---|-------|------|-------|--------|-----------------------------------|---------------------------------|----------|
| 04151 | 0600 | 00 | 0 | 77663 | 2287 | STZ | DETS2 | SIGNAL THAT HI ORDER DIGITS EXIST | RDC10295 | |
| 04152 | 0600 | 00 | 0 | 77665 | 2288 | STZ | DEDIG | CLEAR DIGITS REGISTER | RDC10296 | |
| 04153 | 0774 | 00 | 4 | 00044 | 2289 | AXT | 36,4 | RESTORE SHIFT INDEX | RDC10297 | |
| 04154 | 0500 | 00 | 0 | 00423 | 2290 | DEQ | CLA | DEMIN | INSERT MINUS SIGN | RDC10298 |
| 04155 | 0767 | 00 | 4 | 00044 | 2291 | | ALS | 36,4 | RDC10299 | |
| 04156 | -0602 | 00 | 0 | 77665 | 2292 | | ORS | DEDIG | RDC10300 | |
| | | | | | 2293 | | | | RDC10301 | |
| 04157 | 0760 | 00 | 0 | 00012 | 2294 | DEV | DCT | | RDC10302 | |
| 04160 | 0074 | 00 | 4 | 01676 | 2295 | | TSX | \$DCT,4 | MACHINE ERROR | |
| 04161 | 0520 | 00 | 0 | 77662 | 2296 | | ZET | DETS1 | SEE WHICH EXIT TO USE | RDC10304 |
| 04162 | 0020 | 00 | 0 | 04200 | 2297 | | TRA | DE5 | RDC10305 | |
| | | | | | 2298 | | | | RDC10306 | |
| | | | | | 2299 | * | DECON | EXIT | RDC10307 | |
| 04163 | -0500 | 00 | 0 | 77665 | 2300 | | CAL | DEDIG | PICK UP DIGITS | RDC10308 |
| 04164 | -3 | 00006 | 4 | 04170 | 2301 | | TXL | DEJ,4,6 | TRANSFER IF FULL WORD OF DIGITS | RDC10309 |
| 04165 | -0765 | 00 | 4 | 00052 | 2302 | | LGR | 42,4 | INSERT LEADING BLANKS | RDC10310 |
| 04166 | -0500 | 00 | 0 | 00472 | 2303 | | CAL | BLANKS | RDC10311 | |
| 04167 | -0763 | 00 | 4 | 00052 | 2304 | | LGL | 42,4 | RDC10312 | |
| 04170 | 0560 | 00 | 0 | 77664 | 2305 | DEJ | LDQ | DELOD | LO ORDER DIGITS OR ZERO - | RDC10313 |
| 04171 | -0520 | 00 | 0 | 77663 | 2306 | | NZT | DETS2 | SEE WHICH | RDC10314 |
| 04172 | -0130 | 00 | 0 | 00000 | 2307 | | XCL | | LO ORDER DIGITS TO AC | RDC10315 |
| 04173 | -0760 | 00 | 0 | 00001 | 2308 | | PBT | | SIGN AND P BIT MUST AGREE | RDC10316 |
| 04174 | 0020 | 00 | 0 | 04176 | 2309 | | TRA | **2 | RDC10317 | |
| 04175 | -0760 | 00 | 0 | 00003 | 2310 | | SSM | | RDC10318 | |
| 04176 | 0774 | 00 | 4 | 00000 | 2311 | DEIR4 | AXT | **4 | RESTORE IR4 AND EXIT | RDC10319 |
| 04177 | 0020 | 00 | 4 | 00001 | 2312 | | TRA | 1,4 | RDC10320 | |
| | | | | | 2313 | | | | RDC10321 | |
| | | | | | 2314 | * | NUMNAM | EXIT | RDC10322 | |
| 04200 | -0500 | 00 | 0 | 77665 | 2315 | DE5 | CAL | DEDIG | INSERT TRAILING SEVENS INTO | RDC10323 |
| 04201 | 0560 | 00 | 0 | 00471 | 2316 | | LDQ | SEVENS | DIGITS WORD | RDC10324 |
| 04202 | -0765 | 00 | 4 | 00052 | 2317 | | LGR | 42,4 | RDC10325 | |
| 04203 | 0131 | 00 | 0 | 00000 | 2318 | | XCA | | RDC10326 | |
| 04204 | 0074 | 00 | 4 | 05110 | 2319 | | TSX | \$PRIN2,4 | PRINT WORD OF DIGITS | RDC10327 |
| 04205 | 0520 | 00 | 0 | 77663 | 2320 | | ZET | DETS2 | SEE IF ANOTHER WORD MUST | RDC10328 |
| 04206 | 0020 | 00 | 0 | 04211 | 2321 | | TRA | DEY | BE PRINTED | RDC10329 |
| 04207 | -0500 | 00 | 0 | 77664 | 2322 | | CAL | DELOD | PRINT LO ORDER DIGITS | RDC10330 |
| 04210 | 0074 | 00 | 4 | 05110 | 2323 | | TSX | \$PRIN2,4 | RDC10331 | |
| | | | | | 2324 | | | | RDC10332 | |
| 04211 | 0534 | 00 | 4 | 04176 | 2325 | DEY | LXA | DEIR4,4 | RESTORE IR4, CLEAR AC, AND EXIT | RDC10333 |
| 04212 | -0754 | 00 | 0 | 00000 | 2326 | | PXD | ,0 | RDC10334 | |
| 04213 | 0020 | 00 | 4 | 00001 | 2327 | | TRA | 1,4 | RDC10335 | |
| | | | | | 2328 | | | | RDC10336 | |
| | | | | | 2329 | | | | RDC10343 | |
| | | | | | 2330 | | | | RDC10344 | |
| | | 00423 | | | 2331 | DEMIN | SYN | \$Q040 | BCD MINUS SIGN | |
| 04214 | | | | | 2332 | DEORG | BSS | | | RDC10346 |
| | | 77662 | | | 2333 | | ORG | COMMON | | RDC10347 |
| 77662 | | | | | 2334 | DETS1 | BSS | 1 | ZERO MEANS DECON EXIT | RDC10348 |
| 77663 | | | | | 2335 | DETS2 | BSS | 1 | ZERO MEANS HI ORDER DIGITS | RDC10349 |
| 77664 | | | | | 2336 | DELOD | BSS | 1 | LO ORDER DIGITS | RDC10350 |
| 77665 | | | | | 2337 | DEDIG | BSS | 1 | CURRENT DIGITS | RDC10351 |
| 77666 | | | | | 2338 | DEMQ | BSS | 1 | MQ FOR ZERO TEST | RDC10352 |
| 77667 | | | | | 2339 | DEINP | BSS | 1 | INPUT NUMBER | RDC10353 |
| | | 04214 | | | 2340 | | ORG | DEORG | | RDC10354 |

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|-------|-------|-------|---|--------|------------|--|---------------|---|
| | | | | 2341 | | | | RDC10355 |
| | | | | 2342 * | | THIS ROUTINE USES COMMON, SEVENS, \$PRIN2, BLANKS, AND \$Q10 | | RDC10356 |
| | | | | 2343 * | | | | RDC10357 |
| | | | | 2344 | | | | LC196600 |
| | | | | 2345 R | HED | | | LC201800 |
| | | | | 2346 | MAPLIS | NEW, FASTER VERSION WITH OPEN SAVE AND CONS | | LC201900 |
| | | | | 2347 * | | | | LC202000 |
| | | | | 2348 | MAPLIS IZF | 1,4 | NULL(L) = NIL | LC202100 |
| 04214 | 0100 | 00 | 4 | 00001 | 2349 | SXD | MS1,4 | SAVE LINK IR |
| 04215 | -0634 | 00 | 4 | 03430 | 2350 | LXD | \$CPPI,4 | GET PDL POINTER |
| 04216 | -0534 | 00 | 4 | 02317 | 2351 | TXI | **+1,4,-6 | SAVE TOTAL OF 6 ITEMS |
| 04217 | 1 | 77772 | 4 | 04220 | 2352 | XEC | \$ENDPDL | TEST FOR OUT OF PUSH DOWN LIST |
| 04220 | 0522 | 00 | 0 | 02414 | 2353 | SXD | \$CPPI,4 | UPDATE PDL POINTER LOCATION |
| 04221 | -0634 | 00 | 4 | 02317 | 2354 | STO | \$ARG1 | SAVE AC |
| 04222 | 0601 | 00 | 0 | 03317 | 2355 | CLA | MS1 | START SAVING LINK IR |
| 04223 | 0500 | 00 | 0 | 03430 | 2356 | STO | -6,4 | |
| 04224 | 0601 | 00 | 4 | 77772 | 2357 | CLA | MS2 | L ARGUMENT |
| 04225 | 0500 | 00 | 0 | 03431 | 2358 | STO | -5,4 | |
| 04226 | 0601 | 00 | 4 | 77773 | 2359 | CLA | MS3 | FUNCTIONAL ARGUMENT |
| 04227 | 0500 | 00 | 0 | 03432 | 2360 | STO | -4,4 | |
| 04230 | 0601 | 00 | 4 | 77774 | 2361 | CLA | MS4 | FINAL ANSWER |
| 04231 | 0500 | 00 | 0 | 03433 | 2362 | STO | -3,4 | |
| 04232 | 0601 | 00 | 4 | 77775 | 2363 | CLA | MS5 | INTERMEDIATE ANSWER |
| 04233 | 0500 | 00 | 0 | 03434 | 2364 | STO | -2,4 | |
| 04234 | 0601 | 00 | 4 | 77776 | 2365 | CLA | MS6 | SAVE MARKER |
| 04235 | 0500 | 00 | 0 | 04344 | 2366 | STO | -1,4 | |
| 04236 | 0601 | 00 | 4 | 77777 | 2367 | CLA | \$ARG1 | SAVING ALL DONE, RESTORE AC |
| 04237 | 0500 | 00 | 0 | 03317 | 2368 | STO | MS2 | PUT L ARGUMENT AWAY |
| 04240 | 0601 | 00 | 0 | 03431 | 2369 | STQ | MS3 | PUT FUNCTIONAL ARGUMENT AWAY |
| 04241 | -0600 | 00 | 0 | 03432 | 2370 | TQP | CMP | IF TRANSFER, F NOT A TXL, SO GO TO COMPAT |
| 04242 | 0162 | 00 | 0 | 04334 | 2371 | TSX | MS3,4 | EXECUTE FUNCTIONAL ARGUMENT |
| 04243 | 0074 | 00 | 4 | 03432 | 2372 | MAIN LXD | \$FREE,4 | START OPEN CONS |
| 04244 | -0534 | 00 | 4 | 03751 | 2373 | TXH | **+2,4,0 | TEST FOR OUT OF FREE STORAGE |
| 04245 | 3 | 00000 | 4 | 04247 | 2374 | TSX | \$FROUT,4 | GO IF NO MORE FS |
| 04246 | 0074 | 00 | 4 | 04037 | 2375 | ARS | 18 | PUT F(L) IN ADDRESS |
| 04247 | 0771 | 00 | 0 | 00022 | 2376 | LDQ | 0,4 | GET NEXT REGISTER ON FSL |
| 04250 | 0560 | 00 | 4 | 00000 | 2377 | SLQ | \$FREE | UPDATE FREE |
| 04251 | -0620 | 00 | 0 | 03751 | 2378 | STO | 0,4 | CONS(F(L),NIL) |
| 04252 | 0601 | 00 | 4 | 00000 | 2379 | SXD | MS4,4 | FINAL ANSWER |
| 04253 | -0634 | 00 | 4 | 03433 | 2380 | SXD | MS5,4 | INT. ANSWER |
| 04254 | -0634 | 00 | 4 | 03434 | 2381 | LXA | \$CNTR1,4 | PICK UP CONS COUNTER |
| 04255 | 0534 | 00 | 4 | 03742 | 2382 | TIX | **+3,4,1 | DECREMENT BY 1 |
| 04256 | 2 | 00001 | 4 | 04261 | 2383 | TSX | ARREST,4 | GO IF OUT OF COUNTER |
| 04257 | 0074 | 00 | 4 | 03752 | 2384 | AXT | -1,4 | RELOAD OF -1 FOR COUNTER |
| 04260 | 0774 | 00 | 4 | 77777 | 2385 | SXA | \$CNTR1,4 | RESTORE CONS COUNTER |
| 04261 | 0634 | 00 | 4 | 03742 | 2386 | MLOP1 LXD | MS2,4 | MAUN LOOP, GET L |
| 04262 | -0534 | 00 | 4 | 03431 | 2387 | CLA | 0,4 | TAKE CDR(L) |
| 04263 | 0500 | 00 | 4 | 00000 | 2388 | PDX | 0,4 | |
| 04264 | -0734 | 00 | 4 | 00000 | 2389 | TXH | MPRG1,4,0 | IF NOT NULL GO ON TO MAIN PROGRAM |
| 04265 | 3 | 00000 | 4 | 04306 | 2390 | CLA | MS4 | ALL DONE, PICK UP FINAL ANSWER |
| 04266 | 0500 | 00 | 0 | 03433 | 2391 | LXD | \$CPPI,4 | START OPEN UNSAVE BY GETTING PDL POINTER |
| 04267 | -0534 | 00 | 4 | 02317 | 2392 | LDQ | -2,4 | |
| 04270 | 0560 | 00 | 4 | 77776 | 2393 | STQ | MS5 | |
| 04271 | -0600 | 00 | 0 | 03434 | 2394 | LDQ | -3,4 | |
| 04272 | 0560 | 00 | 4 | 77775 | | | | LC206400 |

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|-------|----------|----|-------|--------|------|-----------|---|--|--|----------|
| 04273 | -0600 | 00 | 0 | 03433 | 2395 | STQ | MS4 | | LC206300 | |
| 04274 | 0560 | 00 | 4 | 77774 | 2396 | LDQ | -4,4 | | LC206200 | |
| 04275 | -0600 | 00 | 0 | 03432 | 2397 | STQ | MS3 | | LC206500 | |
| 04276 | 0560 | 00 | 4 | 77773 | 2398 | LDQ | -5,4 | | | |
| 04277 | -0600 | 00 | 0 | 03431 | 2399 | STQ | MS2 | | LC206700 | |
| 04300 | 0560 | 00 | 4 | 77772 | 2400 | LDQ | -6,4 | | | |
| 04301 | -0600 | 00 | 0 | 03430 | 2401 | STQ | MS1 | | LC206900 | |
| 04302 | 1 00006 | 4 | 04303 | 2402 | TXI | *+1,4,6 | RESTORE PDL COUNTER | | | |
| 04303 | -0634 | 00 | 4 | 02317 | 2403 | SXD | \$CPPI,4 | SET CPPI | LC207100 | |
| 04304 | -0534 | 00 | 4 | 03430 | 2404 | LXD | MS1,4 | PICK UP LINK IR | LC207200 | |
| 04305 | 0020 | 00 | 4 | 00001 | 2405 | TRA | 1,4 | RETURN | LC207300 | |
| | | | | 2406 * | | | | | LC207400 | |
| 04306 | -0754 | 00 | 4 | 00000 | 2407 | MPRG1 | PXD | 0,4 | MAIN PROGRAM PUT L IN AC | LC207500 |
| 04307 | 0601 | 00 | 0 | 03431 | 2408 | STO | MS2 | SAVE IN L ARGUMENT REGISTER | LC207600 | |
| 04310 | -0534 | 00 | 4 | 03432 | 2409 | LXD | MS3,4 | SEE IF FUNCTIONAL ARG IS S EXPRESSION | LC207700 | |
| 04311 | 3 00012 | 4 | 04340 | 2410 | TXH | CMP1,4,10 | GO IF S EXPRESSION | | LC207800 | |
| 04312 | 0074 | 00 | 4 | 03432 | 2411 | TSX | MS3,4 | EXECUTE FUNCTIONAL ARGUMENT (TXL INS.) | LC207900 | |
| 04313 | -0534 | 00 | 4 | 03751 | 2412 | MAIN1 | LXD | \$FREE,4 | START OPEN CONS | LC208000 |
| 04314 | 3 00000 | 4 | 04316 | 2413 | TXH | *+2,4,0 | TEST FOR OUT OF FREE STORAGE | | LC208100 | |
| 04315 | 0074 | 00 | 4 | 04037 | 2414 | TSX | \$FROUT,4 | GO IF OUT | LC208200 | |
| 04316 | 0560 | 00 | 4 | 00000 | 2415 | LDQ | 0,4 | PICK UP POINTER TO NEXT FREE REGISTER | LC208300 | |
| 04317 | -0620 | 00 | 0 | 03751 | 2416 | SLQ | \$FREE | UPDATE FREE | LC208400 | |
| 04320 | 0771 | 00 | 0 | 00022 | 2417 | ARS | 18 | ITEM TO ADDRESS | LC208500 | |
| 04321 | 0601 | 00 | 4 | 00000 | 2418 | STD | 0,4 | CONS(F(L),NIL) | LC208600 | |
| 04322 | -0754 | 00 | 4 | 00000 | 2419 | PXD | 0,4 | ANSWER TO AC | LC208700 | |
| 04323 | 0534 | 00 | 4 | 03742 | 2420 | LXA | \$CNTR1,4 | PICK UP CONS COUNTER | | |
| 04324 | 2 00001 | 4 | 04327 | 2421 | TIX | *+3,4,1 | DECREMENT BY 1 | | 1.5P7026 | |
| 04325 | 0074 | 00 | 4 | 03752 | 2422 | TSX | ARREST,4 | GO IF OUT OF COUNTER | 1.5P7027 | |
| 04326 | 0774 | 00 | 4 | 77777 | 2423 | AXT | -1,4 | RELOAD OF -1 FOR COUNTER | 1.5P7028 | |
| 04327 | 0634 | 00 | 4 | 03742 | 2424 | SXA | \$CNTR1,4 | RESTORE CONS COUNTER | | |
| 04330 | -0534 | 00 | 4 | 03434 | 2425 | LXD | MS5,4 | PICK UP LAST ANSWER | LC208800 | |
| 04331 | 0622 | 00 | 4 | 00000 | 2426 | STD | 0,4 | CONCATENATE THE ANSWERS BY RPLACD | LC208900 | |
| 04332 | 0601 | 00 | 0 | 03434 | 2427 | STO | MS5 | UPDATE INT. ANSWER | LC209000 | |
| 04333 | 0020 | 00 | 0 | 04262 | 2428 | TRA | MLOP1 | GO TO HEAD OF MAIN LOOP | LC209100 | |
| | | | | 2429 * | | | | | LC209200 | |
| 04334 | -0620 | 00 | 0 | 04336 | 2430 | CMP | SLQ | *+2 | COMPAT CALL FOR S EXPRESSION FUN. ARG. | LC209300 |
| 04335 | 0074 | 00 | 4 | 12007 | 2431 | TSX | COMPAT,4 | | LC209400 | |
| 04336 | 0 00000 | 0 | 00001 | 2432 | | | 1,,** | FUNCTION OF 1 ARGUMENT | LC209500 | |
| 04337 | 0020 | 00 | 0 | 04244 | 2433 | TRA | MAIN | GO BACK TO MAIN PROGRAM | LC209600 | |
| | | | | 2434 * | | | | | LC209700 | |
| 04340 | -0634 | 00 | 4 | 04342 | 2435 | CMP1 | SXD | *+2,4 | ANOTHER COMPAT CALL | LC209800 |
| 04341 | 0074 | 00 | 4 | 12007 | 2436 | TSX | COMPAT,4 | | LC209900 | |
| 04342 | 0 00000 | 0 | 00001 | 2437 | | | 1,,** | | LC210000 | |
| 04343 | 0020 | 00 | 0 | 04313 | 2438 | TRA | MAIN1 | RETURN TO MAIN PROGRAM | LC210100 | |
| | | | | 2439 * | | | | | LC210200 | |
| 04344 | -3 03436 | 0 | 02371 | 2440 | MS6 | TXL | \$END5,,MS5+2 | SAVE 5 ITEMS | | |
| | | | | 2441 | | | | | LC210900 | |
| | | | | 2442 | | | FUNCTION COPY | | LC211000 | |
| | | | | 2443 | | | COPY(L)= (L=0 YIELDS 0, CAR(L)=-1 YIELDS L, | | LC211100 | |
| | | | | 2444 | | | OTHERWISE CONS(COPY(CAR(L)),COPY(CDR(L)))) | | LC211200 | |
| | | | | 2445 | R | HED | | | LC211300 | |
| 04345 | 0100 | 00 | 4 | 00001 | 2446 | COPY | TZE 1,4 | L=0 | LC211400 | |
| 04346 | -0634 | 00 | 4 | 03357 | 2447 | SXD | CS1,4 | | LC211500 | |
| 04347 | -0734 | 00 | 4 | 00000 | 2448 | PDX | 0,4 | L | LC211600 | |

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|-------|-------|-------|---|-------|------|---|--------------|----------|
| 04350 | -0634 | 00 | 4 | 04377 | 2449 | SXD CT1,4 | L | LC211700 |
| 04351 | 0500 | 00 | 4 | 00000 | 2450 | CLA 0,4 | CWR(L) | LC211800 |
| 04352 | 0734 | 00 | 4 | 00000 | 2451 | PAX 0,4 | CAR(L) | LC211900 |
| 04353 | -3 | 77776 | 4 | 04357 | 2452 | TXL C1,4,-2 | CAR(L)=-1 | LC212000 |
| 04354 | 0500 | 00 | 0 | 04377 | 2453 | CLA CT1 | L | LC212100 |
| 04355 | -0534 | 00 | 4 | 03357 | 2454 | LXD CS1,4 | | LC212200 |
| 04356 | 0020 | 00 | 4 | 00001 | 2455 | TRA 1,4 | | LC212300 |
| 04357 | 0074 | 00 | 4 | 02312 | 2456 | TSX \$SAVE,4 | C1 | LC212400 |
| 04360 | -3 | 03362 | 0 | 02377 | 2457 | TXL \$END2,,CS2+2 | SAVE 2 ITEMS | |
| 04361 | -0534 | 00 | 4 | 04377 | 2458 | LXD CT1,4 | L | LC212600 |
| 04362 | 0500 | 00 | 4 | 00000 | 2459 | CLA 0,4 | CWR(L) | LC212700 |
| 04363 | 0601 | 00 | 0 | 03360 | 2460 | STQ CS2 | | LC212800 |
| 04364 | -0320 | 00 | 0 | 00460 | 2461 | ANA DECM | CDR(L) | LC212900 |
| 04365 | 0074 | 00 | 4 | 04345 | 2462 | TSX COPY,4 | COPY(CDR(L)) | LC213000 |
| 04366 | 0534 | 00 | 4 | 03360 | 2463 | LXA CS2,4 | CAR(L) | LC213100 |
| 04367 | 0601 | 00 | 0 | 03360 | 2464 | STQ CS2 | COPY(CDR(L)) | LC213200 |
| 04370 | -0754 | 00 | 4 | 00000 | 2465 | PXD 0,4 | | LC213300 |
| 04371 | 0074 | 00 | 4 | 04345 | 2466 | TSX COPY,4 | COPY(CAR(L)) | LC213400 |
| 04372 | 0560 | 00 | 0 | 03360 | 2467 | LDQ CS2 | | LC213500 |
| 04373 | 0074 | 00 | 4 | 03730 | 2468 | TSX \$CONS,4 | | LC213600 |
| 04374 | 0074 | 00 | 4 | 02326 | 2469 | TSX UNSAVE,4 | | LC213700 |
| 04375 | -0534 | 00 | 4 | 03357 | 2470 | LXD CS1,4 | | LC213900 |
| 04376 | 0020 | 00 | 4 | 00001 | 2471 | TRA 1,4 | | LC214000 |
| 04377 | 0 | 00000 | 0 | 00000 | 2472 | CT1 | | LC214300 |
| | | | | 00460 | 2473 | DECM SYN \$DMASK | | 1.5L3230 |
| | | | | | 2474 | | | LC219100 |
| | | | | | 2475 | FUNCTION SEARCH | | LC219200 |
| | | | | | 2476 | SEARCH(L,P,F,U)=(L=0 YIELDS U,P(L) YIELDS F(L), | | LC219300 |
| | | | | | 2477 | OTHERWISE SEARCH (CDR(L),P,F,U)) | | LC219400 |
| | | | | | 2478 | | | LC219500 |
| | | | | | 2479 | R HED | | LC219600 |
| 04400 | -0634 | 00 | 4 | 03454 | 2480 | SEARCH SXD SRS1,4 | | |
| 04401 | 0074 | 00 | 4 | 02312 | 2481 | TSX \$SAVE,4 | | LC221200 |
| 04402 | -3 | 03462 | 0 | 02371 | 2482 | TXL \$END5,,SRS5+2 | SAVE 5 ITEMS | |
| 04403 | -0600 | 00 | 0 | 03456 | 2483 | STQ SRS3 | P | LC221500 |
| 04404 | 0100 | 00 | 0 | 04445 | 2484 | TZE SR3 SR4 | | |
| 04405 | 0601 | 00 | 0 | 03455 | 2485 | STQ SRS2 | L | LC221400 |
| 04406 | 0560 | 00 | 0 | 03321 | 2486 | LDQ \$ARG3 | F | LC221600 |
| 04407 | -0600 | 00 | 0 | 03457 | 2487 | STQ SRS4 | | LC221700 |
| 04410 | 0560 | 00 | 0 | 03322 | 2488 | LDQ \$ARG4 | U | LC221800 |
| 04411 | -0600 | 00 | 0 | 03460 | 2489 | STQ SRS5 | | LC221900 |
| 04412 | -0534 | 00 | 4 | 03456 | 2490 | LXD SRS3,4 | | LC222000 |
| 04413 | 3 | 00012 | 4 | 04416 | 2491 | TXH **3,4,10 | | LC222100 |
| 04414 | 0074 | 00 | 4 | 03456 | 2492 | TSX SRS3,4 | | LC222200 |
| 04415 | 0020 | 00 | 0 | 04421 | 2493 | TRA **4 | | LC222300 |
| 04416 | -0634 | 00 | 4 | 04420 | 2494 | SXD **2,4 | | LC222400 |
| 04417 | 0074 | 00 | 4 | 12007 | 2495 | TSX COMPAT,4 | | LC222500 |
| 04420 | 0 | 00000 | 0 | 00001 | 2496 | 1,** | | LC222600 |
| 04421 | 0100 | 00 | 0 | 04435 | 2497 | TZE SR1 | NOT P(L) | LC222700 |
| 04422 | 0500 | 00 | 0 | 03455 | 2498 | CLA SRS2 | L | LC222800 |
| 04423 | -0534 | 00 | 4 | 03457 | 2499 | LXD SRS4,4 | | LC222900 |
| 04424 | 3 | 00012 | 4 | 04427 | 2500 | TXH **3,4,10 | | LC223000 |
| 04425 | 0074 | 00 | 4 | 03457 | 2501 | TSX SRS4,4 | | LC223100 |
| 04426 | 0020 | 00 | 0 | 04432 | 2502 | TRA **4 | | LC223200 |

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|-------|-------|-------|---|-------|------|--------|---|----------|-----------------------------------|----------|
| 04427 | -0634 | 00 | 4 | 04431 | 2503 | SXD | **2,4 | | LC223300 | |
| 04430 | 0074 | 00 | 4 | 12007 | 2504 | TSX | COMPAT,4 | | LC223400 | |
| 04431 | 0 | 00000 | 0 | 00001 | 2505 | | 1,** | | LC223500 | |
| 04432 | 0074 | 00 | 4 | 02326 | 2506 | TSX | UNSAVE,4 | | LC223600 | |
| 04433 | -0534 | 00 | 4 | 03454 | 2507 | LXD | SRS1,4 | | LC223800 | |
| 04434 | 0020 | 00 | 4 | 00001 | 2508 | TRA | 1,4 | | LC223900 | |
| 04435 | 0500 | 00 | 0 | 03460 | 2509 | SR1 | CLA | SRS5 | 1 YIELDS | LC224000 |
| 04436 | 0601 | 00 | 0 | 03322 | 2510 | STO | \$ARG4 | | U | LC224100 |
| 04437 | 0500 | 00 | 0 | 03457 | 2511 | CLA | SRS4 | | | LC224200 |
| 04440 | 0601 | 00 | 0 | 03321 | 2512 | STO | \$ARG3 | | F | LC224300 |
| 04441 | -0534 | 00 | 4 | 03455 | 2513 | LXD | SRS2,4 | | L | LC224400 |
| 04442 | 0500 | 00 | 4 | 00000 | 2514 | CLA | 0,4 | | | LC224500 |
| 04443 | -0320 | 00 | 0 | 00460 | 2515 | ANA | DECM | | CDR(L) | LC224600 |
| 04444 | 0020 | 00 | 0 | 04404 | 2516 | TRA | SR3 | | | |
| 04445 | 0074 | 00 | 4 | 02326 | 2517 | SR4 | TSX | UNSAVE,4 | | |
| 04446 | -0534 | 00 | 4 | 03322 | 2518 | LXD | \$ARG4,4 | | | LC219900 |
| 04447 | 3 | 00012 | 4 | 04452 | 2519 | TXH | SRCMPT,4,10 | | | LC220000 |
| 04450 | -0534 | 00 | 4 | 03454 | 2520 | LXD | SRS1,4 | | | LC220100 |
| 04451 | 0020 | 00 | 0 | 03322 | 2521 | TRA | \$ARG4 | | | LC220200 |
| | | | | 2522 | * | | | | | LC220300 |
| 04452 | 0600 | 00 | 0 | 03321 | 2523 | SRCMPT | STZ | \$ARG3 | | LC220400 |
| 04453 | 0560 | 00 | 0 | 03321 | 2524 | LDQ | \$ARG3 | | | LC220500 |
| 04454 | 0074 | 00 | 4 | 03730 | 2525 | TSX | \$CONS,4 | | | LC220600 |
| 04455 | 0131 | 00 | 0 | 00000 | 2526 | XCA | | | | LC220700 |
| 04456 | 0500 | 00 | 0 | 03322 | 2527 | CLA | \$ARG4 | | | LC220800 |
| 04457 | -0534 | 00 | 4 | 03454 | 2528 | LXD | SRS1,4 | | | LC220900 |
| 04460 | 0020 | 00 | 0 | 14663 | 2529 | TRA | \$APPLY | | | LC221000 |
| | | | | 2530 | | | | | | LC225700 |
| | | | | 2531 | | | FUNCTION EQUAL | | | LC225800 |
| | | | | 2532 | | | EQUAL(L1,L2)=(L1=L2 YIELDS1,L1=OVL2=0 YIELDS 0, | | | LC225900 |
| | | | | 2533 | | | CAR(L1)=-IVCAR(L2)=-1 YIELDS 0, OTHERWISE | | | LC226000 |
| | | | | 2534 | | | EQUAL(CAR(L1),CAR(L2))AEQUAL(CDR(L1),CDR(L2))) | | | LC226100 |
| | | | | 2535 | | | | | | LC226200 |
| | | | | 2536 | L | HED | | | | LC226300 |
| | | | | 2537 | * | EQUAL | A FUNCTION OF 2 ARGUMENTS DETERMINES WETHER 2 LIST | | | RDCX0603 |
| | | | | 2538 | * | | STRUCTURES ARE EQUIVELENT. REPROGRAMMED 5 OCTOBER 1960 | | | RDCX0604 |
| | | | | 2539 | * | | TO MAKE USE OF THE NUMBER CONVENTIONS CURRENTLY IN USE. | | | RDCX0605 |
| | | | | 2540 | * | | | | | RDCX0606 |
| 04461 | -0634 | 00 | 4 | 04600 | 2541 | EQUAL | SXD | EQXR,4 | SAVE LINK IR | RDCX0607 |
| 04462 | -0600 | 00 | 0 | 04602 | 2542 | STQ | EQL2 | | SAVE ARGUMENT 2 | RDCX0609 |
| 04463 | 0601 | 00 | 0 | 04601 | 2543 | STO | EQL1 | | SAVE ARGUMENT 1 | RDCX0610 |
| 04464 | 0402 | 00 | 0 | 04602 | 2544 | EQLP | SUB | EQL2 | EQ TEST | RDCX0611 |
| 04465 | 0100 | 00 | 0 | 04516 | 2545 | TZE | EQT | | TWO LIST ARE EQ, EXIT TRUE | RDCX0612 |
| 04466 | -0520 | 00 | 0 | 04601 | 2546 | NZT | EQL1 | | SKIP IF L1 NON NULL | RDCX0613 |
| 04467 | 0020 | 00 | 0 | 04521 | 2547 | TRA | EQF | | L1 NULL BUT NOT EQ L2, EXIT FALSE | RDCX0614 |
| 04470 | -0520 | 00 | 0 | 04602 | 2548 | NZT | EQL2 | | NULL TEST L2 | RDCX0615 |
| 04471 | 0020 | 00 | 0 | 04521 | 2549 | TRA | EQF | | L2 NULL BUT NOT EQ L1, EXIT FALSE | RDCX0616 |
| 04472 | -0534 | 00 | 4 | 04602 | 2550 | LXD | EQL2,4 | | PICK UP LIST 2 | RDCX0617 |
| 04473 | 0500 | 00 | 4 | 00000 | 2551 | CLA | 0,4 | | GET NEXT ELEMENT | RDCX0618 |
| 04474 | 0622 | 00 | 0 | 04602 | 2552 | STD | EQL2 | | SAVE CDR OF LIST 2 | RDCX0619 |
| 04475 | 0734 | 00 | 4 | 00000 | 2553 | PAX | 0,4 | | CAR OF LIST 2 | RDCX0620 |
| 04476 | 3 | 77776 | 4 | 04524 | 2554 | TXH | EQA,4,-2 | | GO IF ATOM | RDCX0621 |
| 04477 | -0754 | 00 | 4 | 00000 | 2555 | PXD | 0,4 | | CAR OF LIST TO DECREMENT OF AC | RDCX0622 |
| 04500 | 0131 | 00 | 0 | 00000 | 2556 | XCA | | | SWITCH TO MQ | RDCX0623 |

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|-------|----------|----|-------|-------|------|----------------|-----------|--------------------------------------|-----------------------------------|----------|
| 04501 | -0534 | 00 | 4 | 04601 | 2557 | LXD | EQL1,4 | PICK UP LIST 1 | RDCX0624 | |
| 04502 | 0500 | 00 | 4 | 00000 | 2558 | CLA | 0,4 | GET NEXT ELEMENT | RDCX0625 | |
| 04503 | 0622 | 00 | 0 | 04601 | 2559 | STD | EQL1 | SAVE CDR OF LIST 1 | RDCX0626 | |
| 04504 | 0734 | 00 | 4 | 00000 | 2560 | PAX | 0,4 | CAR OF LIST TO IR 4 | RDCX0627 | |
| 04505 | 3 77776 | 4 | 04521 | 2561 | TXH | EQF,4,-2 | | GO TO FALSE EXIT IF THIS IS AN ATOM | RDCX0628 | |
| 04506 | -0754 | 00 | 4 | 00000 | 2562 | PXD | 0,4 | CAR OF LIST TO DECREMENT OF AC | RDCX0629 | |
| 04507 | 0074 | 00 | 4 | 02312 | 2563 | TSX | \$SAVE,4 | SAVE CALL | RDCX0630 | |
| 04510 | -3 04604 | 0 | 02375 | 2564 | TXI | \$END3,,EQL2+2 | | SAVE 3 ITEMS | | |
| 04511 | 0074 | 00 | 4 | 04461 | 2565 | TSX | \$EQUAL,4 | TEST FOR EQUALITY IN CAR DIRECTION | RDCX0632 | |
| 04512 | 0074 | 00 | 4 | 02326 | 2566 | TSX | UNSAVE,4 | UNSAVE CALL | RDCX0633 | |
| 04513 | 0100 | 00 | 0 | 04521 | 2567 | TZE | EQF | WHOLE LIST IS FALSE IF CAR DIRECTION | RDCX0635 | |
| 04514 | 0500 | 00 | 0 | 04601 | 2568 | CLA | EQL1 | PICK UP REST OF LIST 1 | RDCX0636 | |
| 04515 | 0020 | 00 | 0 | 04464 | 2569 | TRA | EQLP | TEST EQUALITY IN CDR DIRECTION | RDCX0637 | |
| | | | | 2570 | * | | | | RDCX0638 | |
| 04516 | 0500 | 00 | 0 | 00442 | 2571 | EQT | CLA | \$QD1 | TRUE EXIT, PICK UP 1 IN DECREMENT | RDCX0639 |
| 04517 | -0534 | 00 | 4 | 04600 | 2572 | LXD | EQXR,4 | RESTORE LINK IR | RDCX0641 | |
| 04520 | 0020 | 00 | 4 | 00001 | 2573 | TRA | 1,4 | | RDCX0642 | |
| | | | | 2574 | * | | | | RDCX0643 | |
| 04521 | -0754 | 00 | 0 | 00000 | 2575 | EQF | PXD | 0,0 | FALSE EXIT, CLEAR AC | RDCX0644 |
| 04522 | -0534 | 00 | 4 | 04600 | 2576 | LXD | EQXR,4 | RESTORE LINK IR | RDCX0646 | |
| 04523 | 0020 | 00 | 4 | 00001 | 2577 | TRA | 1,4 | EXIT | RDCX0647 | |
| | | | | 2578 | * | | | | RDCX0648 | |
| 04524 | 0560 | 00 | 0 | 04601 | 2579 | EQA | LDQ | EQL1 | | |
| 04525 | -0774 | 00 | 4 | 04527 | 2580 | AXC | EQAR,4 | | | |
| 04526 | 0634 | 00 | 4 | 04574 | 2581 | SXA | EQPX,4 | | | |
| 04527 | 0020 | 00 | 0 | 04542 | 2582 | EQAR | TRA | EQPE | | |
| 04530 | 0100 | 00 | 0 | 04521 | 2583 | TZE | EQF | | | |
| 04531 | 0020 | 00 | 0 | 04516 | 2584 | TRA | EQT | | | |
| | | | | 2585 | * | | | | | |
| | | | | 2586 | * | | | | | |
| | | | | 2587 | * | | | | | |
| | | | | 2588 | * | | | | | |
| | | | | 2589 | * | | | | | |
| | | | | 2587 | * | | | | | |
| | | | | 2588 | * | | | | | |
| | | | | 2589 | * | | | | | |
| | | | | 2587 | * | | | | | |
| | | | | 2588 | * | | | | | |
| | | | | 2589 | * | | | | | |
| 04532 | 0040 | 00 | 0 | 04537 | 2589 | EQP | TLQ | EQPF | | |
| 04533 | 0131 | 00 | 0 | 00000 | 2590 | XCA | | | | |
| 04534 | 0040 | 00 | 0 | 04537 | 2591 | TLQ | | EQPF | | |
| 04535 | 0500 | 00 | 0 | 00442 | 2592 | EQPTX | CLA | \$QD1 | | |
| 04536 | 0020 | 00 | 4 | 00001 | 2593 | TRA | 1,4 | | | |
| 04537 | 0634 | 00 | 4 | 04574 | 2594 | EQPF | SXA | EQPX,4 | | |
| 04540 | -0734 | 00 | 4 | 00000 | 2595 | PDX | 0,4 | | | |
| 04541 | 0500 | 00 | 4 | 00000 | 2596 | CLA | 0,4 | | | |
| 04542 | -0734 | 00 | 4 | 00000 | 2597 | EQPE | PDX | 0,4 | | |
| 04543 | -0320 | 00 | 0 | 00470 | 2598 | ANA | TAGMSK | | | |
| 04544 | 0100 | 00 | 0 | 04573 | 2599 | TZE | EQPFX | | | |
| 04545 | 0601 | 00 | 0 | 04576 | 2600 | STO | EQPT | | | |
| 04546 | 0500 | 00 | 4 | 00000 | 2601 | CLA | 0,4 | | | |
| 04547 | 0131 | 00 | 0 | 00000 | 2602 | XCA | | | | |
| 04550 | -0734 | 00 | 4 | 00000 | 2603 | PDX | 0,4 | | | |
| 04551 | 0500 | 00 | 4 | 00000 | 2604 | CLA | 0,4 | | | |
| 04552 | -0734 | 00 | 4 | 00000 | 2605 | PDX | 0,4 | | | |
| 04553 | -0320 | 00 | 0 | 00470 | 2606 | ANA | TAGMSK | | | |
| 04554 | -0320 | 00 | 0 | 04576 | 2607 | ANA | EQPT | | | |
| 04555 | 0100 | 00 | 0 | 04573 | 2608 | TZE | EQPFX | | | |
| 04556 | -0320 | 00 | 0 | 00436 | 2609 | ANA | \$QT1 | | | |
| 04557 | 0601 | 00 | 0 | 04576 | 2610 | STO | EQPT | | | |

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|-------|-------|-------|---|-------|------|---|--------------|-------------------------------|----------|
| 04560 | 0500 | 00 | 4 | 00000 | 2611 | CLA | 0,4 | | |
| 04561 | 0601 | 00 | 0 | 04577 | 2612 | STD | EQPS | | |
| 04562 | 0131 | 00 | 0 | 00000 | 2613 | XCA | | | |
| 04563 | 0402 | 00 | 0 | 04577 | 2614 | SUB | EQPS | | |
| 04564 | 0534 | 00 | 4 | 04574 | 2615 | LXA | EQPX,4 | | |
| 04565 | 0100 | 00 | 0 | 04535 | 2616 | TZE | EQPTX | | |
| 04566 | 0520 | 00 | 0 | 04576 | 2617 | ZET | EQPT | | |
| 04567 | 0020 | 00 | 0 | 04573 | 2618 | TRA | EQPFX | | |
| 04570 | 0760 | 00 | 0 | 00003 | 2619 | SSP | | | |
| 04571 | 0402 | 00 | 0 | 14623 | 2620 | SUB | FLOTOL | | |
| 04572 | -0120 | 00 | 0 | 04535 | 2621 | TMI | EQPTX | | |
| 04573 | -0754 | 00 | 0 | 00000 | 2622 | EQPFX | PXD | 0,0 | |
| 04574 | 0774 | 00 | 4 | 00000 | 2623 | EQPX | AXT | ** ,4 | |
| 04575 | 0020 | 00 | 4 | 00001 | 2624 | TRA | 1,4 | | |
| 04576 | 0 | 00000 | 0 | 00000 | 2625 | EQPT | | TEST CELL NON 0 YIELDS FIX | |
| 04577 | 0 | 00000 | 0 | 00000 | 2626 | EQPS | | STORAGE | |
| 04600 | 0 | 00000 | 0 | 10241 | 2627 | EQXR | \$F8 | INDEX REGISTER STORAGE | RDCX0687 |
| 04601 | 0 | 00000 | 0 | 00000 | 2628 | EQL1 | | LIST 1 STORAGE | RDCX0688 |
| 04602 | 0 | 00000 | 0 | 00000 | 2629 | EQL2 | | LIST 2 STORAGE | RDCX0689 |
| 04603 | 0 | 00000 | 0 | 00000 | 2630 | EQTS | | TEST CELL 0 FIX, NON 0 FLO | RDCX0690 |
| | | | | 2631 | * | | | | RDCX0691 |
| | | | | 2632 | * | EQUAL USES \$SAVE,\$QD1,UNSAVE,\$EQUAL AND FIXFLO | | | RDCX0692 |
| | | | | 2633 | | | | | LC233300 |
| | | | | 2634 | | PRINT | | MAY 14,1959 | LC233400 |
| | | | | 2635 | | | | | LC233500 |
| | | | | 2636 | | | | | LC233600 |
| | | | | 2637 | | PRINT(L)=(CAR(L)=-1 YIELDS PRIN1(L),1 YIELDS | | | LC233700 |
| | | | | 2638 | | {PRIN2{LPAR2},PRINT(CAR(L)),{CDR(L)=0YIELDS | | | LC233800 |
| | | | | 2639 | | PRIN2(RPAR2),1 YIELDS(PRIN2(COMMA2),PRINT | | | LC233900 |
| | | | | 2640 | | {CDR(L))})} | | | LC234000 |
| | | | | 2641 | | | | | LC234100 |
| | | | | 2642 | | THE LIST L IS PRINTED IN THE RESTRICTED NOTATION | | | LC234200 |
| | | | | 2643 | | | | | LC234300 |
| | | | | 2644 | | PRINT REQUIRES THE SUBROUTINES PRIN1,PRIN2, | | | LC234400 |
| | | | | 2645 | | TERPRI,MISPH2(OR UASPH2) ALL HEADED BY P | | | LC234500 |
| | | | | 2646 | | AND SAVE,UNSAVE,ERROR UNHEADED | | | LC234600 |
| | | | | 2647 | | | | | LC234700 |
| | | | | 2648 | T | HED | | | LC234800 |
| | | | | 2649 | | | | | LC234900 |
| | | | | 2650 | | PRINT MASTERMINDER | | | LC235000 |
| | | | | 2651 | | | | | LC235100 |
| 04604 | 0634 | 00 | 4 | 04614 | 2652 | PRINT SXA | PRPS1,4 | SAVE LINK IR | |
| 04605 | -0534 | 00 | 4 | 02317 | 2653 | LXD | \$CPPI,4 | SAVE CURRENT CONTENTS OF CPPI | 1.5L3240 |
| 04606 | -0634 | 00 | 4 | 05307 | 2654 | SXD | PCPPI,4 | | 1.5L3250 |
| 04607 | 0600 | 00 | 0 | 05310 | 2655 | STZ | WALLPC | ZERO WALL PAPER COUNTER | 1.5L3260 |
| 04610 | 0601 | 00 | 0 | 03453 | 2656 | STU | PRINTL | SAVE THE ARGUMENT | |
| 04611 | 0074 | 00 | 4 | 04620 | 2657 | PSX | PRINO,4 | | LC235500 |
| 04612 | 0074 | 00 | 4 | 05214 | 2658 | PRTT1 | TSX TERPRI,4 | | LC235600 |
| 04613 | 0500 | 00 | 0 | 03453 | 2659 | CLA | PRINTL | RESTORE THE ARGUMENT | |
| 04614 | 0774 | 00 | 4 | 00000 | 2660 | PRPS1 | AXT | RESTORE LINK IR | |
| 04615 | 0020 | 00 | 4 | 00001 | 2661 | TRA | 1,4 | | LC235900 |
| 04616 | 0500 | 00 | 0 | 04673 | 2662 | PRNIL | CLA PRBLW | PICK UP NIL REPRESENTATION | 1.5L3310 |
| 04617 | 0020 | 00 | 0 | 05110 | 2663 | TRA | \$PRIN2 | PUT IN PRINT LINE AND EXIT | |
| 04620 | -0634 | 00 | 4 | 04674 | 2664 | PRINO | SXD PS1,4 | | LC236200 |

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|------|-------|--------------|-------|---|-------|------|-------|---|-----------------------------------|----------|
| | | | | | 2719 | | | | | LC241000 |
| | | | | | 2720 | | | | | LC241100 |
| | | | | | 2721 | | | SUBROUTINE(PRINI(L)) | | LC241200 |
| | | | | | 2722 | / | | CAR(L) N=-1 YIELDS ERROR | | LC241300 |
| | | | | | 2723 | | | ST = L | | LC241400 |
| | | | | | 2724 | A1 | | CDR(L) = 0 YIELDS ERROR | | LC241500 |
| | | | | | 2725 | | | L = CDR(L) | | LC241600 |
| | | | | | 2726 | | | CAR(L) = PNAME YIELDS GO(A3) | | LC241700 |
| | | | | | 2727 | | | CAR(L) N= FLOAT YIELDS GO(A1) | | LC241800 |
| | | | | | 2728 | | | L = CAR(CDR(L)) | | LC241900 |
| | | | | | 2729 | | | VAL = FLONAM(L) | | LC242000 |
| | | | | | 2730 | | | REPLACD(CONS(PNAME,CONS(VAL,CDR(ST))),ST) | | LC242100 |
| | | | | | 2731 | | | L = CDR(ST) | | LC242200 |
| | | | | | 2732 | A3 | | L = CAR(CDR(L)) | | LC242300 |
| | | | | | 2733 | A2 | | PRIN2(CWR(CAR(L))) | | LC242400 |
| | | | | | 2734 | | | L = CDR(L) | | LC242600 |
| | | | | | 2735 | | | | L=0 YIELDS RETURN | |
| | | | | | 2736 | */ | | GO(A2) | | LC242700 |
| | | | | | 2737 | | | | | LC242800 |
| 4721 | 04703 | -0634 | 00 | 4 | 05072 | 2738 | PRIN1 | SXD PR1,4 | | LC242900 |
| | 04704 | 0601 | 00 | 0 | 05071 | 2739 | | STO PRSS | SAVE OBJECT | LC243000 |
| | 04705 | -0734 | 00 | 4 | 00000 | 2740 | | PDX ,4 | | LC243100 |
| | 04706 | 0500 | 00 | 4 | 00000 | 2741 | | CLA ,4 | | LC243200 |
| | 04707 | 0625 | 00 | 0 | 05103 | 2742 | | STT PTTGR | | |
| | 04710 | -0320 | 00 | 0 | 00457 | 2743 | | ANA ADDM | | LC243300 |
| | 04711 | 0402 | 00 | 0 | 00457 | 2744 | | SUB ADDM | | LC243400 |
| | 04712 | 0100 | 00 | 0 | 04720 | 2745 | | TZE PR3 | CAR(L) N=-1 YIELDS ERROR | LC243500 |
| | 04713 | -0634 | 00 | 4 | 01562 | 2746 | PR2 | SXD \$ERRDR,4 | | LC243600 |
| | 04714 | 0074 | 00 | 4 | 05214 | 2747 | | TSX TERPRI,4 | | LC243700 |
| | 04715 | -0754 | 00 | 0 | 00000 | 2748 | | PXD 0,0 | | |
| | 04716 | 0074 | 00 | 4 | 01563 | 2749 | | TSX \$ERROR+1,4 | | LC243800 |
| | 04717 | 544760600154 | | | 2750 | | | BCI 1,*P 1* | TRIED TO PRINT NON-OBJECT -PRINI- | |
| | | | | | 00457 | 2751 | ADDM | SYN \$AMASK | | |
| | 04720 | 0520 | 00 | 0 | 05103 | 2752 | PR3 | ZET PTTGR | | |
| | 04721 | 0020 | 00 | 0 | 04733 | 2753 | | TRA PR3N | | |
| | 04722 | 0500 | 00 | 4 | 00000 | 2754 | | CLA 0,4 | FIRST WORD OF ATOM | PNPAA//I |
| | 04723 | 0020 | 00 | 0 | 04726 | 2755 | | TRA **3 | | |
| | 04724 | -3 | 07334 | 4 | 04726 | 2756 | PR3P | TXL **2,4,\$PNAME-1 | | |
| | 04725 | -3 | 07335 | 4 | 04750 | 2757 | | TXL PA3,4,\$PNAME | | |
| | 04726 | -0734 | 00 | 4 | 00000 | 2758 | | PDX 0,4 | CDR | PNPA0022 |
| | 04727 | -3 | 00000 | 4 | 05056 | 2759 | | TXL PR5,4,0 | UNPRINTABLE | |
| | 04730 | 0500 | 00 | 4 | 00000 | 2760 | | CLA 0,4 | NEXT WORD | PNPA0002 |
| | 04731 | 0734 | 00 | 4 | 00000 | 2761 | | PAX 0,4 | | |
| | 04732 | 0020 | 00 | 0 | 04724 | 2762 | | TRA PR3P | EXAMINE WORD | PNPA0026 |
| | 04733 | -0534 | 00 | 4 | 05071 | 2763 | PR3N | LXD PRSS,4 | | |
| | 04734 | 0500 | 00 | 4 | 00000 | 2764 | | CLA 0,4 | | |
| | 04735 | -0734 | 00 | 4 | 00000 | 2765 | | PDX 0,4 | | |
| | 04736 | 0634 | 00 | 4 | 05102 | 2766 | | SXA PTPNT,4 | | |
| | 04737 | 0500 | 00 | 0 | 05103 | 2767 | | CLA PTTGR | | |
| | 04740 | -0320 | 00 | 0 | 00437 | 2768 | | ANA \$QT2 | | |
| | 04741 | -0100 | 00 | 0 | 04764 | 2769 | | TNZ PR4F | | |
| | 04742 | 0500 | 00 | 0 | 05103 | 2770 | | CLA PTTGR | | |
| | 04743 | -0320 | 00 | 0 | 00440 | 2771 | | ANA \$QT4 | | |
| | 04744 | -0100 | 00 | 0 | 04767 | 2772 | | TNZ LUCY | | |

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|-------|---------|---------|-------|--------|-------|-----|-----------|---|----------|
| 04745 | -0754 | 00 4 | 00000 | 2773 | | PXD | 0,4 | | |
| 04746 | 0074 | 00 4 | 04115 | 2774 | | TSX | NUMNAM,4 | | |
| 04747 | 0020 | 00 0 | 04762 | 2775 | | TRA | PR4E | | |
| | | | | 2776 * | | | | | PNPA0019 |
| 04750 | -0734 | 00 4 | 00000 | 2777 | PA3 | PDX | 0,4 | FOUND A PNAME | PNPA0027 |
| 04751 | 0500 | 00 4 | 00000 | 2778 | | CLA | 0,4 | | PNPA0028 |
| 04752 | 0734 | 00 4 | 00000 | 2779 | | PAX | 0,4 | POINTER TO PRINT LIST | PNPA0029 |
| 04753 | 0500 | 00 4 | 00000 | 2780 | PR4 | CLA | 0,4 | LIST ITEM | PNPA0030 |
| 04754 | 0622 | 00 0 | 05073 | 2781 | | STD | L | SAVE REST OF LIST IF ANY | PNPA0031 |
| 04755 | 0734 | 00 4 | 00000 | 2782 | | PAX | 0,4 | POINTER TO FIRST FULL WORD | PNPA0032 |
| 04756 | 0500 | 00 4 | 00000 | 2783 | | CLA | 0,4 | FULL WORD | PNPA0033 |
| 04757 | 0074 | 00 4 | 05110 | 2784 | | TSX | \$PRIN2,4 | PRINT IT | PNPA0034 |
| 04760 | -0534 | 00 4 | 05073 | 2785 | | LXD | L,4 | PICK UP REST OF LIST | PNPA0035 |
| 04761 | 3 00000 | 00 4 | 04753 | 2786 | | TXH | PR4,4,0 | PRINT MORE IF MORE | PNPA0036 |
| 04762 | -0534 | 00 4 | 05072 | 2787 | PR4E | LXD | PR1,4 | EXIT BY RESTORING LINK IR | PNPA0037 |
| 04763 | 0020 | 00 4 | 00001 | 2788 | | TRA | 1,4 | EXIT | PNPA0039 |
| 04764 | -0754 | 00 4 | 00000 | 2789 | PR4F | PXD | 0,4 | | |
| 04765 | 0074 | 00 4 | 05500 | 2790 | | TSX | FLONAM,4 | | |
| 04766 | 0020 | 00 0 | 04762 | 2791 | | TRA | PR4E | | |
| | | | | 2792 * | | | | | RDC10171 |
| | | | | 2793 * | | | | PRINT THE NUMBER OCTALLY | RDC10172 |
| 04767 | 0534 | 00 2 | 05102 | 2794 | LUCY | LXA | PTPNT,2 | GET POINTER TO NUMBER | RDC10174 |
| 04770 | 0560 | 00 2 | 00000 | 2795 | | LDQ | 0,2 | | RDC10175 |
| 04771 | 0162 | 00 0 | 04776 | 2796 | | TQP | BETTY | TEST FOR NEGATIVE NUMBER | RDC10176 |
| 04772 | 0500 | 00 0 | 05100 | 2797 | | CLA | MISGN | IF SO, PRINT - | RDC10177 |
| 04773 | 0074 | 00 4 | 05110 | 2798 | | TSX | \$PRIN2,4 | | RDC10178 |
| 04774 | 0500 | 00 2 | 00000 | 2799 | | CLA | 0,2 | REMOVE MINUS SIGN | RDC10179 |
| 04775 | -0130 | 00 0 | 00000 | 2800 | | XCL | | | RDC10180 |
| 04776 | -0520 | 00 2 | 00000 | 2801 | BETTY | NZT | 0,2 | TEST IF NUMBER ALL ZEKOS | RDC10181 |
| 04777 | 0020 | 00 0 | 05053 | 2802 | | TRA | MARIE | | RDC10182 |
| | | | | 2803 * | | | | LOOK FOR NON-ZERO DIGIT ON LEFT | RDC10183 |
| 05000 | -0754 | 00 0 | 00000 | 2804 | | PXD | ,0 | | RDC10184 |
| 05001 | 0774 | 00 2 | 00014 | 2805 | | AXT | 12,2 | IR2 COUNTS ZEROS ON RIGHT | RDC10185 |
| 05002 | -0763 | 00 0 | 00003 | 2806 | | LGL | 3 | | RDC10186 |
| 05003 | 1 77777 | 2 05004 | 2807 | 2807 | | TXI | **+1,2,-1 | COUNT VACATED POSITIONS | RDC10187 |
| 05004 | 0100 | 00 0 | 05002 | 2808 | | TZE | *-2 | | RDC10188 |
| | | | | 2809 * | | | | A NON-ZERO DIGIT HAS APPEARED ON THE LEFT | RDC10189 |
| 05005 | -0501 | 00 0 | 00414 | 2810 | | ORA | \$Q64 | PUT IN OVERFLOW FLIPPER | RDC10190 |
| 05006 | 0140 | 00 0 | 05007 | 2811 | | TOV | **+1 | SHUT OFF OVERFLOW LIGHT | RDC10191 |
| 05007 | -0600 | 00 0 | 05074 | 2812 | GRETA | STQ | TONI | TEST IF ALL DIGITS ARE SPREAD | RDC10192 |
| 05010 | 0162 | 00 0 | 05012 | 2813 | | TQP | **+2 | TEST FOR NON-ZERO SIGN BIT | |
| 05011 | 1 77777 | 2 05015 | 2814 | 2814 | | TXI | FIFI,2,-1 | SOME DIGITS NOT SPREAD, SO CONTINUE | |
| 05012 | -0520 | 00 0 | 05074 | 2815 | | NZT | TONI | | RDC10193 |
| 05013 | 0020 | 00 0 | 05032 | 2816 | | TRA | DEBBY | TRA IF ALL NON-ZERO DIGITS SPREAD | RDC10194 |
| 05014 | 1 77777 | 2 05015 | 2817 | 2817 | | TXI | **+1,2,-1 | | RDC10195 |
| 05015 | 0767 | 00 0 | 00003 | 2818 | FIFI | ALS | 3 | SPREAD ONE DIGIT | RDC10196 |
| 05016 | -0763 | 00 0 | 00003 | 2819 | | LGL | 3 | | RDC10197 |
| 05017 | -0140 | 00 0 | 05007 | 2820 | | TNO | GRETA | SEE IF FULL WORD OF DIGITS | RDC10198 |
| 05020 | -0600 | 00 0 | 05074 | 2821 | | STQ | TONI | PRINT THE WORD | RDC10199 |
| 05021 | 0074 | 00 4 | 05110 | 2822 | | TSX | \$PRIN2,4 | | RDC10200 |
| 05022 | 0560 | 00 0 | 00371 | 2823 | | CLA | \$Q1 | PUT IN OVERFLOW FLIPPER | RDC10201 |
| 05023 | 0560 | 00 0 | 05074 | 2824 | | LDQ | TONI | | RDC10202 |
| 05024 | 0140 | 00 0 | 05025 | 2825 | | TOV | **+1 | SHUT OFF OVERFLOW LIGHT | RDC10203 |
| 05025 | 0162 | 00 0 | 05027 | 2826 | | TQP | **+2 | TEST FOR NON-ZERO SIGN BIT | |

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|-------|---------------|-------|---|-------|------|-------|-----|---------------------------------|--|--|--|----------|
| 05026 | 1 | 77777 | 2 | 05015 | 2827 | | TXI | FIFI,2,-1 | | | | |
| 05027 | 0520 | 00 | 0 | 05074 | 2828 | | ZET | TONI | SEE IF ALL DIGITS SPREAD | | | RDC10204 |
| 05030 | 1 | 77777 | 2 | 05015 | 2829 | | TXI | FIFI,2,-1 | | | | RDC10205 |
| 05031 | 0020 | 00 | 0 | 05036 | 2830 | | TRA | VICKI | | | | RDC10206 |
| | | | | | 2831 | * | | FORM WORD FOR PRINTING | | | | RDC10207 |
| 05032 | 0560 | 00 | 0 | 00471 | 2832 | DEBBY | LQD | SEVENS | PUT 77S IN RIGHT END OF WORD | | | RDC10208 |
| 05033 | -0763 | 00 | 0 | 00006 | 2833 | | LGL | 6 | OVERFLOW SIGNALS LEFT END OF WORD | | | RDC10209 |
| 05034 | -0140 | 00 | 0 | 05033 | 2834 | | TND | *-1 | | | | RDC10210 |
| 05035 | 0074 | 00 | 4 | 05110 | 2835 | | TSX | \$PRIN2,4 | | | | RDC10211 |
| | | | | | 2836 | * | | PRINT Q AND SCALE FACTOR IF ANY | | | | RDC10212 |
| 05036 | 3 | 00000 | 2 | 05041 | 2837 | VICKI | TXH | MICKY,2,0 | CONTINUE IF 0 SCALE FACTOR | | | RDC10213 |
| 05037 | 0500 | 00 | 0 | 05101 | 2838 | | CLA | BCIQ | | | | RDC10214 |
| 05040 | 0020 | 00 | 0 | 05054 | 2839 | | TRA | PATSY | | | | RDC10215 |
| 05041 | -3 | 00011 | 2 | 05046 | 2840 | MICKY | TXL | SANDY,2,9 | TRA IF SCALE FACTOR LESS THAN 10 | | | RDC10216 |
| | | | | | 2841 | * | | OCTAL SCALE FACTOR MORE THAN 10 | | | | RDC10217 |
| 05042 | -0754 | 00 | 2 | 00000 | 2842 | | PXD | ,2 | | | | RDC10218 |
| 05043 | 0400 | 00 | 0 | 05075 | 2843 | | ADD | BQ10 | FORM SCALE FACTOR FOR PRINTING | | | RDC10219 |
| 05044 | -0760 | 00 | 0 | 00003 | 2844 | | SSM | | | | | RDC10220 |
| 05045 | 0020 | 00 | 0 | 05054 | 2845 | | TRA | PATSY | | | | RDC10221 |
| | | | | | 2846 | * | | OCTAL SCALE FACTOR LESS THAN 10 | | | | RDC10222 |
| 05046 | -0754 | 00 | 2 | 00000 | 2847 | SANDY | PXD | ,2 | | | | RDC10223 |
| 05047 | 0767 | 00 | 0 | 00006 | 2848 | | ALS | 6 | | | | RDC10224 |
| 05050 | 0400 | 00 | 0 | 05076 | 2849 | | ADD | BQ0 | | | | RDC10225 |
| 05051 | -0760 | 00 | 0 | 00003 | 2850 | | SSM | | | | | RDC10226 |
| 05052 | 0020 | 00 | 0 | 05054 | 2851 | | TRA | PATSY | | | | RDC10227 |
| 05053 | 0500 | 00 | 0 | 05077 | 2852 | MARIE | CLA | BCIQ | PRINT OQ | | | RDC10228 |
| 05054 | 0074 | 00 | 4 | 05110 | 2853 | PATSY | TSX | \$PRIN2,4 | | | | RDC10229 |
| 05055 | 0020 | 00 | 0 | 04762 | 2854 | | TRA | PR4E | | | | RDC10231 |
| | | | | | 2855 | | | | | | | LC249300 |
| | | | | | 2856 | | | | GENERATE A PRINT NAME FOR AN OBJECT WITHOUT ONE. | | | LC249400 |
| | | | | | 2857 | | | | | | | LC249500 |
| | | | | | 2858 | | | | THE PRINT NAME IS OF THE FORM LDDDDD WHERE THE D,S ARE THE | | | LC249600 |
| | | | | | 2859 | | | | OCTAL DIGITS OF THE 2,S COMPLIMENT OF THE FIRST WORD OF | | | LC249700 |
| | | | | | 2860 | | | | THE PROPERTY LIST OF THE OBJECT. | | | LC249800 |
| | | | | | 2861 | | | | | | | LC249900 |
| 05056 | -0535 | 00 | 4 | 05071 | 2862 | PR5 | LDC | PRSS,4 | | | | |
| 05057 | -0754 | 00 | 4 | 00000 | 2863 | | PXD | 0,4 | | | | |
| 05060 | 0131 | 00 | 0 | 00000 | 2864 | | XCA | | | | | |
| 05061 | 0074 | 00 | 4 | 11021 | 2865 | | TSX | OCTALP,4 | | | | |
| 05062 | -0501 | 00 | 0 | 05070 | 2866 | | URA | PRC1 | | | | |
| 05063 | -0760 | 00 | 0 | 00003 | 2867 | | SSM | | FIX SIGN TO AGREE WITH P BIT FOR PRIN2 | | | LC250700 |
| 05064 | -0760 | 00 | 0 | 00001 | 2868 | | PBT | | | | | LC250800 |
| 05065 | 0760 | 00 | 0 | 00002 | 2869 | | CHS | | | | | LC250900 |
| 05066 | -0534 | 00 | 4 | 05072 | 2870 | | LXD | PR1,4 | RESTORE LINK IR | | | 1.5P7080 |
| 05067 | 0020 | 00 | 0 | 05110 | 2871 | | TRA | \$PRIN2 | PUT IN PRINT LINE AND EXIT | | | 1.5L3510 |
| | | | | | 2872 | | | | | | | LC251300 |
| 05070 | 430000000000 | | | | 2873 | PRC1 | BCI | 1,L00000 | L SYMBOL | | | |
| 05071 | 0 | 00000 | 0 | 00000 | 2874 | PRSS | | | STORAGE FOR POINTER TO OBJECT | | | LC251600 |
| 05072 | 0 | 00000 | 0 | 00000 | 2875 | PR1 | | | | | | LC251700 |
| 05073 | 0 | 00000 | 0 | 00000 | 2876 | L | | | | | | LC251900 |
| 05074 | | | | | 2877 | TONI | BSS | 1 | | | | RDC10233 |
| 05075 | +100066777777 | | | | 2878 | BQ10 | OCT | 100066777777 | USED TO FORM BCI Q1N | | | RDC10234 |
| 05076 | +100077777777 | | | | 2879 | BQ0 | OCT | 100077777777 | USED TO FORM BCI QN | | | RDC10235 |
| 05077 | +005077777777 | | | | 2880 | BCIQ | OCT | 005077777777 | BCI OQ | | | RDC10236 |

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|-------|------------------|------|-----------|--|-------------------------------------|-----------|
| 05100 | -007777777777 | 2881 | MISGN OCT | 407777777777 | BCI - | RDC10237 |
| 05101 | -107777777777 | 2882 | BCIQ OCT | 507777777777 | | RDC10238 |
| 05102 | | 2883 | PTPNT BSS | 1 | | RDC10240 |
| 05103 | 0 00000 0 00000 | 2884 | PTTGR | | TEST CELL FOR NUMBER FLAGS | |
| | | 2885 | | | | LC252600 |
| | | 2886 | | | | LC252700 |
| | | 2887 | PRIN2 | PRINTS UP TO 6 CHARACTERS IN ONE WORD WHEN THE | | LC252800 |
| | | 2888 | | CHARACTERS ARE JUSTIFIED TO THE LEFT AND FOLLOWED BY THE | | LC252900 |
| | | 2889 | | ILLEGAL CHARACTER WHOSE OCTAL FORM IS 77 | | LC253000 |
| | | 2890 | | | | LC253100 |
| | | 2891 | | | | LC253200 |
| 05104 | -0634 00 4 05255 | 2892 | PRINT2 | SXD PR9,4 | | RDCX0002 |
| 05105 | -0734 00 4 00000 | 2893 | PDX | 0,4 | BRING BCD WORD TO AC | RDCX0003 |
| 05106 | 0500 00 4 00000 | 2894 | CLA | 0,4 | | RDCX0004 |
| 05107 | 0020 00 0 05112 | 2895 | TRA | **3 | | RDCX0005 |
| 05110 | 3 00000 0 05341 | 2896 | PRIN2 | TXH \$PUN2,,0 | SWITCH TO PUNCH OUT ROUTINE | RDCX0006 |
| 05111 | -0634 00 4 05255 | 2897 | SXD | PR9,4 | | RDCX0006A |
| 05112 | -0634 00 2 05254 | 2898 | SXD | PR8,2 | | RDCX0007 |
| 05113 | -0634 00 1 05253 | 2899 | SXD | PR7,1 | | RDCX0008 |
| 05114 | -0534 00 4 05256 | 2900 | LXD | WORDS,4 | ROOM LEFT IN OUTPUT RECORD | LC253900 |
| 05115 | -3 00000 4 05245 | 2901 | TXL | INIT,4,0 | CAN BE ZERO ONLY IF ROUTINE NOTUSED | LC254000 |
| 05116 | 0774 00 1 00001 | 2902 | COMB4 | AXT 1,1 | | LC254100 |
| 05117 | 0601 00 0 05262 | 2903 | STO | TEMP | | LC254200 |
| 05120 | -0500 00 0 05262 | 2904 | CAL | TEMP | | LC254300 |
| 05121 | -0340 00 0 00471 | 2905 | LAS | SEVENS | WORD OF ALL 77-S CAUSES NO ACTION | RDCX0010 |
| 05122 | 0020 00 0 05124 | 2906 | TRA | **2 | | RDCX0011 |
| 05123 | 0020 00 0 05155 | 2907 | TRA | NOJOB | | RDCX0012 |
| 05124 | -0320 00 0 05260 | 2908 | SHIFL | ANA RCHM | IS THE RIGHT CHARACTER 77 | LC254400 |
| 05125 | 0402 00 0 05260 | 2909 | SUB | RCHM | | LC254500 |
| 05126 | -0100 00 0 05133 | 2910 | INZ | JUST | NOT 77 | LC254600 |
| 05127 | -0500 00 0 05262 | 2911 | CAL | TEMP | | LC254700 |
| 05130 | 0771 00 0 00006 | 2912 | ARS | 6 | | LC254800 |
| 05131 | 0602 00 0 05262 | 2913 | SLW | TEMP | | LC254900 |
| 05132 | 1 00001 1 05124 | 2914 | TXI | SHIFL,1,1 | | LC255000 |
| 05133 | -0500 00 0 05262 | 2915 | JUST | CAL TEMP | | LC255100 |
| 05134 | 0020 00 1 05143 | 2916 | TRA | LSHIF+1,1 | | LC255200 |
| 05135 | 0767 00 0 00006 | 2917 | ALS | 6 | | LC255300 |
| 05136 | 0767 00 0 00006 | 2918 | ALS | 6 | | LC255400 |
| 05137 | 0767 00 0 00006 | 2919 | ALS | 6 | | LC255500 |
| 05140 | 0767 00 0 00006 | 2920 | ALS | 6 | | LC255600 |
| 05141 | 0767 00 0 00006 | 2921 | ALS | 6 | | LC255700 |
| 05142 | 0602 00 0 05262 | 2922 | LSHIF | SLW TEMP | | LC255800 |
| 05143 | 0560 00 0 05262 | 2923 | LDQ | TEMP | | LC255900 |
| 05144 | -0500 00 0 05261 | 2924 | CAL | PART | | LC256000 |
| 05145 | -0534 00 2 05257 | 2925 | LXD | PARTS,2 | | LC256100 |
| 05146 | -0763 00 0 00006 | 2926 | BOMB | LGL 6 | | LC256200 |
| 05147 | 0602 00 0 05261 | 2927 | SLW | PART | | LC256300 |
| 05150 | -2 00001 2 05162 | 2928 | PNX | WFULL,2,1 | | LC256400 |
| 05151 | 1 00001 1 05152 | 2929 | COMB5 | TXI **1,1,1 | | LC256500 |
| 05152 | -3 00006 1 05146 | 2930 | TXL | COMB,1,6 | | LC256600 |
| 05153 | -0634 00 2 05257 | 2931 | COMB1 | SXD PARTS,2 | | LC256700 |
| 05154 | -0634 00 4 05256 | 2932 | SXD | WORDS,4 | | LC256800 |
| 05155 | -0534 00 1 05253 | 2933 | NOJOB | LXD PR7,1 | | RDCX0013 |
| 05156 | -0534 00 2 05254 | 2934 | LXD | PR8,2 | | LC257000 |

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|-------|-------|-------|---|-------|------|--------|--------------|----------------------------------|----------|
| 05157 | -0534 | 00 | 4 | 05255 | 2935 | LXD | PR9,4 | | LC257100 |
| 05160 | -0754 | 00 | 0 | 00000 | 2936 | PXD | 0,0 | | LC257200 |
| 05161 | 0020 | 00 | 4 | 00001 | 2937 | TRA | 1,4 | | LC257300 |
| 05162 | 0602 | 00 | 4 | 05307 | 2938 | WFULL | SLW REC,4 | | LC257400 |
| 05163 | -2 | 00001 | 4 | 05166 | 2939 | TNX | RECFL,4,1 | | LC257500 |
| 05164 | 0774 | 00 | 2 | 00006 | 2940 | COMB3 | AXT 6,2 | | LC257600 |
| 05165 | 0020 | 00 | 0 | 05151 | 2941 | TRA | COMB5 | / | LC257700 |
| 05166 | -0600 | 00 | 0 | 05262 | 2942 | RECFL | STQ TEMP | | LC257800 |
| 05167 | 0500 | 00 | 0 | 05310 | 2943 | CLA | WALLPC | GET MAX NUMBER OF LINES PER LIST | 1.5L3540 |
| 05170 | 0400 | 00 | 0 | 00371 | 2944 | ADD | \$Q1 | | 1.5L3550 |
| 05171 | 0340 | 00 | 0 | 05311 | 2945 | CAS | BRKOUT | COMPARE WITH MAX NUMBER | 1.5L3560 |
| 05172 | +0020 | 00 | 0 | 05174 | 2946 | TRA | *+2 | NO, GO ON | 1.5L3570 |
| 05173 | 0020 | 00 | 0 | 05207 | 2947 | TRA | PRTB | = BREAKOUT | 1.5L3580 |
| 05174 | 0601 | 00 | 0 | 05310 | 2948 | STO | WALLPC | PUT AWAY | 1.5L3590 |
| 05175 | 0074 | 00 | 4 | 01222 | 2949 | TSX | OUTPUT,4 | | LC257900 |
| 05176 | 0 | 00000 | 0 | 00364 | 2950 | PRINTD | BCDOUT | | LC258000 |
| 05177 | 0 | 00024 | 0 | 05263 | 2951 | | REC-20,,20 | | LC258100 |
| 05200 | 0560 | 00 | 0 | 05262 | 2952 | LDQ | TEMP | | LC258200 |
| 05201 | -0534 | 00 | 4 | 00447 | 2953 | LXD | QD20,4 | | LC258300 |
| 05202 | -0500 | 00 | 0 | 00472 | 2954 | CAL | BLNKA | | LC258400 |
| 05203 | 0602 | 00 | 0 | 05261 | 2955 | SLW | PART | | LC258500 |
| 05204 | -0534 | 00 | 4 | 00447 | 2956 | LXD | QD20,4 | | LC258600 |
| 05205 | -0534 | 00 | 2 | 00444 | 2957 | LXD | QD5,2 | | LC258700 |
| 05206 | 0020 | 00 | 0 | 05151 | 2958 | TRA | COMB5 | | LC258800 |
| 05207 | -0534 | 00 | 4 | 05307 | 2959 | PRTB | LXD PCPPI,4 | PUSH DOWN COUNTER | 1.5L3600 |
| 05210 | -0634 | 00 | 4 | 02317 | 2960 | SXD | \$CPPI,4 | RESTORE TO ENTRANCE VALUE | 1.5L3610 |
| 05211 | -0534 | 00 | 1 | 05253 | 2961 | LXD | PR7,1 | RESTORE INDEX 1 AND 2 | 1.5L3620 |
| 05212 | -0534 | 00 | 2 | 05254 | 2962 | LXD | PR8,2 | | 1.5L3630 |
| 05213 | 0020 | 00 | 0 | 04612 | 2963 | TRA | PRTT1 | BREAKOUT | 1.5L3640 |
| 05214 | -0634 | 00 | 2 | 05254 | 2964 | TERPRI | SXD PR8,2 | | LC258900 |
| 05215 | -0634 | 00 | 4 | 05255 | 2965 | SXD | PR9,4 | | LC259000 |
| 05216 | -0534 | 00 | 2 | 05257 | 2966 | LXD | PARTS,2 | | LC259100 |
| 05217 | -0534 | 00 | 4 | 05256 | 2967 | LXD | WORDS,4 | | LC259200 |
| 05220 | -0500 | 00 | 0 | 05261 | 2968 | CAL | PART | | LC259300 |
| 05221 | 0560 | 00 | 0 | 00472 | 2969 | LDQ | BLANK | | LC259400 |
| 05222 | -0763 | 00 | 0 | 00006 | 2970 | TER1 | LGL 6 | | LC259500 |
| 05223 | 2 | 00001 | 2 | 05222 | 2971 | TIX | TER1,2,1 | | LC259600 |
| 05224 | 0602 | 00 | 4 | 05307 | 2972 | TER3 | SLW REC,4 | | LC259700 |
| 05225 | -2 | 00001 | 4 | 05230 | 2973 | TNX | TER2,4,1 | | LC259800 |
| 05226 | -0500 | 00 | 0 | 00472 | 2974 | CAL | BLANK | | LC259900 |
| 05227 | 0020 | 00 | 0 | 05224 | 2975 | TRA | TER3 | | LC260000 |
| 05230 | 0074 | 00 | 4 | 01222 | 2976 | TER2 | TSX OUTPUT,4 | | LC260100 |
| 05231 | 0 | 00000 | 0 | 00364 | 2977 | PRINTC | BCDOUT | | LC260200 |
| 05232 | 0 | 00024 | 0 | 05263 | 2978 | | REC-20,,20 | | LC260300 |
| 05233 | -0534 | 00 | 4 | 00447 | 2979 | LXD | QD20,4 | | LC260400 |
| 05234 | -0634 | 00 | 4 | 05256 | 2980 | SXD | WORDS,4 | | LC260500 |
| 05235 | -0534 | 00 | 2 | 00444 | 2981 | LXD | QD5,2 | | LC260600 |
| 05236 | -0634 | 00 | 2 | 05257 | 2982 | SXD | PARTS,2 | | LC260700 |
| 05237 | -0534 | 00 | 2 | 05254 | 2983 | LXD | PR8,2 | | LC260800 |
| 05240 | -0534 | 00 | 4 | 05255 | 2984 | LXD | PR9,4 | | LC260900 |
| 05241 | 0500 | 00 | 0 | 00472 | 2985 | CLA | BLNKA | | LC261000 |
| 05242 | 0601 | 00 | 0 | 05261 | 2986 | STO | PART | | LC261100 |
| 05243 | -0754 | 00 | 0 | 00000 | 2987 | PXD | 0,0 | | |
| 05244 | 0020 | 00 | 4 | 00001 | 2988 | TRA | 1,4 | | LC261200 |

| | | | | | | | | |
|-------|---------------|---------|-------|------|----------|-----------------|--|----------|
| 05245 | -0534 | 00 4 | 00447 | 2989 | INIT | LXD QD20,4 | | LC261300 |
| 05246 | 0560 | 00 0 | 00472 | 2990 | | LDQ BLNKA | | LC261400 |
| 05247 | -0600 | 00 0 | 05261 | 2991 | | STQ PART | | LC261500 |
| 05250 | 0774 | 00 2 | 00005 | 2992 | | AXT 5,2 | | LC261600 |
| 05251 | -0634 | 00 2 | 05257 | 2993 | | SXD PARTS,2 | | LC261700 |
| 05252 | 0020 | 00 0 | 05116 | 2994 | | TRA COMB4 | | LC261800 |
| | | | | 2995 | * | | | 1.5L1720 |
| 05253 | 0 00000 | 0 00000 | | 2996 | PR7 | | | LC262000 |
| 05254 | 0 00000 | 0 00000 | | 2997 | PR8 | | | LC262100 |
| 05255 | 0 00000 | 0 00000 | | 2998 | PR9 | | | LC262200 |
| 05256 | 0 00000 | 0 00000 | | 2999 | WORDS | | | LC262300 |
| 05257 | 0 00000 | 0 00000 | | 3000 | PARTS | | ROOM IN PARTIAL WORD | LC262400 |
| 05260 | +000000000077 | | | 3001 | RCHM | OCT 77 | | LC262500 |
| 05261 | 0 00000 | 0 00000 | | 3002 | PART | | | LC262600 |
| 05262 | 0 00000 | 0 00000 | | 3003 | TEMP | | | LC262700 |
| 05307 | | | | 3004 | REC | BES 20 | | LC262800 |
| 05307 | 0 00000 | 0 00000 | | 3005 | PCPPI | | PUSHDOWN COUNTER STORAGE | 1.5L3650 |
| 05310 | 0 00000 | 0 00000 | | 3006 | WALLPC | | NUMBER OF LINES IN THIS LIST SO FAR | 1.5L3660 |
| 05311 | +000000000031 | | | 3007 | BRKOUT | DEC 25 | MAXIMUM NUMBER OF LINES IN ANY LIST | |
| | | 00444 | | 3008 | QD5 | SYN \$QD5 | | |
| | | 00447 | | 3009 | QD20 | SYN \$QD20 | | 1.5L3680 |
| | | 00472 | | 3010 | BLANK | SYN BLANKS | | 1.5L3690 |
| | | 00472 | | 3011 | BLNKA | SYN BLANKS | | 1.5L3700 |
| | | | | 3012 | * | | | 1.5L1850 |
| | | | | 3013 | * BCDAD1 | | A CONVERT TABLE FOR ADDING 1 TO A 6 DIGIT BCD NUMBER | 1.5L1860 |
| | | | | 3014 | * | | USED BY LOADING BCD NUMBER INTO AC AND DOING | 1.5L1870 |
| | | | | 3015 | * CVR | | BCDAD1,,6 | 1.5L1880 |
| | | | | 3016 | * | | | 1.5L1890 |
| 05312 | 0 00000 | 0 05312 | | 3017 | ADT | PZE ADT | 0 | 1.5L1900 |
| 05313 | 0 10000 | 0 05312 | | 3018 | BCDAD1 | PZE ADT,,1*4096 | 1 | 1.5L1910 |
| 05314 | 0 20000 | 0 05312 | | 3019 | | PZE ADT,,2*4096 | | 1.5L1920 |
| 05315 | 0 30000 | 0 05312 | | 3020 | | PZE ADT,,3*4096 | 3 | 1.5L1930 |
| 05316 | 0 40000 | 0 05312 | | 3021 | | PZE ADT,,4*4096 | 4 | 1.5L1940 |
| 05317 | 0 50000 | 0 05312 | | 3022 | | PZE ADT,,5*4096 | 5 | 1.5L1950 |
| 05320 | 0 60000 | 0 05312 | | 3023 | | PZE ADT,,6*4096 | 6 | 1.5L1960 |
| 05321 | 0 70000 | 0 05312 | | 3024 | | PZE ADT,,7*4096 | 7 | 1.5L1970 |
| 05322 | 1 00000 | 0 05312 | | 3025 | | PON ADT | 8 | 1.5L1980 |
| 05323 | 1 10000 | 0 05312 | | 3026 | | PUN ADT,,1*4096 | 9 | 1.5L1990 |
| 05324 | 0 00000 | 0 05313 | | 3027 | | PZE BCDAD1 | 10 | 1.5L2000 |
| | | | | 3028 | * | | | 1.5L2020 |
| | | | | 3029 | * PUNCH | | WRITES OUT A LIST ON THE SYSTEM PERIFIAL PUNCH TAPE | 1.5L2030 |
| | | | | 3030 | * | | (SYSPT) IN A FORM SUTABLE FOR PUNCHING IN BCD. | 1.5L2040 |
| | | | | 3031 | * | | | 1.5L2050 |
| 05325 | 0634 | 00 4 | 05337 | 3032 | PUNCH | SXA PNCHX,4 | SAVE LINK IR | 1.5L2060 |
| 05326 | -0625 | 00 0 | 05461 | 3033 | | STL PUNACT | ACTIVTE PUNCH ROUTINE | 1.5L2070 |
| 05327 | -0734 | 00 4 | 00000 | 3034 | | PDX 0,4 | ARGUMENT TO IR 4 | 1.5L2080 |
| 05330 | 0502 | 00 0 | 05110 | 3035 | | CLS \$PRIN2 | SET SWITCH TO | 1.5L2090 |
| 05331 | 0601 | 00 0 | 05110 | 3036 | | STO \$PRIN2 | GO TO PUNCH ROUTINE | 1.5L2100 |
| 05332 | -0754 | 00 4 | 00000 | 3037 | | PXD 0,4 | ARGUMENT TO AC | 1.5L2110 |
| 05333 | 0601 | 00 0 | 03453 | 3038 | | STO PRINTL | SAVE THE ARGUMENT | |
| 05334 | 0074 | 00 4 | 04620 | 3039 | | TSX \$PRINO,4 | USES PRINT ROUTINE | 1.5L2120 |
| 05335 | 0074 | 00 4 | 05421 | 3040 | | TSX TERPUN,4 | TERMINATE PUNCHING | 1.5L2130 |
| 05336 | 0500 | 00 0 | 03453 | 3041 | | CLA PRINTL | RESTORE THE ARGUMENT | |
| 05337 | 0774 | 00 4 | 00000 | 3042 | PNCHX | AXT **,4 | RESTORE LINK IR | 1.5L2140 |

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|-------|-------|-------|---|--------|------|-----------|-------------|---------------------------------|----------|
| 05340 | 0020 | 00 | 4 | 00001 | 3043 | TRA | 1,4 | EXIT | 1.5L2160 |
| | | | | | 3044 | * | | | 1.5L2170 |
| | | | | | 3045 | * PUN2 | | PUNCH EQUIVELENT OF PRIN 2 | 1.5L2180 |
| | | | | | 3046 | * | | | 1.5L2190 |
| 05341 | 0634 | 00 | 4 | 05364 | 3047 | PUN2 SXA | PNX,4 | SAVE INDEX REGISTERS | 1.5L2200 |
| 05342 | 0634 | 00 | 2 | 05365 | 3048 | SXA | PNY,2 | | 1.5L2210 |
| 05343 | 0634 | 00 | 1 | 05366 | 3049 | SXA | PNZ,1 | | 1.5L2220 |
| 05344 | 0774 | 00 | 4 | 00014 | 3050 | PWRDS AXT | 12,4 | NUMBER OF WORDS LEFT IN BUFFER | |
| 05345 | 0774 | 00 | 2 | 00006 | 3051 | PPRTS AXT | 6,2 | CHARACTER POSITION | |
| 05346 | 0774 | 00 | 1 | 00006 | 3052 | AXT | 6,1 | MAXIMUM NUMBER OF CHARACTERS | 1.5L2250 |
| 05347 | 0131 | 00 | 0 | 00000 | 3053 | XCA | | ARGUMENT TO MQ | 1.5L2260 |
| 05350 | -0754 | 00 | 0 | 00000 | 3054 | PLP PXD | 0,0 | CLEAR AC | 1.5L2270 |
| 05351 | -0763 | 00 | 0 | 00006 | 3055 | LGL | 6 | CHARACTER TO MQ | 1.5L2280 |
| 05352 | 0340 | 00 | 0 | 05457 | 3056 | CAS | PSS | COMPARE WITH 77 | 1.5L2290 |
| 05353 | 0761 | 00 | 0 | 00000 | 3057 | NOP | | GREATER, (IMPOSSIBLE) | 1.5L2300 |
| 05354 | 0020 | 00 | 0 | 05361 | 3058 | TRA | POUT | = , GO TO EXIT | 1.5L2310 |
| 05355 | 0522 | 00 | 2 | 05455 | 3059 | XEC | PCNT,2 | LESS THAN, SHIFT CHARACTER | 1.5L2320 |
| 05356 | -0602 | 00 | 4 | 05476 | 3060 | ORS | POUP,4 | PUT IN OUTPUT LINE | 1.5L2330 |
| 05357 | -2 | 00001 | 2 | 05370 | 3061 | TNX | PRPLP,2,1 | GO IF LAST CHARACTER IN WORD | 1.5L2340 |
| 05360 | 2 | 00001 | 1 | 05350 | 3062 | PGRA TIX | PLP,1,1 | GET NEXT CHARACTER | 1.5L2350 |
| 05361 | 0634 | 00 | 2 | 05345 | 3063 | POUT SXA | PPRTS,2 | SAVE INDEX 2 N 4 | 1.5L2360 |
| 05362 | 0634 | 00 | 4 | 05344 | 3064 | SXA | PWRDS,4 | | 1.5L2370 |
| 05363 | -0754 | 00 | 0 | 00000 | 3065 | PXD | 0,0 | CLEAR AC | 1.5L2380 |
| 05364 | 0774 | 00 | 4 | 00000 | 3066 | PNX AXT | ** ,4 | RESTORE INDEX REGISTERS | 1.5L2390 |
| 05365 | 0774 | 00 | 2 | 00000 | 3067 | PNY AXT | ** ,2 | | 1.5L2400 |
| 05366 | 0774 | 00 | 1 | 00000 | 3068 | PNZ AXT | ** ,1 | | |
| 05367 | 0020 | 00 | 4 | 00001 | 3069 | TRA | 1,4 | EXIT | 1.5L2420 |
| | | | | | 3070 | * | | | 1.5L2430 |
| 05370 | 0774 | 00 | 2 | 00006 | 3071 | PRPLP AXT | 6,2 | RELOAD CHARACTER COUNT | 1.5L2440 |
| 05371 | 2 | 00001 | 4 | 05360 | 3072 | TIX | PGRA,4,1 | GO IF WORD COUNT NOT EXHAUSTED | 1.5L2450 |
| 05372 | 0500 | 00 | 0 | 05455 | 3073 | CLA | PCNT | GET CARD NUMBER IN BCD | 1.5L2460 |
| 05373 | 0114 | 06 | 0 | 05313 | 3074 | CVR | BCDAD1,,6 | ADD 1 IN BCD | 1.5L2470 |
| 05374 | 0601 | 00 | 0 | 05455 | 3075 | STO | PCNT | | 1.5L2480 |
| 05375 | -0600 | 00 | 0 | 05460 | 3076 | STQ | PNCQ | SAVE CONTENTS OF MQ | 1.5L2490 |
| 05376 | 0560 | 00 | 0 | 00370 | 3077 | LDQ | \$ZERO | ZERO MQ | 1.5L2500 |
| 05377 | -0765 | 00 | 0 | 00006 | 3078 | LGR | 6 | SHIFT LOW ORDER DIGIT INTO MQ | 1.5L2510 |
| 05400 | 0361 | 00 | 0 | 05456 | 3079 | ACL | PLIS | ADD BCD NAME OF CARD | 1.5L2520 |
| 05401 | 0602 | 00 | 0 | 05476 | 3080 | SLW | POUP | PUT IN ID FIELD | 1.5L2530 |
| 05402 | -0600 | 00 | 0 | 05477 | 3081 | STQ | POUP+1 | | 1.5L2540 |
| 05403 | 0074 | 00 | 4 | 01222 | 3082 | TSX | OUTPUT,4 | GO TO OUTPUT | 1.5L2550 |
| 05404 | 0 | 00000 | 0 | 00363 | 3083 | | PPTOUT | PUNCH OUT TAPE | 1.5L2560 |
| 05405 | 0 | 00016 | 0 | 05462 | 3084 | | POUP-12,,14 | 14 WORDS OUT | 1.5L2570 |
| 05406 | -0046 | 00 | 0 | 00000 | 3085 | PIA | | SAVE INDICATORS IN AC | 1.5L2580 |
| 05407 | 0441 | 00 | 0 | 10340 | 3086 | LDI | SYSIND | PICK UP SYSTEM INDICATORS | 1.5L2590 |
| 05410 | 0055 | 00 | 0 | 000040 | 3087 | SIR | PPTIND | SET PUNCH TAPE INDICATOR | 1.5L2600 |
| 05411 | 0604 | 00 | 0 | 10340 | 3088 | STI | SYSIND | UPDATE SYSTEM INDICATORS | 1.5L2610 |
| 05412 | 0044 | 00 | 0 | 00000 | 3089 | PAI | | RESTORE INDICATORS | 1.5L2620 |
| 05413 | 0774 | 00 | 4 | 00014 | 3090 | AXT | | NUMBER OF WORDS FROM CC 1 TO 72 | 1.5L2630 |
| 05414 | 0600 | 00 | 4 | 05476 | 3091 | STZ | POUP,4 | ZERO OUTPUT BUFFER | 1.5L2640 |
| 05415 | 2 | 00001 | 4 | 05414 | 3092 | TIX | *-1,4,1 | | 1.5L2650 |
| 05416 | 0774 | 00 | 4 | 00014 | 3093 | AXT | 12,4 | RELOAD WORD COUNT | 1.5L2660 |
| 05417 | 0560 | 00 | 0 | 05460 | 3094 | LDQ | PNCQ | RESTORE CONTENTS OF MQ | 1.5L2670 |
| 05420 | 0020 | 00 | 0 | 05360 | 3095 | TRA | PGRA | CONTINUE WORK | 1.5L2680 |
| | | | | | 3096 | * | | | 1.5L2690 |

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|-------|---------------|---------|-------|--------|------------|--------|--|------------------------------------|
| | | | | 3097 * | TERPUN | | FILLS OUT BUFFER WITH BLANKS AND PUNCHES OUT LAST CARD | 1.5L2700 |
| | | | | 3098 * | | | OPERATES ONLY IF PUNCH ROUTINE IS CURRENTLY ACTIVE | 1.5L2710 |
| | | | | 3099 * | | | | 1.5L2720 |
| 05421 | -0520 | 00 0 | 05461 | 3100 | TERPUN NZT | PUNACT | SKIP IF PUNCH ROUTINE IS CURRENTLY ACT | 1.5L2730 |
| 05422 | 0020 | 00 4 | 00001 | 3101 | | TRA | IMMEDIATE EXIT | 1.5L2740 |
| 05423 | 0600 | 00 0 | 05461 | 3102 | | SIZ | DE ACTIVATE THE PUNCH ROUTINE | 1.5L2750 |
| 05424 | 0634 | 00 4 | 05364 | 3103 | | SXA | PNX,4 | 1.5L2760 |
| 05425 | 0634 | 00 2 | 05365 | 3104 | | SXA | PNY,2 | 1.5L2770 |
| 05426 | 0634 | 00 1 | 05366 | 3105 | | SXA | PNZ,1 | 1.5L2780 |
| 05427 | 0500 | 00 0 | 05110 | 3106 | | CLA | \$PRIN2 | 1.5L2790 |
| 05430 | 0602 | 00 0 | 05110 | 3107 | | SLW | \$PRIN2 | RESTORE PRIN2 SWITCH |
| 05431 | 0534 | 00 4 | 05344 | 3108 | | LXA | PWRDS,4 | PICK UP WORD COUNT |
| 05432 | 0534 | 00 2 | 05345 | 3109 | | LXA | PPRTS,2 | CHARACTER COUNT |
| 05433 | 0774 | 00 1 | 00001 | 3110 | | AXT | 1,1 | CONSTANT 1 |
| 05434 | 0560 | 00 0 | 00472 | 3111 | | LDQ | BLANKS | BLANK MQ |
| 05435 | -0754 | 00 0 | 00000 | 3112 | TPLP | PXD | 0,0 | CLEAR AC |
| 05436 | -0763 | 00 0 | 00006 | 3113 | | LGL | 6 | 1 INTO AC |
| 05437 | 0522 | 00 2 | 05455 | 3114 | | XEC | PCNT,2 | SHIFT INTO POSITIN |
| 05440 | -0602 | 00 4 | 05476 | 3115 | | ORS | POUP,4 | PUT IN OUTPUT LINE |
| 05441 | 2 00001 | 2 | 05435 | 3116 | | TIX | TPLP,2,1 | FILL OUT THIS WORD |
| 05442 | -2 00001 | 4 | 05370 | 3117 | | TNX | PRPLP,4,1 | GO IF LAST WORD IN BUFFER |
| 05443 | 0500 | 00 0 | 00472 | 3118 | | CLA | BLANKS | BLANK AC |
| 05444 | 0601 | 00 4 | 05476 | 3119 | | STO | POUP,4 | BLANK REST OF BUFFER |
| 05445 | 2 00001 | 4 | 05444 | 3120 | | TIX | *-1,4,1 | 1.5L2930 |
| 05446 | 0020 | 00 0 | 05370 | 3121 | | TRA | PRPLP | GO PUNCH IT OUT |
| | | | | 3122 * | | | CONSTANTS, STORAGE AND SHIFT TABLE | 1.5L2950 |
| 05447 | 0767 | 00 0 | 00036 | 3123 | | ALS | 30 | 1.5L2960 |
| 05450 | 0767 | 00 0 | 00030 | 3124 | | ALS | 24 | 1.5L2970 |
| 05451 | 0767 | 00 0 | 00022 | 3125 | | ALS | 18 | 1.5L2980 |
| 05452 | 0767 | 00 0 | 00014 | 3126 | | ALS | 12 | 1.5L2990 |
| 05453 | 0767 | 00 0 | 00006 | 3127 | | ALS | 6 | 1.5L3000 |
| 05454 | 0761 | 00 0 | 00000 | 3128 | | NOP | | 1.5L3010 |
| 05455 | 0 00000 | 0 00000 | | 3129 | PCNT | PZE | | BASE OF SHIFT TABLE AND CARD COUNT |
| 05456 | 433162470000 | | | 3130 | PLIS | BCI | 1,LISPO0 | CARD ID |
| 05457 | +000000000077 | | | 3131 | PSS | OCT | 77 | CHARACTER THAT TERMINATES A PNAME |
| 05460 | 0 00000 | 0 00000 | | 3132 | PNCQ | | | 1.5L3050 |
| 05461 | 0 00000 | 0 00000 | | 3133 | PUNACT | | | NON-ZERO IF PUNCH ROUTINE ACTIVE |
| 05462 | | | | 3134 | | BSS | 12 | 1.5L3060 |
| 05476 | +000000000000 | | | 3135 | POUP | OCT | 0,0 | OUTPUT BUFFER |
| 05477 | +000000000000 | | | | | | | 1.5L3080 |
| | | | | 3136 | | | | LC263200 |
| | | | | 3137 | | FLONAM | | LC263300 |
| | | | | 3138 | | | MAY 14,1559 | LC263400 |
| | | | | 3139 | | | FORMS THE BCD LIST FOR A FLOATING NUMBER IN THE ACC | LC263500 |
| | | | | 3140 | T | HED | | LC263600 |
| 05500 | 0634 | 00 4 | 05666 | 3141 | FLONAM | SXA | FLNX,4 | |
| 05501 | -0734 | 00 4 | 00000 | 3142 | | PDX | 0,4 | |
| 05502 | 0500 | 00 4 | 00000 | 3143 | | CLA | 0,4 | |
| 05503 | -0100 | 00 0 | 05512 | 3144 | | TNZ | FLNA | |
| 05504 | 0534 | 00 4 | 05666 | 3145 | | LXA | FLNX,4 | |
| 05505 | 0131 | 00 0 | 00000 | 3146 | | XCA | | |
| 05506 | 0500 | 00 0 | 05706 | 3147 | | CLA | FLZPZ | 0.0 |
| 05507 | 0162 | 00 0 | 05110 | 3148 | | TQP | \$PRIN2 | |
| 05510 | 0402 | 00 0 | 05731 | 3149 | | SUB | CO | -0.0 |

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|-------|-------|-------|---|-------|------|-------|-----|----------|------------------------|---------------|
| 05511 | 0020 | 00 | 0 | 05110 | 3150 | | TRA | \$PRIN2 | | |
| 05512 | 0634 | 00 | 2 | 05667 | 3151 | FLNA | SXA | FLNY,2 | | |
| 05513 | 0634 | 00 | 1 | 05670 | 3152 | | SXA | FLNZ,1 | | |
| 05514 | 0774 | 00 | 1 | 00001 | 3153 | | AXT | 1,1 | SET UP BUFFER IRS | |
| 05515 | 0774 | 00 | 2 | 00044 | 3154 | | AXT | 36,2 | | |
| 05516 | 0600 | 00 | 0 | 05703 | 3155 | | STZ | FLOPB-3 | | |
| 05517 | 0600 | 00 | 0 | 05704 | 3156 | | STZ | FLOPB-2 | | |
| 05520 | 0600 | 00 | 0 | 05705 | 3157 | | STZ | FLOPB-1 | | |
| 05521 | 0601 | 00 | 0 | 77667 | 3158 | | STO | COMMON+5 | | |
| 05522 | 0131 | 00 | 0 | 00000 | 3159 | | XCA | | | |
| 05523 | -0754 | 00 | 0 | 00000 | 3160 | | PXD | ,0 | CLEAR ACC. AND SIGN. | 21303PRT90124 |
| 05524 | 0765 | 00 | 0 | 00000 | 3161 | FL73 | LRS | 0 | SIGN TO MQ | 21305PRT90125 |
| 05525 | 0763 | 00 | 0 | 00010 | 3162 | | LLS | 8 | CHARACTERISTIC. | 21310PRT90126 |
| 05526 | 0402 | 00 | 0 | 00415 | 3163 | | SUB | A128 | 128 | 21315PRT90127 |
| 05527 | -0600 | 00 | 0 | 77662 | 3164 | | STQ | COMMON | SAVE MANTISSA. | 21320PRT90128 |
| 05530 | 0131 | 00 | 0 | 00000 | 3165 | | XCA | | MULTIPLY BY | 21325PRT90129 |
| 05531 | 0200 | 00 | 0 | 05720 | 3166 | | MPY | LOG2 | LOG BASE 10 OF 2. | 21330PRT90130 |
| 05532 | 0601 | 00 | 0 | 77664 | 3167 | | STO | COMMON+2 | | 21335PRT90131 |
| 05533 | 0120 | 00 | 0 | 05542 | 3168 | | TPL | FL75 | | 21340PRT90132 |
| 05534 | 0402 | 00 | 0 | 05717 | 3169 | FL74 | SUB | A1 | 1 | 21345PRT90133 |
| 05535 | 0601 | 00 | 0 | 77664 | 3170 | | STO | COMMON+2 | | 21350PRT90134 |
| 05536 | 0131 | 00 | 0 | 00000 | 3171 | | XCA | | | 21355PRT90135 |
| 05537 | 0760 | 00 | 0 | 00006 | 3172 | | COM | | | 21360PRT90136 |
| 05540 | 0760 | 00 | 0 | 00003 | 3173 | | SSP | | | 21365PRT90137 |
| 05541 | 0131 | 00 | 0 | 00000 | 3174 | | XCA | | | 21370PRT90138 |
| 05542 | 0200 | 00 | 0 | 05721 | 3175 | FL75 | MPY | LOG10 | LOG BASE 2 OF 10/4. | 21375PRT90139 |
| 05543 | 0765 | 00 | 0 | 00041 | 3176 | | LRS | 33 | | 21380PRT90140 |
| 05544 | 0621 | 00 | 0 | 05555 | 3177 | | STA | FL76A | | 21385PRT90141 |
| 05545 | -0600 | 00 | 0 | 77672 | 3178 | | STQ | COMMON+8 | | 21390PRT90142 |
| 05546 | 0774 | 00 | 4 | 00007 | 3179 | | AXT | 7,4 | | 21395PRT90143 |
| 05547 | 0560 | 00 | 0 | 05722 | 3180 | | LDQ | C7 | | 21400PRT90144 |
| 05550 | 0200 | 00 | 0 | 77672 | 3181 | FL76 | MPY | COMMON+8 | | 21405PRT90145 |
| 05551 | 0400 | 00 | 4 | 05732 | 3182 | | ADD | CO+1,4 | | 21410PRT90146 |
| 05552 | 0131 | 00 | 0 | 00000 | 3183 | | XCA | | | 21415PRT90147 |
| 05553 | 2 | 00001 | 4 | 05550 | 3184 | | TIX | FL76,4,1 | | 21420PRT90148 |
| 05554 | 0200 | 00 | 0 | 77662 | 3185 | | MPY | COMMON | MANTISSA. | 21425PRT90149 |
| 05555 | 0774 | 00 | 4 | 00000 | 3186 | FL76A | AXT | ** ,4 | | 21427PRT90150 |
| 05556 | 0765 | 00 | 4 | 00042 | 3187 | | LRS | 34,4 | | 21430PRT90151 |
| 05557 | 0100 | 00 | 0 | 05564 | 3188 | | TZE | FL77 | | 21435PRT90152 |
| 05560 | 0221 | 00 | 0 | 05716 | 3189 | | DVP | A1-1 | 10. | 21440PRT90153 |
| 05561 | 0500 | 00 | 0 | 77664 | 3190 | | CLA | COMMON+2 | | 21445PRT90154 |
| 05562 | 0400 | 00 | 0 | 05717 | 3191 | | ADD | A1 | 1. | 21450PRT90155 |
| 05563 | 0601 | 00 | 0 | 77664 | 3192 | | STO | COMMON+2 | | 21455PRT90156 |
| 05564 | 0774 | 00 | 4 | 00010 | 3193 | FL77 | AXT | 8,4 | | |
| 05565 | -0200 | 00 | 4 | 05717 | 3194 | FL78 | MPR | A1,4 | 10 TO DEC. PLACES. | 21475PRT90160 |
| 05566 | 0340 | 00 | 4 | 05717 | 3195 | | CAS | A1,4 | | 21480PRT90161 |
| 05567 | 0761 | 00 | 0 | 00000 | 3196 | | NOP | | GREATER. | 21485PRT90162 |
| 05570 | 0020 | 00 | 0 | 05572 | 3197 | | TRA | FL79 | EQUAL. | 21490PRT90163 |
| 05571 | 0020 | 00 | 0 | 05576 | 3198 | | TRA | FL80 | LESS. | 21495PRT90164 |
| 05572 | 0500 | 00 | 0 | 05717 | 3199 | FL79 | CLA | A1 | ROUNDING CAUSED CARRY. | 21500PRT90165 |
| 05573 | 0400 | 00 | 0 | 77664 | 3200 | | ADD | COMMON+2 | | 21505PRT90166 |
| 05574 | 0601 | 00 | 0 | 77664 | 3201 | | STO | COMMON+2 | EXP+1. | 21510PRT90167 |
| 05575 | 0500 | 00 | 4 | 05720 | 3202 | | CLA | A1+1,4 | 10 TO THE DEC. PL.-1. | 21515PRT90168 |
| 05576 | 0601 | 00 | 0 | 77672 | 3203 | FL80 | STO | COMMON+8 | | 21520PRT90169 |

| | | | | | | | | | | |
|-------|-------|-------|---|-------|------|------|-----------|-----------------------------|------------------------|---------------|
| 05577 | -0754 | 00 | 0 | 00000 | 3204 | PXD | ,0 | | | 21525PRT90170 |
| 05600 | 0560 | 00 | 0 | 77664 | 3205 | LDQ | COMMON+2 | ENTER DEC EXP. | | 21530PRT90171 |
| 05601 | 0221 | 00 | 0 | 05716 | 3206 | DVP | A1-1 | 10 | | 21535PRT90172 |
| 05602 | -0600 | 00 | 0 | 77671 | 3207 | STQ | COMMON+7 | | | 21540PRT90173 |
| 05603 | 0634 | 00 | 4 | 05621 | 3208 | SXA | FL82,4 | | | 21545PRT90174 |
| 05604 | 0074 | 00 | 4 | 05673 | 3209 | TSX | INBCD,4 | | | 21550PRT90175 |
| 05605 | -0754 | 00 | 0 | 00000 | 3210 | PXD | ,0 | | | 21555PRT90176 |
| 05606 | 0560 | 00 | 0 | 77671 | 3211 | LDQ | COMMON+7 | | | 21560PRT90177 |
| 05607 | 0221 | 00 | 0 | 05716 | 3212 | DVP | A1-1 | | | 21565PRT90178 |
| 05610 | 0100 | 00 | 0 | 05612 | 3213 | TZE | **2 | | | |
| 05611 | 0074 | 00 | 4 | 05673 | 3214 | TSX | INBCD,4 | | | 21570PRT90179 |
| 05612 | 0500 | 00 | 0 | 77664 | 3215 | CLA | COMMON+2 | | | 21575PRT90180 |
| 05613 | 0100 | 00 | 0 | 05617 | 3216 | TZE | FL81 | | | 21580PRT90181 |
| 05614 | 0120 | 00 | 0 | 05617 | 3217 | TPL | FL81 | | | 21585PRT90182 |
| 05615 | 0500 | 00 | 0 | 00423 | 3218 | CLA | ONEMI | MINUS SIGN | | 21590PRT90183 |
| 05616 | 0074 | 00 | 4 | 05673 | 3219 | TSX | INBCD,4 | | | 21605PRT90186 |
| 05617 | 0500 | 00 | 0 | 00410 | 3220 | FL81 | CLA | ONEE | | |
| 05620 | 0074 | 00 | 4 | 05673 | 3221 | TSX | INBCD,4 | | | |
| 05621 | 0774 | 00 | 4 | 00000 | 3222 | FL82 | AXT | ** ,4 | | 21620PRT90187 |
| 05622 | 0600 | 00 | 0 | 05702 | 3223 | STZ | FLZET | | | |
| 05623 | 0500 | 00 | 0 | 77672 | 3224 | FL65 | CLA | COMMON+8 | | 21145PRT90103 |
| 05624 | 0765 | 00 | 0 | 00043 | 3225 | FL67 | LRS | 35 | | 21160PRT90106 |
| 05625 | 0221 | 00 | 0 | 05716 | 3226 | DVP | A1-1 | 10. | | 21165PRT90107 |
| 05626 | -0600 | 00 | 0 | 77672 | 3227 | STQ | COMMON+8 | FRACTIONAL PART. | | 21170PRT90108 |
| 05627 | -0520 | 00 | 0 | 05702 | 3228 | NZT | FLZET | | | |
| 05630 | 0100 | 00 | 0 | 05635 | 3229 | TZE | FL01 | | | |
| 05631 | -0602 | 00 | 0 | 05702 | 3230 | ORS | FLZET | | | |
| 05632 | 0634 | 00 | 4 | 05634 | 3231 | SXA | **2,4 | SAVE IR4. | | 21175PRT90109 |
| 05633 | 0074 | 00 | 4 | 05673 | 3232 | TSX | INBCD,4 | ENTER DIGIT. | | 21180PRT90110 |
| 05634 | 0774 | 00 | 4 | 00000 | 3233 | AXT | ** ,4 | RESTORE. | | 21185PRT90111 |
| 05635 | 2 | 00001 | 4 | 05623 | 3234 | FL01 | TIX | FL65,4,1 | | 21190PRT90112 |
| 05636 | -0754 | 00 | 0 | 00000 | 3235 | PXD | 0,0 | | | |
| 05637 | -0520 | 00 | 0 | 05702 | 3236 | NZT | FLZET | | | |
| 05640 | 0074 | 00 | 4 | 05673 | 3237 | TSX | INBCD,4 | | | |
| 05641 | 0500 | 00 | 0 | 00422 | 3238 | CLA | A33 | DEC. POINT. | | 21195PRT90113 |
| 05642 | 0074 | 00 | 4 | 05673 | 3239 | TSX | INBCD,4 | ENTER. | | 21200PRT90114 |
| 05643 | -0754 | 00 | 0 | 00000 | 3240 | PXD | 0,0 | | | |
| 05644 | 0074 | 00 | 4 | 05673 | 3241 | TSX | INBCD,4 | | | |
| 05645 | 0560 | 00 | 0 | 77667 | 3242 | LDQ | COMMON+5 | | | |
| 05646 | -0500 | 00 | 0 | 00427 | 3243 | CAL | ONEBL | BLANK | | 21220PRT90118 |
| 05647 | 0162 | 00 | 0 | 05651 | 3244 | TOP | FL70 | FOR PLUS. | | 21225PRT90119 |
| 05650 | -0500 | 00 | 0 | 00423 | 3245 | CAL | ONEMI | NEGATIVE. | | 21230PRT90120 |
| 05651 | 0074 | 00 | 4 | 05673 | 3246 | FL70 | TSX | INBCD,4 | INSERT BLANK OR MINUS. | 21235PRT90121 |
| 05652 | -0754 | 00 | 2 | 00000 | 3247 | PXD | 0,2 | | | |
| 05653 | -0737 | 00 | 2 | 00000 | 3248 | PDC | 0,2 | | | |
| 05654 | 0560 | 00 | 0 | 00471 | 3249 | LDQ | ONES | FILL OUT LAST WORD WITH 77S | | |
| 05655 | -0500 | 00 | 1 | 05706 | 3250 | CAL | FL0PB,1 | | | |
| 05656 | -0763 | 00 | 2 | 00000 | 3251 | LGL | 0,2 | | | |
| 05657 | -0130 | 00 | 0 | 00000 | 3252 | XCL | | | | |
| 05660 | 0131 | 00 | 0 | 00000 | 3253 | XCA | | | | |
| 05661 | 0074 | 00 | 4 | 05110 | 3254 | TSX | \$PRIN2,4 | | | |
| 05662 | -2 | 00001 | 1 | 05666 | 3255 | TNX | FLNX,1,1 | | | |
| 05663 | 0500 | 00 | 1 | 05706 | 3256 | CLA | FL0PB,1 | | | |
| 05664 | 0074 | 00 | 4 | 05110 | 3257 | TSX | \$PRIN2,4 | | | |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|------|-------|--------------------------------|-------------------|---------------------|
| 05665 | 2 | 00001 | 1 | 05663 | 3258 | TIX | *-2,1,1 | | |
| 05666 | 0774 | 00 | 4 | 00000 | 3259 | FLNX | AXT | ** ,4 | |
| 05667 | 0774 | 00 | 2 | 00000 | 3260 | FLNY | AXT | ** ,2 | |
| 05670 | 0774 | 00 | 1 | 00000 | 3261 | FLNZ | AXT | ** ,1 | |
| 05671 | -0754 | 00 | 0 | 00000 | 3262 | | PXD | 0,0 | |
| 05672 | 0020 | 00 | 4 | 00001 | 3263 | | TRA | 1,4 | |
| | | | | | 3264 | * | | | |
| 05673 | -0320 | 00 | 0 | 00413 | 3265 | INBCD | ANA | A77 | |
| 05674 | 0767 | 00 | 2 | 00044 | 3266 | | ALS | 36,2 | |
| 05675 | -0602 | 00 | 1 | 05706 | 3267 | | ORS | FLOPB,1 | |
| 05676 | 2 | 00006 | 2 | 05701 | 3268 | | TIX | **3,2,6 | |
| 05677 | 1 | 00001 | 1 | 05700 | 3269 | | TXI | **1,1,1 | |
| 05700 | 0774 | 00 | 2 | 00044 | 3270 | | AXT | 36,2 | |
| 05701 | 0020 | 00 | 4 | 00001 | 3271 | | TRA | 1,4 | |
| | | | | | 3272 | * | | | |
| 05702 | 0 | 00000 | 0 | 00000 | 3273 | FLZET | | | |
| 05706 | | | | | 3274 | FLOPB | BES | 3 | |
| 05706 | 606060600000 | | | | 3275 | FLZPZ | VFD | H24/ 0.0,012/7777 | |
| 05707 | +000575360400 | | | | 3276 | | DEC | 100000000 | 70100PRT90437 |
| 05710 | +000046113200 | | | | 3277 | | DEC | 100000000 | 70101PRT90438 |
| 05711 | +000003641100 | | | | 3278 | | DEC | 1000000 | 70102PRT90439 |
| 05712 | +000000303240 | | | | 3279 | | DEC | 100000 | 70103PRT90440 |
| 05713 | +000000023420 | | | | 3280 | | DEC | 10000 | 70104PRT90441 |
| 05714 | +000000001750 | | | | 3281 | THSND | DEC | 1000 | 70105PRT90442 |
| 05715 | +000000000144 | | | | 3282 | | DEC | 100 | 70106PRT90443 |
| 05716 | +000000000012 | | | | 3283 | | DEC | 10 | 70107PRT90444 |
| 05717 | +000000000001 | | | | 3284 | A1 | DEC | 1 | 70108PRT90445 |
| 05720 | +115040465025 | | | | 3285 | LOG2 | OCT | 115040465025 | LOG BASE 10 OF 2. |
| 05721 | +324464741127 | | | | 3286 | LOG10 | OCT | 324464741127 | LOG BASE 2 OF 10-4. |
| 05722 | +000001601225 | | | | 3287 | C7 | OCT | 1601225 | 70115PRT90447 |
| 05723 | +000007762664 | | | | 3288 | C6 | OCT | 7762664 | 70120PRT90448 |
| 05724 | +000132240566 | | | | 3289 | C5 | OCT | 132240566 | 70125PRT90449 |
| 05725 | +001164125106 | | | | 3290 | C4 | OCT | 1164125106 | 70130PRT90450 |
| 05726 | +007066267024 | | | | 3291 | C3 | OCT | 7066267024 | 70135PRT90451 |
| 05727 | +036577252307 | | | | 3292 | C2 | OCT | 36577252307 | 70140PRT90452 |
| 05730 | +130562064437 | | | | 3293 | C1 | OCT | 130562064437 | 70145PRT90453 |
| 05731 | 2 | 00000 | 0 | 00000 | 3294 | C0 | TIX | 0,0,0 | 70150PRT90454 |
| | | 00422 | | | 3295 | A33 | SYN | \$Q033 | 70155PRT90455 |
| | | 00413 | | | 3296 | A77 | SYN | \$Q63 | |
| | | 00415 | | | 3297 | A128 | SYN | \$Q128 | |
| | | 00420 | | | 3298 | ONEPL | SYN | \$Q020 | |
| | | 00410 | | | 3299 | ONEE | SYN | \$Q025 | |
| | | 00423 | | | 3300 | ONEMI | SYN | \$Q040 | |
| | | 00427 | | | 3301 | ONEBL | SYN | \$Q060 | |
| | | 00471 | | | 3302 | ONES | SYN | SEVENS | |
| | | | | | 3303 | * | | | |
| | | | | | 3304 | | READ | | LC286900 |
| | | | | | 3305 | | | | LC287000 |
| | | | | | 3306 | | READ = SELECT(RD.,LPAR,READ1., | | LC287100 |
| | | | | | 3307 | | LITER,INTERN., | | LC287200 |
| | | | | | 3308 | | NUMB,INTERN., | | LC287300 |
| | | | | | 3309 | | RPAR,ERROR., | | LC287400 |
| | | | | | 3310 | | 1;ERROR) | | LC287500 |
| | | | | | 3311 | | | | LC287600 |

| | | | | | | | | | |
|-------|--------------|-------|---|-------|------|-----------------------------|-----------------------------|-------------------------------|----------|
| | | | | | 3312 | | | | LC290600 |
| | | | | | 3313 | READ1 | | | LC290700 |
| | | | | | 3314 | | | | LC290800 |
| | | | | | 3315 | READ1 = SELECTIRD,,RPAR,0,, | | | LC290900 |
| | | | | | 3316 | | LPAR,CONS(READ1,READ1).., | | LC291000 |
| | | | | | 3317 | | LITER,CONS(INTERN,READ1).., | | LC291100 |
| | | | | | 3318 | | NUMB,CONS(INTERN,READ1)) | | LC291200 |
| | | | | | 3319 | | | | LC291300 |
| | | | | | 3320 | I HED | | | LC291400 |
| 05732 | 0634 | 00 | 4 | 05734 | 3321 | READ SXA | REDS1,4 | SAVE LINK IR | |
| 05733 | 0074 | 00 | 4 | 06026 | 3322 | TSX | \$RD,4 | GET FIRST ITEM | |
| 05734 | 0774 | 00 | 4 | 00000 | 3323 | REDS1 AXT | **4 | RESTORE LINK IR | |
| 05735 | 0340 | 00 | 0 | 06022 | 3324 | REDIS CAS | RLPAR | DISPATCH ON TYPE OF ITEM READ | |
| 05736 | 0020 | 00 | 0 | 05740 | 3325 | TRA | **2 | | |
| 05737 | 0020 | 00 | 0 | 05757 | 3326 | TRA | READ1 | WAS (| |
| 05740 | 0340 | 00 | 0 | 06023 | 3327 | CAS | RRPAR | | |
| 05741 | 0020 | 00 | 0 | 05743 | 3328 | TRA | **2 | | |
| 05742 | 0020 | 00 | 0 | 05747 | 3329 | TRA | REDER | | |
| 05743 | 0340 | 00 | 0 | 06024 | 3330 | CAS | RDOT | | |
| 05744 | 0020 | 00 | 4 | 00001 | 3331 | TRA | 1,4 | | |
| 05745 | 0020 | 00 | 0 | 05747 | 3332 | TRA | REDER | | |
| 05746 | 0020 | 00 | 4 | 00001 | 3333 | TRA | 1,4 | | |
| 05747 | -0634 | 00 | 4 | 01562 | 3334 | REDER SXD | \$ERROR,4 | MUST BE AN ERROR | |
| 05750 | 0601 | 00 | 0 | 03452 | 3335 | STO | RS2 | SAVE TYPE | |
| 05751 | 0074 | 00 | 4 | 01222 | 3336 | TSX | OUTPUT,4 | WRITE OUT INPUT BUFFER | |
| 05752 | 0 | 00000 | 0 | 00364 | 3337 | | BCDOUT | | |
| 05753 | 0 | 00016 | 0 | 06351 | 3338 | | CELL-15,,14 | | |
| 05754 | 0500 | 00 | 0 | 03452 | 3339 | CLA | RS2 | GET TYPE | |
| 05755 | 0074 | 00 | 4 | 01563 | 3340 | TSX | \$ERROR+1,4 | GO TO ERROR | |
| 05756 | 545160600154 | | | | 3341 | BCI | 1,*R 1* | CONTEXT ERROR | |
| | | | | | 3342 | * | | | |
| 05757 | -0634 | 00 | 4 | 03451 | 3343 | READ1 SXD | RS1,4 | SAVE LINK IR | |
| 05760 | 0074 | 00 | 4 | 06026 | 3344 | TSX | \$RD,4 | GET NEXT ITEM | |
| 05761 | 0340 | 00 | 0 | 06023 | 3345 | CAS | RRPAR | | |
| 05762 | 0020 | 00 | 0 | 05764 | 3346 | TRA | **2 | | |
| 05763 | 0020 | 00 | 0 | 06003 | 3347 | TRA | RPI | WAS) RETURN WITH NIL | |
| 05764 | 0074 | 00 | 4 | 02312 | 3348 | TSX | \$SAVE,4 | | |
| 05765 | -3 | 03454 | 0 | 02377 | 3349 | TXL | \$END2,,RS2+2 | SAVE 2 ITEMS | |
| 05766 | 0340 | 00 | 0 | 06024 | 3350 | CAS | RDOT | | |
| 05767 | 0020 | 00 | 0 | 05771 | 3351 | TRA | **2 | | |
| 05770 | 0020 | 00 | 0 | 06006 | 3352 | TRA | RP2 | WAS . | |
| 05771 | 0340 | 00 | 0 | 06022 | 3353 | CAS | RLPAR | | |
| 05772 | 0020 | 00 | 0 | 05774 | 3354 | TRA | **2 | | |
| 05773 | 0074 | 00 | 4 | 05757 | 3355 | TSX | READ1,4 | | |
| 05774 | 0601 | 00 | 0 | 03452 | 3356 | STO | RS2 | SAVE RESULTS | |
| 05775 | 0074 | 00 | 4 | 05757 | 3357 | TSX | READ1,4 | GET NEXT ITEM | |
| 05776 | 0131 | 00 | 0 | 00000 | 3358 | XCA | | PUT IN MQ | |
| 05777 | 0500 | 00 | 0 | 03452 | 3359 | CLA | RS2 | FIRST ITEM | |
| 06000 | 0074 | 00 | 4 | 02326 | 3360 | TSX | UNSAVE,4 | | |
| 06001 | -0534 | 00 | 4 | 03451 | 3361 | LXD | RS1,4 | RESTORE LINK IR | |
| 06002 | 0020 | 00 | 0 | 03730 | 3362 | TRA | \$CONS | CONSTRUCT A LIST | |
| | | | | | 3363 | * | | | |
| 06003 | -0754 | 00 | 0 | 00000 | 3364 | RP1 PXD | 0,0 | WAS) RETURN WITH NIL | |
| 06004 | -0534 | 00 | 4 | 03451 | 3365 | LXD | RS1,4 | | |

| | | | | | | | | | | |
|-------|-------|-------|---|-------|------|-------|-----|---|-------|--|
| 06005 | 0020 | 00 | 4 | 00001 | 3366 | | TRA | 1,4 | | |
| | | | | | 3367 | * | | | | |
| 06006 | 0074 | 00 | 4 | 06026 | 3368 | RP2 | TSX | \$RD,4 | WAS . | GET NEXT ITEM |
| 06007 | 0074 | 00 | 4 | 05735 | 3369 | | TSX | REDIS,4 | | DISPATCH ON IT |
| 06010 | 0601 | 00 | 0 | 03452 | 3370 | | STO | RS2 | | SAVE RESULTS |
| 06011 | 0074 | 00 | 4 | 06026 | 3371 | | TSX | \$RD,4 | | GET NEXT ITEM |
| 06012 | 0340 | 00 | 0 | 06023 | 3372 | | CAS | RRPAR | | SHOULD BE) |
| 06013 | 0020 | 00 | 0 | 05747 | 3373 | | TRA | REDER | | GO TO ERROR IF NOT |
| 06014 | 0020 | 00 | 0 | 06016 | 3374 | | TRA | **2 | | |
| 06015 | 0020 | 00 | 0 | 05747 | 3375 | | TRA | REDER | | |
| 06016 | 0500 | 00 | 0 | 03452 | 3376 | | CLA | RS2 | | GET ITEM READ |
| 06017 | 0074 | 00 | 4 | 02326 | 3377 | | TSX | UNSAVE,4 | | |
| 06020 | -0534 | 00 | 4 | 03451 | 3378 | | LXD | RS1,4 | | RESTORE LINK IR |
| 06021 | 0020 | 00 | 4 | 00001 | 3379 | | TRA | 1,4 | | RERURN WITH IT |
| | | | | | 3380 | * | | | | |
| | | | | 00505 | 3381 | RLTR | SYN | QUOTED | | SYMBOL FLAG |
| | | | | 00476 | 3382 | RNUMB | SYN | FLOATD | | FLOAT (USED TO SIGNIFY ANY KIND NUMBER |
| | | | | | 3383 | * | | | | |
| | | | | | 3384 | I | HED | | | LC296600 |
| | | | | | 3385 | | | | | LC296700 |
| | | | | | 3386 | | | RD(A) | | LC296800 |
| | | | | | 3387 | | | | | LC296900 |
| | | | | | 3388 | | | READS BCD LISTS FROM CARDS (SW 1 DOWN) OR TAPE 4 (SW1 UP) | | LC297000 |
| | | | | | 3389 | | | | | LC297100 |
| 06022 | 0 | 00531 | 0 | 00000 | 3390 | RLPAR | | ,, \$H74D | | |
| 06023 | 0 | 00527 | 0 | 00000 | 3391 | RRPAR | | ,, \$H34D | | |
| 06024 | 0 | 00526 | 0 | 00000 | 3392 | RDOT | | ,, \$H33D | | |
| 06025 | | | | | 3393 | RDVAL | BSS | 0 | | |
| 06025 | 0 | 00000 | 0 | 00001 | 3394 | LRCIS | | 1 | | CARD IMAGE EMPTY TEST CELL |
| 06026 | 0500 | 00 | 0 | 06415 | 3395 | RD | CLA | RDLST | | |
| 06027 | 0100 | 00 | 0 | 06032 | 3396 | | TZE | RDA | | GO IF NOT |
| 06030 | 0600 | 00 | 0 | 06415 | 3397 | | STZ | RDLST | | OTHERWISE ZERO |
| 06031 | 0020 | 00 | 4 | 00001 | 3398 | | TRA | 1,4 | | AND EXIT |
| 06032 | 0634 | 00 | 4 | 06063 | 3399 | RDA | SXA | RDY,4 | | SAVE INDEX REGISTERS |
| 06033 | 0634 | 00 | 2 | 06070 | 3400 | | SXA | RDY,2 | | |
| 06034 | 0634 | 00 | 1 | 06067 | 3401 | | SXA | RDZ,1 | | |
| 06035 | 0604 | 00 | 0 | 06414 | 3402 | | STI | RDIND | | SAVE THE INDICATORS |
| 06036 | 0441 | 00 | 0 | 00370 | 3403 | | LDI | \$ZERO | | |
| 06037 | 0774 | 00 | 2 | 00006 | 3404 | RDPTS | AXT | 6,2 | | SET UP IR 2 AND 1 |
| 06040 | 0774 | 00 | 1 | 00014 | 3405 | RDWDS | AXT | 12,1 | | |
| 06041 | 0074 | 00 | 4 | 06172 | 3406 | RDGC | TSX | GET,4 | | GET THE FIRST CHARACTER |
| 06042 | 0734 | 00 | 4 | 00000 | 3407 | | PAX | 0,4 | | TYPE TO INDEX REGISTER |
| 06043 | 0020 | 00 | 4 | 06053 | 3408 | | TRA | RDJT1,4 | | DISPATCH ON TYPE |
| 06044 | 0020 | 00 | 0 | 06072 | 3409 | | TRA | RDDL | | \$ |
| 06045 | 0020 | 00 | 0 | 06122 | 3410 | | TRA | RDLT | | |
| 06046 | 0020 | 00 | 0 | 06123 | 3411 | | TRA | RDNM | | NUMBER |
| 06047 | 0020 | 00 | 0 | 06041 | 3412 | | TRA | RDGC | | , |
| 06050 | 0020 | 00 | 0 | 06062 | 3413 | | TRA | RDPU | | { |
| 06051 | 0020 | 00 | 0 | 06062 | 3414 | | TRA | RDPU | | } |
| 06052 | 0020 | 00 | 0 | 06062 | 3415 | | TRA | RDPU | | . |
| 06053 | 0074 | 00 | 4 | 01222 | 3416 | RDJT1 | TSX | OUTPUT,4 | | ILLEGAL CHARACTER |
| 06054 | 0 | 00000 | 0 | 00364 | 3417 | | | BCDOUT | | |
| 06055 | 0 | 00017 | 0 | 06353 | 3418 | | | RDPB,,15 | | |
| 06056 | -0754 | 00 | 0 | 00000 | 3419 | | PXD | 0,0 | | CLEAR AC |

| | | | | | | | | |
|-------|--------------|------|--------|------|-------|-----|-------------|---|
| 06057 | -0634 | 00 4 | 01562 | 3420 | SXD | | \$ERROR,4 | SAVE IR 4 |
| 06060 | 0074 | 00 4 | 01563 | 3421 | TSX | | \$ERROR+1,4 | GO TO ERROR ROUTINE |
| 06061 | 545160600354 | | 3422 | BCI | | | 1,*R 3* | |
| 06062 | 0500 | 00 4 | 06025 | 3423 | RDPU | CLA | RDVAL,4 | |
| 06063 | 0774 | 00 4 | 00000 | 3424 | RDX | AXT | **,4 | |
| 06064 | 0634 | 00 2 | 06037 | 3425 | RDFIN | SXA | RDPTS,2 | SAVE INDEX REGISTERS |
| 06065 | 0634 | 00 1 | 06040 | 3426 | SXA | | RDWDS,1 | |
| 06066 | 0441 | 00 0 | 06414 | 3427 | LDI | | RDIND | RESTORE INDICATORS |
| 06067 | 0774 | 00 1 | 00000 | 3428 | RDZ | AXT | **,1 | RESTORE INDEX REGISTERS |
| 06070 | 0774 | 00 2 | 00000 | 3429 | RDY | AXT | **,2 | |
| 06071 | 0020 | 00 4 | 00001 | 3430 | TRA | | 1,4 | EXIT |
| | | | 3431 | * | | | | |
| 06072 | 0055 | 00 | 000003 | 3432 | RDDL | SIR | 3 | SET FIRST CHARACTER AND LITERAL INDICATOR |
| 06073 | 0074 | 00 4 | 06172 | 3433 | TSX | | GET,4 | IS NEXT CHARACTER A \$ |
| 06074 | 0734 | 00 4 | 00000 | 3434 | PAX | | 0,4 | IF SO IT INDICATES A LITERAL STRING |
| 06075 | 0500 | 00 0 | 06416 | 3435 | CLA | | GTVAL | SAVE VALUE OF GET |
| 06076 | 0601 | 00 0 | 06413 | 3436 | STO | | RDDDC | |
| 06077 | 3 00006 | 4 | 06110 | 3437 | TXH | | RDDD,4,6 | GO IF A \$ |
| 06100 | 0634 | 00 4 | 06106 | 3438 | SXA | | RDT,4 | NOT SO DO A REGULAR D |
| 06101 | 0500 | 00 0 | 06412 | 3439 | CLA | | RDDL | \$ |
| 06102 | 0601 | 00 0 | 06416 | 3440 | STO | | GTVAL | |
| 06103 | 0074 | 00 4 | 06241 | 3441 | TSX | | PUT,4 | PUT IN OUTPUT BUFFER |
| 06104 | 0500 | 00 0 | 06413 | 3442 | CLA | | RDDDC | LAST VALUE OF GET |
| 06105 | 0601 | 00 0 | 06416 | 3443 | STO | | GTVAL | |
| 06106 | 0774 | 00 4 | 00000 | 3444 | RDT | AXT | **,4 | TYPE OF LAST CHARACTER |
| 06107 | 0020 | 00 4 | 06137 | 3445 | TRA | | RDJT,4 | DISPATCH ON TYPE |
| | | | 3446 | * | | | | |
| 06110 | 0074 | 00 4 | 06172 | 3447 | RDDD | TSX | GET,4 | IS A LITERAL STRING |
| 06111 | 0500 | 00 0 | 06416 | 3448 | CLA | | GTVAL | USE THIS ITEM AS A DELIMITER |
| 06112 | 0601 | 00 0 | 06413 | 3449 | STO | | RDDDC | |
| 06113 | 0074 | 00 4 | 06172 | 3450 | RDDL | TSX | GET,4 | GET NEXT CHARACTER |
| 06114 | 0500 | 00 0 | 06413 | 3451 | CLA | | RDDDC | GET DELIMITER |
| 06115 | 0340 | 00 0 | 06416 | 3452 | CAS | | GTVAL | COMPARE WITH CHARACTER JUST READ |
| 06116 | 0020 | 00 0 | 06120 | 3453 | TRA | | **2 | NO |
| 06117 | 0020 | 00 0 | 06142 | 3454 | TRA | | RDXT | YES, EXIT |
| 06120 | 0074 | 00 4 | 06241 | 3455 | TSX | | PUT,4 | NO, PUT AWAY THE CHARACTER |
| 06121 | 0020 | 00 0 | 06113 | 3456 | TRA | | RDDL | GET NEXT CHARACTER |
| | | | 3457 | * | | | | |
| 06122 | 0055 | 00 | 000002 | 3458 | RDLT | SIR | 2 | SET LITERAL INDICATOR |
| 06123 | 0055 | 00 | 000001 | 3459 | RDNM | SIR | 1 | SET FIRST CHARACTER INDICATOR |
| 06124 | 0074 | 00 4 | 06241 | 3460 | RDNM | TSX | PUT,4 | PUT THE CHARACTER AWAY |
| 06125 | 0074 | 00 4 | 06172 | 3461 | TSX | | GET,4 | GET NEXT CHARACTER |
| 06126 | 0734 | 00 4 | 00000 | 3462 | PAX | | 0,4 | |
| 06127 | 0020 | 00 4 | 06137 | 3463 | TRA | | RDJT,4 | DISPATCH ON TYPE |
| 06130 | 0020 | 00 0 | 06124 | 3464 | TRA | | RDNM | \$ |
| 06131 | 0020 | 00 0 | 06124 | 3465 | TRA | | RDNM | LITERAL |
| 06132 | 0020 | 00 0 | 06124 | 3466 | TRA | | RDNM | NUMBER |
| 06133 | 0020 | 00 0 | 06142 | 3467 | TRA | | RDXT | , |
| 06134 | 0020 | 00 0 | 06140 | 3468 | TRA | | RDPS | (|
| 06135 | 0020 | 00 0 | 06140 | 3469 | TRA | | RDPS |) |
| 06136 | 0020 | 00 0 | 06164 | 3470 | TRA | | RDPD | . |
| 06137 | 0020 | 00 0 | 06053 | 3471 | RDJT2 | TRA | RDJT1 | ILLEGAL CHARACTER |
| | | | 3472 | * | | | | |
| 06140 | 0500 | 00 4 | 06025 | 3473 | RDPS | CLA | RDVAL,4 | SETUP RDLST CELL |

| | | | | | | | | | |
|-------|-------|-------|---|--------|------|-------|-------|-----------|--------------------------------|
| 06141 | 0601 | 00 | 0 | 06415 | 3474 | STO | ROLST | | |
| 06142 | 0534 | 00 | 4 | 06246 | 3475 | RDXT | LXA | PUTMC,4 | CHARACTER COUNT |
| 06143 | -0754 | 00 | 0 | 00000 | 3476 | | PXD | 0,0 | CLEAR AC |
| 06144 | 3 | 00005 | 4 | 06162 | 3477 | | TXH | TPF,4,5 | GO IF LAST WORD COMPLETED |
| 06145 | 0560 | 00 | 0 | 00471 | 3478 | | LDQ | SEVENS | GET 77 S |
| 06146 | 0522 | 00 | 4 | 06327 | 3479 | | XEC | PTSFT-1,4 | PROPER SHIFT |
| 06147 | 0774 | 00 | 4 | 00006 | 3480 | | AXT | 6,4 | RESET CHARACTER COUNT |
| 06150 | 0634 | 00 | 4 | 06246 | 3481 | | SXA | PUTMC,4 | |
| 06151 | 0534 | 00 | 4 | 06254 | 3482 | | LXA | PUTPC,4 | WORD COUNT |
| 06152 | -0602 | 00 | 4 | 06335 | 3483 | | DRS | RDPNB,4 | PUT IN PNAME BUFFER |
| 06153 | -0754 | 00 | 0 | 00000 | 3484 | | PXD | 0,0 | CLEAR AC |
| 06154 | 0622 | 00 | 4 | 06343 | 3485 | TPFA | STO | PUTVL+6,4 | CHOP OFF PNMAE SAUSAGE |
| 06155 | 0500 | 00 | 0 | 06335 | 3486 | | CLA | PUTVL | GET VALUE |
| 06156 | -0774 | 00 | 4 | 06062 | 3487 | | AXC | RDPU,4 | SET UP TRANSFER TO EXIT |
| 06157 | 0056 | 00 | | 000002 | 3488 | | RNT | 2 | TEST LITERAL INDICATOR |
| 06160 | 0020 | 00 | 0 | 06543 | 3489 | | TRA | \$NUTRN | MAKE IT A NUMBER |
| 06161 | 0020 | 00 | 0 | 06420 | 3490 | | TRA | INTRNI | MAKE IT AN OBJECT |
| | | | | 3491 | * | | | | |
| 06162 | 0534 | 00 | 4 | 06254 | 3492 | TPF | LXA | PUTPC,4 | CORRECT PART COUNT |
| 06163 | 1 | 00001 | 4 | 06154 | 3493 | | TXI | TPFA,4,1 | |
| | | | | 3494 | * | | | | |
| 06164 | 0054 | 00 | | 000002 | 3495 | RDPD | RFT | 2 | TEST FOR LITERAL |
| 06165 | 0020 | 00 | 0 | 06140 | 3496 | | TRA | RDPS | FIRST . TERMINATES A LITERAL |
| 06166 | 0054 | 00 | | 000020 | 3497 | | RFT | 20 | TEST FOR FIRST DOT IN A NUMBER |
| 06167 | 0020 | 00 | 0 | 06140 | 3498 | | TRA | RDPS | SECOND . TERMINATES A NUMBER |
| 06170 | 0055 | 00 | | 000020 | 3499 | | SIR | 20 | SET DOT INDICATOR |
| 06171 | 0020 | 00 | 0 | 06124 | 3500 | | TRA | RDNN | |
| | | | | 3501 | * | | | | |
| 06172 | 0634 | 00 | 4 | 06220 | 3502 | GET | SXA | GTX,4 | SAVE LINK IR |
| 06173 | 0520 | 00 | 0 | 06025 | 3503 | | ZET | LRCIS | TEST FOR NEW CARD NEEDED |
| 06174 | 0020 | 00 | 0 | 06227 | 3504 | | TRA | GTGCD | GET A NEW CAERD |
| 06175 | -0754 | 00 | 0 | 00000 | 3505 | GETGO | PXD | 0,0 | CLEAR AC |
| 06176 | 0560 | 00 | 1 | 06370 | 3506 | | LDQ | CELL,1 | GET NEXT WORD |
| 06177 | -0763 | 00 | 0 | 00003 | 3507 | | LGL | 3 | HIGH ORDER BITS |
| 06200 | 0734 | 00 | 4 | 00000 | 3508 | | PAX | 0,4 | |
| 06201 | -0763 | 00 | 0 | 00003 | 3509 | | LGL | 3 | CHARACTER |
| 06202 | 0340 | 00 | 0 | 00416 | 3510 | | CAS | \$Q014 | IS IT ILLEGAL MINUS SIGN |
| 06203 | 0020 | 00 | 0 | 06205 | 3511 | | TRA | **2 | NO |
| 06204 | 0500 | 00 | 0 | 00423 | 3512 | | CLA | \$Q040 | YES GET LEGAL ONE |
| 06205 | 0601 | 00 | 0 | 06416 | 3513 | | STO | GTVAL | VALUE OF GET FOR PUT |
| 06206 | -0320 | 00 | 0 | 00377 | 3514 | | ANA | \$Q7 | MASK OUT HIGH ORDER BIT |
| 06207 | 0621 | 00 | 0 | 06213 | 3515 | | STA | GTPT | |
| 06210 | -0600 | 00 | 1 | 06370 | 3516 | | STQ | CELL,1 | UPDATE WORD |
| 06211 | -2 | 00001 | 2 | 06222 | 3517 | | TNX | GTPC,2,1 | UPDATE PART COUNT |
| 06212 | 0560 | 00 | 4 | 06352 | 3518 | GTMC | LDQ | GTTBL,4 | GET TABLE ENTRY |
| 06213 | -0763 | 00 | 0 | 00000 | 3519 | GTPT | LGL | ** | SHIFT PROPER ITEM TO AC |
| 06214 | 0522 | 00 | 0 | 06213 | 3520 | | XEC | GTPT | |
| 06215 | 0522 | 00 | 0 | 06213 | 3521 | | XEC | GTPT | |
| 06216 | -0754 | 00 | 0 | 00000 | 3522 | | PXD | 0,0 | CLEAR AC |
| 06217 | -0763 | 00 | 0 | 00003 | 3523 | | LGL | 3 | TYPE NOW IN AC |
| 06220 | 0774 | 00 | 4 | 00000 | 3524 | GTX | AXT | ** ,4 | RESTORE LINK IR |
| 06221 | 0020 | 00 | 4 | 00001 | 3525 | | TRA | 1,4 | |
| | | | | 3526 | * | | | | |
| 06222 | 0774 | 00 | 2 | 00006 | 3527 | GTPC | AXT | 6,2 | RELOAD PART COUNT |

| | | | | | | | | |
|-------|--------------|-------|--------|-------|------|-------|---------------|---------------------------------|
| 06223 | 2 | 00001 | 1 | 06212 | 3528 | TIX | GTMC,1,1 | GO IF NEW WORD NOT NEEDED |
| 06224 | -0625 | 00 | 0 | 06025 | 3529 | STI | LRCIS | GET NEW CARD |
| 06225 | 0774 | 00 | 1 | 00014 | 3530 | AXT | 12,1 | ERELOAD IR 1 |
| 06226 | 0020 | 00 | 0 | 06212 | 3531 | TRA | GTMC | GO BACJ |
| | | | | | 3532 | * | | |
| 06227 | 0074 | 00 | 4 | 00663 | 3533 | GTGCD | TSX \$INPUT,4 | |
| 06230 | 0 | 00000 | 0 | 00000 | 3534 | | \$BCDIN | |
| 06231 | 0 | 00034 | 0 | 06354 | 3535 | | LWPO,,28 | GET NEXT BCD CARD |
| 06232 | 0020 | 00 | 0 | 06234 | 3536 | TRA | **2 | IGNDRE REDUNDNACY ERROR |
| 06233 | 0020 | 00 | 0 | 06236 | 3537 | TRA | GTEOF | EOF RETURN |
| 06234 | 0600 | 00 | 0 | 06025 | 3538 | STZ | LRCIS | SET SWITCH THAT CARD IS PRESENT |
| 06235 | 0020 | 00 | 0 | 06175 | 3539 | TRA | GETGO | NO GO ON |
| | | | | | 3540 | * | | |
| 06236 | -0754 | 00 | 0 | 00000 | 3541 | GTEOF | PXD 0,0 | CLEAR AC |
| 06237 | 0074 | 00 | 4 | 01562 | 3542 | TSX | \$ERROR,4 | GO TO ERROR |
| 06240 | 545160600454 | | | | 3543 | BCI | 1,*R 4* | EOF ON READ IN |
| | | | | | 3544 | * | | |
| 06241 | 0054 | 00 | 000040 | | 3545 | PUT | RFT 40 | TEST TO SEE IF TOOMUCH PNAME |
| 06242 | 0020 | 00 | 0 | 06270 | 3546 | TRA | PTTFA | GO TO ERROR COMMENT |
| 06243 | 0634 | 00 | 4 | 06256 | 3547 | SXA | PUTX,4 | SAVE LINK IR |
| 06244 | 0056 | 00 | 000010 | | 3548 | RNT | 10 | TEST FOR FIRST TIME THRU |
| 06245 | 0020 | 00 | 0 | 06276 | 3549 | TRA | PUTZB | ZERO PNAME BUFFER |
| 06246 | 0774 | 00 | 4 | 00006 | 3550 | PUTMC | AXT 6,4 | CHARACTER COUNT |
| 06247 | 0500 | 00 | 0 | 06416 | 3551 | CLA | GTVAL | GET CHARACTER |
| 06250 | 0560 | 00 | 0 | 00370 | 3552 | LDQ | \$ZERO | |
| 06251 | 0522 | 00 | 4 | 06330 | 3553 | XEC | PTSFT,4 | PROPER SHIFT TO CHARACTER |
| 06252 | -2 | 00001 | 4 | 06260 | 3554 | TNX | PTRFP,4,1 | DECREMENT CHARACTER COUNT |
| 06253 | 0634 | 00 | 4 | 06246 | 3555 | SXA | PUTMC,4 | UPDATE COUNT CELL |
| 06254 | 0774 | 00 | 4 | 00005 | 3556 | PUTPC | AXT 5,4 | NUMBER OF WORDS IN PNAME |
| 06255 | -0602 | 00 | 4 | 06335 | 3557 | PUTGA | ORS RDPNB,4 | PUT CHARACTER IN |
| 06256 | 0774 | 00 | 4 | 00000 | 3558 | PUTX | AXT **,4 | RESTORE LINK IR |
| 06257 | 0020 | 00 | 4 | 00001 | 3559 | TRA | 1,4 | EXIT |
| 06260 | 0774 | 00 | 4 | 00006 | 3560 | PTRFP | AXT 6,4 | RELOAD PART COUNT |
| 06261 | 0634 | 00 | 4 | 06246 | 3561 | SXA | PUTMC,4 | |
| 06262 | 0534 | 00 | 4 | 06254 | 3562 | LXA | PUTPC,4 | WORD COUNT |
| 06263 | -0602 | 00 | 4 | 06335 | 3563 | ORS | RDPNB,4 | |
| 06264 | 2 | 00001 | 4 | 06266 | 3564 | TIX | **2,4,1 | DECREMENT WORD COUNT |
| 06265 | 0055 | 00 | 000040 | | 3565 | SIR | 40 | INDICATE PNAME BUFFER FULL |
| 06266 | 0634 | 00 | 4 | 06254 | 3566 | SXA | PUTPC,4 | UPDATE COUNTER |
| 06267 | 0020 | 00 | 0 | 06256 | 3567 | TRA | PUTX | GO ON |
| | | | | | 3568 | * | | |
| 06270 | 0074 | 00 | 4 | 01222 | 3569 | PITFA | TSX OUTPUT,4 | TOO MANY CHARACTERS |
| 06271 | 0 | 00000 | 0 | 00364 | 3570 | | BCDOUT | WRITE OUT PNAME SO FAR |
| 06272 | 0 | 00006 | 0 | 06327 | 3571 | | RDPNB-6,,6 | |
| 06273 | -0754 | 00 | 0 | 00000 | 3572 | PXD | 0,0 | CLEAR AC |
| 06274 | 0074 | 00 | 4 | 01562 | 3573 | TSX | \$ERROR,4 | GO TO ERROR |
| 06275 | 545160600554 | | | | 3574 | BCI | 1,*R 5* | |
| | | | | | 3575 | * | | |
| 06276 | 0055 | 00 | 000010 | | 3576 | PUTZB | SIR 10 | SET SWITCH |
| 06277 | 0774 | 00 | 4 | 00005 | 3577 | AXT | 5,4 | FIX UP BUFFER |
| 06300 | 0634 | 00 | 4 | 06254 | 3578 | SXA | PUTPC,4 | AND PART COUNT |
| 06301 | 0600 | 00 | 4 | 06335 | 3579 | STZ | RDPNB,4 | |
| 06302 | 2 | 00001 | 4 | 06301 | 3580 | TIX | *-1,4,1 | |
| 06303 | 0500 | 00 | 0 | 06335 | 3581 | CLA | PUTVL | RELINK THE WORDS |

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|-------|--------------|----------|---|-------|--------|--------|---|---------------------------------|------------------------------|
| 06304 | 0774 | 00 | 4 | 00005 | 3582 | AXT | 5,4 | | |
| 06305 | 0402 | 00 | 0 | 00442 | 3583 | SUB | \$QD1 | SET POINTERS | |
| 06306 | 0622 | 00 | 4 | 06343 | 3584 | STD | PUTVL+6,4 | | |
| 06307 | 2 | 00001 | 4 | 06305 | 3585 | TIX | *-2,4,1 | | |
| 06310 | 0020 | 00 | 0 | 06246 | 3586 | TRA | PUTMC | | |
| | | | | | 3587 * | | | | |
| 06311 | -0625 | 00 | 0 | 06025 | 3588 | TEREAD | STL | LRCIS | SET SWITCH TO GET A NEW CARD |
| 06312 | 0500 | 00 | 0 | 00376 | 3589 | CLA | \$Q6 | SET CELLS | |
| 06313 | 0621 | 00 | 0 | 06037 | 3590 | STA | RDPTS | | |
| 06314 | 0621 | 00 | 0 | 06246 | 3591 | STA | PUTMC | | |
| 06315 | 0500 | 00 | 0 | 00403 | 3592 | CLA | \$Q12 | | |
| 06316 | 0621 | 00 | 0 | 06040 | 3593 | STA | RDWDS | | |
| 06317 | 0600 | 00 | 0 | 06415 | 3594 | STZ | RDLST | | |
| 06320 | -0754 | 00 | 0 | 00000 | 3595 | PXD | 0,0 | CLEAR AC | |
| 06321 | 0020 | 00 | 4 | 00001 | 3596 | TRA | 1,4 | EXIT | |
| | | | | | 3597 * | | | | |
| 06322 | -0763 | 00 | 0 | 00036 | 3598 | LGL | 30 | | |
| 06323 | -0763 | 00 | 0 | 00030 | 3599 | LGL | 24 | | |
| 06324 | -0763 | 00 | 0 | 00022 | 3600 | LGL | 18 | | |
| 06325 | -0763 | 00 | 0 | 00014 | 3601 | LGL | 12 | | |
| 06326 | -0763 | 00 | 0 | 00006 | 3602 | LGL | 6 | | |
| 06327 | 0761 | 00 | 0 | 00000 | 3603 | NOP | | | |
| 06330 | | | | | 3604 | PTSFT | BSS | 0 | |
| 06335 | | | | | 3605 | RDPNB | BES | 5 | |
| 06335 | 0 | 71442 | 0 | 00000 | 3606 | PUTVL | ,--1 | VALUE OF RDA | |
| 06336 | 0 | 71441 | 0 | 71450 | 3607 | | -RDPNB+5,--1 | FOR INTERN OF NUTRN | |
| 06337 | 0 | 71440 | 0 | 71447 | 3608 | | -RDPNB+4,--1 | | |
| 06340 | 0 | 71437 | 0 | 71446 | 3609 | | -RDPNB+3,--1 | | |
| 06341 | 0 | 71436 | 0 | 71445 | 3610 | | -RDPNB+2,--1 | | |
| 06342 | 0 | 00000 | 0 | 71444 | 3611 | | -RDPNB+1 | | |
| 06343 | -26043 | 00000000 | | | 3612 | OCT | 660430000000,466666660000,660760000000,566666660000 | | |
| 06344 | -06666666 | 0000 | | | | | | | |
| 06345 | -26076 | 00000000 | | | | | | | |
| 06346 | -16666666 | 0000 | | | | | | | |
| 06347 | -26012 | 00000000 | | | 3613 | OCT | 660120000000,566666660000,550650000000 | | |
| 06350 | -16666666 | 0000 | | | | | | | |
| 06351 | -15065 | 00000000 | | | | | | | |
| 06352 | -15555555 | 0000 | | | 3614 | GTTBL | OCT | 555555550000 | |
| 06353 | 00606060 | 06060 | | | 3615 | RDPB | BCI | 1,0 | |
| 06354 | 0 | 00000 | 0 | 00000 | 3616 | LWPO | | | |
| 06355 | 0 | 00000 | 0 | 00000 | 3617 | LWCKS | | | |
| 06370 | | | | | 3618 | CELL | BES | 10 | |
| 06404 | | | | | 3619 | LWOPB | BES | 12 | |
| 06404 | | | | | 3620 | BSS | 6 | ROOM FOR ID AND LLOK AHEAD BITS | |
| 06412 | 000000000053 | | | | 3621 | RDDLS | BCI | 1,00000\$ | |
| 06413 | 0 | 00000 | 0 | 00000 | 3622 | RDDDC | | | |
| 06414 | 0 | 00000 | 0 | 00000 | 3623 | RDIND | | INDICATOR STORAGE | |
| 06415 | 0 | 00000 | 0 | 00000 | 3624 | RDLST | | | |
| 06416 | 0 | 00000 | 0 | 00000 | 3625 | GTVAL | | | |
| | | | | | 3626 * | | | | |
| | | | | | 3627 | | | | LC326700 |
| | | | | | 3628 | INTERN | | | LC326800 |
| | | | | | 3629 | | | | LC327800 |
| | | | | | 3630 | I | HED | | LC327900 |

MOORE BUSINESS FORMS, INC.
Form - 1413
PRINTED IN U.S.A.

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|-------|-------|-------|---|-------|------|----------|----------------|--------|--------------|-----------------------------|---------------------------------|----------|
| 06501 | 3 | 0000 | 2 | 06443 | 3685 | | | | TXH 04,2,0 | | IF U,V OF DIFFERENT LENGTH,NEXT | LC331200 |
| 06502 | 0500 | 00 | 0 | 06537 | 3686 | | | | CLA 02 | | | LC331300 |
| 06503 | 0020 | 00 | 0 | 06525 | 3687 | | | | TRA ITRX | | | 4020 |
| 06504 | 0500 | 00 | 0 | 06533 | 3688 | | | OUT | CLA \$VALUE | | | LC331600 |
| 06505 | 0074 | 00 | 4 | 07343 | 3689 | | | | TSX \$CPI,4 | | | LC331700 |
| 06506 | 0560 | 00 | 0 | 00370 | 3690 | | | | LDQ \$ZERO | | | 4030 |
| 06507 | 0074 | 00 | 4 | 03730 | 3691 | | | | TSX \$CONS,4 | | | LC331900 |
| 06510 | 0131 | 00 | 0 | 00000 | 3692 | | | | XCA | | | 4040 |
| 06511 | 0500 | 00 | 0 | 00504 | 3693 | | | | CLA OPNA | | | LC332200 |
| 06512 | 0074 | 00 | 4 | 03730 | 3694 | | | | TSX \$CONS,4 | | | LC332300 |
| 06513 | 0131 | 00 | 0 | 00000 | 3695 | | | | XCA | INTO MQ | | 1.5M8180 |
| 06514 | 0500 | 00 | 0 | 00460 | 3696 | | | | CLA \$DMASK | ATOM SYMBOL | | 1.5M8190 |
| 06515 | 0074 | 00 | 4 | 03730 | 3697 | | | | TSX \$CONS,4 | MAKE IT AN ATOM | | 1.5M8200 |
| 06516 | 0560 | 00 | 0 | 06540 | 3698 | | | INTCN | LDQ 05 | LIST OF ATOMS IN BUCKET | | 1.5M8210 |
| 06517 | 0622 | 00 | 0 | 06540 | 3699 | | | | STD 05 | SAVE ATOM AS ANSWER | | 1.5M8220 |
| 06520 | 0074 | 00 | 4 | 03730 | 3700 | | | | TSX \$CONS,4 | ATTACH TO BEGINNING OF LIST | | 1.5M8230 |
| 06521 | 0771 | 00 | 0 | 00022 | 3701 | | | | ARS 18 | PUT IN ADDRESS | | 1.5M8240 |
| 06522 | 0774 | 00 | 4 | 00000 | 3702 | | | BUCK | AXT **,4 | BUCKET NUMBER | | |
| 06523 | 0621 | 00 | 4 | 66427 | 3703 | | | | STA BUCKET,4 | PUT IN PROPER BUCJET | | |
| 06524 | 0500 | 00 | 0 | 06540 | 3704 | | | | CLA 05 | ATOM AS ANSWER | | 1.5M8270 |
| 06525 | 0774 | 00 | 4 | 00000 | 3705 | | | ITRX | AXT **,4 | RESTORE LINK IR | | 1.5M8280 |
| 06526 | 0774 | 00 | 2 | 00000 | 3706 | | | ITRY | AXT **,2 | | | 1.5M8290 |
| 06527 | 0020 | 00 | 4 | 00001 | 3707 | | | | TRA 1,4 | EXIT | | 1.5M8300 |
| 06530 | 0500 | 00 | 0 | 06534 | 3708 | | | INTAD | CLA BSRT | PICK UP ATOM | | 1.5M8150 |
| 06531 | 0600 | 00 | 0 | 06534 | 3709 | | | | STZ BSRT | ZERO LOCATION | | 1.5M8160 |
| 06532 | 0020 | 00 | 0 | 06516 | 3710 | | | | TRA INTCN | PLACE ATOM IN BICKET | | 1.5M8170 |
| 06533 | 0 | 00000 | 0 | 00000 | 3711 | | | | VALUE | POINTER TO PNAME LIST | | |
| 06534 | 0 | 00000 | 0 | 00000 | 3712 | | | | BSRT | ATOM ON CNSFWL WENTRANCE | | 1.5M8320 |
| 06535 | 0 | 00000 | 0 | 00177 | 3713 | | | BUCKNO | PZE 127 | NUMBER OF BUCKETS | | |
| | | | | | 3714 | * | | | | | | 1.5M8140 |
| 06536 | 0 | 00000 | 0 | 00000 | 3715 | 01 | | | | | | LC332700 |
| 06537 | 0 | 00000 | 0 | 00000 | 3716 | 02 | | | | | | LC332800 |
| 06540 | 0 | 00000 | 0 | 00000 | 3717 | 05 | | | | | | LC332900 |
| | | | | 00504 | 3718 | OPNA SYN | | | | PNAME | | LC333000 |
| 06541 | 0 | 00000 | 0 | 00000 | 3719 | Q2 | | | | | | LC333200 |
| 06542 | 0 | 00000 | 0 | 00000 | 3720 | Q4 | | | | | | LC333300 |
| | | | | | 3721 | | | | | | | LC333400 |
| | | | | | 3722 | T | | | | | | LC333500 |
| 06543 | 0634 | 00 | 4 | 06617 | 3723 | NUTRN | SXA NX4,4 | | | SAVE INDEX REGISYERS | | |
| 06544 | 0634 | 00 | 2 | 06616 | 3724 | | SXA NX2,2 | | | | | |
| 06545 | 0634 | 00 | 1 | 06615 | 3725 | | SXA NX1,1 | | | | | |
| 06546 | 0774 | 00 | 1 | 00006 | 3726 | | AXT 6,1 | | | | | LC333900 |
| 06547 | -0534 | 00 | 4 | 06533 | 3727 | | LXD \$VALUE,4 | | | | | LC334000 |
| 06550 | 0500 | 00 | 4 | 00000 | 3728 | NA1 | CLA 0,4 | | | | | LC334100 |
| 06551 | -0734 | 00 | 4 | 00000 | 3729 | | PDX 0,4 | | | | | LC334200 |
| 06552 | 0734 | 00 | 2 | 00000 | 3730 | | PAX 0,2 | | | | | LC334300 |
| 06553 | 0500 | 00 | 2 | 00000 | 3731 | | CLA 0,2 | | | | | LC334400 |
| 06554 | 0601 | 00 | 1 | 07333 | 3732 | | STO BUFFER+6,1 | | | | | LC334500 |
| 06555 | -3 | 00000 | 4 | 06566 | 3733 | | TXL NA2,4,0 | | | | | LC334600 |
| 06556 | 2 | 00001 | 1 | 06550 | 3734 | | TIX NA1,1,1 | | | | | LC334700 |
| 06557 | -0634 | 00 | 4 | 01562 | 3735 | NE | SXD \$ERROR,4 | | | | | LC334800 |
| 06560 | 0074 | 00 | 4 | 01222 | 3736 | | TSX OUTPUT,4 | | | | | LC334900 |
| 06561 | 0 | 00000 | 0 | 00364 | 3737 | | BCDOUT | | | | | LC335000 |
| 06562 | 0 | 00016 | 0 | 06351 | 3738 | | I\$CELL-15,,14 | | | | | LC335100 |

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|--|-------|--------------|---------|-------|-------|------|-----------------|--|-------------------------|
| | 06563 | -0754 | 00 0 | 00000 | 3739 | PXD | 0,0 | CLEAR AC | |
| | 06564 | 0074 | 00 4 | 01563 | 3740 | TSX | \$ERROR+1,4 | | LC335200 |
| | 06565 | 545160600654 | | 3741 | | BCI | 1,*R 6* | NUMBER TOO LARGE IN CONVERSION | |
| | 06566 | 0500 | 00 0 | 00472 | 3742 | NA2 | CLA | BLANKS | LC335600 |
| | 06567 | 0601 | 00 1 | 07334 | 3743 | | STO | BUFFER+7,1 | LC335700 |
| | 06570 | 0500 | 00 0 | 06621 | 3744 | | CLA | KBPCS | PARAMETER FOR NUMBR |
| | 06571 | 0074 | 00 4 | 06622 | 3745 | TSX | \$NU4BR,4 | NUMBER TO MQ | RDCX0032 |
| | 06572 | 0100 | 00 0 | 06557 | 3746 | TZE | NE | OUT-OF-RANGE ERROR | RDCX0033 |
| | 06573 | -0120 | 00 0 | 06612 | 3747 | TMI | NA7 | TRA IF FLOATING NUMBER | RDCX0034 |
| | 06574 | -0760 | 00 0 | 00001 | 3748 | PBT | | TEST FOR OCTAL NUMBER | RDCX0035 |
| | 06575 | 0020 | 00 0 | 06601 | 3749 | TRA | NA3 | TRA IF OCTAL | |
| | 06576 | 0500 | 00 0 | 00503 | 3750 | CLA | \$OCTD | OCTAL SIGNAL FOR \$MKNO | |
| | 06577 | 0131 | 00 0 | 00000 | 3751 | XCA | | | |
| | 06600 | 0020 | 00 0 | 06614 | 3752 | TRA | NA8 | | |
| | 06601 | 0131 | 00 0 | 00000 | 3753 | NA3 | XCA | NUMBER TO AC | |
| | 06602 | 0560 | 00 0 | 00475 | 3754 | LDQ | \$FIXD | FIX TO MQ | |
| | 06603 | -0120 | 00 0 | 06614 | 3755 | TMI | NA8 | | |
| | 06604 | 0340 | 00 0 | 00402 | 3756 | CAS | \$Q10 | TEST FOR 0 THRU 9 | |
| | 06605 | 0020 | 00 0 | 06614 | 3757 | TRA | NA8 | | |
| | 06606 | 0020 | 00 0 | 06614 | 3758 | TRA | NA8 | | |
| | 06607 | 0361 | 00 0 | 00521 | 3759 | ACL | \$H00A | FORM PRINT OBJECT | |
| | 06610 | 0767 | 00 0 | 00022 | 3760 | ALS | 18 | | |
| | 06611 | 0020 | 00 0 | 06615 | 3761 | TRA | NX1 | | |
| | 06612 | 0500 | 00 0 | 00476 | 3762 | NA7 | CLA | FLOATD | FLOAT SIGNAL FOR \$MKNO |
| | 06613 | 0131 | 00 0 | 00000 | 3763 | XCA | | NUMBER TO AC | RDCX0036 |
| | 06614 | 0074 | 00 4 | 12636 | 3764 | NA8 | TSX | \$MKNO,4 | MAKE A NUMBER |
| | 06615 | 0774 | 00 1 | 00000 | 3765 | NX1 | AXT | ** ,1 | RESTORE INDEX REGISTERS |
| | 06616 | 0774 | 00 2 | 00000 | 3766 | NX2 | AXT | ** ,2 | |
| | 06617 | 0774 | 00 4 | 00000 | 3767 | NX4 | AXT | ** ,4 | |
| | 06620 | 0020 | 00 4 | 00001 | 3768 | TRA | 1,4 | | RDCX0053 |
| | 06621 | 0 00001 | 0 07325 | 3769 | KBPOS | PZE | BUFFER,,1 | | RDCX0055 |
| | | | | 3770 | | | | | LC339000 |
| | | | | 3771 | | | | | LC339100 |
| | | | | 3772 | F | HED | | | RDCS0010 |
| | | | | 3773 | | | | | NUMB0000 |
| | | | | 3774 | | | | NUMBR CONVERTS PACKED BCD CHARACTERS TO A NUMBER WHICH | NUMB0001 |
| | | | | 3775 | | | | APPEARS IN MQ. DBC CONVENTIONS ARE FOLLOWED. OCTAL | NUMB0002 |
| | | | | 3776 | | | | NUMBERS ARE SIGNALLED BY Q AND MAY BE FOLLOWED BY A | NUMB0003 |
| | | | | 3777 | | | | SCALE FACTOR. | NUMB0004 |
| | | | | 3778 | | | | | NUMB0005 |
| | | | | 3779 | | | | ROUTINE STOLEN FROM UADBC1 | NUMB0006 |
| | | | | 3780 | | | | | NUMB0007 |
| | | | | 3781 | | | | | NUMB0008 |
| | 29+ | 06622 | 0634 | 00 1 | 07155 | 3782 | NUMBR SXA PX1,1 | SAVE INDEX REGISTERS | NUMB0009 |
| | | 06623 | 0634 | 00 2 | 07156 | 3783 | SXA PX2,2 | | NUMB0010 |
| | | 06624 | 0634 | 00 4 | 07157 | 3784 | SXA PX4,4 | | NUMB0011 |
| | | 06625 | 0602 | 00 0 | 77665 | 3785 | SLW T | | NUMB0012 |
| | | 06626 | 0737 | 00 2 | 00000 | 3786 | PAC ,2 | IR2 HAS WORD COUNT | NUMB0013 |
| | | 06627 | -0737 | 00 1 | 00000 | 3787 | PDC ,1 | IR1 WILL GET CHARACTER COUNT | NUMB0014 |
| | | 06630 | 0771 | 00 0 | 00021 | 3788 | ARS 17 | | NUMB0015 |
| | | 06631 | 0601 | 00 0 | 77666 | 3789 | STO N | | NUMB0016 |
| | | 06632 | 0767 | 00 0 | 00001 | 3790 | ALS 1 | | NUMB0017 |
| | | 06633 | 0400 | 00 0 | 77666 | 3791 | ADD N | | NUMB0018 |
| | | 06634 | 0737 | 00 4 | 00000 | 3792 | PAC ,4 | | NUMB0019 |

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|-------|-------|-------|---|-------|------|-------|---------|---|---------------------------------------|
| 06635 | 0560 | 00 | 2 | 00000 | 3793 | LDQ | 0,2 | PUT BCD WORD IN MQ | NUMB0020 |
| 06636 | -0763 | 00 | 4 | 77772 | 3794 | LGL | -6,4 | SHIFT OUT EXTRA CHARACTERS | NUMB0021 |
| 06637 | -0600 | 00 | 0 | 77662 | 3795 | STQ | MQ | SAVE FIRST BATCH OF CHARACTERS | NUMB0022 |
| 06640 | 1 | 00007 | 1 | 06641 | 3796 | TXI | *+1,1,7 | | NUMB0023 |
| | | | | 3797 | | | | | NUMB0024 |
| | | | | 3798 | | | | LOOK AT CHARACTERS UNTIL A Q OR NON-OCTAL CHARACTER APPEARS | NUMB0025 |
| | | | | 3799 | | | | | NUMB0026 |
| 06641 | -0754 | 00 | 0 | 00000 | 3800 | CY3 | PXD | ,0 | |
| 06642 | -0763 | 00 | 0 | 00006 | 3801 | | LGL | 6 | NUMB0028 |
| 06643 | 0402 | 00 | 0 | 00400 | 3802 | | SUB | Q8 | TEST FOR OCTAL DIGIT |
| 06644 | 0120 | 00 | 0 | 06651 | 3803 | | TPL | CY4 | NUMB0030 |
| 06645 | 2 | 00001 | 1 | 06641 | 3804 | CY2 | TIX | CY3,1,1 | GET NEXT CHARACTER |
| 06646 | 1 | 77777 | 2 | 06647 | 3805 | | TXI | *+1,2,-1 | NUMB0032 |
| 06647 | 0560 | 00 | 2 | 00000 | 3806 | | LDQ | 0,2 | NUMB0033 |
| 06650 | 1 | 00005 | 1 | 06641 | 3807 | | TXI | CY3,1,5 | NUMB0034 |
| 06651 | 0400 | 00 | 0 | 00400 | 3808 | CY4 | ADD | Q8 | NUMB0035 |
| 06652 | 0340 | 00 | 0 | 00426 | 3809 | | CAS | Q | NUMB0036 |
| 06653 | 0020 | 00 | 0 | 06666 | 3810 | | TRA | DECNO | NUMB0037 |
| 06654 | 0020 | 00 | 0 | 07170 | 3811 | | TRA | OCTNO | IF Q, NUMBER IS OCTAL |
| 06655 | 0340 | 00 | 0 | 00423 | 3812 | | CAS | MINUS | IF CHARACTER IS MINUS, PLUS, OR DASH, |
| 06656 | 0020 | 00 | 0 | 06666 | 3813 | | TRA | DECNO | LOOK AT MORE CHARACTERS, |
| 06657 | 0020 | 00 | 0 | 06645 | 3814 | | TRA | CY2 | OTHERWISE NUMBER IS DECIMAL |
| 06660 | 0340 | 00 | 0 | 00420 | 3815 | | CAS | PLUS | NUMB0042 |
| 06661 | 0020 | 00 | 0 | 06666 | 3816 | | TRA | DECNO | NUMB0043 |
| 06662 | 0020 | 00 | 0 | 06645 | 3817 | | TRA | CY2 | NUMB0044 |
| 06663 | 0340 | 00 | 0 | 00416 | 3818 | | CAS | DASH | NUMB0045 |
| 06664 | 0020 | 00 | 0 | 06666 | 3819 | | TRA | DECNO | NUMB0046 |
| 06665 | 0020 | 00 | 0 | 06645 | 3820 | | TRA | CY2 | NUMB0047 |
| | | | | 3821 | | | | | NUMB0048 |
| 06666 | 0535 | 00 | 2 | 77665 | 3822 | DECNO | LAC | T,2 | IR2 HAS WORD COUNT |
| 06667 | -0535 | 00 | 1 | 77665 | 3823 | | LDC | T,1 | IR1 WILL GET CHARACTER COUNT |
| 06670 | 0560 | 00 | 0 | 77662 | 3824 | | LDQ | MQ | RESTORE FIRST GROUP OF CHARACTERS |
| 06671 | -0754 | 00 | 0 | 00000 | 3825 | | PXD | ,0 | |
| 06672 | 0602 | 00 | 0 | 77662 | 3826 | BN2 | SLW | BN | REGISTERS |
| 06673 | 0602 | 00 | 0 | 77663 | 3827 | EX2 | SLW | EXPN | NUMB0054 |
| 06674 | 0602 | 00 | 0 | 77666 | 3828 | INTN | SLW | N | NUMB0055 |
| 06675 | -0534 | 00 | 4 | 00402 | 3829 | | LXD | Q10,4 | SET DECIMAL COUNT TO ZERO |
| 06676 | -0500 | 00 | 0 | 06766 | 3830 | | CAL | SW1 | RESET SWITCHES FOR |
| 06677 | 0630 | 00 | 0 | 07033 | 3831 | | STP | CM2 | FIXED POINT |
| 06700 | 0630 | 00 | 0 | 07106 | 3832 | | STP | CM6 | X |
| 06701 | 0630 | 00 | 0 | 07011 | 3833 | | STP | EXS | EXP |
| 06702 | 0630 | 00 | 0 | 07035 | 3834 | | STP | CM3 | POINT |
| 06703 | 0630 | 00 | 0 | 07020 | 3835 | | STP | CX3 | DECIMAL NUMBER |
| 06704 | -0500 | 00 | 0 | 06674 | 3836 | | CAL | INTN | INITIALIZE CONVERSION |
| 06705 | 1 | 00010 | 1 | 06720 | 3837 | | TXI | BN3,1,8 | FIX INITIAL CHARACTER COUNT |
| 06706 | 0502 | 00 | 0 | 07035 | 3838 | PT1 | CLS | CM3 | INVERT SWITCH TO SIGNAL DECIMAL POINT |
| 06707 | 0601 | 00 | 0 | 07035 | 3839 | | STD | CM3 | NUMB0066 |
| 06710 | -0500 | 00 | 0 | 06743 | 3840 | | CAL | CV3 | NUMB0067 |
| 06711 | 0621 | 00 | 0 | 06760 | 3841 | | STA | CV5 | ROUTINE TO COUNT |
| 06712 | 0621 | 00 | 0 | 06763 | 3842 | | STA | CV6 | DECIMAL PLACES |
| 06713 | 1 | 00001 | 4 | 06760 | 3843 | | TXI | CV5,4,1 | NUMB0070 |
| 06714 | 1 | 77777 | 4 | 06743 | 3844 | PT3 | TXI | CV3,4,-1 | COUNT DECIMAL PLACES |
| 06715 | 0502 | 00 | 0 | 07011 | 3845 | EX1 | CLS | EXS | INVERT SWITCH TO SIGNAL EXPONENT |
| 06716 | 0601 | 00 | 0 | 07011 | 3846 | | STD | EXS | NUMB0072 |
| | | | | | | | | | NUMB0073 |

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|-------|----------|------|-------|------|------|------------------|--|--|----------|
| 06717 | -0500 | 00 0 | 06673 | 3847 | | CAL EX2 | | SET UP EXPONENT CONVERSION | NUMB0074 |
| 06720 | 0621 | 00 0 | 06751 | 3848 | BN3 | STA CV7 | | STORE CONVERSION | NUMB0075 |
| 06721 | 0621 | 00 0 | 06753 | 3849 | | STA CV8 | | ADDRESS | NUMB0076 |
| 06722 | 0621 | 00 0 | 06757 | 3850 | | STA CV9 | | | NUMB0077 |
| 06723 | -0500 | 00 0 | 06714 | 3851 | | CAL PT3 | | INITIAL CONVERSION | NUMB0078 |
| 06724 | 0621 | 00 0 | 06760 | 3852 | | STA CV5 | | WITHOUT DECIMAL COUNT | NUMB0079 |
| 06725 | 0621 | 00 0 | 06763 | 3853 | | STA CV6 | | | NUMB0080 |
| 06726 | -0500 | 00 0 | 06753 | 3854 | PL1 | CAL CV8 | | | NUMB0081 |
| 06727 | 0622 | 00 0 | 06755 | 3855 | MN3 | STD CV10 | | | NUMB0082 |
| 06730 | 0140 | 00 0 | 06760 | 3856 | | TOV CV5 | | | NUMB0083 |
| 06731 | -3 00000 | 0 0 | 06760 | 3857 | | TXL CV5 | | | NUMB0084 |
| 06732 | 0500 | 00 0 | 07033 | 3858 | BN1 | CLA CM2 | | INVERT SWITCHES TO SIGNAL FIXED POINT | NUMB0085 |
| 06733 | 0630 | 00 0 | 07033 | 3859 | | STP CM2 | | | NUMB0086 |
| 06734 | 0630 | 00 0 | 07106 | 3860 | | STP CM6 | | | NUMB0087 |
| 06735 | -0500 | 00 0 | 06672 | 3861 | | CAL BN2 | | SET UP B CONVERSION | NUMB0088 |
| 06736 | -3 00000 | 0 0 | 06720 | 3862 | | TXL BN3 | | | NUMB0089 |
| 06737 | 0500 | 00 0 | 00455 | 3863 | MN1 | CLA PBIT | | START NEGATIVE ACCUMULATION WITH NEG. ZERO | NUMB1000 |
| 06740 | 0601 | 60 0 | 06751 | 3864 | | STO* CV7 | | | NUMB1001 |
| 06741 | -0500 | 00 0 | 06742 | 3865 | | CAL MN2 | | OP CODE TO MAKE CV10 A SUB INSTRUCTION | NUMB1002 |
| 06742 | -3 40200 | 0 0 | 06727 | 3866 | MN2 | TXL MN3,0,258*64 | | | NUMB0091 |
| 06743 | -0754 | 00 0 | 06714 | 3867 | CV3 | PXD PT3,0 | | | |
| 06744 | -0763 | 00 0 | 00006 | 3868 | | LGL 6 | | | NUMB0093 |
| 06745 | 0340 | 00 0 | 00402 | 3869 | | CAS TEN | | TEST FOR DIGIT | NUMB0094 |
| 06746 | -3 00000 | 0 0 | 06765 | 3870 | | TXL CM | | | NUMB0095 |
| 06747 | -3 00000 | 0 0 | 07007 | 3871 | | TXL CV2 | | | NUMB0096 |
| 06750 | 0602 | 00 0 | 77664 | 3872 | | SLW CH | | PERFORM CODED | NUMB0097 |
| 06751 | 0500 | 00 0 | 77666 | 3873 | CV7 | CLA N | | MULTIPLICATION | NUMB0098 |
| 06752 | 0767 | 00 0 | 00002 | 3874 | | ALS 2 | | BY TEN AND ADD | NUMB0099 |
| 06753 | 0400 | 00 0 | 77666 | 3875 | CV8 | ADD N | | CURRENT DIGIT | NUMB0100 |
| 06754 | 0767 | 00 0 | 00001 | 3876 | | ALS 1 | | | NUMB0101 |
| 06755 | 0400 | 00 0 | 77664 | 3877 | CV10 | ADD CH | | | NUMB0102 |
| 06756 | 0140 | 00 0 | 06764 | 3878 | | TOV OVF | | TEST FOR OVERFLOW | NUMB0103 |
| 06757 | 0601 | 00 0 | 77666 | 3879 | CV9 | STO N | | | NUMB0104 |
| 06760 | 2 00001 | 1 0 | 06743 | 3880 | CV5 | TXI CV3,1,1 | | COUNT CHARACTERS | NUMB0105 |
| 06761 | 1 77777 | 2 0 | 06762 | 3881 | | TXI CV4,2,-1 | | OBTAIN NEXT BCD | NUMB0106 |
| 06762 | 0560 | 00 2 | 00000 | 3882 | CV4 | LDQ 0,2 | | WORD AND RESTORE | NUMB0107 |
| 06763 | 1 00005 | 1 0 | 06743 | 3883 | CV6 | TXI CV3,1,5 | | CHARACTER COUNT | NUMB0108 |
| 06764 | 1 00001 | 4 0 | 06760 | 3884 | OVF | TXI CV5,4,1 | | COUNT DECIMAL OVERFLOWS | NUMB0109 |
| 06765 | 0340 | 00 0 | 00423 | 3885 | CM | CAS MINUS | | | NUMB0110 |
| 06766 | -3 00000 | 0 0 | 07007 | 3886 | SW1 | TXL CV2 | | | NUMB0111 |
| 06767 | -3 00000 | 0 0 | 06737 | 3887 | | TXL MN1 | | | NUMB0112 |
| 06770 | 0340 | 00 0 | 00422 | 3888 | | CAS POINT | | | NUMB0113 |
| 06771 | -3 00000 | 0 0 | 07007 | 3889 | | TXL CV2 | | | NUMB0114 |
| 06772 | -3 00000 | 0 0 | 06706 | 3890 | | TXL PJ1 | | | NUMB0115 |
| 06773 | 0340 | 00 0 | 00410 | 3891 | | CAS E | | | NUMB0116 |
| 06774 | -3 00000 | 0 0 | 07007 | 3892 | | TXL CV2 | | | NUMB0117 |
| 06775 | -3 00000 | 0 0 | 06715 | 3893 | | TXL EX1 | | | NUMB0118 |
| 06776 | 0340 | 00 0 | 00421 | 3894 | | CAS B | | | NUMB0119 |
| 06777 | -3 00000 | 0 0 | 07007 | 3895 | | TXL CV2 | | | NUMB0120 |
| 07000 | -3 00000 | 0 0 | 06732 | 3896 | | TXL BN1 | | | NUMB0121 |
| 07001 | 0340 | 00 0 | 00420 | 3897 | | CAS PLUS | | | NUMB0122 |
| 07002 | -3 00000 | 0 0 | 07007 | 3898 | | TXL CV2 | | | NUMB0123 |
| 07003 | -3 00000 | 0 0 | 06726 | 3899 | | TXL PL1 | | | NUMB0124 |
| 07004 | 0340 | 00 0 | 00416 | 3900 | | CAS DASH | | DASH TREATED LIKE MINUS | NUMB0125 |

| | | | | | | | | | |
|-------|-------|-------|---|-------|------|------|--------------|--|----------|
| 07005 | 0020 | 00 | 0 | 07007 | 3901 | | TRA CV2 | | NUMB0126 |
| 07006 | 0020 | 00 | 0 | 06737 | 3902 | | TRA MN1 | | NUMB0127 |
| 07007 | 0500 | 00 | 0 | 77666 | 3903 | CV2 | CLA N | | NUMB0128 |
| 07010 | 0100 | 00 | 0 | 07161 | 3904 | | TZE STZ | SEE IF ZERO FIXED OR FLOATING | NUMB0129 |
| 07011 | -3 | 00000 | 0 | 07020 | 3905 | EXS | TXL CX3 | SWITCH - TXH INDICATES EXPONENT | NUMB0130 |
| 07012 | -0500 | 00 | 0 | 00455 | 3906 | | CAL PBIT | PREPARE TRUE | NUMB0131 |
| 07013 | 0400 | 00 | 0 | 77663 | 3907 | | ADD EXPN | DECIMAL EXPONENT | NUMB0132 |
| 07014 | 0767 | 00 | 0 | 00022 | 3908 | | ALS 18 | | NUMB0133 |
| 07015 | 0622 | 00 | 0 | 07017 | 3909 | | STD CM4 | | NUMB0134 |
| 07016 | 0500 | 00 | 0 | 77666 | 3910 | | CLA N | | NUMB0135 |
| 07017 | 1 | 00000 | 4 | 07036 | 3911 | CM4 | TXI | CM5,4,0 | |
| 07020 | -3 | 00000 | 0 | 07033 | 3912 | CX3 | TXL CM2 | SWITCH - TXH INDICATES OCTAL | NUMB0137 |
| | | | | | 3913 | | | SCALE OCTAL NUMBER | NUMB0138 |
| 07021 | 0500 | 00 | 0 | 77662 | 3914 | | CLA BN | MULTIPLY SCALE FACTOR BY 3 | NUMB0139 |
| 07022 | 0767 | 00 | 0 | 00001 | 3915 | | ALS 1 | FOR NUMBER OF SHIFTS NEEDED | NUMB0140 |
| 07023 | 0400 | 00 | 0 | 77662 | 3916 | | ADD BN | | NUMB0141 |
| 07024 | 0621 | 00 | 0 | 07026 | 3917 | | STA CX5 | | NUMB0142 |
| 07025 | 0500 | 00 | 0 | 77666 | 3918 | | CLA N | | NUMB0143 |
| 07026 | 0767 | 00 | 0 | 00000 | 3919 | CX5 | ALS ** | | NUMB0144 |
| 07027 | -0760 | 00 | 0 | 00001 | 3920 | | PBT | ALLOW FOR P BIT | NUMB0145 |
| 07030 | 0020 | 00 | 0 | 07126 | 3921 | | TRA Istor | | NUMB0146 |
| 07031 | -0760 | 00 | 0 | 00003 | 3922 | | SSM | | NUMB0147 |
| 07032 | 0020 | 00 | 0 | 07126 | 3923 | | TRA Istor | | NUMB0148 |
| | | | | | 3924 | | | | NUMB0149 |
| 07033 | -3 | 00000 | 0 | 07035 | 3925 | CM2 | TXL CM3 | SWITCH - INVERTED TO TXH INDICATES FIXED POINT | NUMB0150 |
| 07034 | -3 | 00000 | 0 | 07036 | 3926 | | TXL CM5 | | NUMB0151 |
| 07035 | -3 | 00000 | 0 | 07126 | 3927 | CM3 | TXL Istor | SWITCH - TXH INDICATES POINT | NUMB0152 |
| 07036 | 0621 | 00 | 0 | 07243 | 3928 | CM5 | STA FL1 | 35 BIT INTEGER | NUMB0153 |
| 07037 | 0771 | 00 | 0 | 00017 | 3929 | | ARS 15 | | NUMB0154 |
| 07040 | -0501 | 00 | 0 | 07244 | 3930 | | ORA FL2 | | NUMB0155 |
| 07041 | 0300 | 00 | 0 | 07244 | 3931 | | FAD FL2 | | NUMB0156 |
| 07042 | 0120 | 00 | 0 | 07045 | 3932 | | TPL CMF1 | | NUMB0157 |
| 07043 | 0302 | 00 | 0 | 07243 | 3933 | | FSB FL1 | | NUMB0158 |
| 07044 | -3 | 00000 | 0 | 07046 | 3934 | | TXL CMF2 | | NUMB0159 |
| 07045 | 0300 | 00 | 0 | 07243 | 3935 | CMF1 | FAD FL1 | | NUMB0160 |
| 07046 | -0600 | 00 | 0 | 77670 | 3936 | CMF2 | STQ RESID | | NUMB0161 |
| 07047 | -3 | 00000 | 4 | 07106 | 3937 | | TXL | CM6,4,0 | |
| 07050 | 3 | 00046 | 4 | 07071 | 3938 | SW2 | TXH CM7,4,38 | TEST FOR NEGATIVE EXP | NUMB0163 |
| 07051 | 0634 | 00 | 4 | 07052 | 3939 | | SXA **1,4 | COMPUTE ABSOLUTE VALUE OF EXPONENT | NUMB0164 |
| 07052 | -0774 | 00 | 4 | 00000 | 3940 | | AXC **,4 | | NUMB0165 |
| 07053 | 0601 | 00 | 0 | 77667 | 3941 | | STD DATUM | | NUMB0166 |
| 07054 | 0560 | 00 | 4 | 07244 | 3942 | | LDQ ONE,4 | COMPUTE FLOATING | NUMB0167 |
| 07055 | 0260 | 00 | 0 | 77667 | 3943 | | FMP DATUM | BINARY REPRESENTATION | NUMB0168 |
| 07056 | 0601 | 00 | 0 | 77665 | 3944 | | STD T | OF INTEGER TIMES THE | |
| 07057 | -0600 | 00 | 0 | 77666 | 3945 | | STQ T+1 | POWER OF TEN GIVEN | NUMB0170 |
| 07060 | 0560 | 00 | 4 | 07244 | 3946 | | LDQ ONE,4 | BY THE TRUE EXPONENT | NUMB0171 |
| 07061 | 0260 | 00 | 0 | 77670 | 3947 | | FMP RESID | | NUMB0172 |
| 07062 | 0300 | 00 | 0 | 77666 | 3948 | | FAD T+1 | | NUMB0173 |
| 07063 | 0300 | 00 | 0 | 77665 | 3949 | | FAD T | | NUMB0174 |
| 07064 | 0361 | 00 | 0 | 07241 | 3950 | | ACL EXC1 | | NUMB0175 |
| 07065 | -0760 | 00 | 0 | 00001 | 3951 | | PBT | | NUMB0176 |
| 07066 | -3 | 00000 | 0 | 07106 | 3952 | | TXL CM6 | | NUMB0177 |
| 07067 | -0754 | 00 | 0 | 00000 | 3953 | CM8 | PXD | ,0 | |
| 07070 | 0020 | 00 | 0 | 07155 | 3954 | | TRA PX1 | NUMBER OUT OF RANGE, EXIT WITH 0 IN AC | NUMB0179 |

| | | | | | | | | | |
|-------|-------|-------|---------|-------|-------|--------------|------------------------------------|----------------------|----------|
| 07071 | -3 | 77717 | 4 | 07067 | 3955 | CM7 | TXL CM8,4,-49 | TEST FOR ILLEGAL EXP | NUMB0180 |
| 07072 | 0161 | 00 0 | 07073 | 3956 | CM13 | TQO CM13+1 | | NUMB0181 | |
| 07073 | 0241 | 00 4 | 07244 | 3957 | | FOP ONE,4 | COMPUTE FLOATING | NUMB0182 | |
| 07074 | -0600 | 00 0 | 77665 | 3958 | | STQ T | BINARY EQUIVALENT | NUMB0183 | |
| 07075 | 0300 | 00 0 | 77670 | 3959 | | FAD RESID | OF INTEGER TIMES | NUMB0184 | |
| 07076 | 0241 | 00 4 | 07244 | 3960 | | FDP ONE,4 | POWER OF TEN GIVEN | NUMB0185 | |
| 07077 | 0161 | 00 0 | 07067 | 3961 | | TQO CM8 | | NUMB0186 | |
| 07100 | -0600 | 00 0 | 77666 | 3962 | | STQ T+1 | BY TRUE EXPONENT | NUMB0187 | |
| 07101 | 0500 | 00 0 | 77666 | 3963 | | CLA T+1 | | NUMB0188 | |
| 07102 | 0300 | 00 0 | 77665 | 3964 | | FAD T | | NUMB0189 | |
| 07103 | 0361 | 00 0 | 07242 | 3965 | | ACL EXC2 | | NUMB0190 | |
| 07104 | -0760 | 00 0 | 00001 | 3966 | | PBT | | NUMB0191 | |
| 07105 | -3 | 00000 | 0 07067 | 3967 | | TXL CM8 | | NUMB0192 | |
| 07106 | -3 | 00000 | 0 07131 | 3968 | CM6 | TXL FSTOR | SWITCH - TXH INDICATES FIXED POINT | NUMB0193 | |
| 07107 | 0601 | 00 0 | 77665 | 3969 | | STO T | | NUMB0194 | |
| 07110 | 0767 | 00 0 | 00002 | 3970 | | ALS 2 | | NUMB0195 | |
| 07111 | -0760 | 00 0 | 00003 | 3971 | | SSM | DETERMINE SHIFT | NUMB0196 | |
| 07112 | 0771 | 00 0 | 00035 | 3972 | | ARS 29 | NECESSARY TO POSITION | NUMB0197 | |
| 07113 | 0400 | 00 0 | 00415 | 3973 | | ADD Q128 | NUMBER AS INDICATED | NUMB0198 | |
| 07114 | 0400 | 00 0 | 77662 | 3974 | | ADD BN | BY B | NUMB0199 | |
| 07115 | 0120 | 00 0 | 07117 | 3975 | | TPL SHIFT | | NUMB0200 | |
| 07116 | -0100 | 00 0 | 07067 | 3976 | | TNZ CM8 | | NUMB0201 | |
| 07117 | 0621 | 00 0 | 07125 | 3977 | SHIFT | STA CM12 | | NUMB0202 | |
| 07120 | 0500 | 00 0 | 77665 | 3978 | | CLA T | REMOVE CHARACTERISTICS | NUMB0203 | |
| 07121 | 0763 | 00 0 | 00010 | 3979 | | LLS 8 | FROM FLOATING NUMBER | NUMB0204 | |
| 07122 | 0767 | 00 0 | 00002 | 3980 | | ALS 2 | | NUMB0205 | |
| 07123 | 0771 | 00 0 | 00012 | 3981 | | ARS 10 | | NUMB0206 | |
| 07124 | 0763 | 00 0 | 00010 | 3982 | | LLS 8 | | NUMB0207 | |
| 07125 | 0765 | 00 0 | 00000 | 3983 | CM12 | LRS ** | | | |
| 07126 | 0131 | 00 0 | 00000 | 3984 | ISTOR | XCA | RESULT TO MQ | NUMB0209 | |
| 07127 | -0500 | 00 0 | 06766 | 3985 | ISTO1 | CAL SW1 | SET FIXED POINT INDICATOR SWITCH | NUMB0210 | |
| 07130 | 0020 | 00 0 | 07133 | 3986 | | TRA XT3 | | NUMB0211 | |
| 07131 | 0131 | 00 0 | 00000 | 3987 | FSTOR | XCA | RESULT TO MQ | NUMB0212 | |
| 07132 | 0500 | 00 0 | 06766 | 3988 | | CLA SW1 | SET FLOAT INDICATOR SWITCH | NUMB0213 | |
| 07133 | 0630 | 00 0 | 07153 | 3989 | XT3 | STP XT1 | | NUMB0214 | |
| 07134 | 2 | 00001 | 1 07137 | 3990 | | TIX XT2,1,1 | IF NO SIGNIFICANT CHARACTERS | NUMB0215 | |
| 07135 | 1 | 77777 | 2 07136 | 3991 | | TXI **1,2,-1 | LEFT IN WORD, MOVE TO NEXT WORD | NUMB0216 | |
| 07136 | 0774 | 00 1 | 00006 | 3992 | | AXT 6,1 | | NUMB0217 | |
| 07137 | -0754 | 00 1 | 00000 | 3993 | XT2 | PXD ,1 | SET POSITION INDICATORS | NUMB0218 | |
| 07140 | 0402 | 00 0 | 00446 | 3994 | | SUB QD7 | | NUMB0219 | |
| 07141 | 0602 | 00 0 | 77665 | 3995 | | SLW T | | NUMB0220 | |
| 07142 | -0500 | 00 0 | 07020 | 3996 | | CAL CX3 | P BIT IN OUTPUT INDICATES OCTAL | | |
| 07143 | -0320 | 00 0 | 00455 | 3997 | | ANA \$SBIT | | | |
| 07144 | -0602 | 00 0 | 77665 | 3998 | | ORS T | | | |
| 07145 | 0760 | 00 0 | 00006 | 3999 | | CDM | | | |
| 07146 | 0630 | 00 0 | 77665 | 4000 | | STP T | | | |
| 07147 | 0634 | 00 2 | 07150 | 4001 | | SXA **1,2 | | NUMB0221 | |
| 07150 | -0774 | 00 2 | 00000 | 4002 | | AXC **,2 | | NUMB0222 | |
| 07151 | 0754 | 00 2 | 00000 | 4003 | | PXA ,2 | | NUMB0223 | |
| 07152 | 0361 | 00 0 | 77665 | 4004 | | ACL T | | NUMB0224 | |
| 07153 | -3 | 00000 | 0 07155 | 4005 | XT1 | TXL **2 | SET SIGN + FOR FIXED, | NUMB0225 | |
| 07154 | -0760 | 00 0 | 00003 | 4006 | | SSM | - FOR FLOATING | NUMB0226 | |
| 07155 | 0774 | 00 1 | 00000 | 4007 | PX1 | AXT ,1 | RESTORE INDEX REGISTERS | NUMB0227 | |
| 07156 | 0774 | 00 2 | 00000 | 4008 | PX2 | AXT ,2 | | NUMB0228 | |

| | | | | | | | | | |
|-------|----------|----|-------|-------|------|-------|---------------|--|----------|
| 07157 | 0774 | 00 | 4 | 00000 | 4009 | PX4 | AXT ,4 | | NUMB0229 |
| 07160 | 0020 | 00 | 4 | 00001 | 4010 | | TRA 1,4 | EXIT | NUMB0230 |
| | | | | | 4011 | | | | NUMB0231 |
| | | | | | 4012 | | | WE GET HERE IF NUMBER IS ZERO. | NUMB0232 |
| | | | | | 4013 | | | WE HERE DECIDE WHETHER WE ARE FACED WITH A FIXED OR FLOATING | NUMB0233 |
| | | | | | 4014 | | | ZERO. | NUMB0234 |
| | | | | | 4015 | | | | NUMB0235 |
| 07161 | 0560 | 00 | 0 | 07033 | 4016 | STZ | LDQ CM2 | TXH (+) IF B | NUMB0236 |
| 07162 | 0162 | 00 | 0 | 07126 | 4017 | | TQP Istor | | NUMB0237 |
| 07163 | 0560 | 00 | 0 | 07035 | 4018 | | LDQ CM3 | TXH (+) IF DECIMAL POINT FOUND | NUMB0238 |
| 07164 | 0162 | 00 | 0 | 07131 | 4019 | | TQP Fstor | | NUMB0239 |
| 07165 | 0560 | 00 | 0 | 07011 | 4020 | | LDQ EXS | TXH (+) IF E FOUND | NUMB0240 |
| 07166 | 0162 | 00 | 0 | 07131 | 4021 | | TQP Fstor | | NUMB0241 |
| 07167 | 0020 | 00 | 0 | 07126 | 4022 | | TRA Istor | | NUMB0242 |
| | | | | | 4023 | | | | NUMB0246 |
| | | | | | 4024 | | | PROCESS OCTAL NUMBER | NUMB0247 |
| | | | | | 4025 | | | | NUMB0248 |
| 07170 | 0535 | 00 | 2 | 77665 | 4026 | OCTNO | LAC T,2 | IR2 HAS WORD COUNT | NUMB0249 |
| 07171 | -0535 | 00 | 1 | 77665 | 4027 | | LDC T,1 | IR1 WILL GET CHARACTER COUNT | NUMB0250 |
| 07172 | 0560 | 00 | 0 | 77662 | 4028 | | LDQ MQ | RESTORE FIRST GROUP OF CHARACTERS | NUMB0251 |
| 07173 | -0754 | 00 | 0 | 00000 | 4029 | | PXD ,0 | | |
| 07174 | 0621 | 00 | 0 | 06751 | 4030 | | STA CV7 | SET SIGNAL FOR OCTAL NUMBER | NUMB0253 |
| 07175 | 1 00010 | 1 | 07203 | 4031 | | | TXI OCT9,1,8 | FIX CHARACTER COUNT | NUMB0254 |
| 07176 | -0754 | 00 | 0 | 00000 | 4032 | OCT1 | PXD ,0 | | |
| 07177 | -0763 | 00 | 0 | 00003 | 4033 | | LGL 3 | | NUMB0256 |
| 07200 | -0100 | 00 | 0 | 07211 | 4034 | | TNZ OCT8 | | NUMB0257 |
| 07201 | 0500 | 00 | 0 | 77666 | 4035 | | CLA N | | NUMB0258 |
| 07202 | -0763 | 00 | 0 | 00003 | 4036 | | LGL 3 | | NUMB0259 |
| 07203 | 0601 | 00 | 0 | 77666 | 4037 | OCT9 | STO N | ALLOW FOR BOTH P BIT AND MINUS SIGN | NUMB0260 |
| 07204 | -0602 | 00 | 0 | 77666 | 4038 | | ORS N | | NUMB0261 |
| 07205 | 2 00001 | 1 | 07176 | 4039 | OCT6 | | TXI OCT1,1,1 | | NUMB0262 |
| 07206 | 1 77777 | 2 | 07207 | 4040 | | | TXI OCT2,2,-1 | | NUMB0263 |
| 07207 | 0560 | 00 | 2 | 00000 | 4041 | OCT2 | LDQ 0,2 | NEW PACKED WORD | NUMB0264 |
| 07210 | 1 00005 | 1 | 07176 | 4042 | | | TXI OCT1,1,5 | | NUMB0265 |
| 07211 | -0763 | 00 | 0 | 00003 | 4043 | OCT8 | LGL 3 | | NUMB0266 |
| 07212 | 0340 | 00 | 0 | 00426 | 4044 | | CAS Q | TEST FOR OCTAL SCALE FACTOR | NUMB0267 |
| 07213 | 0020 | 00 | 0 | 07226 | 4045 | | TRA OCT3 | | NUMB0268 |
| 07214 | 0020 | 00 | 0 | 07232 | 4046 | | TRA OCT10 | | NUMB0269 |
| 07215 | 0340 | 00 | 0 | 00423 | 4047 | | CAS MINUS | | NUMB0270 |
| 07216 | -3 00000 | 0 | 07226 | 4048 | | | TXL OCT3 | | NUMB0271 |
| 07217 | -3 00000 | 0 | 07230 | 4049 | | | TXL OCT5 | | NUMB0272 |
| 07220 | 0340 | 00 | 0 | 00420 | 4050 | | CAS PLUS | | NUMB0273 |
| 07221 | -3 00000 | 0 | 07226 | 4051 | | | TXL OCT3 | | NUMB0274 |
| 07222 | -3 00000 | 0 | 07205 | 4052 | | | TXL OCT6 | | NUMB0275 |
| 07223 | 0340 | 00 | 0 | 00416 | 4053 | | CAS DASH | DASH TREATED LIKE - | NUMB0276 |
| 07224 | -3 00000 | 0 | 07226 | 4054 | | | TXL OCT3 | | NUMB0277 |
| 07225 | -3 00000 | 0 | 07230 | 4055 | | | TXL OCT5 | | NUMB0278 |
| 07226 | 0560 | 00 | 0 | 77666 | 4056 | OCT3 | LDQ N | | NUMB0279 |
| 07227 | 1 00000 | 0 | 07127 | 4057 | | | TXI ISTO1 | | NUMB0280 |
| 07230 | 0500 | 00 | 0 | 00455 | 4058 | OCT5 | CLA PBIT | SET NEGATIVE SIGN | NUMB0281 |
| 07231 | -3 00000 | 0 | 07203 | 4059 | | | TXL OCT9 | | NUMB0282 |
| 07232 | 0500 | 00 | 0 | 07020 | 4060 | OCT10 | CLA CX3 | SET SWITCH FOR OCTAL SCALE FACTOR | NUMB0283 |
| 07233 | 0630 | 00 | 0 | 07020 | 4061 | | STP CX3 | | NUMB0284 |
| 07234 | 0600 | 00 | 0 | 77662 | 4062 | | STZ BN | CLEAR SCALE FACTOR CELL | NUMB0285 |

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|-------|------------------|------|---------|---|----------------------------|----------|
| 07235 | -0500 00 0 06766 | 4063 | CAL SW1 | | SET EXPONENT SWITCH TO OFF | NUMB0286 |
| 07236 | 0630 00 0 07011 | 4064 | STP FXS | | | NUMB0287 |
| 07237 | -0500 00 0 06672 | 4065 | CAL BN2 | | SET UP Q CONVERSION | NUMB0288 |
| 07240 | 0020 00 0 06720 | 4066 | TRA BN3 | | | NUMB0289 |
| | | 4067 | | | | NUMB0290 |
| | | 4068 | | | | NUMB0291 |
| | | 4069 | | | | NUMB0292 |
| | 00400 | 4070 | CR | SYN \$Q8 | | |
| | 00402 | 4071 | Q10 | SYN \$Q10 | | NUMB0294 |
| | 00415 | 4072 | Q128 | SYN \$Q128 | | |
| | 00446 | 4073 | QD7 | SYN \$QD7 | | |
| | 00455 | 4074 | PRIT | SYN \$SBIT | | |
| | 00427 | 4075 | BLANK | SYN \$Q060 | | |
| | 00423 | 4076 | MINUS | SYN \$Q040 | | |
| | 00422 | 4077 | POINT | SYN \$Q033 | | |
| | 00410 | 4078 | E | SYN \$Q025 | | |
| | 00421 | 4079 | B | SYN \$Q022 | | |
| | 00426 | 4080 | Q | SYN \$Q050 | | |
| | 00420 | 4081 | PLUS | SYN \$Q020 | | |
| | 00416 | 4082 | DASH | SYN \$Q014 | | |
| 07241 | +043000000000 | 4083 | EXC1 | DEC 3588 | CHARACTERISTIC=35 | NUMB0306 |
| 07242 | +335000000000 | 4084 | EXC2 | DEC 22188 | CHAR.=COMPL. 35 | NUMB0307 |
| 07243 | +233000000000 | 4085 | FL1 | DEC 15588 | | NUMB0308 |
| 07244 | +252000000000 | 4086 | FL2 | DEC 17088 | | NUMB0309 |
| 07245 | +141500000000 | 4087 | | OCT 141500000000,144620000000,147764000000,153470400000 | | NUMB0310 |
| 07246 | +144620000000 | | | | | |
| 07247 | +147764000000 | | | | | |
| 07250 | +153470400000 | | | | | |
| 07251 | +156606500000 | 4088 | | OCT 156606500000,161750220000,165461132000,170575360400 | | NUMB0311 |
| 07252 | +161750220000 | | | | | |
| 07253 | +165461132000 | | | | | |
| 07254 | +170575360400 | | | | | |
| 07255 | +173734654500 | 4089 | | OCT 173734654500,177452013710,202564416672,205721522451 | | NUMB0312 |
| 07256 | +177452013710 | | | | | |
| 07257 | +202564416672 | | | | | |
| 07260 | +205721522451 | | | | | |
| 07261 | +211443023471 | 4090 | | OCT 211443023471,214553630410,217706576512,223434157116 | | NUMB0313 |
| 07262 | +214553630410 | | | | | |
| 07263 | +217706576512 | | | | | |
| 07264 | +223434157116 | | | | | |
| 07265 | +226543212741 | 4091 | | OCT 226543212741,231674055532,235425434430,240532743536 | | NUMB0314 |
| 07266 | +231674055532 | | | | | |
| 07267 | +235425434430 | | | | | |
| 07270 | +240532743536 | | | | | |
| 07271 | +243661534466 | 4092 | | OCT 243661534466,247417031702,252522640262,255647410336 | | NUMB0315 |
| 07272 | +247417031702 | | | | | |
| 07273 | +252522640262 | | | | | |
| 07274 | +255647410336 | | | | | |
| 07275 | +261410545213 | 4093 | | OCT 261410545213,264512676456,267635456171,273402374714 | | NUMB0316 |
| 07276 | +264512676456 | | | | | |
| 07277 | +267635456171 | | | | | |
| 07300 | +273402374714 | | | | | |
| 07301 | +276503074077 | 4094 | | OCT 276503074077,301623713116,304770675742,310473426555 | | NUMB0317 |
| 07302 | +301623713116 | | | | | |

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|-------|------------------|-------|------|--|---|---------------|----------------|----------|
| 07303 | +304770675742 | | | | | | | |
| 07304 | +310473426555 | | | | | | | |
| 07305 | +313612334311 | 4095 | OCT | 313612334311, 316755023373, 322464114135, 325601137164 | | | | NUMB0318 |
| 07306 | +316755023373 | | | | | | | |
| 07307 | +322464114135 | | | | | | | |
| 07310 | +325601137164 | | | | | | | |
| 07311 | +330741367021 | 4096 | OCT | 330741367021, 334454732313, 337570120775, 342726145174 | | | | NUMB0319 |
| 07312 | +334454732313 | | | | | | | |
| 07313 | +337570120775 | | | | | | | |
| 07314 | +342726145174 | | | | | | | |
| 07315 | +346445677216 | 4097 | OCT | 346445677216, 351557257061, 354713132676, 360436770626 | | | | NUMB0320 |
| 07316 | +351557257061 | | | | | | | |
| 07317 | +354713132676 | | | | | | | |
| 07320 | +360436770626 | | | | | | | |
| 07321 | +363546566774 | 4098 | OCT | 363546566774, 366700324573, 372430204755, 375536246150 | | | | NUMB0321 |
| 07322 | +366700324573 | | | | | | | |
| 07323 | +372430204755 | | | | | | | |
| 07324 | +375536246150 | | | | | | | |
| | | 00402 | 4099 | TEN | SYN | Q10 | | NUMB0322 |
| | | 07244 | 4100 | ONE | SYN | FL2 | | NUMB0323 |
| 07325 | | | 4101 | REORG | BSS | 0 | | NUMB0324 |
| | 77662 | | 4102 | | ORG | COMMON | | NUMB0325 |
| 77662 | | | 4103 | BN | BSS | 1 | | NUMB0326 |
| | 77662 | | 4104 | MQ | SYN | BN | | NUMB0327 |
| 77663 | | | 4105 | EXPN | BSS | 1 | | NUMB0328 |
| 77664 | | | 4106 | CH | BSS | 1 | | NUMB0329 |
| 77665 | | | 4107 | CHD | BSS | 1 | | NUMB0330 |
| | 77665 | | 4108 | T | SYN | CHD | | NUMB0331 |
| 77666 | | | 4109 | N | BSS | 1 | | NUMB0332 |
| 77667 | | | 4110 | DATUM | BSS | 1 | | NUMB0333 |
| 77670 | | | 4111 | RESID | BSS | 1 | | NUMB0334 |
| | 07325 | | 4112 | | ORG | REORG | RESTORE ORIGIN | NUMB0335 |
| 07325 | | | 4113 | BUFFER | BSS | 14 | | LC359300 |
| | | | 4114 | | | | | LC359400 |
| | | | 4115 | | | | | LC359500 |
| | | | 4116 | R | HED | | | LC366700 |
| | | | 4117 | | | | | LC371500 |
| | | | 4118 | | FUNCTION | CPI | | LC371600 |
| | | | 4119 | | CPI(L)=(L=0 YIELDS 0, | | | LC371700 |
| | | | 4120 | | OTHERWISE CONS(CONSW(CWR(CAR(L))),CPI(CDR(L)))) | | | LC371800 |
| | | | 4121 | | | | | LC371900 |
| | | | 4122 | C | HED | | | LC372000 |
| 07343 | 0100 00 4 00001 | | 4123 | CPI | TZE | 1,4 | | LC372100 |
| 07344 | -0634 00 4 03361 | | 4124 | | SXD | CR1,4 | | LC372200 |
| 07345 | -0734 00 4 00000 | | 4125 | | PDX | ,4 | | LC372300 |
| 07346 | 0500 00 4 00000 | | 4126 | | CLA | ,4 | CWR(L) | LC372400 |
| 07347 | 0601 00 0 03363 | | 4127 | | STO | CWRL | | LC372500 |
| 07350 | 0734 00 4 00000 | | 4128 | | PAX | ,4 | CAR(L) | LC372600 |
| 07351 | 0500 00 4 00000 | | 4129 | | CLA | ,4 | CWR(CAR(L)) | LC372700 |
| 07352 | 0074 00 4 03710 | | 4130 | | TSX | \$CONSW,4 | | LC372800 |
| 07353 | 0074 00 4 02312 | | 4131 | | TSX | \$SAVE,4 | | LC372900 |
| 07354 | -3 03364 0 02377 | | 4132 | | TXL | \$END2,,CR2+2 | SAVE 2 ITEMS | |
| 07355 | 0601 00 0 03362 | | 4133 | | STO | CR2 | | |
| 07356 | -0534 00 4 03363 | | 4134 | | LXD | CWRL,4 | CDR(L) | LC373200 |

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|-------|----------|----|-------|-------|--|--------------|-------------------|----------|
| 07357 | -0754 | 00 | 4 | 00000 | 4135 | PXD ,4 | IN DEC | LC373300 |
| 07360 | 0074 | 00 | 4 | 07343 | 4136 | TSX CP1,4 | | LC373400 |
| 07361 | 0601 | 00 | 0 | 03363 | 4137 | STO CWRL | | LC373500 |
| 07362 | 0560 | 00 | 0 | 03363 | 4138 | LDQ CWRL | C(MQ)=CP1(CDR(L)) | LC373600 |
| 07363 | 0500 | 00 | 0 | 03362 | 4139 | CLA CR2 | | LC373700 |
| 07364 | 0074 | 00 | 4 | 02326 | 4140 | TSX UNSAVE,4 | | LC373800 |
| 07365 | -0534 | 00 | 4 | 03361 | 4141 | LXD CR1,4 | | LC374000 |
| 07366 | 0020 | 00 | 0 | 03730 | 4142 | TRA \$CONS | | LC374100 |
| | | | | 4143 | | | | LC552700 |
| | | | | 4144 | SUBST | | | LC374600 |
| | | | | 4145 | | | | LC374700 |
| | | | | 4146 | SUBST(L,V,M) = | | | LC374800 |
| | | | | 4147 | (M = 0 YIELDS 0, | | | LC374900 |
| | | | | 4148 | EQUAL(M,V) YIELDS COPY(L), | | | LC375000 |
| | | | | 4149 | CAR(M)=-1 YIELDS M | | | LC375100 |
| | | | | 4150 | 1 YIELDS CONS(SUBST(L,V,CAR(M)),SUBST(L,V,CDR(M))) | | | LC375200 |
| | | | | 4151 | | | | LC375300 |
| | | | | 4152 | R HED | | | |
| 07367 | 0601 | 00 | 0 | 03475 | 4153 | SUBST STO | SX | |
| 07370 | -0600 | 00 | 0 | 03476 | 4154 | STO | SY | |
| 07371 | 0500 | 00 | 0 | 03321 | 4155 | CLA | \$ARG3 | |
| 07372 | -0634 | 00 | 4 | 03473 | 4156 | SUB1 SXD | SXT,4 | |
| 07373 | 0601 | 00 | 0 | 03477 | 4157 | STO | ST | |
| 07374 | 0560 | 00 | 0 | 03476 | 4158 | LDQ | SY | |
| 07375 | 0074 | 00 | 4 | 04461 | 4159 | TSX | \$EQUAL,4 | |
| 07376 | -0100 | 00 | 0 | 07443 | 4160 | INZ | SUB4 | |
| 07377 | -0534 | 00 | 4 | 03477 | 4161 | LXD | ST,4 | |
| 07400 | 0500 | 00 | 4 | 00000 | 4162 | CLA | 0,4 | |
| 07401 | 0734 | 00 | 4 | 00000 | 4163 | PAX | 0,4 | |
| 07402 | 0500 | 00 | 0 | 03477 | 4164 | CLA | ST | |
| 07403 | 3 77776 | 4 | 07441 | 4165 | TXH | SUB2,4,-2 | | |
| 07404 | 0074 | 00 | 4 | 02312 | 4166 | TSX | \$SAVE,4 | |
| 07405 | -3 03476 | 0 | 02377 | 4167 | TXL | \$END2,,SZ+2 | | |
| 07406 | 0622 | 00 | 0 | 03474 | 4168 | STD | SZ | |
| 07407 | -0734 | 00 | 4 | 00000 | 4169 | PDX | 0,4 | |
| 07410 | 0500 | 00 | 4 | 00000 | 4170 | CLA | 0,4 | |
| 07411 | -0734 | 00 | 4 | 00000 | 4171 | PDX | 0,4 | |
| 07412 | 0634 | 00 | 4 | 03474 | 4172 | SXA | SZ,4 | |
| 07413 | 0734 | 00 | 4 | 00000 | 4173 | PAX | 0,4 | |
| 07414 | -0754 | 00 | 4 | 00000 | 4174 | PXD | 0,4 | |
| 07415 | 0074 | 00 | 4 | 07372 | 4175 | TSX | SUB1,4 | |
| 07416 | 0534 | 00 | 4 | 03474 | 4176 | LXA | SZ,4 | |
| 07417 | 0771 | 00 | 0 | 00022 | 4177 | ARS | 18 | |
| 07420 | 0621 | 00 | 0 | 03474 | 4178 | STA | SZ | |
| 07421 | -0754 | 00 | 4 | 00000 | 4179 | PXD | 0,4 | |
| 07422 | 0074 | 00 | 4 | 07372 | 4180 | TSX | SUB1,4 | |
| 07423 | -0534 | 00 | 4 | 03474 | 4181 | LXD | SZ,4 | |
| 07424 | 0622 | 00 | 0 | 03474 | 4182 | STD | SZ | |
| 07425 | 0500 | 00 | 4 | 00000 | 4183 | CLA | 0,4 | |
| 07426 | 0402 | 00 | 0 | 03474 | 4184 | SUB | SZ | |
| 07427 | 0100 | 00 | 0 | 07437 | 4185 | TZE | SUB3 | |
| 07430 | -0534 | 00 | 4 | 03751 | 4186 | LXD | \$FREE,4 | |
| 07431 | 3 00000 | 4 | 07433 | 4187 | TXH | **2,4,0 | | |
| 07432 | 0074 | 00 | 4 | 04037 | 4188 | TSX | \$FROUT,4 | |

| | | | | | | | | | |
|-------|-------|-------|---|-------|------|--|--|-----------------------------|----------|
| 07515 | 0074 | 00 | 4 | 02326 | 4243 | TSX UNSAVE,4 | | | LC385200 |
| 07516 | -0534 | 00 | 4 | 03464 | 4244 | LXD X1,4 | | | LC385400 |
| 07517 | 0020 | 00 | 4 | 00001 | 4245 | TRA 1,4 | | | LC385500 |
| 07520 | -0634 | 00 | 4 | 07537 | 4246 | NF2 SXD N1,4 | | EQUAL(E,CAAR(J)) | LC385600 |
| 07521 | -0734 | 00 | 4 | 00000 | 4247 | PDX ,4 | | J | LC385700 |
| 07522 | 0500 | 00 | 4 | 00000 | 4248 | CLA ,4 | | | LC385800 |
| 07523 | 0734 | 00 | 4 | 00000 | 4249 | PAX ,4 | | CAR(J) | LC385900 |
| 07524 | 0500 | 00 | 4 | 00000 | 4250 | CLA ,4 | | | LC386000 |
| 07525 | 0622 | 00 | 0 | 03470 | 4251 | STD X5 | | CDAR(J) | LC386100 |
| 07526 | 0734 | 00 | 4 | 00000 | 4252 | PAX ,4 | | | LC386200 |
| 07527 | -0634 | 00 | 4 | 07540 | 4253 | SXD N2,4 | | | LC386300 |
| 07530 | 0560 | 00 | 0 | 07540 | 4254 | LDQ N2 | | CAAR(J) IN MQ | LC386400 |
| 07531 | 0500 | 00 | 0 | 03472 | 4255 | CLA E | | | LC386500 |
| 07532 | 0074 | 00 | 4 | 04461 | 4256 | TSX \$EQUAL,4 | | | LC386600 |
| 07533 | -0534 | 00 | 4 | 07537 | 4257 | LXD N1,4 | | | LC386700 |
| 07534 | 0020 | 00 | 4 | 00001 | 4258 | TRA 1,4 | | | LC386800 |
| 07535 | 0500 | 00 | 0 | 03470 | 4259 | NF1 CLA X5 | | | 4060 |
| 07536 | 0020 | 00 | 4 | 00001 | 4260 | TRA 1,4 | | | LC387500 |
| 07537 | 0 | 00000 | 0 | 00000 | 4261 | N1 | | IR4 OF P OF SEARCH | LC388300 |
| 07540 | 0 | 00000 | 0 | 00000 | 4262 | N2 | | | LC388400 |
| | | | | 4263 | | | | | LC388500 |
| | | | | 4264 | | APPEND(L1,L2)= | | | LC388600 |
| | | | | 4265 | | (L1=0 YIELDS L2,1 YIELDS CONS(CAR(L1),APPEND(XDR(L1),L2))) | | | LC388700 |
| | | | | 4266 | A | HED | | | LC388800 |
| 07541 | -0100 | 00 | 0 | 07544 | 4267 | APPEND TNZ APNP1 | | | LC388900 |
| 07542 | 0131 | 00 | 0 | 00000 | 4268 | XCA | | | 1.500020 |
| 07543 | 0020 | 00 | 4 | 00001 | 4269 | TRA 1,4 | | | LC389200 |
| 07544 | -0634 | 00 | 4 | 03346 | 4270 | APNP1 SXD AS1,4 | | | LC389300 |
| 07545 | 0074 | 00 | 4 | 02312 | 4271 | TSX \$SAVE,4 | | | LC389400 |
| 07546 | -3 | 03351 | 0 | 02377 | 4272 | TXL \$END2,,CWR1+2 | | SAVE 2 ITEMS | |
| 07547 | -0734 | 00 | 4 | 00000 | 4273 | PDX 0,4 | | | LC389600 |
| 07550 | 0500 | 00 | 4 | 00000 | 4274 | CLA 0,4 | | | LC389700 |
| 07551 | 0601 | 00 | 0 | 03347 | 4275 | STO CWR1 | | | LC389800 |
| 07552 | -0320 | 00 | 0 | 00460 | 4276 | ANA DECM | | | LC389900 |
| 07553 | 0074 | 00 | 4 | 07541 | 4277 | TSX APPEND,4 | | | LC390000 |
| 07554 | 0131 | 00 | 0 | 00000 | 4278 | XCA | | | 1.500021 |
| 07555 | 0534 | 00 | 4 | 03347 | 4279 | LXA CWR1,4 | | | LC390300 |
| 07556 | -0754 | 00 | 4 | 00000 | 4280 | PXD 0,4 | | | LC390400 |
| 07557 | 0074 | 00 | 4 | 02326 | 4281 | TSX UNSAVE,4 | | | LC390500 |
| 07560 | -0534 | 00 | 4 | 03346 | 4282 | LXD AS1,4 | | | LC390700 |
| 07561 | 0020 | 00 | 0 | 03730 | 4283 | TRA \$CONS | | | LC390800 |
| | | | | 00460 | 4284 | DECM SYN \$DMASK | | | 1.500010 |
| | | | | 4285 | | | | | LC391300 |
| | | | | 4286 | | PAIR | | | LC391400 |
| | | | | 4287 | * | RECODED TO MAKE LISTS IN DOT NOTATION | | | 4070 |
| | | | | 4288 | | | | | LC391500 |
| | | | | 4289 | A | HED | | | LC391600 |
| 07562 | 0634 | 00 | 4 | 07570 | 4290 | PAIR SXA PAIRX,4 | | SAVE LINK IR | 4080 |
| 07563 | -0600 | 00 | 0 | 03441 | 4291 | STQ LIS | | ARG 2 | 4090 |
| 07564 | 0560 | 00 | 0 | 07572 | 4292 | LDQ FARG | | PICK UP FUNCTIONAL ARGUMENT | 4100 |
| 07565 | 0074 | 00 | 4 | 04214 | 4293 | TSX MAPLIS,4 | | LET MAPLIST DO THE CONSING | 4110 |
| 07566 | 0520 | 00 | 0 | 03441 | 4294 | ZET LIS | | TEST FOR ARG 2 GONE TO END | 4130 |
| 07567 | 0020 | 00 | 0 | 07612 | 4295 | TRA PERF | | DID NOT, GO TO ERROR | 4140 |
| 07570 | 0774 | 00 | 4 | 00000 | 4296 | PAIRX AXT **,4 | | RESTORE LINK IR | 4150 |

| | | | | | | | | | | |
|-------|--------------|-------|---|-------|--------|--------|------------------------------|----------------------------------|--------------------------------------|----------|
| 07571 | 0020 | 00 | 4 | 00001 | 4297 | TRA | 1,4 | EXIT | 4160 | |
| | | | | | 4298 * | | | | 4170 | |
| 07572 | -3 | 00001 | 0 | 07573 | 4299 | FARG | TXL | **1,,1 | PAIR FUNCTIONAL ARGUMENT FOR MAPLIST | 4180 |
| 07573 | 0634 | 00 | 4 | 07610 | 4300 | SXA | FARGX,4 | | SAVE LINK IR | 4190 |
| 07574 | 0622 | 00 | 0 | 03440 | 4301 | STD | TEM | | SAVE ARGUMENT | 4200 |
| 07575 | -0534 | 00 | 4 | 03441 | 4302 | LXD | LIS,4 | | PICK UP 2ND ARG LIST | 4210 |
| 07576 | -3 | 00000 | 4 | 07615 | 4303 | TXL | PERS,4,0 | | GO IF NO MORE 2ND ARG | 4220 |
| 07577 | 0500 | 00 | 4 | 00000 | 4304 | CLA | 0,4 | | NEXT WORD | 4230 |
| 07600 | 0734 | 00 | 4 | 00000 | 4305 | PAX | 0,4 | | CAR | 4240 |
| 07601 | 0622 | 00 | 0 | 03441 | 4306 | STD | LIS | | SAVE CDR | 4250 |
| 07602 | -0754 | 00 | 4 | 00000 | 4307 | PXD | 0,4 | | CAR INTO DECREMENT | 4260 |
| 07603 | 0131 | 00 | 0 | 00000 | 4308 | XCA | | | INTO MQ | 4270 |
| 07604 | -0534 | 00 | 4 | 03440 | 4309 | LXD | TEM,4 | | LIST 1 | 4280 |
| 07605 | 0500 | 00 | 4 | 00000 | 4310 | CLA | 0,4 | | TAKE CAR OF LIST | 4290 |
| 07606 | 0734 | 00 | 4 | 00000 | 4311 | PAX | 0,4 | | | 4300 |
| 07607 | -0754 | 00 | 4 | 00000 | 4312 | PXD | 0,4 | | | 4310 |
| 07610 | 0774 | 00 | 4 | 00000 | 4313 | FARGX | AXT | **,,4 | RESTORE LINK IR | 4320 |
| 07611 | 0020 | 00 | 0 | 03730 | 4314 | TRA | \$CONS | | | 4330 |
| | | | | | 4315 * | | | FIRST ARG LIST TOO SHORT | ERROR | 4430 |
| 07612 | -0634 | 00 | 4 | 01562 | 4316 | PERF | SXD | \$ERROR,4 | SAVE LINK IR | |
| 07613 | 0074 | 00 | 4 | 01563 | 4317 | TSX | \$ERROR+1,4 | | GO TO ERROR | |
| 07614 | 542660600254 | | | | 4318 | BCI | 1,*F 2* | | FIRST ARG\$ LIST TOO SHORT | |
| | | | | | 4319 * | | | ERROR, SECOND ARG LIST TOO SHORT | | 4340 |
| 07615 | -0634 | 00 | 4 | 01562 | 4320 | PERS | SXD | \$ERROR,4 | SAVE LINK IR | 4370 |
| 07616 | 0074 | 00 | 4 | 01563 | 4321 | TSX | \$ERROR+1,4 | | GO TO ERROR | 4380 |
| 07617 | 542660600354 | | | | 4322 | BCI | 1,*F 3* | | SECOND ARG. LIST TOO SHORT | |
| | | | | | 4323 * | | | | | 4470 |
| | | | | | 4324 * | | | | | |
| | | | | | 4325 * | | | | | |
| | | | | | 4326 | | | | | LC399800 |
| | | | | | 4327 | | MAPCAR(L,F) = (L=0 YIELDS 0, | | | LC399900 |
| | | | | | 4328 | | F(L) YIELDS 0, | | | LC400000 |
| | | | | | 4329 | | I YIELDS MAPCAR(CDR(L),F)) | | | LC400100 |
| | | | | | 4330 | | | | | LC400200 |
| | | | | | 4331 D | HED | | | | LC400300 |
| 07620 | 0100 | 00 | 4 | 00001 | 4332 | MAPCAR | TZE 1,4 | | | LC400400 |
| 07621 | -0634 | 00 | 4 | 03421 | 4333 | SXD | RET,4 | | | LC400500 |
| 07622 | 0074 | 00 | 4 | 02312 | 4334 | TSX | \$SAVE,4 | | | LC400600 |
| 07623 | -3 | 03425 | 0 | 02375 | 4335 | TXL | \$END3,,F+2 | | SAVE 3 ITEMS | |
| 07624 | -0600 | 00 | 0 | 03423 | 4336 | STQ | F | | | LC400800 |
| 07625 | 0601 | 00 | 0 | 03422 | 4337 | MCPR | STO L | | | LC400900 |
| 07626 | -0534 | 00 | 4 | 03423 | 4338 | LXD | F,4 | | | LC401000 |
| 07627 | 3 | 00012 | 4 | 07632 | 4339 | TXH | **3,4,10 | | | LC401100 |
| 07630 | 0074 | 00 | 4 | 03423 | 4340 | TSX | F,4 | | | LC401200 |
| 07631 | 0020 | 00 | 0 | 07635 | 4341 | TRA | **4 | | | LC401300 |
| 07632 | -0634 | 00 | 4 | 07634 | 4342 | SXD | **2,4 | | | LC401400 |
| 07633 | 0074 | 00 | 4 | 12007 | 4343 | TSX | COMPAT,4 | | | LC401500 |
| 07634 | 0 | 00000 | 0 | 00001 | 4344 | | 1,,** | | | LC401600 |
| 07635 | -0534 | 00 | 4 | 03422 | 4345 | LXD | L,4 | | | LC401700 |
| 07636 | 0500 | 00 | 4 | 00000 | 4346 | CLA | 0,4 | | | LC401800 |
| 07637 | -0734 | 00 | 4 | 00000 | 4347 | PDX | ,4 | | | LC401900 |
| 07640 | -0754 | 00 | 4 | 00000 | 4348 | PXD | ,4 | | | LC402000 |
| 07641 | -0100 | 00 | 0 | 07625 | 4349 | TNZ | MCPR | | | 1.500022 |
| 07642 | 0074 | 00 | 4 | 02326 | 4350 | RTRN | TSX UNSAVE,4 | | | LC402300 |

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|-------|-------|-------|---------|------|--------|---|-----------------|----------|
| 07643 | -0534 | 00 4 | 03421 | 4351 | LXD | RET,4 | | LC402600 |
| 07644 | 0020 | 00 4 | 00001 | 4352 | TRA | 1,4 | | LC402700 |
| | | | | 4353 | | MAPCON(L,F)= | | LC403100 |
| | | | | 4354 | | (L=0 YIELDS 0,,1 YIELDS NCONC(F(L),MAPCON(CDR(L),F))) | | LC403200 |
| | | | | 4355 | R | HED | | LC403300 |
| 07645 | 0100 | 00 4 | 00001 | 4356 | MAPCON | TZE 1,4 | | LC403400 |
| 07646 | -0634 | 00 4 | 03424 | 4357 | SXD | MCN5,4 | | LC403500 |
| 07647 | 0074 | 00 4 | 02312 | 4358 | TSX | \$SAVE,4 | | LC403600 |
| 07650 | -3 | 03431 | 0 02373 | 4359 | TXL | \$END4,,MCN2+2 | SAVE 4 ITEMS | |
| 07651 | 0601 | 00 0 | 03426 | 4360 | STD | MCN3 | | LC403800 |
| 07652 | -0600 | 00 0 | 03425 | 4361 | STQ | MCN4 | | LC403900 |
| 07653 | -0534 | 00 4 | 03425 | 4362 | LXD | MCN4,4 | | LC404000 |
| 07654 | 3 | 00012 | 4 07657 | 4363 | TXH | **3,4,10 | | LC404100 |
| 07655 | 0074 | 00 4 | 03425 | 4364 | TSX | MCN4,4 | | LC404200 |
| 07656 | 0020 | 00 0 | 07662 | 4365 | TRA | **4 | | LC404300 |
| 07657 | -0634 | 00 4 | 07661 | 4366 | SXD | **2,4 | | LC404400 |
| 07660 | 0074 | 00 4 | 12007 | 4367 | TSX | COMPAT,4 | | LC404500 |
| 07661 | 0 | 00000 | 0 00001 | 4368 | | 1,,** | | LC404600 |
| 07662 | 0601 | 00 0 | 03427 | 4369 | STD | MCN2 | | LC404700 |
| 07663 | -0534 | 00 4 | 03426 | 4370 | LXD | MCN3,4 | | LC404800 |
| 07664 | 0500 | 00 4 | 00000 | 4371 | CLA | 0,4 | | LC404900 |
| 07665 | -0320 | 00 0 | 00460 | 4372 | ANA | MCDM | | LC405000 |
| 07666 | 0560 | 00 0 | 03425 | 4373 | LDQ | MCN4 | | LC405100 |
| 07667 | 0074 | 00 4 | 07645 | 4374 | TSX | MAPCON,4 | | LC405200 |
| 07670 | 0131 | 00 0 | 00000 | 4375 | XCA | | | 1.500023 |
| 07671 | 0500 | 00 0 | 03427 | 4376 | CLA | MCN2 | | LC405500 |
| 07672 | 0074 | 00 4 | 02326 | 4377 | TSX | UNSAVE,4 | | LC405700 |
| 07673 | -0534 | 00 4 | 03424 | 4378 | LXD | MCN5,4 | | LC405900 |
| 07674 | 0020 | 00 0 | 07675 | 4379 | TRA | \$NCONC | | 1.500024 |
| | | 00460 | 4380 | MCDM | SYN | \$DMASK | | 4540 |
| | | | 4381 | | | FUNCTION NCONC | | LC406700 |
| | | | 4382 | | / | L1=0 YIELDS RETURN(L2) | | LC406800 |
| | | | 4383 | | | M=L1 | | LC406900 |
| | | | 4384 | | A2 | CDR(M)=0 YIELDS GO A1 | | LC407000 |
| | | | 4385 | | | M=CDR(M) | | LC407100 |
| | | | 4386 | | | GO A2 | | LC407200 |
| | | | 4387 | | A1 | CDR(M)=L2 | | LC407300 |
| | | | 4388 | | // | RETURN(L1) | | LC407400 |
| | | | 4389 | R | HED | | | LC407500 |
| 07675 | -0100 | 00 0 | 07700 | 4390 | NCONC | TNZ NC11 | | LC407600 |
| 07676 | 0131 | 00 0 | 00000 | 4391 | XCA | | | 1.500025 |
| 07677 | 0020 | 00 4 | 00001 | 4392 | TRA | 1,4 | | LC407900 |
| 07700 | 0634 | 00 4 | 07711 | 4393 | NC11 | SXA NCS1,4 | SAVE LINK IR | 1.500026 |
| 07701 | 0601 | 00 0 | 07713 | 4394 | STD | NCS3 | | LC408200 |
| 07702 | -0734 | 00 4 | 00000 | 4395 | NC12 | PDX 0,4 | | LC408300 |
| 07703 | 0500 | 00 4 | 00000 | 4396 | CLA | 0,4 | | LC408400 |
| 07704 | -0320 | 00 0 | 00460 | 4397 | ANA | NCDM | | LC408500 |
| 07705 | -0100 | 00 0 | 07702 | 4398 | TNZ | NC12 | | LC408600 |
| 07706 | 0131 | 00 0 | 00000 | 4399 | XCA | | | 1.500027 |
| 07707 | 0622 | 00 4 | 00000 | 4400 | STD | 0,4 | | LC408800 |
| 07710 | 0500 | 00 0 | 07713 | 4401 | CLA | NCS3 | | LC408900 |
| 07711 | 0774 | 00 4 | 00000 | 4402 | NC11 | AXT **,4 | RESTORE LINK IR | 1.500028 |
| 07712 | 0020 | 00 4 | 00001 | 4403 | TRA | 1,4 | | LC409100 |
| | | 00460 | 4404 | NCDM | SYN | \$DMASK | | 4550 |

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|-------|-------|-------|---|-------|------|------------|--|----------------------|----------|
| 07713 | 0 | 00000 | 0 | 00000 | 4405 | NCS3 | | | LC409500 |
| | | | | | 4406 | | REMPRP REMOVES THE PROPERTY GIVEN BY THE MQ FROM THE | | LC772900 |
| | | | | | 4407 | | OBJECT GIVEN BY THE AC | | LC773000 |
| 07714 | -0634 | 00 | 4 | 07744 | 4408 | REMPRP | SXD RMPRX,4 | | LC773100 |
| 07715 | -0600 | 00 | 0 | 03320 | 4409 | | STQ \$ARG2 | | LC773200 |
| 07716 | -0534 | 00 | 4 | 03320 | 4410 | | LXD \$ARG2,4 | | LC773300 |
| 07717 | -0634 | 00 | 4 | 07732 | 4411 | | SXD RMPRT+1,4 | | LC773400 |
| 07720 | 1 | 77777 | 4 | 07721 | 4412 | | TXI **1,4,-1 | | LC773500 |
| 07721 | -0634 | 00 | 4 | 07731 | 4413 | | SXD RMPRT,4 | | LC773600 |
| 07722 | -0734 | 00 | 4 | 00000 | 4414 | | PDX 0,4 | | LC773700 |
| 07723 | 0020 | 00 | 0 | 07726 | 4415 | | TRA RMPR2 | | LC773800 |
| 07724 | 0500 | 00 | 0 | 03320 | 4416 | RMPR1 | CLA \$ARG2 | | LC773900 |
| 07725 | 0601 | 00 | 0 | 03321 | 4417 | | STO \$ARG3 | | LC774000 |
| 07726 | -0634 | 00 | 4 | 03320 | 4418 | RMPR2 | SXD \$ARG2,4 | | LC774100 |
| 07727 | 0500 | 00 | 4 | 00000 | 4419 | | CLA 0,4 | | LC774200 |
| 07730 | 0734 | 00 | 4 | 00000 | 4420 | | PAX 0,4 | | LC774300 |
| 07731 | -3 | 00000 | 4 | 07733 | 4421 | RMPRT | TXL **2,4,** | | LC774400 |
| 07732 | -3 | 00000 | 4 | 07737 | 4422 | | TXL RMPRE,4,** | | LC774500 |
| 07733 | -0734 | 00 | 4 | 00000 | 4423 | | PDX 0,4 | | LC774600 |
| 07734 | 3 | 00000 | 4 | 07724 | 4424 | | TXH RMPR1,4,0 | | LC774700 |
| 07735 | -0534 | 00 | 4 | 07744 | 4425 | RMPRO | LXD RMPRX,4 | | LC774800 |
| 07736 | 0020 | 00 | 4 | 00001 | 4426 | | TRA 1,4 | | LC774900 |
| 07737 | -0734 | 00 | 4 | 00000 | 4427 | RMPRE | PDX 0,4 | | LC775000 |
| 07740 | 0500 | 00 | 4 | 00000 | 4428 | | CLA 0,4 | | LC775100 |
| 07741 | -0534 | 00 | 4 | 03321 | 4429 | | LXD \$ARG3,4 | | LC775200 |
| 07742 | 0622 | 00 | 4 | 00000 | 4430 | | STO 0,4 | | LC775300 |
| 07743 | 0020 | 00 | 0 | 07726 | 4431 | | TRA RMPR2 | | LC775400 |
| 07744 | 0 | 00000 | 0 | 00000 | 4432 | RMPRX | | | LC775500 |
| | | | | | 4433 | | | | LC409600 |
| | | | | | 4434 | | | | LC409700 |
| | | | | | 4435 | | PRINAR | | LC424700 |
| | | | | | 4436 | | | | LC424800 |
| | | | | | 4437 | | USES WOT AND PRINT | | LC424900 |
| | | | | | 4438 | | CALLING SEQ IS.. | | LC425000 |
| | | | | | 4439 | | TSX PRINAR,4 | | LC425100 |
| | | | | | 4440 | | NOARG | | LC425200 |
| | | | | | 4441 | | BOD2 NAME OF FUN | | LC425300 |
| | | | | | 4442 | | (RETURN) | | LC425400 |
| | | | | | 4443 | | ARGUMENTS NOT ACCEPTABLE TO PRINT WILL CAUSE ERRORS | | LC425500 |
| | | | | | 4444 | * HAS BEEN | CRIPPLED TO PRINT ONLY FIRST 2 ARGUMENTS | | 1.500050 |
| | | | | | 4445 | | | | LC425600 |
| | | | | | 4446 | P | HED | | LC425700 |
| 07745 | 0634 | 00 | 4 | 07774 | 4447 | PRINAR | SXA PAS1,4 | SAVE INDEX REGISTERS | 1.500040 |
| 07746 | 0634 | 00 | 2 | 07775 | 4448 | | SXA PAS2,2 | | 1.500041 |
| 07747 | 0601 | 00 | 0 | 03442 | 4449 | | STO PAS3 | | LC426000 |
| 07750 | -0600 | 00 | 0 | 03443 | 4450 | | STQ PAS4 | | LC426100 |
| 07751 | 0500 | 00 | 4 | 00002 | 4451 | | CLA 2,4 | | LC426200 |
| 07752 | 0601 | 00 | 0 | 10001 | 4452 | | STO PAL1 | | LC426300 |
| 07753 | 0500 | 00 | 4 | 00003 | 4453 | | CLA 3,4 | | LC426400 |
| 07754 | 0601 | 00 | 0 | 10002 | 4454 | | STO PAL2 | | LC426500 |
| 07755 | 0500 | 00 | 4 | 00001 | 4455 | | CLA 1,4 | | LC426600 |
| 07756 | 0734 | 00 | 2 | 00000 | 4456 | | PAX 0,2 | | LC426700 |
| 07757 | 0074 | 00 | 4 | 01222 | 4457 | | TSX OUTPUT,4 | | LC427000 |
| 07760 | 0 | 00000 | 0 | 00364 | 4458 | | BCDOUT | | LC427100 |

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|-------|--------------|-------|---|-------|------|------|-------------------------------------|-------------------------|----------|
| 07761 | 0 | 00011 | 0 | 07777 | 4459 | | PAL3,,PAL4-PAL3 | | LC427200 |
| 07762 | 0500 | 00 | 0 | 03442 | 4460 | | CLA PAS3 | | LC427300 |
| 07763 | 0074 | 00 | 4 | 04604 | 4461 | | TSX \$PRINT,4 | | LC427400 |
| 07764 | -2 | 00001 | 2 | 07767 | 4462 | | INX PAP3,2,1 | | LC427500 |
| 07765 | 0500 | 00 | 0 | 03443 | 4463 | | CLA PAS4 | | LC427600 |
| 07766 | 0074 | 00 | 4 | 04604 | 4464 | PAP2 | TSX \$PRINT,4 | | LC427700 |
| 07767 | 0074 | 00 | 4 | 01222 | 4465 | PAP3 | TSX OUTPUT,4 | | LC428100 |
| 07770 | 0 | 00000 | 0 | 00364 | 4466 | | BCDOUT | | LC428200 |
| 07771 | 0 | 00001 | 0 | 10010 | 4467 | | PAL5,,1 | | LC428300 |
| 07772 | 0500 | 00 | 0 | 03442 | 4468 | | CLA PAS3 | | LC428600 |
| 07773 | 0560 | 00 | 0 | 03443 | 4469 | | LDQ PAS4 | | LC428700 |
| 07774 | 0774 | 00 | 4 | 00000 | 4470 | PAS1 | AXT ** ,4 | RESTORE INDEX REGISYERS | 1.500042 |
| 07775 | 0774 | 00 | 2 | 00000 | 4471 | PAS2 | AXT ** ,2 | | 1.500043 |
| 07776 | 0020 | 00 | 4 | 00004 | 4472 | | TRA 4,4 | | LC428800 |
| 07777 | 006026644523 | | | | 4473 | PAL3 | BCD 20 FUNCTION | | LC429400 |
| 10000 | 633146456060 | | | | | | | | |
| 10001 | 0 | 00000 | 0 | 00000 | 4474 | PAL1 | | | LC429500 |
| 10002 | 0 | 00000 | 0 | 00000 | 4475 | PAL2 | | | LC429600 |
| 10003 | 603021626022 | | | | 4476 | | BCD 5 HAS BEEN ENTERED, ARGUMENTS.. | | LC429700 |
| 10004 | 252545602545 | | | | | | | | |
| 10005 | 632551252473 | | | | | | | | |
| 10006 | 602151276444 | | | | | | | | |
| 10007 | 254563623333 | | | | | | | | |
| 10010 | | | | | 4477 | PAL4 | BSS 0 | | LC429800 |
| 10010 | 606060606060 | | | | 4478 | PAL5 | BCD 1 | | LC429900 |

| | | | | | | | | | | | |
|--|-------|-------|-------|---|-------|------|---|------------------------|-------------------------------|--|----------|
| | | | | | 4479 | | EJECT | | | | |
| | | | | | 4480 | | | | | | LC544100 |
| | | | | | 4481 | | PROP AND SASSOC | | | | LC544200 |
| | | | | | 4482 | | SPECIALIZED SEARCH ROUTINES WHICH SHARE STORAGE | | | | LC544300 |
| | | | | | 4483 | | | | | | LC544400 |
| | | | | | 4484 | R | HED | | | | LC544500 |
| | | | | | 4485 | | | | | | LC544600 |
| | | | | | 4486 | | PROP(O,P,U) | | | | LC544700 |
| | | | | | 4487 | | = (NULL(O) YIELDS U, CAR(O) = P YIELDS CDR(O), | | | | LC544800 |
| | | | | | 4488 | | T YIELDS PROP(CDR(O),P,U)) | | | | LC544900 |
| | | | | | 4489 | | | | | | LC545000 |
| | 10011 | 0634 | 00 | 4 | 10065 | 4490 | PROP SXA SAST1,4 | | SAVE LINK IR | | |
| | 10012 | 0131 | 00 | 0 | 00000 | 4491 | XCA | | PROPERTY TO AC | | |
| | 10013 | 0622 | 00 | 0 | 10024 | 4492 | STD SASP1 | | SET TXH | | LC545500 |
| | 10014 | 0402 | 00 | 0 | 00442 | 4493 | SUB SASQ1 | | | | LC545600 |
| | 10015 | 0622 | 00 | 0 | 10023 | 4494 | STD SASP2 | | SET TXL | | LC545700 |
| | 10016 | 0131 | 00 | 0 | 00000 | 4495 | XCA | | OBJECT TO AC | | |
| | 10017 | -0734 | 00 | 4 | 00000 | 4496 | SASL1 PDX 0,4 | | L = CDR(L) | | LC546000 |
| | | | | | | 4497 | | INSERT TXH INSTRUCTION | HERE IF NILL IS MADE NON-ZERO | | LC546100 |
| | 10020 | -3 | 00000 | 4 | 10030 | 4498 | TXL SASP3,4,0 | | NULL(L) | | LC546200 |
| | 10021 | 0500 | 00 | 4 | 00000 | 4499 | CLA 0,4 | | CWR(L) | | LC546300 |
| | 10022 | 0734 | 00 | 4 | 00000 | 4500 | PAX 0,4 | | CAR(L) | | LC546400 |
| | 10023 | -3 | 00000 | 4 | 10017 | 4501 | SASP2 TXL SASL1,4,** | -PROP | | | LC546500 |
| | 10024 | 3 | 00000 | 4 | 10017 | 4502 | SASP1 TXH SASL1,4,** | -PROP | | | LC546600 |
| | 10025 | -0320 | 00 | 0 | 00460 | 4503 | ANA SASDM | | | | LC546700 |
| | 10026 | 0534 | 00 | 4 | 10065 | 4504 | LXA SAST1,4 | | RESTORE LINK IR | | |
| | 10027 | 0020 | 00 | 4 | 00001 | 4505 | TRA 1,4 | | | | LC546900 |
| | | | | | | 4506 | | | | | LC547000 |
| | 10030 | -0754 | 00 | 0 | 00000 | 4507 | SASP3 PXD 0,0 | | CLEAR | | |
| | 10031 | -0534 | 00 | 4 | 03321 | 4508 | LXD \$ARG3,4 | | INSPECT FUNCTIONAL ARGUMENT | | |
| | 10032 | 3 | 00012 | 4 | 10035 | 4509 | TXH *+3,4,10 | | SKIP IF NOT A TXL | | |
| | 10033 | 0534 | 00 | 4 | 10065 | 4510 | LXA SAST1,4 | | | | |
| | 10034 | 0020 | 00 | 0 | 03321 | 4511 | TRA \$ARG3 | | | | LC547400 |
| | 10035 | 0600 | 00 | 0 | 03321 | 4512 | STZ \$ARG3 | | | | LC547500 |
| | 10036 | 0560 | 00 | 0 | 03321 | 4513 | LDQ \$ARG3 | | | | LC547600 |
| | 10037 | -0754 | 00 | 4 | 00000 | 4514 | PXD ,4 | | | | LC547700 |
| | 10040 | 0534 | 00 | 4 | 10065 | 4515 | LXA SAST1,4 | | RESTORE LINK IR | | |
| | 10041 | 0020 | 00 | 0 | 14663 | 4516 | TRA \$APPLY | | | | LC547900 |
| | | | | | | 4517 | | | | | LC548000 |
| | | | | | | 4518 | SASSOC(O,A,U) | | | | LC548100 |
| | | | | | | 4519 | = (NULL(A) YIELDS U, CAAR(A) YIELDS CAR(A), | | | | LC548200 |
| | | | | | | 4520 | T YIELDS SASSOC(O,CDR(A),U)) | | | | LC548300 |
| | | | | | | 4521 | | | | | LC548400 |
| | 10042 | 0634 | 00 | 4 | 10065 | 4522 | SASSOC SXA SAST1,4 | | SAVE LINK IK | | |
| | 10043 | 0634 | 00 | 2 | 10064 | 4523 | SXA SAST2,2 | | SAVE IR 2 | | |
| | 10044 | 0634 | 00 | 1 | 10062 | 4524 | SXA SAST3,1 | | SAVE IR 1 | | 6210 |
| | 10045 | 0622 | 00 | 0 | 10061 | 4525 | STD SASP7 | | SET TXH | | LC548900 |
| | 10046 | 0402 | 00 | 0 | 00442 | 4526 | SUB SASQ1 | | | | LC549000 |
| | 10047 | 0622 | 00 | 0 | 10060 | 4527 | STD SASP6 | | SET TXL | | LC549100 |
| | 10050 | 0131 | 00 | 0 | 00000 | 4528 | XCA | | PAIR LIST TO AC | | |
| | 10051 | -0734 | 00 | 4 | 00000 | 4529 | PDX 0,4 | | TO INDEX 4 | | |
| | 10052 | -3 | 00000 | 4 | 10067 | 4530 | SASP5 TXL SASP4,4,0 | | NULL(A) | | LC549200 |
| | | | | | | 4531 | | INSERT TXH INSTRUCTION | HERE IF NILL IS MADE NON-ZERO | | LC549300 |
| | 10053 | 0500 | 00 | 4 | 00000 | 4532 | CLA 0,4 | | CWR(A) | | LC549400 |

| | | | | | | | | | | |
|-------|--------------|-------|---|-------|------|--------|-------------|--------------------------|--------------------------------|----------|
| 10054 | -0734 | 00 | 4 | 00000 | 4533 | PDX | ,4 | CDR(A) | LC549500 | |
| 10055 | 0734 | 00 | 2 | 00000 | 4534 | PAX | ,2 | CAR(A) | LC549600 | |
| 10056 | 0500 | 00 | 2 | 00000 | 4535 | CLA | ,2 | | LC549700 | |
| 10057 | 0734 | 00 | 1 | 00000 | 4536 | PAX | 0,1 | CAAR(A) TO INDX REGISTER | | |
| 10060 | -3 | 00000 | 1 | 10052 | 4537 | SASP6 | TXL | SASP5,1,** | LOOK FOR ITEM | 6230 |
| 10061 | 3 | 00000 | 1 | 10052 | 4538 | SASP7 | TXH | SASP5,1,** | | 6240 |
| 10062 | 0774 | 00 | 1 | 00000 | 4539 | SAST3 | AXT | ** ,1 | FOUND ITEM, RESTORE IR 1 | 6250 |
| 10063 | -0754 | 00 | 2 | 00000 | 4540 | PXD | 0,2 | | POINTER TO WORD | 6260 |
| 10064 | 0774 | 00 | 2 | 00000 | 4541 | SAST2 | AXT | ** ,2 | RESTORE IR 2 | |
| 10065 | 0774 | 00 | 4 | 00000 | 4542 | SAST1 | AXT | ** ,4 | RESTORE LINK IR | |
| 10066 | 0020 | 00 | 4 | 00001 | 4543 | TRA | 1,4 | | | LC550400 |
| | | | | | 4544 | | | | | LC550500 |
| 10067 | 0534 | 00 | 2 | 10064 | 4545 | SASP4 | LXA | SAST2,2 | RESTORE IR 2 | |
| 10070 | 0534 | 00 | 1 | 10062 | 4546 | LXA | SAST3,1 | | RESTORE IR 1 | 6270 |
| 10071 | 0020 | 00 | 0 | 10030 | 4547 | TRA | \$ASP3 | | EXECUTE SASSOC EXIT | 6280 |
| | | | | 00442 | 4548 | SASQ1 | SYN | \$QD1 | | 6290 |
| | | | | 00460 | 4549 | SASDM | SYN | \$DMASK | | 6300 |
| | | | | | 4550 | | | | | LC552200 |
| 10072 | 0100 | 00 | 4 | 00001 | 4551 | SPREAD | TZE | 1,4 | EXIT IF AGLIST IS NULL | 6310 |
| 10073 | 0634 | 00 | 4 | 10132 | 4552 | SXA | SPRX,4 | | SAVE LINK IR | 6320 |
| 10074 | -0734 | 00 | 4 | 00000 | 4553 | PDX | 0,4 | | POINTER TO ARG LIST | 6330 |
| 10075 | 0500 | 00 | 4 | 00000 | 4554 | CLA | 0,4 | | FIRST WORD | 6340 |
| 10076 | 0560 | 00 | 0 | 00370 | 4555 | LDQ | \$ZERO | | ZERD THE MQ | 6350 |
| 10077 | -0765 | 00 | 0 | 00022 | 4556 | LGR | 18 | | CAR TO CDR OF MQ | 6360 |
| 10100 | 0100 | 00 | 0 | 10131 | 4557 | TZE | NLY | | GO IF A SINGLE ARGUMENT | 6370 |
| 10101 | 0734 | 00 | 4 | 00000 | 4558 | PAX | 0,4 | | POINTER TO NEXT WORD | 6380 |
| 10102 | 0500 | 00 | 4 | 00000 | 4559 | CLA | 0,4 | | NEXT WORD | 6390 |
| 10103 | 0734 | 00 | 4 | 00000 | 4560 | PAX | 0,4 | | POINTER TO ARGUMENT | 6400 |
| 10104 | -0320 | 00 | 0 | 00460 | 4561 | ANA | \$DMASK | | MASK OUT ALL BUT DECREMENT | 6410 |
| 10105 | 0100 | 00 | 0 | 10130 | 4562 | TZE | TWA | | GO IF 2 ARGUMENTS | 6420 |
| 10106 | -0634 | 00 | 4 | 03320 | 4563 | SXD | \$ARG2,4 | | PUT AWAY | 6430 |
| 10107 | *0634 | 00 | 2 | 10126 | 4564 | SXA | SPRY,2 | | SAVE INDEX 1 AND 2 | 6440 |
| 10110 | 0634 | 00 | 1 | 10125 | 4565 | SXA | SPRZ,1 | | | 6450 |
| 10111 | 0774 | 00 | 1 | 00022 | 4566 | AXT | 18,1 | | 20 IS MAX NO OF ARGS | |
| 10112 | -0734 | 00 | 4 | 00000 | 4567 | PDX | 0,4 | | REST OF ARG LIST TO IR 4 | |
| 10113 | -3 | 00000 | 4 | 10125 | 4568 | SPPI | TXL | SPRZ,4,0 | GO IF END OF LIST | 6470 |
| 10114 | 0500 | 00 | 4 | 00000 | 4569 | CLA | ,4 | | | LC553500 |
| 10115 | -0734 | 00 | 4 | 00000 | 4570 | PDX | ,4 | | | LC553600 |
| 10116 | 0734 | 00 | 2 | 00000 | 4571 | PAX | ,2 | | | LC553700 |
| 10117 | -0754 | 00 | 2 | 00000 | 4572 | PXD | ,2 | | | LC553800 |
| 10120 | 0601 | 00 | 1 | 03343 | 4573 | STD | \$ARG20+1,1 | | | |
| 10121 | 2 | 00001 | 1 | 10113 | 4574 | TIX | SPP1,1,1 | | | LC554000 |
| 10122 | -0634 | 00 | 4 | 01562 | 4575 | SPPERR | SXD | \$ERROR,4 | | 6480 |
| 10123 | 0074 | 00 | 4 | 01563 | 4576 | TSX | \$ERROR+1,4 | | | LC554200 |
| 10124 | 542160600754 | | | | 4577 | BCI | 1,*A 7* | | TOO MANY ARGUMENTS---SPREAD*() | |
| | | | | | 4578 | | | | | LC554600 |
| 10125 | 0774 | 00 | 1 | 00000 | 4579 | SPRZ | AXT | ** ,1 | RESTORE IR 1 | 1.508000 |
| 10126 | 0774 | 00 | 2 | 00000 | 4580 | SPRY | AXT | ** ,2 | DIITO IR 2 | 1.508001 |
| 10127 | -0534 | 00 | 4 | 03320 | 4581 | LXD | \$ARG2,4 | | ARG 2 | 1.508002 |
| 10130 | -0754 | 00 | 4 | 00000 | 4582 | TWA | PXD | 0,4 | PUT IN DECREMENT AC | 1.508003 |
| 10131 | 0131 | 00 | 0 | 00000 | 4583 | NLY | XCA | | ARG 1 AND 2 TO RIGHT REGISTERS | 1.508004 |
| 10132 | 0774 | 00 | 4 | 00000 | 4584 | SPRX | AXT | ** ,4 | RESTORE LINK IR | 1.508005 |
| 10133 | 0020 | 00 | 4 | 00001 | 4585 | TRA | 1,4 | | EXIT | 1.508006 |
| | | | | | 4586 | | | | | LC555700 |

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|-------|-------|----|---|-------|------|----------|--|---------------------------|----------|
| | | | | | 4587 | FUNCTION | ATTRIB(O,L) | | LC555800 |
| | | | | | 4588 | | ATTRIB(O,L)=/ CDR(O)=O YIELDS (L REPLACES CDR(O)) | | LC555900 |
| | | | | | 4589 | | ELSE ATTRIB(CDR(O),L) / | | LC556000 |
| | | | | | 4590 | | | | LC556100 |
| | | | | | 4591 | R | HED | | LC556200 |
| 10134 | 0634 | 00 | 4 | 10146 | 4592 | ATTRIB | SXA AT1,4 | | |
| 10135 | -0100 | 00 | 0 | 10140 | 4593 | | TNZ ATRB | GO IF BEGINNING OF LIST | 1.5Q8010 |
| 10136 | 0131 | 00 | 0 | 00000 | 4594 | | XCA | OTHERWISE EXIT WITH ARG 2 | 1.5Q8011 |
| 10137 | 0020 | 00 | 4 | 00001 | 4595 | | TRA 1,4 | | 1.5Q8012 |
| 10140 | -0734 | 00 | 4 | 00000 | 4596 | ATRB | PDX ,4 | 0 | LC556500 |
| 10141 | 0500 | 00 | 4 | 00000 | 4597 | | CLA ,4 | | LC556600 |
| 10142 | -0320 | 00 | 0 | 00460 | 4598 | | ANA DMASK | CDR(O) | LC556700 |
| 10143 | -0100 | 00 | 0 | 10140 | 4599 | | TNZ ATRB | | LC556800 |
| 10144 | 0131 | 00 | 0 | 00000 | 4600 | | XCA | ARG 2 TO AC | 1.5Q8013 |
| 10145 | 0622 | 00 | 4 | 00000 | 4601 | | STD ,4 | | LC557000 |
| 10146 | 0774 | 00 | 4 | 00000 | 4602 | AT1 | AXT **,4 | | |
| 10147 | 0020 | 00 | 4 | 00001 | 4603 | | TRA 1,4 | | LC557200 |
| | | | | 00460 | 4604 | DMASK | SYN \$DMASK | | 6490 |
| | | | | | 4605 | | | | LC557700 |
| | | | | | 4606 | | | | LC576400 |
| | | | | | 4607 | | NOT FUNCTION | | LC576500 |
| | | | | | 4608 | | | | LC576600 |
| | | | | | 4609 | R | HED | | LC576700 |
| 10150 | 0100 | 00 | 0 | 10153 | 4610 | NOTS | TZE **3 | | LC576800 |
| 10151 | -0754 | 00 | 0 | 00000 | 4611 | | PXD ,0 | | LC576900 |
| 10152 | 0020 | 00 | 4 | 00001 | 4612 | | TRA 1,4 | | LC577000 |
| 10153 | 0500 | 00 | 0 | 00442 | 4613 | | CLA NOTC1 | | LC577100 |
| 10154 | 0020 | 00 | 4 | 00001 | 4614 | | TRA 1,4 | | LC577200 |
| | | | | 00442 | 4615 | NOTC1 | SYN \$QD1 | | LC577300 |
| | | | | | 4616 | | | | LC576200 |
| | | | | | 4617 | | THE RPLACX FUNCTIONS REPLACE THE X PART OF THE FIRST ARG | | LC577400 |
| | | | | | 4618 | | WITH THE SECOND ARGUMENT | | LC577500 |
| | | | | | 4619 | | THE VALUE OF RPLACA,RPLACD, AND RPLACW IS ZERO | | LC577600 |
| | | | | | 4620 | S | HED | | LC577700 |
| 10155 | 0634 | 00 | 4 | 10162 | 4621 | RPLACA | SXA REPL,4 | | LC577800 |
| 10156 | -0734 | 00 | 4 | 00000 | 4622 | | PDX 0,4 | | LC577900 |
| 10157 | -0763 | 00 | 0 | 00022 | 4623 | | LGL 18 | | LC578000 |
| 10160 | 0621 | 00 | 4 | 00000 | 4624 | | STA 0,4 | | LC578100 |
| 10161 | -0754 | 00 | 4 | 00000 | 4625 | RPLEX | PXD 0,4 | ARG1 TO AC AS ANSWER | |
| 10162 | 0774 | 00 | 4 | 00000 | 4626 | REPL | AXT **,4 | RESTORE LINK IR | 1.5Q8023 |
| 10163 | 0020 | 00 | 4 | 00001 | 4627 | | TRA 1,4 | | LC578400 |
| 10164 | 0634 | 00 | 4 | 10162 | 4628 | RPLACD | SXA REPL,4 | | LC578500 |
| 10165 | -0734 | 00 | 4 | 00000 | 4629 | | PDX 0,4 | | LC578600 |
| 10166 | -0620 | 00 | 4 | 00000 | 4630 | | SLQ 0,4 | | LC578700 |
| 10167 | 0020 | 00 | 0 | 10161 | 4631 | | TRA RPLEX | EXIT | 1.5Q8022 |
| 10170 | 0634 | 00 | 4 | 10162 | 4632 | RPLACW | SXA REPL,4 | | LC579100 |
| 10171 | -0734 | 00 | 4 | 00000 | 4633 | | PDX 0,4 | | LC579200 |
| 10172 | -0600 | 00 | 4 | 00000 | 4634 | | STQ 0,4 | | LC579300 |
| 10173 | 0020 | 00 | 0 | 10161 | 4635 | | TRA RPLEX | EXIT | 1.5Q8021 |
| | | | | | 4636 | | | | LC580000 |
| | | | | | 4637 | | | | LC580400 |
| | | | | | 4638 | | OBJECT GENERATOR | | LC580500 |
| | | | | | 4639 | | | | LC580600 |
| 10174 | 0634 | 00 | 4 | 10214 | 4640 | GENSYM | SXA GENX,4 | SAVE LINK IR | 1.5Q8029 |

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|-------|--------------|----|---|-------|------|-------|--------------|---|----------|
| 10175 | 0500 | 00 | 0 | 10217 | 4641 | CLA | DIGIT | GET DIGITS | |
| 10176 | 0114 | 06 | 0 | 05313 | 4642 | CVR | BCDAD1,,6 | ADD 1 IN BCD | |
| 10177 | 0601 | 00 | 0 | 10217 | 4643 | STD | DIGIT | UPDATE CELL | |
| 10200 | -0501 | 00 | 0 | 10216 | 4644 | ORA | LETR | | |
| 10201 | 0074 | 00 | 4 | 03710 | 4645 | TSX | \$CONSW,4 | | LC582700 |
| 10202 | 0560 | 00 | 0 | 00370 | 4646 | LDO | GENZ | | LC582800 |
| 10203 | 0074 | 00 | 4 | 03730 | 4647 | TSX | \$CONS,4 | | LC582900 |
| 10204 | 0560 | 00 | 0 | 00370 | 4648 | LDO | GENZ | | LC583000 |
| 10205 | 0074 | 00 | 4 | 03730 | 4649 | TSX | \$CONS,4 | | LC583100 |
| 10206 | 0131 | 00 | 0 | 00000 | 4650 | XCA | | | |
| 10207 | 0500 | 00 | 0 | 00504 | 4651 | CLA | GENPN | | LC583400 |
| 10210 | 0074 | 00 | 4 | 03730 | 4652 | TSX | \$CONS,4 | | LC583500 |
| 10211 | 0131 | 00 | 0 | 00000 | 4653 | XCA | | | LC583700 |
| 10212 | 0500 | 00 | 0 | 00460 | 4654 | CLA | GENC | | LC583800 |
| 10213 | 0074 | 00 | 4 | 03730 | 4655 | TSX | \$CONS,4 | | LC583900 |
| 10214 | 0774 | 00 | 4 | 00000 | 4656 | GENX | AXT ** ,4 | RESTORE LINK IR | 1.508033 |
| 10215 | 0020 | 00 | 4 | 00001 | 4657 | TRA | 1,4 | | LC584400 |
| | | | | 00370 | 4658 | GENZ | SYN \$ZERO | | 1.508034 |
| | | | | 00504 | 4659 | GENPN | SYN PNAMED | | 1.508035 |
| | | | | 00460 | 4660 | GENC | SYN \$DMASK | | 1.508036 |
| 10216 | 270000000000 | | | | 4661 | LETR | BCI 1,000000 | | |
| 10217 | 000000000000 | | | | 4662 | DIGIT | BCI 1,000000 | | |
| | | | | | 4663 | | | | LC580100 |
| | | | | | 4664 | * | | | 9250 |
| | | | | | 4665 | * | OVERLORD | THE TAPE HANDLING SECTION OF LISP. RECODED 20 FEBRUARY | 9260 |
| | | | | | 4666 | * | | 1961 BY D. J. EDWARDS. | 9270 |
| | | | | | 4667 | * | | | 9280 |
| | | | | | 4668 | * | OVERLORD | DIRECTION CARDS ARE PUNCHED IN FAP FORMAT WITH THE VARIABLE | 9290 |
| | | | | | 4669 | * | | FIELD BEGINNING IN COLUMN 16. DIRECTION CARDS ARE | 9300 |
| | | | | | 4670 | * | ONE | (USE NO TAPES FOR THIS RUN) | 9310 |
| | | | | | 4671 | * | SET | (SAVE RESULTS ON SYSTMP IF NO ERROR OCCURS) | 9320 |
| | | | | | 4672 | * | TST | (GET NEW CORE IMAGE AFTER OPERATION) | 9330 |
| | | | | | 4673 | * | TEST | (SAME AS ABOVE) | 9340 |
| | | | | | 4674 | * | FIN | (ALL DONE, STOP MACHINE OR RETURN TO A HIGHER MONITOR) | 9350 |
| | | | | | 4675 | * | SETSET | (AVE RESULTS ON SYSTMP NO MATTER WHAT) | 9360 |
| | | | | | 4676 | * | DEBUG | (SAME AS TEST BUT OBJECTLIST IS NOT SAVED AFTER READ IN) | 9370 |
| | | | | | 4677 | * | SIZE | N1,N2,N3,N4 (GIVES SIZE OF BINPRG, PPDL, FWS AND FREE) | 9380 |
| | | | | | 4678 | * | TAPE | SYSXXX,A7 (ASSIGNS SYSXXX TO UNIT A 7) | 9390 |
| | | | | | 4679 | * | DUMP | BEG,END,TYPE (MAKES OCTAL DUMP ON SYSPOT ACCORDING TO | 9400 |
| | | | | | 4680 | * | | TYPE. 0 FOR STRAIGHT OCTAL, NON-ZERO FOR | 9410 |
| | | | | | 4681 | * | | LISP (COMPLEMENT) DUMP.) | 9420 |
| | | | | | 4682 | * | REMARK | (LOG AS DIRECTION CARD AND LOKK FOR NEXT DIRECTION CARD) | |
| | | | | | 4683 | * | EXCISE | I (I IS COMPILER, INTERPRETER OR BOTH. TURNS ITEM INTO | |
| | | | | | 4684 | * | | FREE STORAGE OR FULL WOTD SPACE) | |
| | | | | | 4685 | * | | | 9430 |
| | | | | | 4686 | * | | | 9440 |
| 10220 | 0604 | 00 | 0 | 10336 | 4687 | OVBGN | STI OVSVI | BEGIN BY SAVING INDICATORS AND | 9450 |
| 10221 | 0634 | 00 | 4 | 10511 | 4688 | SXA | OVRLX,4 | INDEX REGISTERS | 9460 |
| 10222 | 0634 | 00 | 2 | 10512 | 4689 | SXA | OVRLY,2 | | 9470 |
| 10223 | 0634 | 00 | 1 | 10513 | 4690 | SXA | OVRLZ,1 | | 9480 |
| 10224 | 0441 | 00 | 0 | 10337 | 4691 | LDI | OVIND | PRESET INDICATORS | 9490 |
| 10225 | 0604 | 00 | 0 | 10340 | 4692 | STI | SYSIND | AND SYSTEM INDICATORS | 9500 |
| 10226 | 0500 | 00 | 0 | 00177 | 4693 | CLA | FLAPCZ | CONTENTS OF CELL ZERO | |
| 10227 | 0601 | 00 | 0 | 00000 | 4694 | STD | 0 | FIX ANY CLOBBERING THAT MAT BE DONE | |

| | | | | | | | | | |
|-------|-------|-------|-------|--------|--------|--------|--------|----------------------|------|
| 10256 | 10230 | 0074 | 00 | 4 | 00663 | 4695 * | | | 9510 |
| | | | | | | 4696 | QVRLRD | TSX | 9520 |
| | 10231 | 0 | 00000 | 0 | 00000 | 4697 | | \$BCDIN | 9530 |
| | 10232 | 0 | 00016 | 0 | 10404 | 4698 | | OVBUFF, 14 | 9540 |
| | 10233 | 0020 | 00 | 0 | 10254 | 4699 | TRA | OVERR | 9550 |
| | 10234 | 0020 | 00 | 0 | 10260 | 4700 | TRA | OVEOF | 9560 |
| | 10235 | 0560 | 00 | 0 | 10406 | 4701 | OVGOR | LDQ | 9570 |
| | 10236 | -0500 | 00 | 0 | 10405 | 4702 | CAL | OVBUFF+1 | 9580 |
| | 10237 | -0763 | 00 | 0 | 00006 | 4703 | LGL | 6 | 9590 |
| | 10240 | 0774 | 00 | 4 | 00030 | 4704 | AXT | 24, 4 | |
| | 10241 | -0340 | 00 | 4 | 10336 | 4705 | OVSRC | LAS | 9610 |
| | 10242 | 0020 | 00 | 0 | 10244 | 4706 | TRA | OVTBL, 4 | 9620 |
| | 10243 | 0020 | 00 | 0 | 10264 | 4707 | TRA | **2 | 9630 |
| | 10244 | 2 | 00002 | 4 | 10241 | 4708 | TIX | OVSRC, 4, 2 | 9640 |
| | 10245 | 3 | 00000 | 0 | 10230 | 4709 | OVBSW | TXH | 9650 |
| | 10246 | 0502 | 00 | 0 | 10245 | 4710 | CLS | OVBWS | 9660 |
| | 10247 | 0601 | 00 | 0 | 10245 | 4711 | STO | OVBWS | 9670 |
| | 10250 | 0074 | 00 | 4 | 01222 | 4712 | TSX | OUTPUT, 4 | 9680 |
| | 10251 | -0 | 00000 | 0 | 00364 | 4713 | MZE | BCDOUT | 9690 |
| | 10252 | 0 | 00017 | 0 | 10403 | 4714 | | OVBUFF-1, 15 | 9700 |
| | 10253 | 0020 | 00 | 0 | 10230 | 4715 | TRA | QVRLRD | 9710 |
| | | | | | | 4716 * | | | 9720 |
| | 10254 | 0074 | 00 | 4 | 01222 | 4717 | OVERR | TSX | |
| | 10255 | 0 | 00000 | 0 | 00364 | 4718 | | BCDOUT | |
| | 10256 | 0 | 00011 | 0 | 10362 | 4719 | | OVRDM, 9 | |
| | 10257 | 0020 | 00 | 0 | 10235 | 4720 | TRA | OVGOR | |
| | | | | | | 4721 * | | | |
| | 10260 | 0074 | 00 | 4 | 01222 | 4722 | OVEOF | TSX | |
| | 10261 | 0 | 00000 | 0 | 00364 | 4723 | | BCDOUT | |
| | 10262 | 0 | 00007 | 0 | 10373 | 4724 | | OVALF, 7 | |
| | 10263 | 0020 | 00 | 0 | 10472 | 4725 | TRA | OVDN | |
| | | | | | | 4726 * | | | |
| | 10264 | 0500 | 00 | 0 | 10245 | 4727 | OVPNT | CLA | |
| | 10265 | 0602 | 00 | 0 | 10245 | 4728 | SLW | OVBWS | |
| | 10266 | 0500 | 00 | 4 | 10337 | 4729 | CLA | OVTBL+1, 4 | |
| | 10267 | 0621 | 00 | 0 | 10305 | 4730 | STA | OVTRA | |
| | 10270 | 0500 | 00 | 0 | 00200 | 4731 | CLA | FLAPCX | |
| | 10271 | 0601 | 00 | 0 | 00010 | 4732 | STO | 8 | |
| | 10272 | 0500 | 00 | 0 | 00201 | 4733 | CLA | FLAPCY | |
| | 10273 | 0601 | 00 | 0 | 00002 | 4734 | STO | 2 | |
| | 10274 | 0500 | 00 | 0 | 00177 | 4735 | CLA | FLAPCZ | |
| | 10275 | 0601 | 00 | 0 | 00000 | 4736 | STO | 0 | |
| | 10276 | 0074 | 00 | 4 | 01222 | 4737 | TSX | OUTPUT, 4 | |
| | 10277 | -0 | 00000 | 0 | 00364 | 4738 | MZE | BCDOUT | |
| | 10300 | 0 | 00017 | 0 | 10403 | 4739 | | OVBUFF-1, 15 | |
| | 10301 | 0140 | 00 | 0 | 10302 | 4740 | TOV | **1 | |
| | 10302 | 0441 | 00 | 0 | 10340 | 4741 | LDI | SYSIND | |
| | 10303 | 0057 | 00 | 000014 | 4742 | 4742 | RIR | 14 | |
| | 10304 | 0604 | 00 | 0 | 10340 | 4743 | STI | SYSIND | |
| | 10305 | 0020 | 00 | 0 | 00000 | 4744 | OVTRA | TRA | |
| | | | | | 000010 | 4745 | ERRORI | BOOL | |
| | | | | | | 4746 * | | | 9850 |
| | | | | | | 4747 * | | DIRECTION CARD TABLE | 9870 |

| | | | | | | | | | |
|--|-------|--------------|----|---|-------|------|-----|--------|------|
| | 10307 | 0020 | 00 | 0 | 10526 | 4749 | TRA | OVONE | 9890 |
| | 10310 | 622563606060 | | | | 4750 | BCI | 1, SET | 9900 |
| | 10311 | 0020 | 00 | 0 | 10451 | 4751 | TRA | OVSET | 9910 |
| | 10312 | 636263606060 | | | | 4752 | BCI | 1, TST | 9920 |
| | 10313 | 0020 | 00 | 0 | 10423 | 4753 | TRA | OVTST | 9930 |

10163

10230

10256

| | | | | | |
|-------|------------------|-------|-----------|---|----------|
| 10310 | 203143000000 | 4756 | BCI | 1,FIN | 9960 |
| 10317 | 0020 00 0 10472 | 4757 | TRA | QVDN | 9970 |
| 10320 | 623171256060 | 4758 | BCI | 1,SIZE | 9980 |
| 10321 | 0020 00 0 10532 | 4759 | TRA | QVSZE | 9990 |
| 10322 | 622563622563 | 4760 | BCI | 1,SETSET | 1.5M0010 |
| 10323 | 0020 00 0 10437 | 4761 | TRA | QV SST | 1.5M0020 |
| 10324 | 242522642760 | 4762 | BCI | 1,DEBUG | 1.5M0030 |
| 10325 | 0020 00 0 10422 | 4763 | TRA | QVDBG | 1.5M0040 |
| 10326 | 632147256060 | 4764 | BCI | 1,TAPE | 1.5M0050 |
| 10327 | 0020 00 0 11074 | 4765 | TRA | QV TAP | 1.5M0060 |
| 10330 | 246444476060 | 4766 | BCI | 1,DUMP | |
| 10333 | 0020 00 0 10230 | 4769 | TRA | QVRLRD | |
| 10334 | 256723316225 | 4770 | BCI | 1,EXCISE | |
| 10335 | 0020 00 0 11307 | 4771 | TRA | QVEXS | |
| 10336 | 0 00000 0 00000 | 4772 | OVSVI | TEMPORARY STORAGE FOR INDICATORS | 1.5M0090 |
| | | 10336 | OVTBL SYN | FOR INDEXING DIRECTION CARD TABLE | 1.5M0100 |
| 10337 | -1 00000 0 00000 | 4774 | OVIND STR | PRESET FOR LISP INDICATORS | 1.5M0110 |
| 10340 | 0 00000 0 00000 | 4775 | SYSIND | SYSTEM INDICATORS GO HERE | 1.5M0120 |
| 10341 | 002551514651 | 4776 | OVCEM BCI | 7,0ERROR IN SIZE CARD -OVERLORD- *0 1* | 1.5M0130 |
| 10342 | 603145606231 | | | | |
| 10343 | 712560232151 | | | | |
| 10344 | 246040466525 | | | | |
| 10345 | 514346512440 | | | | |
| 10346 | 606054006001 | | | | |
| 10347 | 546060606060 | | | | |
| 10350 | 002163632544 | 4777 | OVNSM BCI | 9,0ATTEMPT TO OPERATE BEFORE SIZE CARD READ -OVERLORD- | 1.5M0140 |
| 10351 | 476360634660 | | | | |
| 10352 | 464725512163 | | | | |
| 10353 | 256022252646 | | | | |
| 10354 | 512560623171 | | | | |
| 10355 | 256023215124 | | | | |
| 10356 | 605125212460 | | | | |
| 10357 | 404665255143 | | | | |
| 10360 | 465124406060 | | | | |
| 10361 | 605446600354 | 4778 | BCI | 1, *0 3* | 1.5M0150 |
| 10362 | 002551514651 | 4779 | OVRDM BCI | 9,0ERROR ON INPUT, BUT GOING ON ANYHOW -OVERLORD- *0 5* | |
| 10363 | 604645603145 | | | | |
| 10364 | 476463736022 | | | | |
| 10365 | 646360274631 | | | | |
| 10366 | 452760464560 | | | | |
| 10367 | 214570304666 | | | | |
| 10370 | 604046652551 | | | | |
| 10371 | 434651244060 | | | | |
| 10372 | 544660600554 | | | | |
| 10373 | 002545246046 | 4780 | OVALF BCI | 7,0END OF FILE ON INPUT -OVERLORD- *0 6* | |

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|------------------|---------------------------|------|--------|-------|--------------------------------|--|----------|--|--|--|
| 10374 | 266026314325 | | | | | | | | | |
| 10375 | 604645603145 | | | | | | | | | |
| 10376 | 476463604046 | | | | | | | | | |
| 10377 | 652551434651 | | | | | | | | | |
| 10400 | 244060544660 | | | | | | | | | |
| 10401 | 600654606060 | | | | | | | | | |
| 10402 | 0 00004 0 10406 | 4781 | DVPOS | | OVBUF+2,,4 | BEGINNING OF VARIABLE FIELD IN DIR CRD | | | | |
| 10403 | 006060606060 | 4782 | * | BCI | 1,0 | DOUBLE SPACE PRINT OF DIRECTION CARD | 1.5M0180 | | | |
| 10404 | 0055 00 000004 | 4783 | OVBUS | BSS | 14 | OVERLORD DIRECTION CARD BUFFER | 1.5M0190 | | | |
| 10404 | 0055 00 000004 | 4784 | * | | | | 1.5M0200 | | | |
| | | 4785 | * | DEBUG | | OVERLORD DIRECTION | 1.5M0210 | | | |
| 10422 | 0055 00 000004 | 4786 | OVDDBG | SIR | 4 | SET BEBUG INDICATOR | 1.5M0220 | | | |
| | | 4787 | * | | | PREFORM OVTST | 1.5M0230 | | | |
| | | 4788 | * | | | | 1.5M0240 | | | |
| | | 4789 | * | | | | 1.5M0250 | | | |
| | | 4790 | * | | TEST OR TST OVERLORD DIRECTION | | 1.5M0260 | | | |
| 10423 | 0056 00 000020 | 4791 | OVTST | RNT | 20 | TEST FOR SETUP | 1.5M0270 | | | |
| 10424 | 0020 00 0 10570 | 4792 | TRA | | OVNSZ | ERROR FOR NOO SIZE CARD HAS BEEN READ | 1.5M0280 | | | |
| 10425 | 0057 00 000100 | 4793 | RIR | | TAPIND | RESET TAPE INDICATOR | 1.5P0101 | | | |
| 10426 | 0054 00 000002 | 4794 | RFT | | 2 | WRITE TEST | 1.5M0290 | | | |
| 10427 | 0074 00 4 00633 | 4795 | TSX | | TAPDMP,4 | DUMP ON SYSTMP | 1.5M0300 | | | |
| 10430 | 0054 00 000001 | 4796 | RFT | | 1 | TEST FOR NEW CORE IMAGE | 1.5M0310 | | | |
| 10431 | 0074 00 4 00651 | 4797 | TSX | | OVL,4 | GET ONE | 1.5M0320 | | | |
| 10432 | 0055 00 000001 | 4798 | SIR | | 1 | SET READ INDICATOR | 1.5M0330 | | | |
| 10433 | 0057 00 000002 | 4799 | RIR | | 2 | TURN OFF WRITE INDICATOR | 1.5M0340 | | | |
| 10434 | 0604 00 0 10340 | 4800 | OVTA | STI | SYSD | UPDATE SYSTEM INDICATORS | 1.5M0350 | | | |
| 10435 | 0074 00 4 11310 | 4801 | TSX | | SEVALQ,4 | PERFORM THE EVAL QUOTE OPERATOR | 1.5M0360 | | | |
| 10436 | 0020 00 0 10230 | 4802 | TRA | | OVRLRD | GET NEXT OVERLORD DIRECTION CARD | 1.5M0370 | | | |
| | 000004 | 4803 | DEBUGI | BOOL | 4 | DEBUG INDICATOR | 1.5M0380 | | | |
| | | 4804 | * | | | | 1.5M0390 | | | |
| | | 4805 | * | | SETSET DIRECTION CARD | | 1.5M0400 | | | |
| 10437 | 0056 00 000020 | 4806 | OVST | RNT | 20 | TEST FOR SIZE | 1.5M0410 | | | |
| 10440 | 0020 00 0 10570 | 4807 | TRA | | OVNSZ | ERROR, NO SIZE | 1.5M0420 | | | |
| 10441 | 0057 00 000100 | 4808 | RIR | | TAPIND | RESET TAPE INDICATOR | 1.5P0102 | | | |
| 10442 | 0054 00 000002 | 4809 | RFT | | 2 | TEST FOR SAVE CORE | 1.5M0430 | | | |
| 10443 | 0074 00 4 00633 | 4810 | TSX | | TAPDMP,4 | SAVE IT | 1.5M0440 | | | |
| 10444 | 0054 00 000001 | 4811 | RFT | | 1 | TEST FOR NEW IMAGE | 1.5M0450 | | | |
| 10445 | 0074 00 4 00651 | 4812 | TSX | | OVL,4 | GET ONE | 1.5M0460 | | | |
| 10446 | 0055 00 000002 | 4813 | SIR | | 2 | SET WRITE INDICATOR | 1.5M0470 | | | |
| 10447 | 0057 00 000001 | 4814 | RIR | | 1 | RESET READ INDICATOR | 1.5M0480 | | | |
| 10450 | 0020 00 0 10434 | 4815 | TRA | | OVTA | PERFORM EVALQ AND GET NEXT CARD | 1.5M0490 | | | |
| | | 4816 | * | | | | 1.5M0500 | | | |
| | | 4817 | * | SET | OVERLORD DIRECTION | | 1.5M0510 | | | |
| 10451 | 0056 00 000020 | 4818 | OVSET | RNT | 20 | TEST FOR SIZE | 1.5M0520 | | | |
| 10452 | 0020 00 0 10570 | 4819 | TRA | | OVNSZ | ERROR, NO SIZE CARD | 1.5M0530 | | | |
| 10453 | 0057 00 000100 | 4820 | RIR | | TAPIND | RESET TAPE INDICATOR | 1.5P0103 | | | |
| 10454 | 0054 00 000002 | 4821 | RFT | | 2 | CHECK WRITE INDICATOR | 1.5M0540 | | | |
| 10455 | 0074 00 4 00633 | 4822 | TSX | | TAPDMP,4 | DUMP ON SYSTMP | 1.5M0550 | | | |
| 10456 | 0054 00 000001 | 4823 | RFT | | 1 | TEST FOR NEW CORE IMAGE | 1.5M0560 | | | |
| 10457 | 0074 00 4 00651 | 4824 | TSX | | OVL,4 | GET ONE FROM SYSTMP | 1.5M0570 | | | |
| 10460 | 0055 00 000002 | 4825 | SIR | | 2 | SET WRITE INDICATOR | 1.5M0580 | | | |
| 10461 | 0057 00 000001 | 4826 | RIR | | 1 | RESET READ INDICATOR | 1.5M0590 | | | |
| 10462 | 0604 00 0 10340 | 4827 | STI | | SYSD | UPDATE SYSTEM INDICATORS | 1.5M0600 | | | |
| 10463 | 0074 00 4 11310 | 4828 | TSX | | SEVALQ,4 | EVALUATE SET | 1.5M0610 | | | |

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|-------|-------|----|--------|-------|--------|---|-------------------------|---------------------------------------|-------------------------------------|----------|
| 10464 | 0441 | 00 | 0 | 10340 | 4829 | LDI | SYSIND | GET SYSTEM INDICATORS | 1.5M0620 | |
| 10465 | 0056 | 00 | 000010 | 4830 | | RNT | 10 | TEST ERROR INDICATOR | 1.5M0630 | |
| 10466 | 0020 | 00 | 0 | 10230 | 4831 | TRA | OVRLRD | OFF, GET NEXT DIRECTION CARD | 1.5M0640 | |
| 10467 | 0051 | 00 | 000003 | 4832 | | IIR | 3 | ON, INVERT READ AND WRITE INDICATORS | 1.5M0650 | |
| 10470 | 0604 | 00 | 0 | 10340 | 4833 | STI | SYSIND | | | |
| 10471 | 0020 | 00 | 0 | 10230 | 4834 | TRA | OVRLRD | GET NEXT DIRECTION CARD | 1.5M0660 | |
| | | | | 4835 | * | | | | 1.5M0670 | |
| | | | | 4836 | * | FIN | OVERLORD DIRECTION CARD | | 1.5M0680 | |
| | | | | 4837 | * | | | | 1.5M0690 | |
| 10472 | 0054 | 00 | 000002 | 4838 | OVDN | RFT | 2 | TEST WRITE INDICATOR | 1.5M0700 | |
| 10473 | 0074 | 00 | 4 | 00633 | 4839 | TSX | TAPDMP,4 | DUMP CORE ON SYSTMP | 1.5M0710 | |
| 10474 | 0057 | 00 | 000002 | 4840 | | RIR | 2 | RESET WRITE INDICATOR | 1.5M0720 | |
| 10475 | 0057 | 00 | 000100 | 4841 | | RIR | TAPIND | RESET TAPE INDICATOR | 1.5P0104 | |
| 10476 | 0056 | 00 | 000040 | 4842 | | RNT | PPTIND | SEE IF PUNCH TAPE USED | 1.5M0730 | |
| 10477 | 0020 | 00 | 0 | 10503 | 4843 | TRA | **4 | SKIP IF NOT USED | 1.5M0740 | |
| 10500 | 0500 | 00 | 0 | 00363 | 4844 | CLA | SYSPT | TAPE SPEC. | 1.5M0750 | |
| 10501 | 0074 | 00 | 4 | 00276 | 4845 | TSX | \$(IOS),4 | SET UP I-O COMMANDS | 1.5M0760 | |
| 10502 | 0522 | 00 | 0 | 00353 | 4846 | XEC | \$WEF | WRITE EOF ON PPT | 1.5M0770 | |
| 10503 | 0057 | 00 | 000040 | 4847 | | RIR | PPTIND | RESET INDICATOR | 1.5M0780 | |
| 10504 | 0604 | 00 | 0 | 10340 | 4848 | STI | SYSIND | UPDATE SYSTEM INDICATORS | 1.5M0790 | |
| 10505 | 0500 | 00 | 0 | 00364 | 4849 | CLA | SYSPT | TAPE SPEC. | 1.5M0800 | |
| 10506 | 0074 | 00 | 4 | 00276 | 4850 | TSX | \$(IOS),4 | SET UP I-O COMMANDS | 1.5M0810 | |
| 10507 | 0522 | 00 | 0 | 00353 | 4851 | XEC | \$WEF | WRITE EOF ON SYSPOT | 1.5M0820 | |
| 10510 | 0441 | 00 | 0 | 10336 | 4852 | LDI | OVSVI | RESTORE ORIGINAL INDICATORS AND | 1.5M0830 | |
| 10511 | 0774 | 00 | 4 | 00000 | 4853 | OVRLX | AXT | **4 | INDEX REGISTERS | 1.5M0840 |
| 10512 | 0774 | 00 | 2 | 00000 | 4854 | OVRLY | AXT | **2 | | 1.5M0850 |
| 10513 | 0774 | 00 | 1 | 00000 | 4855 | OVRLZ | AXT | **1 | | 1.5M0860 |
| 10514 | 0500 | 00 | 0 | 10525 | 4856 | CLA | OVT0V | PICK UP RESTART INSTRUCTION | 1.5M0870 | |
| 10515 | 0601 | 00 | 0 | 00000 | 4857 | STO | 0 | STORE IN ZERO | 1.5M0880 | |
| 10516 | -0754 | 00 | 0 | 00000 | 4858 | PXD | 0,0 | LIGHT THE PANEL | 1.5M0890 | |
| 10517 | 0760 | 00 | 0 | 00006 | 4859 | COM | | | 1.5M0900 | |
| 10520 | -0765 | 00 | 0 | 00045 | 4860 | LGR | 37 | | 1.5M0910 | |
| 10521 | 0760 | 00 | 0 | 00006 | 4861 | COM | | | 1.5M0920 | |
| 10522 | -0760 | 00 | 0 | 00003 | 4862 | SSM | | | 1.5M0930 | |
| 10523 | 0420 | 00 | 7 | 77777 | 4863 | HPR | -1,7 | STOP | 1.5M0940 | |
| 10524 | 0020 | 00 | 0 | 10523 | 4864 | TRA | *-1 | PRESS RESET AND START TO RESTART LISP | 1.5M0950 | |
| 10525 | 0020 | 00 | 0 | 10230 | 4865 | OVT0V | TRA | OVRLRD | TRANSFER TO GET NEXT DIRECTION CARD | 1.5M0960 |
| | | | 000040 | 4866 | PPTIND | BOOL | 40 | PUNCH TAPE INDICATOR | 1.5M0970 | |
| | | | | 4867 | * | | | | 1.5M0980 | |
| | | | | 4868 | * | ONE | OVERLORD DIRECTION | | 1.5M0990 | |
| | | | | 4869 | * | | | | 1.5M1000 | |
| 10526 | 0056 | 00 | 000020 | 4870 | OVONE | RNT | 20 | TEST FOR SIZE | 1.5M1010 | |
| 10527 | 0020 | 00 | 0 | 10570 | 4871 | TRA | OVNSZ | ERROR, NO SIZE CARD READ | 1.5M1020 | |
| 10530 | 0057 | 00 | 000003 | 4872 | | RIR | 3 | RESET READ AND WRITE INDICATORS | 1.5M1030 | |
| 10531 | 0020 | 00 | 0 | 10434 | 4873 | TRA | OVTA | SAVE INDICATORS AND DO EVAL Q | 1.5M1040 | |
| | | | | 4874 | * | | | | 1.5M1050 | |
| | | | | 4875 | * | SIZE | N1,N2,N3,N4 | (OVERLORD DIRECTION CARD) | 1.5M1060 | |
| | | | | 4876 | * | N1 = LENGTH OF BINARY PROGRAM, N2 = LENGTH OF PUBLIC PUSH DOWN | | | 1.5M1070 | |
| | | | | 4877 | * | LIST, N3 = LENGTH OF FULL WORD SPACE, N4 = LENGTH OF FREE STORAGE | | | 1.5M1080 | |
| | | | | 4878 | * | | | | 1.5M1090 | |
| 10532 | 0054 | 00 | 000002 | 4879 | OVSZE | RFT | 2 | TEST FOR DUMP OF CURRENT CORE IMAGE | 1.5M1100 | |
| 10533 | 0074 | 00 | 4 | 00633 | 4880 | TSX | TAPDMP,4 | DUMP ON SYSTMP | 1.5M1110 | |
| 10534 | 0500 | 00 | 0 | 10402 | 4881 | CLA | OVPOS | SET TO TRANSLATE NUMBERS ON SIZE CARD | 1.5M1120 | |
| 10535 | 0074 | 00 | 4 | 06622 | 4882 | TSX | \$NUMBR,4 | LENGTH OF BINARY PROGRAM | 1.5M1130 | |

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|-------|-------|-------|---|--------|------|-------|-----------------|--|--|----------|
| 10536 | 0100 | 00 | 0 | 10561 | 4883 | TZE | OVCEK | | ERROR IF ZERO | 1.5M1140 |
| 10537 | -0600 | 00 | 0 | 02305 | 4884 | STQ | LBINPG | 2336 | SAVE NUMBER | 1.5M1150 |
| 10540 | 0074 | 00 | 4 | 06622 | 4885 | TSX | \$NUMBR,4 | | LENGTH OF PUBLIC PUSH DOWN LIST | 1.5M1160 |
| 10541 | 0100 | 00 | 0 | 10561 | 4886 | TZE | OVCEK | | ZERO IS ERROR | 1.5M1170 |
| 10542 | -0600 | 00 | 0 | 02306 | 4887 | STQ | LPBPD | | SAVE NUMBER | 1.5M1180 |
| 10543 | 0074 | 00 | 4 | 06622 | 4888 | TSX | \$NUMBR,4 | | LENGTH OF FULL WORD SPACE | 1.5M1190 |
| 10544 | 0100 | 00 | 0 | 10561 | 4889 | TZE | OVCEK | | ZERO IS ERROR | 1.5M1200 |
| 10545 | -0600 | 00 | 0 | 02307 | 4890 | STQ | LFULWS | | SAVE NUMBER | 1.5M1210 |
| 10546 | 0074 | 00 | 4 | 06622 | 4891 | TSX | \$NUMBR,4 | | LENGTH OF FREE STORAGE | 1.5M1220 |
| 10547 | 0100 | 00 | 0 | 10561 | 4892 | TZE | OVCEK | | ZERO IS ERROR | 1.5M1230 |
| 10550 | -0600 | 00 | 0 | 02310 | 4893 | STQ | LFREES | | SAVE NUMBER | 1.5M1240 |
| 10551 | 0074 | 00 | 4 | 02077 | 4894 | TSX | \$SETUP,4 | | PERFORM SETUP | 1.5M1250 |
| 10552 | 0441 | 00 | 0 | 10340 | 4895 | LDI | SYSIND | | SYSTEM INDICATORS | 1.5M1260 |
| 10553 | 0054 | 00 | 0 | 000010 | 4896 | RFT | 10 | | TEST FOR ERROR IN SETUP | 1.5M1270 |
| 10554 | 0020 | 00 | 0 | 10561 | 4897 | TRA | OVCEK | | YES, DO ERROR PROCEDURE | 1.5M1280 |
| 10555 | 0055 | 00 | 0 | 000022 | 4898 | SIR | 22 | | SET SIZE AND WRITE INDICATORS | 1.5M1290 |
| 10556 | 0057 | 00 | 0 | 000001 | 4899 | RIR | 1 | | RESET READ INDICATOR | 1.5M1300 |
| 10557 | 0604 | 00 | 0 | 10340 | 4900 | STI | SYSIND | | UPDATE SYSTEM INDICATORS | 1.5M1310 |
| 10560 | 0020 | 00 | 0 | 10230 | 4901 | TRA | OVRLRD | | GET NEXT DIRECTION CARD | 1.5M1320 |
| | | | | 4902 * | | | | | | 1.5M1330 |
| 10561 | 0441 | 00 | 0 | 10340 | 4903 | OVCEK | LDI | SYSIND | GETT SYSTEM INDICATORS | 1.5M1340 |
| 10562 | 0055 | 00 | 0 | 000001 | 4904 | SIR | 1 | | CONVERSION ERROR IN SIZE, SET READ IND | 1.5M1350 |
| 10563 | 0604 | 00 | 0 | 10340 | 4905 | STI | SYSIND | | UPDATE SYSTEM INDICATORS | 1.5M1360 |
| 10564 | 0074 | 00 | 4 | 01222 | 4906 | TSX | OUTPUT,4 | | WRITE ERROR MESSAGE | 1.5M1370 |
| 10565 | -0 | 00000 | 0 | 00364 | 4907 | MZE | BCDOUT | | ON BCD OUTPUT TAPE AND ONLINE | 1.5M1380 |
| 10566 | 0 | 00007 | 0 | 10341 | 4908 | | OVCEM,,7 | | | 1.5M1390 |
| 10567 | 0020 | 00 | 0 | 10230 | 4909 | TRA | OVRLRD | | GET NEXT DIRECTION CARD | 1.5M1400 |
| | | | | 4910 * | | | | | | 1.5M1410 |
| 10570 | 0074 | 00 | 4 | 01222 | 4911 | OVNSZ | TSX | OUTPUT,4 | WRITE ERROR MESSAGE | 1.5M1420 |
| 10571 | -0 | 00000 | 0 | 00364 | 4912 | MZE | BCDOUT | | ON BCD OUTPUT TAPE AND ONLINE | 1.5M1430 |
| 10572 | 0 | 00012 | 0 | 10350 | 4913 | | OVNSM,,10 | | | 1.5M1440 |
| 10573 | 0020 | 00 | 0 | 10230 | 4914 | TRA | OVRLRD | | GET NEXT DIRECTION CARD | 1.5M1450 |
| | | | | 4915 * | | | | | | 1.5M1460 |
| | | | | 4916 * | | DUMP | BEGINNING,END,N | (OVERLORD DIRECTION) | | 1.5M1470 |
| | | | | 4917 * | | | | ALSO AVAILABLE TO LISP | | 1.5M1480 |
| | | | | 4918 * | | | | BEGINNING IS A NUMBER TO START DUMP AT, END A NUMBER | | 1.5M1490 |
| | | | | 4919 * | | | | (MEANING OBVIOUS) AND N IS A NUMBER IF ZERO GIVES A | | 1.5M1500 |
| | | | | 4920 * | | | | STRAIGHT OCTAL DUMP AND IF NON-ZERO GIVES A COMPLEMENT | | 1.5M1510 |
| | | | | 4921 * | | | | (LISP TYPE) DUMP. | | 1.5M1520 |
| | | | | 4922 * | | | | | | 1.5M1530 |
| 10574 | 0634 | 00 | 4 | 10726 | 4923 | OVDMP | SXA | OVDX,4 | SAVE INDEX REGISTERS | 1.5M1540 |
| 10575 | 0634 | 00 | 2 | 10727 | 4924 | | SXA | OVDY,2 | | 1.5M1550 |
| 10576 | 0634 | 00 | 1 | 10730 | 4925 | | SXA | OVDZ,1 | | 1.5M1560 |
| 10577 | 0600 | 00 | 0 | 11040 | 4926 | STZ | OVDEX | | INDICATE OVERLORD ENTRANCE | 1.5M1570 |
| 10600 | 0601 | 00 | 0 | 10723 | 4927 | STO | OVDC | | SAVE AC | |
| 10601 | -0600 | 00 | 0 | 10724 | 4928 | STQ | OVDQ | | SAVE MQ | |
| 10602 | 0604 | 00 | 0 | 10725 | 4929 | STI | OVDI | | SAVE SI | |
| 10603 | 0500 | 00 | 0 | 10402 | 4930 | CLA | OVPOS | | POSITION OF VARIABLE FIELD | 1.5M1580 |
| 10604 | 0074 | 00 | 4 | 06622 | 4931 | TSX | \$NUMBR,4 | | BEGGINNING OF DUMP | 1.5M1590 |
| 10605 | 0100 | 00 | 0 | 10770 | 4932 | TZE | ODER | | ERROR IN CONVERSION | 1.5M1600 |
| 10606 | -0120 | 00 | 0 | 11002 | 4933 | TMI | OVENK | | IF FLOATING POINT NUMBER, LOOK AT KEYS | |
| 10607 | -0600 | 00 | 0 | 11042 | 4934 | STQ | OBEG | | | 1.5M1610 |
| 10610 | 0074 | 00 | 4 | 06622 | 4935 | TSX | \$NUMBR,4 | | NUMBER TO END DUMP AT | 1.5M1620 |
| 10611 | -0600 | 00 | 0 | 11043 | 4936 | STQ | OEND | | | 1.5M1630 |

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|----|-------|--------------|-------|---|--------|--------|--------|-----|--|----------------------------------|----------|
| | | | | | 5045 * | | | | | | |
| | 10760 | 0634 | 00 | 4 | 10726 | 5046 | DUMPYY | SXA | OVDX,4 | | |
| | 10761 | 0634 | 00 | 2 | 10727 | 5047 | | SXA | OV DY,2 | | |
| | 10762 | 0634 | 00 | 1 | 10730 | 5048 | | SXA | OV DZ,1 | | |
| | 10763 | -0625 | 00 | 0 | 11040 | 5049 | | STL | OVDEX | | |
| | 10764 | -0600 | 00 | 0 | 11043 | 5050 | | STQ | OEND | | |
| | 10765 | 0601 | 00 | 0 | 11042 | 5051 | | STO | OBEG | | |
| | 10766 | 0600 | 00 | 0 | 11046 | 5052 | | STZ | OLISD | | |
| | 10767 | 0020 | 00 | 0 | 10616 | 5053 | | TRA | OVGE | | |
| | | | | | | 5054 * | | | | | |
| | 10770 | 0074 | 00 | 4 | 01222 | 5055 | ODER | TSX | OUTPUT,4 | WRITE ERROR MESSAGE | 1.5M2550 |
| | 10771 | -0 | 00000 | 0 | 00364 | 5056 | | MZE | BCDOUT | ON BCD OUTPUT TAPE AND ONLINE | 1.5M2560 |
| | 10772 | 0 | 00006 | 0 | 10774 | 5057 | | | OOBAD,,6 | | 1.5M2570 |
| | 10773 | 0020 | 00 | 0 | 10726 | 5058 | | TRA | OVDX | RESTORE AND EXIT | 1.5M2580 |
| | 10774 | 002221246024 | | | | 5059 | OOBAD | BCI | 6,OBAD DUMP ARGUMENTS -OVERLORD- *O 4* | | 1.5M2590 |
| | 10775 | 644447602151 | | | | | | | | | 1.5M2600 |
| | 10776 | 276444254563 | | | | | | | | | |
| | 10777 | 626040466525 | | | | | | | | | |
| | 11000 | 514346512440 | | | | | | | | | |
| | 11001 | 605446600454 | | | | | | | | | |
| | | | | | | 5060 * | | | | | |
| ID | 11002 | 0420 | 77 | 7 | 77777 | 5061 | OVENK | HPR | -1,7,63 | STOP FOR KEYS | 1.5M2610 |
| | 11003 | 0760 | 00 | 0 | 00004 | 5062 | | ENK | | PUT KEYS IN MQ | |
| | 11004 | -0754 | 00 | 0 | 00000 | 5063 | | PXD | 0,0 | CLEAR AC | |
| | 11005 | -0763 | 00 | 0 | 00001 | 5064 | | LGL | 1 | TYPE OF DUMP IN SIGN BIT | |
| | 11006 | 0601 | 00 | 0 | 11046 | 5065 | | STO | OLISD | PUT AWAY | |
| | 11007 | -0754 | 00 | 0 | 00000 | 5066 | | PXD | 0,0 | CLEAR AC | |
| | 11010 | -0763 | 00 | 0 | 00021 | 5067 | | LGL | 17 | BEGINNING | |
| | 11011 | 0601 | 00 | 0 | 11042 | 5068 | | STO | 06EG | | |
| | 11012 | -0754 | 00 | 0 | 00000 | 5069 | | PXD | 0,0 | CLEAR AC | |
| | 11013 | -0763 | 00 | 0 | 00022 | 5070 | | LGL | 18 | END | |
| | 11014 | 0601 | 00 | 0 | 11043 | 5071 | | STO | OEND | | |
| | 11015 | 0601 | 00 | 0 | 11041 | 5072 | | STO | OVDEK | SET SWITCH ON EXIT | |
| | 11016 | 0600 | 00 | 0 | 11040 | 5073 | | STZ | OVDEX | SET OVERLORD EXIT | |
| | 11017 | 0100 | 00 | 0 | 10726 | 5074 | | TZE | OVDX | EXIT ON ZERO REQUEST | |
| | 11020 | 0020 | 00 | 0 | 10616 | 5075 | | TRA | OVGE | PROCESS DUMP | |
| | | | | | | 5076 * | | | | | |
| | 11021 | -0754 | 00 | 0 | 00000 | 5077 | OCTLP | PXD | 0,0 | CONVERT LEFT HALF OF MQ TO OCTAL | 1.5M2620 |
| | 11022 | -0763 | 00 | 0 | 00003 | 5078 | | LGL | 3 | CLEAR AC AND DO SHIFT DANCE | 1.5M2630 |
| | 11023 | 0767 | 00 | 0 | 00003 | 5079 | | ALS | 3 | | 1.5M2640 |
| | 11024 | -0763 | 00 | 0 | 00003 | 5080 | | LGL | 3 | | 1.5M2650 |
| | 11025 | 0767 | 00 | 0 | 00003 | 5081 | | ALS | 3 | | 1.5M2660 |
| | 11026 | -0763 | 00 | 0 | 00003 | 5082 | | LGL | 3 | | 1.5M2670 |
| | 11027 | 0767 | 00 | 0 | 00003 | 5083 | | ALS | 3 | | 1.5M2680 |
| | 11030 | -0763 | 00 | 0 | 00003 | 5084 | | LGL | 3 | | 1.5M2690 |
| | 11031 | 0767 | 00 | 0 | 00003 | 5085 | | ALS | 3 | | 1.5M2700 |
| | 11032 | -0763 | 00 | 0 | 00003 | 5086 | | LGL | 3 | | 1.5M2710 |
| | 11033 | 0767 | 00 | 0 | 00003 | 5087 | | ALS | 3 | | 1.5M2720 |
| | 11034 | -0763 | 00 | 0 | 00003 | 5088 | | LGL | 3 | | 1.5M2730 |
| | 11035 | 0020 | 00 | 4 | 00001 | 5089 | | TRA | 1,4 | EXIT | 1.5M2740 |
| | | | | | | 5090 * | | | | | 1.5M2750 |
| | | | | | 11021 | 5091 | OCTALP | SYN | OCTLP | | |
| | | | | | 00651 | 5092 | OVLT | SYN | OVLTXX | | |
| | 11036 | 605454545460 | | | | 5093 | OVDSF | BCI | 1, **** | STAR FLAG AFTER DUMPING ZEROS | |

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|-------|------------------|------|-------|--|--|----------|
| 11037 | 0 00000 0 00000 | 5094 | OVDZS | | SUPRESSES OUTPUT WHEN DUMPING ZEROS | |
| 11040 | 0 00000 0 00000 | 5095 | OVDEX | | ZERO FOR OVERLORD EXIT NON-ZERO , LISPL.5M2760 | |
| 11041 | 0 00000 0 00000 | 5096 | OVDEK | | TEST CELL NON-ZERO FOR ENK MODE | |
| 11042 | 0 00000 0 00000 | 5097 | OBEG | | BEGIN DUMP | 1.5M2770 |
| 11043 | 0 00000 0 00000 | 5098 | OEND | | END DUMP | 1.5M2780 |
| 11044 | 540000000000 | 5099 | ODSAR | BCI 1,*00000 | A * FOR COMPLEMENT DUMPING | 1.5M2790 |
| 11045 | 0 00000 0 00000 | 5100 | ODLT | | TEMPORARY STORAGE | 1.5M2800 |
| 11046 | 0 00000 0 00000 | 5101 | OLISD | | NON-ZERO FOR LISP TYPE DUMP | 1.5M2810 |
| 11047 | -3 00000 7 00000 | 5102 | OLDM | SVN ,4+2+1 | MASK FOR TAG AND PREFIX | 1.5M2820 |
| 11050 | 606060606060 | 5103 | OUP | BCI 2, | BLANKS FOR BEGINNING OF OUT PUT LINE | 1.5M2830 |
| 11051 | 606060606060 | | | | | |
| 11052 | | 5104 | BSS | 18 | ROOM FOR REST OF LINE | 1.5M2840 |
| | | 5105 | * | | | 1.5M2850 |
| | | 5106 | * | | | 1.5M2860 |
| | | 5107 | * | TAPE SYSXXX,A6 | (OVERLORD DIRECTION CARD) | 1.5M2870 |
| | | 5108 | * | SYSTAP, SYSTMP, SYSPIT AND SYSPOT ARE CURRENTLY | | 1.5M2880 |
| | | 5109 | * | RECOGNIZED LISP TAPES. UNIT DESIGNATION IS BY CHANNEL | | 1.5M2890 |
| | | 5110 | * | (A, B, OR C) AND NUMBER (1 THRU 10). | | 1.5M2900 |
| | | 5111 | * | | | 1.5M2910 |
| 11074 | 0634 00 4 11225 | 5112 | OVTAP | SXA OVTPX,4 | SAVE INDEX REGISTERS | 1.5M2920 |
| 11075 | 0634 00 2 11226 | 5113 | | SXA OVTPY,2 | | 1.5M2930 |
| 11076 | 0634 00 1 11227 | 5114 | | SXA OVTPZ,1 | | 1.5M2940 |
| 11077 | 0054 00 000100 | 5115 | RFT | TAPIND | SKIP IF LAST CARD WAS NOT A TAPE CARD | 1.5P0105 |
| 11100 | 0020 00 0 11107 | 5116 | TRA | OVTJJ | SKIP READ AND WRITE SECTION | 1.5P0106 |
| 11101 | 0054 00 000002 | 5117 | RFT | 2 | TEST FOR TAPE DUMP ON SYSTMP | 1.5M2950 |
| 11102 | 0074 00 4 00633 | 5118 | TSX | TAPDMP,4 | DO IT | 1.5M2960 |
| 11103 | 0054 00 000001 | 5119 | RFT | 1 | TEST FOR READ | 1.5M2970 |
| 11104 | 0074 00 4 00651 | 5120 | TSX | OVLTL,4 | GET NEW IMAGE | 1.5M2973 |
| 11105 | 0057 00 000001 | 5121 | RIR | 1 | RESET READ INDICATOR | 1.5M2975 |
| 11106 | 0055 00 000002 | 5122 | SIR | 2 | SET WRITE INDICATOR | 1.5M2977 |
| 11107 | 0055 00 000100 | 5123 | OVTJJ | SIR TAPIND | SET TAPE DIRECTION INDICATOR | 1.5P0107 |
| 11110 | 0604 00 0 10340 | 5124 | STI | SYSIND | UPDATE SYSTEM INDICATORS | 1.5M2980 |
| 11111 | 0774 00 4 00005 | 5125 | AXT | 5,4 | NUMBER OF ENTRIES IN TAPE TABLE | 1.5M2990 |
| 11112 | -0500 00 0 10406 | 5126 | CAL | OVBUF+2 | | 1.5M3000 |
| 11113 | 0560 00 0 10407 | 5127 | LDQ | OVBUF+3 | GET TAPE DESIGNATION IN AC AND MQ | 1.5M3010 |
| 11114 | -0763 00 0 00023 | 5128 | LGL | 19 | SHIFT INTO AC | 1.5M3020 |
| 11115 | -0765 00 0 00001 | 5129 | LGR | 1 | DUMPING 0 BIT | 1.5M3030 |
| 11116 | -0340 00 4 11243 | 5130 | OVLA | LAS OVTTB,4 | COMPARE WITH TAPE TABLE | 1.5M3040 |
| 11117 | 0020 00 0 11121 | 5131 | TRA | **2 | NOT THIS ONE | 1.5M3050 |
| 11120 | 0020 00 0 11143 | 5132 | TRA | OVTAA | THIS IS IT | 1.5M3060 |
| 11121 | 2 00001 4 11116 | 5133 | TIX | OVLA,4,1 | TRY AGAIN | 1.5M3070 |
| 11122 | 0602 00 0 11131 | 5134 | OVCMP | SLW OVTRM | NOT FOUND, COMPLAIN | 1.5M3080 |
| 11123 | 0074 00 4 01222 | 5135 | TSX | OUTPUT,4 | | 1.5M3090 |
| 11124 | 0 00000 0 00364 | 5136 | | BCDOUT | | 1.5M3100 |
| 11125 | 0 00014 0 11127 | 5137 | | OVTRN,,12 | | 1.5M3110 |
| 11126 | 0020 00 0 10230 | 5138 | TRA | OVRLRD | GET NEXT DIRECTION CARD | 1.5M3120 |
| 11127 | 006062465151 | 5139 | OVTRN | BCI 2,0 SORRY, | | 1.5M3130 |
| 11130 | 707360606060 | | | | | |
| 11131 | 0 00000 0 00000 | 5140 | OVTRM | | | 1.5M3140 |
| 11132 | 603162604546 | 5141 | BCI | 9, IS NOT A VALID LISP TAPE DESIGNATION -OVERLORD- *0 2* | | 1.5M3150 |
| 11133 | 636021606521 | | | | | |
| 11134 | 433124604331 | | | | | |
| 11135 | 624760632147 | | | | | |
| 11136 | 256024256231 | | | | | |

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|-------|------------------|--------|--|--------|---|----------------------------------|----------|
| 11225 | 0774 00 4 00000 | 5192 | OVTPX | AXT | ** , 4 | RESTORE INDEX REGISTERS | 1.5M3680 |
| 11226 | 0774 00 2 00000 | 5193 | OVTPY | AXT | ** , 2 | | 1.5M3690 |
| 11227 | 0774 00 1 00000 | 5194 | OVTPZ | AXT | ** , 1 | | 1.5M3700 |
| 11230 | 0020 00 0 10230 | 5195 | TRA | OVRLRD | | GET NEXT DIRECTION CARD | 1.5M3710 |
| 11231 | 006060000000 | 5196 | OVTPP | BCI | 3,0 000IS NOW LISP | | |
| 11232 | 316260454666 | | | | | | |
| 11233 | 604331624760 | | | | | | |
| 11234 | 000000000000 | 5197 | OVTPD | RCI | 2,000000. | | 1.5M3740 |
| 11235 | 336060606060 | | | | | | |
| | | 5198 * | TABLES FOR OVTAP | | | | 1.5M3750 |
| 11236 | 627062474763 | 5199 | BCI | 5, | SYSPTS | SYSPTS | 1.5M3760 |
| 11237 | 627062474663 | | | | | | |
| 11240 | 627062473163 | | | | | | |
| 11241 | 627062634447 | | | | | | |
| 11242 | 627062632147 | | | | | | |
| 11243 | 0 00000 0 00000 | 5200 | OVTTB | PZE | | LOW DENS, BCD PPT | 1.5M3770 |
| 11244 | 0 00000 0 00000 | 5201 | | PZE | | LOW DENS, BCD PIT | 1.5M3780 |
| 11245 | 0 00000 0 00000 | 5202 | | PZE | | LOW DENS, BCD POT | 1.5M3790 |
| 11246 | 0 00000 0 00020 | 5203 | | PZE | 16 | HI DENS, BIN TMP | 1.5M3800 |
| 11247 | 0 00000 0 00020 | 5204 | | PZE | 16 | HI DENS, BIN TMP | 1.5M3810 |
| 11250 | 0 00003 0 03200 | 5205 | OVTTCT | PZE | 3*512+2*64,,3 | CHANNEL C | 1.5M3820 |
| 11251 | 0 00002 0 02200 | 5206 | | PZE | 2*512+2*64,,2 | B | 1.5M3830 |
| 11252 | 0 00001 0 01200 | 5207 | | PZE | 1*512+2*64,,1 | A | 1.5M3840 |
| 11253 | 000000230000 | 5208 | OVCHN | BCI | 3,000C00000B00000A00 | | 1.5M3850 |
| 11254 | 000000220000 | | | | | | |
| 11255 | 000000210000 | | | | | | |
| 11256 | 000000000100 | 5209 | OVCLT | BCI | 9,00001000009 00008 00007 00006 00005 00004 00003 00002 | | 1.5M3860 |
| 11257 | 0000000001160 | | | | | | |
| 11260 | 0000000001060 | | | | | | |
| 11261 | 0000000000760 | | | | | | |
| 11262 | 0000000000660 | | | | | | |
| 11263 | 0000000000560 | | | | | | |
| 11264 | 0000000000460 | | | | | | |
| 11265 | 0000000000360 | | | | | | |
| 11266 | 0000000000260 | | | | | | |
| 11267 | 0000000000160 | 5210 | | BCI | 1,00001 | | 1.5M3870 |
| 11270 | | 5211 | OVCTN | BSS | 0 | | 1.5M3880 |
| | | 5212 * | | | | | 1.5M3950 |
| | | 5213 * | | | | | 1.5M3960 |
| | | 5214 * | SYSTEM CALL CARD PERFORMS A LOAD TAPE SEQUENCE ON THE SYSTAP | | | | 1.5M3970 |
| | | 5215 * | | | | | 1.5M3980 |
| 11270 | 0 00006 0 00011 | 5216 | GCRD | IOCD | 9,,6 | | |
| 11271 | 0060 00 0 00001 | 5217 | | TCOA | 1 | | |
| 11272 | 0021 00 0 00011 | 5218 | | TTR | 9 | | |
| 11273 | 0762 00 0 01221 | 5219 | GCRDB | RTBA | 1 | SELECT THE SYSTEM TAPE | 1.5M4020 |
| 11274 | 0540 00 0 00016 | 5220 | GCRDC | RCHA | 14 | | |
| 11275 | 0600 00 0 00001 | 5221 | | STZ | 1 | STOP IF TAPE DOES NOT LOAD | 1.5M4040 |
| 11276 | 0544 00 0 00000 | 5222 | GCRDD | LCHA | 0 | LOAD I-O COMMAND FROM TAPE | 1.5M4050 |
| 11277 | 0021 00 0 00001 | 5223 | | TTR | 1 | TRANSFER TO ONE | 1.5M4060 |
| 11300 | -1 00003 0 00000 | 5224 | | IOCT | 0,,3 | LOAD FIRST 3 WORDS FROM TAPE | 1.5M4065 |
| | | 5225 * | | | | SECOND CARD OF CALLER | 1.5M4070 |
| 11301 | 0 00000 0 00174 | 5226 | GCRDE | HTR | CONTIN | BECOMES A TRANSFER CARD | 1.5M4080 |
| | | 5227 * | | | | I-O COMMANDS TO PUNCH CALL CARDS | 1.5M4090 |
| 11302 | 2 00011 0 11270 | 5228 | GCIOC | IORP | GCRD,,9 | | 1.5M4100 |

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|-------|-------|-------|--------|-------|------|--------|--------------|---|----------|
| 11303 | 2 | 00001 | 0 | 11301 | 5229 | IORP | GCRDE,,1 | TRANSFER CARD | 1.5M4110 |
| 11304 | 2 | 00000 | 0 | 11306 | 5230 | IORP | **2,,0 | 2 BLANK CARDS | 1.5M4120 |
| 11305 | 2 | 00000 | 0 | 11306 | 5231 | IORP | **1,,0 | | 1.5M4130 |
| 11306 | 0 | 00000 | 0 | 00000 | 5232 | IOCD | 0,,0 | DISCONNECT CHANNEL | |
| | | | | | 5233 | * | | | 1.5M4150 |
| | | | 000100 | | 5234 | TAPIND | BOOL 100 | | 1.5P0100 |
| | | | | | 5235 | * | | | |
| | | | | | 5236 | * | EXCISE | DIRECTION CARD TO THROW OUT THE COMPILER AND/OR THE INTER | |
| | | | | | 5237 | * | | PRETER GOES HERE | |
| | | | | | 5238 | * | | | |
| 11307 | 0020 | 00 | 0 | 10230 | 5239 | OVEXS | TRA OVRLRD | ROUTINE NOT WRITTEN YET. 8 APRIL 1961 | |
| | | | | | 5240 | * | | | 7770 |
| | | | | | 5241 | * | EVALQ | A SUCCESSOR TO THE APPLY OPERATOR, THE GRAND NEW | |
| | | | | | 5242 | * | | (AS OF 1 MARCH 1961) THE EVALQUOTE OPERATOR. | 7790 |
| | | | | | 5243 | * | | | 7800 |
| 11310 | 0634 | 00 | 4 | 11416 | 5244 | EVALQ | SXA EVLQX,4 | SAVE LINK IR | 7810 |
| 11311 | 0634 | 00 | 2 | 11417 | 5245 | SXA | EVLQY,2 | SAVE IR 2 | 7820 |
| 11312 | 0074 | 00 | 4 | 01521 | 5246 | TSX | \$TIME,4 | PRINT TIME AND DATE | 7880 |
| 11313 | 0074 | 00 | 4 | 01222 | 5247 | TSX | OUTPUT,4 | WRITE OPENING MESSAGE | 7830 |
| 11314 | 0 | 00000 | 0 | 00364 | 5248 | | BCDOUT | | 7840 |
| 11315 | 0 | 00014 | 0 | 11520 | 5249 | | EVQBM,,12 | | 7910 |
| 11316 | 0600 | 00 | 0 | 11516 | 5250 | STZ | EVQRTS | INITIALIZE TEST CELLS | 7860 |
| 11317 | 0600 | 00 | 0 | 03653 | 5251 | STZ | EVQB | DITTO | 7870 |
| 11320 | 0774 | 00 | 2 | 00144 | 5252 | AXT | EVQBL,2 | LENGTH OF EVAL QUOTE BUFFER | 7890 |
| 11321 | 0634 | 00 | 2 | 11437 | 5253 | EVQRD | SXA EVQRX,2 | SAVE INDEX 2 IN CASE OF READ ERROR | |
| 11322 | 0074 | 00 | 4 | 05732 | 5254 | TSX | \$READ,4 | READ THE INPUT LISTS | |
| 11323 | 0601 | 00 | 0 | 03506 | 5255 | STO | EVQAN | SAVE THE LIST | 7920 |
| 11324 | 0340 | 00 | 0 | 11517 | 5256 | CAS | EVQSP | COMPARE WITH STOP ATOM | |
| 11325 | 0020 | 00 | 0 | 11327 | 5257 | TRA | **2 | IS NOT | 7940 |
| 11326 | 1 | 00001 | 2 | 11341 | 5258 | TXI | EVQOP,2,1 | SET IR 2 TO PROER VALUE | |
| 11327 | 0520 | 00 | 0 | 03653 | 5259 | ZET | EVQB | SKIP IF FIRST LIST OF DOUBLET | 7960 |
| 11330 | 0020 | 00 | 0 | 11334 | 5260 | TRA | EVQA | IS SECOND LIST | 7970 |
| 11331 | -0625 | 00 | 0 | 03653 | 5261 | STL | EVQB | FLIP SWITCH | 7980 |
| 11332 | 0601 | 00 | 2 | 03653 | 5262 | STO | EVQB,2 | SAVE FIRST LIST OF DOUBLET IN BUFFER | 7990 |
| 11333 | 0020 | 00 | 0 | 11321 | 5263 | TRA | EVQRD | GET NEXT LIST | 8000 |
| 11334 | -0734 | 00 | 4 | 00000 | 5264 | EVQA | PDX 0,4 | LIST TO INDEX | 8010 |
| 11335 | 0754 | 00 | 4 | 00000 | 5265 | PXA | 0,4 | MOVE TO ADDRESS | 8020 |
| 11336 | 0621 | 00 | 2 | 03653 | 5266 | STA | EVQB,2 | SAVE SECOND LIST OF DOUBLET IN BUFFER | 8030 |
| 11337 | 0600 | 00 | 0 | 03653 | 5267 | STZ | EVQB | FLIP SWITCH | 8040 |
| 11340 | 2 | 00001 | 2 | 11321 | 5268 | TIX | EVQRD,2,1 | GET NEXT LIST | 8050 |
| 11341 | -0634 | 00 | 2 | 11410 | 5269 | EVQOP | SXD EVQTH,2 | INDEX VALUE OF LAST LIST READ IN | 8060 |
| 11342 | 0074 | 00 | 4 | 01521 | 5270 | TSX | \$TIME,4 | PRINT TIME | |
| 11343 | -0625 | 00 | 0 | 11516 | 5271 | STL | EVQRTS | SET ERROR RETURN SWITCH | 8070 |
| 11344 | 0774 | 00 | 2 | 00144 | 5272 | AXT | EVQBL,2 | LENGTH OF BUFFER | 8080 |
| 11345 | 0634 | 00 | 2 | 11407 | 5273 | EVQLP | SXA EVQER,2 | SAVE INDEX VALUE | 8090 |
| 11346 | 0074 | 00 | 4 | 01200 | 5274 | EVQS | TSX SPACEX,4 | WRITE OUT SOME BLANK LINES | |
| 11347 | 0 | 00000 | 0 | 01216 | 5275 | | 6SPACE | 3 DOUBLE SPACES | |
| 11350 | 0500 | 00 | 2 | 03653 | 5276 | CLA | EVQB,2 | PICK UP FIRST ITEM IN BUFFER | 8160 |
| 11351 | 0600 | 00 | 2 | 03653 | 5277 | STZ | EVQB,2 | ZERO THE BUFFER ENTRY | |
| 11352 | 0600 | 00 | 0 | 03316 | 5278 | STZ | \$ALIST | RESET ALIST | |
| 11353 | -0734 | 00 | 4 | 00000 | 5279 | PDX | 0,4 | MAKE AN ATOM TEST | 8170 |
| 11354 | 0560 | 00 | 0 | 00370 | 5280 | LDQ | \$ZERO | | |
| 11355 | -0765 | 00 | 0 | 00022 | 5281 | LGR | 18 | SECOND LIST INTO MQ | |
| 11356 | -0754 | 00 | 4 | 00000 | 5282 | PXD | 0,4 | FIRST LIST INTO AC | |

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|-------|--------------|-------|---|-------|------|--------|----------------------------|---|------|
| 11357 | 0074 | 00 | 4 | 07745 | 5283 | TSX | PRINAR,4 | PRINT HEADING | |
| 11360 | 0 | 00000 | 0 | 00002 | 5284 | | 2 | | |
| 11361 | 602565214350 | | | | 5285 | BCI | 2, EVALQUOTE | | |
| 11362 | 644663256060 | | | | | | | | |
| 11363 | -0774 | 00 | 4 | 11377 | 5286 | AXC | EVQFT,4 | SET RETURN INDEX CELL | |
| 11364 | 0634 | 00 | 4 | 11376 | 5287 | SXA | EVQD,4 | | |
| 11365 | 0774 | 00 | 4 | 14663 | 5288 | EVQMP | AXT \$APPLY,4 | SET CELL OF PROGRAM TO BE EXECUTED | |
| 11366 | 0634 | 00 | 4 | 11377 | 5289 | SXA | EVQFT,4 | INITIALIZE PROGRAM TO BE EXECUTED CELL | |
| 11367 | 0601 | 00 | 0 | 11513 | 5290 | STO | EVQAC | SAVE AC | |
| 11370 | -0734 | 00 | 4 | 00000 | 5291 | PDX | 0,4 | FIRST LIST TO IR 4 | |
| 11371 | 0500 | 00 | 4 | 00000 | 5292 | CLA | 0,4 | | 8180 |
| 11372 | 0734 | 00 | 4 | 00000 | 5293 | PAX | 0,4 | | 8190 |
| 11373 | 3 | 77776 | 4 | 11441 | 5294 | TXH | EVQAT,4,-2 | TRANSFER IF FIRST LIST IS ATOMIC | 8200 |
| 11374 | 0500 | 00 | 0 | 11513 | 5295 | EVQNF | CLA EVQAC | RESTORE AC | |
| 11375 | 0600 | 00 | 0 | 03321 | 5296 | EVQZ | STZ \$ARG3 | NULL ALIST FOR APPLY | |
| 11376 | 0774 | 00 | 4 | 00000 | 5297 | EVQD | AXT **,4 | RETURN INDEX REGISTER | |
| 11377 | 0020 | 00 | 0 | 00000 | 5298 | EVQFT | TRA ** | PROGRAM TO BE EXECUTED | |
| 11400 | 0601 | 00 | 0 | 03506 | 5299 | EVQE | STO EVQAN | SAVE ANSWER | 8320 |
| 11401 | 0074 | 00 | 4 | 01222 | 5300 | TSX | OUTPUT,4 | PRINT END OF EVALQUOTE MESSAGE | 8330 |
| 11402 | 0 | 00000 | 0 | 00364 | 5301 | | BCDOUT | | 8340 |
| 11403 | 0 | 00005 | 0 | 11534 | 5302 | | EVQAM,,5 | | 8350 |
| 11404 | 0500 | 00 | 0 | 03506 | 5303 | CLA | EVQAN | PICK UP ANSWER | 8360 |
| 11405 | 0074 | 00 | 4 | 04604 | 5304 | TSX | \$PRINT,4 | PRINT IT | 8370 |
| 11406 | 0600 | 00 | 0 | 03506 | 5305 | STZ | EVQAN | ZERD TEMP STORAGE | 8380 |
| 11407 | 0774 | 00 | 2 | 00000 | 5306 | EVQER | AXT **,2 | ERRORS COME BACK HERE, RESTORE IR 2 | 8390 |
| 11410 | -3 | 00000 | 2 | 11412 | 5307 | EVQTH | TXL EVQDN,2,** | EXIT IF LAST DOUBLET EXECUTED | 8400 |
| 11411 | 2 | 00001 | 2 | 11345 | 5308 | TIX | EVQLP,2,1 | EXECUTE NEXT DOUBLET | |
| 11412 | 0074 | 00 | 4 | 01521 | 5309 | EVQDN | TSX \$TIME,4 | ALL DONE, PRINT THE TIME | 8420 |
| 11413 | 0074 | 00 | 4 | 01222 | 5310 | TSX | OUTPUT,4 | PRINT COLSING MESSAGE | 8430 |
| 11414 | 0 | 00000 | 0 | 00364 | 5311 | | BCDOUT | | 8440 |
| 11415 | 0 | 00005 | 0 | 11541 | 5312 | | EVQME,,5 | | 8450 |
| 11416 | 0774 | 00 | 4 | 00000 | 5313 | EVLQX | AXT **,4 | RESTORE LINK IR | 8460 |
| 11417 | 0774 | 00 | 2 | 00000 | 5314 | EVLQY | AXT **,2 | | 8470 |
| 11420 | 0020 | 00 | 4 | 00001 | 5315 | TRA | 1,4 | EXIT | 8480 |
| | | | | | 5316 | * | | | |
| | | | | | 5317 | * | EVALQT | LISP ENTRANCE TO EVALQUOTE | |
| | | | | | 5318 | * | | | |
| 11421 | 0634 | 00 | 4 | 11376 | 5319 | EVALQT | SXA EVQD,4 | SET RETURN INDEX CELL | |
| 11422 | 0020 | 00 | 0 | 11365 | 5320 | TRA | EVQMP | GO TO MAIN PROGRAM | |
| | | | | | 5321 | * | | | 8490 |
| | | | | | 5322 | * | ERROR RETURNS CONTROL HERE | | 8500 |
| | | | | | 5323 | * | | | 8510 |
| 11423 | 0074 | 00 | 4 | 06311 | 5324 | EVQERR | TSX TEREAD,4 | CLEAN UP READ BUFFER | |
| 11424 | 0074 | 00 | 4 | 05214 | 5325 | TSX | TERPRI,4 | CLEAN UP PRINT BUFFER | 8530 |
| 11425 | 0074 | 00 | 4 | 05421 | 5326 | TSX | TERPUN,4 | CLEAN UP PUNCH BUFFER | |
| 11426 | 0074 | 00 | 4 | 02410 | 5327 | TSX | TERPDL,4 | RESET PUSH DOWN LIST | 8540 |
| 11427 | 0520 | 00 | 0 | 11516 | 5328 | ZET | EVQRTS | SKIP IF IN READ IN SECTION OF EVALQUOTE | 8550 |
| 11430 | 0020 | 00 | 0 | 11407 | 5329 | TRA | EVQER | EXECUTE NEXT DOUBLET | 8560 |
| 11431 | -0625 | 00 | 0 | 11516 | 5330 | STL | EVQRTS | MOVE TO OPERATE SECTION OF EVALQUOTE | 8570 |
| 11432 | 0074 | 00 | 4 | 01222 | 5331 | TSX | OUTPUT,4 | MESSAGE THAT READ WAS ERROR TERMINATED | 8580 |
| 11433 | 0 | 00000 | 0 | 00364 | 5332 | | BCDOUT | | 8590 |
| 11434 | 0 | 00012 | 0 | 11546 | 5333 | | EVQRE,,10 | | 8600 |
| 11435 | 0500 | 00 | 0 | 03506 | 5334 | CLA | EVQAN | PICK UP LAST LIST READ IN | 8610 |
| 11436 | 0074 | 00 | 4 | 04604 | 5335 | TSX | \$PRINT,4 | | 8620 |

1310 11310
 11238 42
 052 1241

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|------|--------|-----|---------------------|--|------|
| 11437 | 0774 | 00 | 2 | 00000 | 5336 | EVQRX | AXT | ** , 2 | RESTORE IR 2 TO RIGHT VALUE | |
| 11440 | 1 | 00001 | 2 | 11341 | 5337 | | TXI | EVQOP, 2, 1 | SET IR 2 TO PROER VALUE | |
| | | | | | 5338 | * | | | | 8640 |
| | | | | | 5339 | * | | | CASE FOR ATOMIC FIRST LIST OF DOUBLET | 8650 |
| | | | | | 5340 | * | | | | 8660 |
| 11441 | -0734 | 00 | 4 | 00000 | 5341 | EVQAT | PDX | 0, 4 | | 8670 |
| 11442 | -3 | 00000 | 4 | 11374 | 5342 | | TXL | EVQNF, 4, 0 | EXIT IF END OF ATOM | 8680 |
| 11443 | 0500 | 00 | 4 | 00000 | 5343 | | CLA | 0, 4 | NEXT WORD | 8690 |
| 11444 | 0734 | 00 | 4 | 00000 | 5344 | | PAX | 0, 4 | CAR OF ATOM | 8700 |
| 11445 | -0625 | 00 | 0 | 11515 | 5345 | | STL | EVQST | SET SWITCH FOR SUBR OR EXPR | |
| 11446 | -3 | 06732 | 4 | 11450 | 5346 | | TXL | **2, 4, \$SUBR-1 | LOOK FOR \$SUBR | |
| 11447 | -3 | 06733 | 4 | 11501 | 5347 | | TXL | EVQFS, 4, \$SUBR | TREAT AS FSUBR (ALMOST) | |
| 11450 | -3 | 10156 | 4 | 11452 | 5348 | | TXL | **2, 4, \$EXPR-1 | LOOK FOR \$EXPR | |
| 11451 | -3 | 10157 | 4 | 11457 | 5349 | | TXL | EVQFX, 4, \$EXPR | TREAT AS FEXPR (ALMOST) | |
| 11452 | 0600 | 00 | 0 | 11515 | 5350 | | STZ | EVQST | SET SWITCH FOR FSUBR OR FEXPR | |
| 11453 | -3 | 10102 | 4 | 11455 | 5351 | | TXL | **2, 4, \$FSUBR-1 | LOOK FOR FSUBR | 8710 |
| 11454 | -3 | 10103 | 4 | 11501 | 5352 | | TXL | EVQFS, 4, \$FSUBR | | 8720 |
| 11455 | -3 | 10141 | 4 | 11441 | 5353 | | TXL | EVQAT, 4, \$FEXPR-1 | LOOK FOR FEXPR | 8730 |
| 11456 | 3 | 10142 | 4 | 11441 | 5354 | | TXH | EVQAT, 4, \$FEXPR | | 8740 |
| 11457 | -0734 | 00 | 4 | 00000 | 5355 | EVQFX | PDX | 0, 4 | FOUND AN FEXPR | 8750 |
| 11460 | 0500 | 00 | 4 | 00000 | 5356 | | CLA | 0, 4 | | 8760 |
| 11461 | 0734 | 00 | 4 | 00000 | 5357 | | PAX | 0, 4 | THE EXPRESSION FOR THE FEXPR | 8770 |
| 11462 | -0754 | 00 | 4 | 00000 | 5358 | | PXD | 0, 4 | EXPRESSION TO AC | |
| 11463 | 0520 | 00 | 0 | 11515 | 5359 | | ZET | EVQST | SKIP IF FEXPR | |
| 11464 | 0020 | 00 | 0 | 11375 | 5360 | | TRA | EVQZ | GO TO APPLY CALL FOR EXPR | |
| 11465 | 0601 | 00 | 0 | 03506 | 5361 | | STO | EVQAN | SAVE THE EXPRESSION | |
| 11466 | -0600 | 00 | 0 | 11514 | 5362 | | STQ | EVQMQ | SAVE MQ | |
| 11467 | -0754 | 00 | 0 | 00000 | 5363 | | PXD | 0, 0 | CLEAR | 8820 |
| 11470 | 0131 | 00 | 0 | 00000 | 5364 | | XCA | | MQ AND | 8830 |
| 11471 | -0754 | 00 | 0 | 00000 | 5365 | | PXD | 0, 0 | AC | 8840 |
| 11472 | 0074 | 00 | 4 | 03730 | 5366 | | TSX | \$CONS, 4 | NULL A LIST | 8850 |
| 11473 | 0131 | 00 | 0 | 00000 | 5367 | | XCA | | INTO MQ | 8860 |
| 11474 | 0500 | 00 | 0 | 11514 | 5368 | | CLA | EVQMQ | PUT SECOND LIST IN AC | |
| 11475 | 0074 | 00 | 4 | 03730 | 5369 | | TSX | \$CONS, 4 | CONS(L, A) | 8890 |
| 11476 | 0131 | 00 | 0 | 00000 | 5370 | | XCA | | ANSWER TO ARG 2 | 8900 |
| 11477 | 0500 | 00 | 0 | 03506 | 5371 | | CLA | EVQAN | FEXPR | |
| 11500 | 0020 | 00 | 0 | 11375 | 5372 | | TRA | EVQZ | GO TO APPLY FOR FEXPR | |
| | | | | | 5373 | * | | | | 8940 |
| 11501 | -0734 | 00 | 4 | 00000 | 5374 | EVQFS | PDX | 0, 4 | FOUND FSUBR, GET TXL INSTRUCTION | 8950 |
| 11502 | 0500 | 00 | 4 | 00000 | 5375 | | CLA | 0, 4 | | 8960 |
| 11503 | 0734 | 00 | 4 | 00000 | 5376 | | PAX | 0, 4 | | 8970 |
| 11504 | 0500 | 00 | 4 | 00000 | 5377 | | CLA | 0, 4 | | 8980 |
| 11505 | 0621 | 00 | 0 | 11377 | 5378 | | STA | EVQFT | SAVE ADDRESS | 8990 |
| 11506 | -0754 | 00 | 0 | 00000 | 5379 | | PXD | 0, 0 | ZERO | 9080 |
| 11507 | 0131 | 00 | 0 | 00000 | 5380 | | XCA | | THE MQ AND PUT LIST IN AC | 9090 |
| 11510 | 0520 | 00 | 0 | 11515 | 5381 | | ZEF | EVQST | SKIP IF FSUBR | |
| 11511 | 0074 | 00 | 4 | 10072 | 5382 | | TSX | SPREAD, 4 | SPREAD THE ARGUMENTS | |
| 11512 | 0020 | 00 | 0 | 11376 | 5383 | | TRA | EVQD | EXECUTE THE SUBR OR FSUBR | |
| | | | | | 5384 | * | | | | 9120 |
| 11513 | 0 | 00000 | 0 | 00000 | 5385 | EVQAC | | | TEMPORARY STORAGE | |
| 11514 | 0 | 00000 | 0 | 00000 | 5386 | EVQMQ | | | DITTO | |
| 11515 | 0 | 00000 | 0 | 00000 | 5387 | EVQST | | | TEST CELL IS NON-ZERO FOR SUBR OR EXPR | |
| 11516 | 0 | 00000 | 0 | 00000 | 5388 | EVQRTS | | | TEST CELL IS ZERO DURING READ IN | |
| | | | 00144 | | 5389 | EVQBL | EQU | 100 | LENGHT OF BUFFER | 9140 |

| | | | | | | |
|-------|------------------|------|-----------|---|----------------|----------------------------|
| 11517 | 0 06772 0 0000 | 5390 | EVQSP | ,,\$STOP | STOP ATOM | |
| 11520 | 002565214350 | 5391 | EVQBM BCI | 7,0EVALQUOTE OPERATOR AS OF 1 MARCH 1961. | | 9160 |
| 11521 | 644663256046 | | | | | |
| 11522 | 472551216346 | | | | | |
| 11523 | 516021626046 | | | | | |
| 11524 | 266001604421 | | | | | |
| 11525 | 512330600111 | | | | | |
| 11526 | 060133606060 | | | | | |
| 11527 | 603145476463 | 5392 | BCI | 5, INPUT LISTS NOW BEING READ. | | 9170 |
| 11530 | 604331626362 | | | | | |
| 11531 | 604546666022 | | | | | |
| 11532 | 253145276051 | | | | | |
| 11533 | 252124336060 | | | | | |
| 11534 | 002545246046 | 5393 | EVQAM BCI | 5,0END OF EVALQUOTE, VALUE IS | | 9180 |
| 11535 | 266025652143 | | | | | |
| 11536 | 506446632573 | | | | | |
| 11537 | 606521436425 | | | | | |
| 11540 | 603162603333 | | | | | |
| 11541 | 012545246046 | 5394 | EVQME BCI | 5,1END OF EVALQUOTE OPERATOR | | 9190 |
| 11542 | 266025652143 | | | | | |
| 11543 | 506446632560 | | | | | |
| 11544 | 464725512163 | | | | | |
| 11545 | 465160606060 | | | | | |
| 11546 | 005125212431 | 5395 | EVQRE BCI | 9,0READING TERMINATED BY AN ERROR. LAST LIST READ IN IS | | 9200 |
| 11547 | 452760632551 | | | | | |
| 11550 | 443145216325 | | | | | |
| 11551 | 246022706021 | | | | | |
| 11552 | 456025515146 | | | | | |
| 11553 | 513360432162 | | | | | |
| 11554 | 636043316263 | | | | | |
| 11555 | 605125212460 | | | | | |
| 11556 | 314560316260 | | | | | |
| 11557 | 603333333333 | 5396 | BCI | 1, | | 9210 |
| | | 5397 | * | | | |
| | | 5398 | H | HED | | |
| | | 5399 | * | ERRORSET(E,N,SW) | | |
| | | 5400 | * | | | |
| | | 5401 | * | ERRORSET ATTEMPTS TO EVALUATE ITS FIRST ARGUMENT. IF AN | | |
| | | 5402 | * | ERROR OCCURS DURING THE EVALUATION, OR IF MORE THAN N CONS-S | | |
| | | 5403 | * | OCCUR DURING THE EVALUATION, ERRORSET RETURNS WITH A VALUE OF F | | |
| | | 5404 | * | AFTER RESTORING CONDITIONS TO WHAT THEY WERE BEFORE THE | | |
| | | 5405 | * | ATTEMPTED EVALUATION. IF THE EVALUATION SUCCEEDS, ERRORSET | | |
| | | 5406 | * | RETURNS LIST OF THE RESULT. IF SW = F, ERROR DIAGNOSTICS ARE | | |
| | | 5407 | * | SUPPRESSED, AND IF SW = T, THEY ARE INCLUDED. | | |
| | | 5408 | * | | | |
| 11560 | -0634 00 4 11662 | 5409 | ERRSET | SXD | HORN,4 | |
| 11561 | 0074 00 4 02312 | 5410 | | TSX | \$SAVE,4 | |
| 11562 | -3 11673 0 02363 | 5411 | | TXL | \$END8,,HORN+9 | |
| 11563 | -0634 00 2 11663 | 5412 | | SXD | HORN+1,2 | |
| 11564 | 0634 00 1 11663 | 5413 | | SXA | HORN+1,1 | |
| 11565 | 0604 00 0 11666 | 5414 | | STI | HORN+4 | |
| 11566 | -0734 00 1 00000 | 5415 | | PDX | 0,1 | |
| 11567 | -0534 00 4 03321 | 5416 | | LXD | \$ARG3,4 | EXPRESSION TO BE EVALUATED |
| 11570 | 0634 00 4 11664 | 5417 | | SXA | ERNULL,4 | ERROR BYPASS SWITCH |

| | | | | | | | | |
|-------|-------|-------|---|-------|--------|-----------|------------|--|
| 11571 | 0131 | 00 | 0 | 00000 | 5418 | XCA | | |
| 11572 | -0734 | 00 | 2 | 00000 | 5419 | PDX | 0,2 | GET CONS COUNTER LIMIT |
| 11573 | 0074 | 00 | 4 | 13075 | 5420 | TSX | FIXVAL,4 | |
| 11574 | 0601 | 00 | 0 | 11670 | 5421 | STO | HORN+6 | |
| 11575 | 0500 | 00 | 0 | 03742 | 5422 | CLA | \$CNTR1 | GET CURRENT CONS COUNT |
| 11576 | -0320 | 00 | 0 | 00457 | 5423 | ANA | \$AMASK | |
| 11577 | 0400 | 00 | 0 | 04106 | 5424 | ADD | \$CNTS | |
| 11600 | 0402 | 00 | 0 | 11670 | 5425 | SUB | HORN+6 | COMPARE WITH THE LIMIT |
| 11601 | -0120 | 00 | 0 | 11611 | 5426 | TMI | OBOE | TRA IF COUNTER NEED NOT BE CHANGED |
| 11602 | -0760 | 00 | 0 | 00003 | 5427 | SSM | | NEG. NUMBER FOR GARBAGE COLLECTOR |
| 11603 | 0601 | 00 | 0 | 11667 | 5428 | STO | HORN+5 | SAVE (LIMIT - OLD COUNT) |
| 11604 | 0500 | 00 | 0 | 11670 | 5429 | CLA | HORN+6 | SET CONS COUNTER TO LIMIT |
| 11605 | 0621 | 00 | 0 | 03742 | 5430 | STA | \$CNTR1 | |
| 11606 | -0320 | 00 | 0 | 00465 | 5431 | ANA | PDTMSK | |
| 11607 | 0601 | 00 | 0 | 04106 | 5432 | STO | \$CNTS | |
| 11610 | 0020 | 00 | 0 | 11612 | 5433 | TRA | **2 | |
| 11611 | 0600 | 00 | 0 | 11667 | 5434 | OBOE STZ | HORN+5 | TAKE LIMIT = OLD COUNT |
| 11612 | 0560 | 00 | 0 | 00370 | 5435 | LDQ | \$ZERO | NULL P-LIST FOR EVALUATION |
| 11613 | 0502 | 00 | 0 | 02317 | 5436 | CLS | \$CPPI | SAVE PUSHDOWN POINTER |
| 11614 | 0601 | 00 | 0 | 11670 | 5437 | STO | HORN+6 | |
| 11615 | -0625 | 00 | 0 | 11671 | 5438 | STL | TCOUNT | TURN ON CONS COUNTER |
| 11616 | 0774 | 00 | 4 | 11625 | 5439 | AXT | BSOON,4 | SET UP EXIT IN ERROR |
| 11617 | 0634 | 00 | 4 | 11665 | 5440 | SXA | EREXIT,4 | |
| | | | | | 5441 * | | | ATTEMPT TO PERFORM THE EVALUATION |
| 11620 | -0754 | 00 | 1 | 00000 | 5442 | PXD | 0,1 | EXPRESSION TO BE EVALUATED |
| 11621 | 0074 | 00 | 4 | 15454 | 5443 | TSX | \$EVAL,4 | |
| | | | | | 5444 * | | | WE GET HERE IF THE EVALUATION WORKED |
| 11622 | 0560 | 00 | 0 | 00370 | 5445 | LDQ | \$ZERO | FORM LIST OF THE RESULT |
| 11623 | 0074 | 00 | 4 | 03730 | 5446 | TSX | \$CONS,4 | |
| | | | | | 5447 * | | | AN ERROR IN THIS CONS ACTS LIKE AN ERROR IN THE EVALUATION |
| 11624 | 0020 | 00 | 0 | 11643 | 5448 | TRA | SHAWM | RESTORE PARAMETERS AND EXIT |
| | | | | | 5449 * | | | WE GET HERE IN CASE OF ERROR |
| 11625 | -0535 | 00 | 4 | 11670 | 5450 | BSOON LDC | HORN+6,4 | UNSAVE ALL RECURSIVE FUNCTIONS |
| 11626 | -0634 | 00 | 4 | 11641 | 5451 | SXD | TUBA,4 | ENTERED SINCE THE ERROR |
| 11627 | 0020 | 00 | 0 | 11640 | 5452 | TRA | TUBA-1 | |
| 11630 | -0534 | 00 | 4 | 02317 | 5453 | HARP LXD | \$CPPI,4 | |
| 11631 | -0500 | 00 | 4 | 77777 | 5454 | CAL | -1,4 | |
| 11632 | -0320 | 00 | 0 | 00461 | 5455 | ANA | \$PMASK | TEST FOR STR FROM COMPILER |
| 11633 | 0322 | 00 | 0 | 00451 | 5456 | ERA | \$QP5 | |
| 11634 | 0100 | 00 | 0 | 11637 | 5457 | TZE | **3 | |
| 11635 | 0074 | 00 | 4 | 02326 | 5458 | TSX | UNSAVE,4 | |
| 11636 | 0020 | 00 | 0 | 11640 | 5459 | TRA | **2 | |
| 11637 | 0074 | 00 | 4 | 17330 | 5460 | TSX | C\$UNWND,4 | |
| 11640 | -0535 | 00 | 4 | 02317 | 5461 | LDC | \$CPPI,4 | |
| 11641 | 3 | 00000 | 4 | 11630 | 5462 | TUBA TXH | HARP,4,** | |
| 11642 | -0754 | 00 | 0 | 00000 | 5463 | PXD | 0,0 | RETURN VALUE OF NIL |
| | | | | | 5464 * | | | RESTORE PARAMETERS FOR EITHER KIND OF EXIT |
| 11643 | 0601 | 00 | 0 | 11670 | 5465 | SHAWM STO | HORN+6 | SAVE EXIT VALUE |
| 11644 | 0500 | 00 | 0 | 03742 | 5466 | CLA | \$CNTR1 | RESTORE CONS COUNTER |
| 11645 | -0320 | 00 | 0 | 00457 | 5467 | ANA | \$AMASK | |
| 11646 | 0400 | 00 | 0 | 04106 | 5468 | ADD | \$CNTS | |
| 11647 | 0402 | 00 | 0 | 11667 | 5469 | SUB | HORN+5 | |
| 11650 | 0621 | 00 | 0 | 03742 | 5470 | STA | \$CNTR1 | |
| 11651 | -0320 | 00 | 0 | 00465 | 5471 | ANA | PDTMSK | |

| | | | | | | | | | |
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| 11652 | 0601 | 00 | 0 | 04106 | 5472 | STO | \$CNTS | | |
| 11653 | 0534 | 00 | 1 | 11663 | 5473 | LXA | HORN+1,1 | RESTORE INDICATORS, IR1, AND IR2 | |
| 11654 | -0534 | 00 | 2 | 11663 | 5474 | LXD | HORN+1,2 | | |
| 11655 | 0441 | 00 | 0 | 11666 | 5475 | LDI | HORN+4 | | |
| 11656 | 0500 | 00 | 0 | 11670 | 5476 | CLA | HORN+6 | PICK UP EXIT VALUE | |
| 11657 | 0074 | 00 | 4 | 02326 | 5477 | TSX | UNSAVE,4 | RESTORE HORN BLOCK | |
| 11660 | -0534 | 00 | 4 | 11662 | 5478 | LXD | HORN,4 | RESTORE IR4 AND EXIT | |
| 11661 | 0020 | 00 | 4 | 00001 | 5479 | TRA | 1,4 | | |
| | | | | | 5480 * | | | PROTECTED TEMPORARY STORAGE FOR ERRORSET | |
| | | | | | 5481 | HEAD | H | | |
| 11662 | -0 | 00000 | 0 | 10211 | 5482 | HORN | MZE | ERSETO | (+0) ERRORSET OBJECT IN A, IR4 IN D |
| 11663 | -0 | 00000 | 0 | 00000 | 5483 | | MZE | | (+1) IR1 IN A, IR2 IN D |
| 11664 | -0 | 00000 | 0 | 11664 | 5484 | ERNULL | MZE | * | (+2) ZERO MEANS SKIP DIAGNOSTICS |
| 11665 | -3 | 00000 | 0 | 11423 | 5485 | EREXIT | TXL | EVQERR | (+3) EXIT INSTRUCTION FOR \$ERROR |
| 11666 | -0 | 00000 | 0 | 00000 | 5486 | | MZE | | (+4) INDICATORS |
| 11667 | -0 | 00000 | 0 | 00000 | 5487 | | MZE | | (+5) CONS COUNTER INCREMENT |
| 11670 | -0 | 00000 | 0 | 00000 | 5488 | NUBPD | MZE | | (+6) PDL BACKUP POINT IN D |
| 11671 | -0 | 00000 | 0 | 00000 | 5489 | TCOUNT | MZE | | (+7) NON-ZERO ACTIVATES CONS COUNTER |
| | | | | | 5490 | HEAD | 0 | | |
| | | | | 11665 | 5491 | TERAZ | SYN | EREXIT | |
| | | | | | 5492 * | | | | |
| | | | | | 5493 | HEAD | H | | |
| | | | | | 5494 * | | | | |
| | | | | | 5495 * | | | EXTENDED CAR S AND CDR S FOR THE INTERPRETER | |
| | | | | | 5496 * | | | | |
| 11672 | 0634 | 00 | 4 | 11703 | 5497 | CAAARX | SXA | CAX,4 | SAVE LINK IR |
| 11673 | -0734 | 00 | 4 | 00000 | 5498 | | PDX | 0,4 | |
| 11674 | 0500 | 00 | 4 | 00000 | 5499 | | CLA | 0,4 | |
| 11675 | 0734 | 00 | 4 | 00000 | 5500 | | PAX | 0,4 | |
| 11676 | 0500 | 00 | 4 | 00000 | 5501 | AA | CLA | 0,4 | |
| 11677 | 0734 | 00 | 4 | 00000 | 5502 | | PAX | 0,4 | |
| 11700 | 0500 | 00 | 4 | 00000 | 5503 | A | CLA | 0,4 | |
| 11701 | 0734 | 00 | 4 | 00000 | 5504 | | PAX | 0,4 | |
| 11702 | -0754 | 00 | 4 | 00000 | 5505 | | PXD | 0,4 | |
| 11703 | 0774 | 00 | 4 | 00000 | 5506 | CAX | AXT | ** ,4 | RESTORE LINK IR |
| 11704 | 0020 | 00 | 4 | 00001 | 5507 | | TRA | 1,4 | EXIT |
| | | | | | 5508 * | | | | |
| 11705 | 0634 | 00 | 4 | 11703 | 5509 | CAADR | SXA | CAX,4 | |
| 11706 | -0734 | 00 | 4 | 00000 | 5510 | | PDX | 0,4 | |
| 11707 | 0500 | 00 | 4 | 00000 | 5511 | | CLA | 0,4 | |
| 11710 | -0734 | 00 | 4 | 00000 | 5512 | AAX | PDX | 0,4 | |
| 11711 | 0020 | 00 | 0 | 11676 | 5513 | | TRA | AA | |
| | | | | | 5514 * | | | | |
| 11712 | 0634 | 00 | 4 | 11703 | 5515 | CADARX | SXA | CAX,4 | |
| 11713 | -0734 | 00 | 4 | 00000 | 5516 | | PDX | 0,4 | |
| 11714 | 0500 | 00 | 4 | 00000 | 5517 | | CLA | 0,4 | |
| 11715 | 0734 | 00 | 4 | 00000 | 5518 | | PAX | 0,4 | |
| 11716 | 0500 | 00 | 4 | 00000 | 5519 | AD | CLA | 0,4 | |
| 11717 | -0734 | 00 | 4 | 00000 | 5520 | | PDX | 0,4 | |
| 11720 | 0020 | 00 | 0 | 11700 | 5521 | | TRA | A | |
| 11721 | 0634 | 00 | 4 | 11703 | 5522 | CADDRX | SXA | CAX,4 | |
| 11722 | -0734 | 00 | 4 | 00000 | 5523 | | PDX | 0,4 | |
| 11723 | 0500 | 00 | 4 | 00000 | 5524 | | CLA | 0,4 | |
| 11724 | -0734 | 00 | 4 | 00000 | 5525 | ADX | PDX | 0,4 | |

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|-------|-------|----|---|-------|--------|---------|----------|--------------|
| 11725 | 0020 | 00 | 0 | 11716 | 5526 | TRA | AD | |
| | | | | | 5527 * | | | |
| 11726 | 0634 | 00 | 4 | 11703 | 5528 | CAARXX | SXA | CAX,4 |
| 11727 | 0020 | 00 | 0 | 11710 | 5529 | TRA | AAX | |
| | | | | | 5530 * | | | |
| 11730 | 0634 | 00 | 4 | 11703 | 5531 | CADRXX | SXA | CAX,4 |
| 11731 | 0020 | 00 | 0 | 11724 | 5532 | TRA | ADX | |
| | | | | | 5533 * | | | |
| 11732 | 0634 | 00 | 4 | 11742 | 5534 | CDAARX | SXA | CDX,4 |
| 11733 | -0734 | 00 | 4 | 00000 | 5535 | PDX | 0,4 | |
| 11734 | 0500 | 00 | 4 | 00000 | 5536 | CLA | 0,4 | |
| 11735 | 0734 | 00 | 4 | 00000 | 5537 | PAX | 0,4 | |
| 11736 | 0500 | 00 | 4 | 00000 | 5538 | DA | CLA | 0,4 |
| 11737 | 0734 | 00 | 4 | 00000 | 5539 | PAX | 0,4 | |
| 11740 | 0500 | 00 | 4 | 00000 | 5540 | D | CLA | 0,4 |
| 11741 | -0320 | 00 | 0 | 00460 | 5541 | ANA | \$DMASK | |
| 11742 | 0774 | 00 | 4 | 00000 | 5542 | CDX | AXT | ** ,4 |
| 11743 | 0020 | 00 | 4 | 00001 | 5543 | TRA | 1,4 | |
| 11744 | 0634 | 00 | 4 | 11742 | 5544 | CDADRXX | SXA | CDX,4 |
| 11745 | -0734 | 00 | 4 | 00000 | 5545 | PDX | 0,4 | |
| 11746 | 0500 | 00 | 4 | 00000 | 5546 | CLA | 0,4 | |
| 11747 | -0734 | 00 | 4 | 00000 | 5547 | DAX | PDX | 0,4 |
| 11750 | 0020 | 00 | 0 | 11736 | 5548 | TRA | DA | |
| | | | | | 5549 * | | | |
| 11751 | 0634 | 00 | 4 | 11742 | 5550 | CDDARX | SXA | CDX,4 |
| 11752 | -0734 | 00 | 4 | 00000 | 5551 | PDX | 0,4 | |
| 11753 | 0500 | 00 | 4 | 00000 | 5552 | CLA | 0,4 | |
| 11754 | 0734 | 00 | 4 | 00000 | 5553 | PAX | 0,4 | |
| 11755 | 0500 | 00 | 4 | 00000 | 5554 | DD | CLA | 0,4 |
| 11756 | -0734 | 00 | 4 | 00000 | 5555 | PDX | 0,4 | |
| 11757 | 0020 | 00 | 0 | 11740 | 5556 | TRA | D | |
| | | | | | 5557 * | | | |
| 11760 | 0634 | 00 | 4 | 11742 | 5558 | CDDDRX | SXA | CDX,4 |
| 11761 | -0734 | 00 | 4 | 00000 | 5559 | PDX | 0,4 | |
| 11762 | 0500 | 00 | 4 | 00000 | 5560 | CLA | 0,4 | |
| 11763 | -0734 | 00 | 4 | 00000 | 5561 | DDX | PDX | 0,4 |
| 11764 | 0020 | 00 | 0 | 11755 | 5562 | TRA | DD | |
| | | | | | 5563 * | | | |
| 11765 | 0634 | 00 | 4 | 11742 | 5564 | CDARXX | SXA | CDX,4 |
| 11766 | 0020 | 00 | 0 | 11747 | 5565 | TRA | DAX | |
| | | | | | 5566 * | | | |
| 11767 | 0634 | 00 | 4 | 11742 | 5567 | CDDRXX | SXA | CDX,4 |
| 11770 | 0020 | 00 | 0 | 11763 | 5568 | TRA | DDX | |
| | | | | | 5569 * | | | |
| | | | | | 5570 | HEAD | C | |
| 11771 | 0634 | 00 | 4 | 12003 | 5571 | GET | SXA | GETX,4 |
| | | | | | | | | SAVE LINK IR |
| 11772 | 0601 | 00 | 0 | 12006 | 5572 | STO | GETL | |
| 11773 | 0500 | 00 | 0 | 12005 | 5573 | CLA | FCN31 | LC763600 |
| 11774 | 0601 | 00 | 0 | 03321 | 5574 | STO | \$ARG3 | LC763700 |
| 11775 | 0500 | 00 | 0 | 12006 | 5575 | CLA | GETL | LC763800 |
| 11776 | 0074 | 00 | 4 | 10011 | 5576 | TSX | \$PRCP,4 | LC763900 |
| 11777 | -0734 | 00 | 4 | 00000 | 5577 | PDX | 0,4 | LC764100 |
| 12000 | 0500 | 00 | 4 | 00000 | 5578 | CLA | 0,4 | LC764200 |
| 12001 | 0734 | 00 | 4 | 00000 | 5579 | PAX | 0,4 | LC764300 |

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|-------|-------|-------|---|-------|------|----------|---|--------------|--|----------|
| 12002 | -0754 | 00 | 4 | 00000 | 5580 | PXD | 0,4 | | | LC764400 |
| 12003 | 0774 | 00 | 4 | 00000 | 5581 | GETX | AXT | ** ,4 | RESTORE LINK IR | |
| 12004 | 0020 | 00 | 4 | 00001 | 5582 | | TRA | 1,4 | | LC764600 |
| 12005 | -3 | 00000 | 0 | 12003 | 5583 | FCN31 | TXL | GETX,,0 | | |
| 12006 | 0 | 00000 | 0 | 00000 | 5584 | GETL | | | | LC877800 |
| | | | | | 5585 | * | | | | |
| | | | | | 5586 | * COMPAT | | | FUNCTIONAL ARGUMENT LINKAGE PROGRAM BETWEEN COMPILED | |
| | | | | | 5587 | * | | | PROGRAMS AND APPLY FOR S-EXPRESSION FUNCTIONAL ARGUMENTS | |
| | | | | | 5588 | * | | | | |
| 12007 | 0634 | 00 | 4 | 12026 | 5589 | COMPAT | SXA | CX,4 | SAVE INDEX REGISTERS | |
| 12010 | 0634 | 00 | 2 | 12027 | 5590 | | SXA | CY,2 | | |
| 12011 | 0601 | 00 | 0 | 03317 | 5591 | | STO | \$ARG1 | SAVE AC | |
| 12012 | -0600 | 00 | 0 | 03320 | 5592 | | STQ | \$ARG2 | CITTO MQ | |
| 12013 | 0560 | 00 | 0 | 00370 | 5593 | | LDQ | \$ZERO | END OF ARGUMENT LIST | |
| 12014 | 0500 | 00 | 4 | 00001 | 5594 | | CLA | 1,4 | ARGUMENTS FOR COMPAT | |
| 12015 | 0622 | 00 | 0 | 12031 | 5595 | | STD | CA | S-EXPRESSION FUNCTIONAL ARGUMENT | |
| 12016 | 0737 | 00 | 2 | 00000 | 5596 | | PAC | 0,2 | COMPLEMENT NUMBER OF ARGUMENTS | |
| 12017 | -3 | 00000 | 2 | 12024 | 5597 | CL | TXL | CD,2,0 | GO WHEN ALL DONE | |
| 12020 | 0500 | 00 | 2 | 03316 | 5598 | | CLA | \$ARG1-1,2 | PICK UP ARGUMENT | |
| 12021 | 0074 | 00 | 4 | 03730 | 5599 | | TSX | \$CONS,4 | CONS ON TO ARGUMENT LIST | |
| 12022 | 0131 | 00 | 0 | 00000 | 5600 | | XCA | | LIST TO MQ | |
| 12023 | 1 | 00001 | 2 | 12017 | 5601 | | TXI | CL,2,1 | GO BACK FOR NEXT | |
| 12024 | 0500 | 00 | 0 | 12031 | 5602 | CD | CLA | CA | FUNCTIONAL ARGUMENT | |
| 12025 | 0600 | 00 | 0 | 03321 | 5603 | | STZ | \$ARG3 | ZERO PAIR LIST | |
| 12026 | 0774 | 00 | 4 | 00000 | 5604 | CX | AXT | ** ,4 | RESTORE INDEX REGISTERS | |
| 12027 | 0774 | 00 | 2 | 00000 | 5605 | CY | AXT | ** ,2 | | |
| 12030 | 1 | 77777 | 4 | 14663 | 5606 | | TXI | \$APPLY,4,-1 | GO TO APPLY AND ADJUST EXIT INDEX | |
| 12031 | 0 | 00000 | 0 | 00000 | 5607 | CA | | | S-EXPRESSION GOES HERE | |
| | | | | | 5608 | F | HED | | | RDCI2001 |
| | | | | | 5609 | * | PACK(CHAR) | | | RDCI0001 |
| | | | | | 5610 | * | | | | RDCI0002 |
| | | | | | 5611 | * | PACK ADDS ANOTHER CHARACTER TO THE CHARACTER BUFFER BOFFO | | | RDCI0003 |
| | | | | | 5612 | * | | | | RDCI0004 |
| | | | | | 5613 | * | | | | RDCI0005 |
| 12032 | 0771 | 00 | 0 | 00022 | 5614 | PACK | ARS | 18 | GET CHARACTER CODE FROM | RDCI0006 |
| 12033 | 0402 | 00 | 0 | 00521 | 5615 | | SUB | HDRG | LOCATION OF OBJECT | RDCI0007 |
| 12034 | -0765 | 00 | 0 | 00006 | 5616 | | LGR | 6 | PUT NEW CHARACTER INTO PACKED WORD | RDCI0008 |
| 12035 | -0500 | 00 | 0 | 12603 | 5617 | | CAL | CHARS | | RDCI0009 |
| 12036 | 0140 | 00 | 0 | 12037 | 5618 | | TOV | *+1 | SHUT OFF OVERFLOW LIGHT | RDCI0010 |
| 12037 | -0763 | 00 | 0 | 00006 | 5619 | | LGL | 6 | | RDCI0011 |
| 12040 | 0140 | 00 | 0 | 12044 | 5620 | | TOV | B5 | IF WORD FULL, PUT IT IN BUFFER | RDCI0012 |
| 12041 | 0602 | 00 | 0 | 12603 | 5621 | | SLW | CHARS | | RDCI0013 |
| 12042 | -0754 | 00 | 0 | 00000 | 5622 | | PXD | ,0 | CLEAR AC FOR EXIT | RDCI0014 |
| 12043 | 0020 | 00 | 4 | 00001 | 5623 | | TRA | 1,4 | EXIT | RDCI0015 |
| 12044 | 0634 | 00 | 4 | 12053 | 5624 | B5 | SXA | B1,4 | SAVE IR4 | RDCI0016 |
| 12045 | 0774 | 00 | 4 | 00024 | 5625 | BFLCC | AXT | 20,4 | ADDRESS HAS INDEX FOR BOFFO | RDCI0017 |
| 12046 | 0602 | 00 | 4 | 12631 | 5626 | | SLW | BOFFO,4 | STORE FULL WORD OF CHARACTERS | RDCI0018 |
| 12047 | -2 | 00001 | 4 | 12056 | 5627 | | TNX | B3,4,1 | IF BUFFER FULL, TRANSFER | RDCI0019 |
| 12050 | 0500 | 00 | 0 | 12417 | 5628 | | CLA | A1 | WHEN I SHIFTS PAST P BIT, | RDCI0020 |
| 12051 | 0601 | 00 | 0 | 12603 | 5629 | | STO | CHARS | NEW WORD HAS 6 CHARACTERS | RDCI0021 |
| 12052 | 0634 | 00 | 4 | 12045 | 5630 | | SXA | BFLCC,4 | SAVE BUFFER INDEX | RDCI0022 |
| 12053 | 0774 | 00 | 4 | 00000 | 5631 | B1 | AXT | ,4 | RESTORE IR4 | RDCI0023 |
| 12054 | -0754 | 00 | 0 | 00000 | 5632 | | PXD | ,0 | CLEAR AC FOR EXIT | RDCI0024 |
| 12055 | 0020 | 00 | 4 | 00001 | 5633 | | TRA | 1,4 | EXIT | RDCI0025 |

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|-------|--------------|-------|---|-------|------|-----|-----------|-------------|---|----------|
| 12056 | -3 | 00000 | 4 | 12061 | 5634 | 83 | TXL | B4,4,0 | IF MORE THAN 120 CHARS, TRANSFER | RDCI0026 |
| 12057 | 0634 | 00 | 0 | 12045 | 5635 | | SXA | BFLOC,0 | SET INDEX TO SHOW BUFFER FILLED | RDCI0027 |
| 12060 | 0020 | 00 | 0 | 12066 | 5636 | | TRA | B6 | | RDCI0028 |
| 12061 | 0074 | 00 | 4 | 12147 | 5637 | 84 | TSX | \$MKNAM,4 | FORM OBJECT FOR ERROR PRINTOUT | |
| 12062 | 0074 | 00 | 4 | 06420 | 5638 | | TSX | INTRN1,4 | | |
| 12063 | -0634 | 00 | 4 | 01562 | 5639 | | SXD | \$ERROR,4 | | |
| 12064 | 0074 | 00 | 4 | 01563 | 5640 | | TSX | \$ERROR+1,4 | | |
| 12065 | 542330600154 | | | 5641 | | | BCI | 1,*CH 1* | TOO MANY CHARACTERS IN PRINT NAME | |
| 12066 | 0500 | 00 | 0 | 00471 | 5642 | 86 | CLA | SEVENS | BIT 1 IN CHARS WILL MAKE | RDCI0037 |
| 12067 | 0601 | 00 | 0 | 12603 | 5643 | | STQ | CHARS | WORD LOOK FULL | RDCI0038 |
| 12070 | 0020 | 00 | 0 | 12053 | 5644 | | TRA | B1 | | RDCI0039 |
| | | | | 5645 | * | | | | PACK USES \$ERROR, \$EROR1, AND \$Q1 | RDCI0040 |
| | | | | 5647 | * | | | | | RDCI0042 |
| | | | | 5648 | * | | | | | RDCI0043 |
| | | | | 5649 | * | | | | NUMOB MAKES A NUMERICAL OBJECT CORRESPONDING TO THE BCD | RDCI0044 |
| | | | | 5650 | * | | | | CHARACTERS IN THE BUFFER BOFFO. | RDCI0045 |
| | | | | 5651 | * | | | | | RDCI0046 |
| | | | | 5652 | * | | | | THIS ROUTINE HAS CROSS-REFERENCES TO THE INNARDS OF NUMBR | RDCI0047 |
| | | | | 5653 | * | | | | | RDCI0048 |
| 12071 | 0634 | 00 | 4 | 12134 | 5654 | | NUMOB SXA | GV1,4 | SAVE IR4 | RDCI0049 |
| 12072 | 0140 | 00 | 0 | 12073 | 5655 | | TOV | **1 | SHUT OFF OVERFLOW LIGHT | RDCI0050 |
| 12073 | -0500 | 00 | 0 | 12603 | 5656 | | CAL | CHARS | SHIFT SEVENS INTO LAST PACKED WORD | RDCI0051 |
| 12074 | 0560 | 00 | 0 | 00471 | 5657 | | LDQ | SEVENS | | RDCI0052 |
| 12075 | -0763 | 00 | 0 | 00006 | 5658 | | LGL | 6 | | RDCI0053 |
| 12076 | -0140 | 00 | 0 | 12075 | 5659 | | TNO | *-1 | DONE WHEN 1 PASSES THROUGH P BIT | RDCI0054 |
| 12077 | 0534 | 00 | 4 | 12045 | 5660 | | LXA | BFLOC,4 | PUT LAST WORD INTO BOFFO | RDCI0055 |
| 12100 | 0602 | 00 | 4 | 12631 | 5661 | | SLW | BOFFO,4 | | RDCI0056 |
| 12101 | 0500 | 00 | 0 | 12573 | 5662 | | CLA | PARAM | INPUT PARAMETER FOR NUMBR IS | RDCI0057 |
| 12102 | 0074 | 00 | 4 | 06622 | 5663 | | TSX | NUMBR,4 | BEGINNING OF BOFFO | RDCI0058 |
| 12103 | 0100 | 00 | 0 | 12136 | 5664 | | TZE | GV3 | ERROR IF ZERO IN AC | RDCI0059 |
| 12104 | 0120 | 00 | 0 | 12112 | 5665 | | TPL | GV2 | TRANSFER IF FIXED POINT OUTPUT | RDCI0060 |
| 12105 | 0131 | 00 | 0 | 00000 | 5666 | | XCA | | GET NUMBER FROM MQ | RDCI0061 |
| 12106 | 0560 | 00 | 0 | 00476 | 5667 | | LDQ | FLOS | FLOATING POINT SIGNAL | RDCI0062 |
| 12107 | 0074 | 00 | 4 | 12636 | 5668 | | TSX | \$MKNO,4 | FORM OBJECT | RDCI0063 |
| 12110 | 0534 | 00 | 4 | 12134 | 5669 | | LXA | GV1,4 | RESTORE IR4 | RDCI0064 |
| 12111 | 0020 | 00 | 0 | 12201 | 5670 | | TRA | CLEAR | RESET BOFFO AND EXIT | RDCI0065 |
| 12112 | -0760 | 00 | 0 | 00001 | 5671 | GV2 | PBT | | OCTAL SIGNAL IN NUMBR OUTPUT | |
| 12113 | 0020 | 00 | 0 | 12121 | 5672 | | TRA | GV6 | TRA IF NOT OCTAL | |
| 12114 | 0131 | 00 | 0 | 00000 | 5673 | | XCA | | | |
| 12115 | 0560 | 00 | 0 | 00503 | 5674 | | LDQ | \$OCTD | MAKE OCTAL NUMBER | RDCZ0012 |
| 12116 | 0074 | 00 | 4 | 12636 | 5675 | | TSX | \$MKNO,4 | | RDCI0069 |
| 12117 | 0534 | 00 | 4 | 12134 | 5676 | | LXA | GV1,4 | | RDCI0070 |
| 12120 | 0020 | 00 | 0 | 12201 | 5677 | | TRA | CLEAR | RESET BOFFO AND EXIT | RDCI0071 |
| 12121 | 0131 | 00 | 0 | 00000 | 5678 | GV6 | XCA | | BRING THE NUMBER TO THE AC | RDCI0072 |
| 12122 | -0120 | 00 | 0 | 12132 | 5679 | | TMI | GV4 | TEST FOR DIGITS 0 THRU 9 | RDCI0073 |
| 12123 | 0340 | 00 | 0 | 00402 | 5680 | | CAS | \$Q10 | | RDCI0074 |
| 12124 | 0020 | 00 | 0 | 12132 | 5681 | | TRA | GV4 | | RDCI0075 |
| 12125 | 0020 | 00 | 0 | 12132 | 5682 | | TRA | GV4 | | RDCI0076 |

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|-------|-------|-------|---|-------|------|-------|-----|------------|------------------------------------|----------|
| 12167 | 0534 | 00 | 2 | 12045 | 5729 | BB2 | LXA | BFLCC,2 | LOC OF LAST SIGNIFICAN BUFFER WORD | RDCI0122 |
| 12170 | 3 | 00023 | 2 | 12177 | 5730 | BB4 | TXH | BBIR2,2,19 | TRA IF BUFFER EXHAUSTED | RDCI0123 |
| 12171 | 0602 | 00 | 0 | 03654 | 5731 | | SLW | BBPNT | SAVE DECREMENT FOR FUTURE USE | RDCI0124 |
| 12172 | 0500 | 00 | 2 | 12630 | 5732 | | CLA | BOFFQ-1,2 | GET NEXT WORD OF BUFFER | RDCI0125 |
| 12173 | 0074 | 00 | 4 | 03710 | 5733 | | TSX | \$CONSW,4 | TACK IT ONTO FRONT OF LIST | RDCI0126 |
| 12174 | 0560 | 00 | 0 | 03654 | 5734 | | LDQ | BBPNT | | RDCI0127 |
| 12175 | 0074 | 00 | 4 | 03730 | 5735 | | TSX | \$CONS,4 | | RDCI0128 |
| 12176 | 1 | 00001 | 2 | 12170 | 5736 | | TXI | BB4,2,1 | MOVE TO NEXT WORD OF BUFFER | RDCI0129 |
| 12177 | 0774 | 00 | 2 | 00000 | 5737 | BBIR2 | AXT | ** ,2 | RESTORE IR2 | RDCI0130 |
| 12200 | 0020 | 00 | 0 | 12202 | 5738 | | TRA | BB3 | RESET POSITION IN BOFFQ | RDCI0131 |
| 12201 | 0634 | 00 | 4 | 12207 | 5739 | CLEAR | SXA | BB1,4 | ENTRANCE FOR CLEARING BUFFER | RDCI0132 |
| 12202 | 0560 | 00 | 0 | 12417 | 5740 | BB3 | LDQ | A1 | RESET CHARS CELL TO 0 CHARACTERS | RDCI0133 |
| 12203 | -0600 | 00 | 0 | 12603 | 5741 | | STQ | CHARS | | RDCI0134 |
| 12204 | 0774 | 00 | 4 | 00024 | 5742 | | AXT | 20,4 | SET INDEX IN PACK FOR FIRST | RDCI0135 |
| 12205 | 0634 | 00 | 4 | 12045 | 5743 | | SXA | BFLGC,4 | BUFFER WORD | RDCI0136 |
| 12206 | 0600 | 00 | 0 | 03654 | 5744 | | STZ | BBPNT | AVOID UNNECESSARY GARBAGE COLL. | RDCI0137 |
| 12207 | 0774 | 00 | 4 | 00000 | 5745 | BB1 | AXT | ,4 | RESTORE IR4 | RDCI0138 |
| 12210 | 0020 | 00 | 4 | 00001 | 5746 | | TRA | 1,4 | EXIT | RDCI0139 |

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|-------|-------|-------|---|-------|--------|--------|-----|--|-------------------------------------|----------|
| | | | | | 5748 * | | | ADVANCE, STARTREAD, AND ENDREAD PROGRAMS | | RDCI0141 |
| | | | | | 5749 * | | | | | RDCI0142 |
| | | | | | 5750 * | | | ADVANCE SETS CURCHAR TO THE NEXT CHARACTER | | RDCI0143 |
| | | | | | 5751 * | | | STARTREAD READS A NEW RECORD | | RDCI0144 |
| | | | | | 5752 * | | | ENDREAD MOVES TO THE END OF THE CURRENT RECORD AND | | RDCI0145 |
| | | | | | 5753 * | | | GIVES ERROR OUTPUT, IF ANY | | RDCI0146 |
| | | | | | 5754 | | | | | RDCI0147 |
| 12211 | -0634 | 00 | 4 | 12220 | 5755 | ADVANC | SXD | PORK,4 | SAVE IR4 | RDCI0148 |
| 12212 | -0534 | 00 | 4 | 12236 | 5756 | | LXD | CHPCS,4 | FIND NO. OF CHARS. LEFT IN PACKED | RDCI0149 |
| 12213 | 2 | 00006 | 4 | 12247 | 5757 | | TIX | CHOPS,4,6 | WORD | RDCI0150 |
| 12214 | -0534 | 00 | 4 | 12237 | 5758 | | LXD | WNUM,4 | FIND NEW PACKED WORD | RDCI0151 |
| 12215 | 2 | 00001 | 4 | 12243 | 5759 | | TIX | LAMB,4,1 | IF NEW RECORD NEEDED, CONTINUE | RDCI0152 |
| 12216 | -0520 | 00 | 0 | 12604 | 5760 | | NZT | EORTS | IF NONZERO GIVE EOR AS OUTPUT CHAR- | RDCI0153 |
| 12217 | 0020 | 00 | 0 | 12223 | 5761 | | TRA | VEAL | ACTER, OTHERWISE READ NEW RECORD | RDCI0154 |
| 12220 | 1 | 00000 | 0 | 12276 | 5762 | PORK | TXI | STEW,,0 | READ A NEW RECORD | RDCI0155 |
| 12221 | -0634 | 00 | 4 | 12220 | 5763 | STREAD | SXD | PORK,4 | SAVE IR4 | RDCI0156 |
| 12222 | 0020 | 00 | 0 | 12225 | 5764 | | TRA | **3 | | RDCI0157 |
| 12223 | -0520 | 00 | 0 | 12517 | 5765 | VEAL | NZT | ERSIG | | RDCI0158 |
| 12224 | 0020 | 00 | 0 | 12233 | 5766 | | TRA | JOYCE | | RDCI0159 |
| 12225 | 0600 | 00 | 0 | 12517 | 5767 | | STZ | ERSIG | TURN OFF ERROR SIGNAL | RDCI0160 |
| 12226 | 0774 | 00 | 4 | 00014 | 5768 | | AXT | 12,4 | PUT BLANKS IN ERROR BUFFER | RDCI0161 |
| 12227 | -0500 | 00 | 0 | 00472 | 5769 | | CAL | BLANKS | | RDCI0162 |
| 12230 | 0602 | 00 | 4 | 12572 | 5770 | RUTH | SLW | ERBFL,4 | | RDCI0163 |
| 12231 | 0602 | 00 | 4 | 12535 | 5771 | | SLW | ERBFU,4 | | RDCI0164 |
| 12232 | 2 | 00001 | 4 | 12230 | 5772 | | TIX | RUTH,4,1 | | RDCI0165 |
| 12233 | 0074 | 00 | 4 | 00663 | 5773 | JOYCE | TSX | \$INPUT,4 | READ A NEW RECORD | RDCI0166 |
| 12234 | 0 | 00000 | 0 | 00000 | 5774 | | | \$BCCIN | | RDCI0167 |
| 12235 | 0 | 00016 | 0 | 12536 | 5775 | | | BUFF-12,,14 | | RDCI0168 |
| 12236 | 1 | 00000 | 0 | 12316 | 5776 | CHPOS | TXI | RIBS,,0 | ERROR RETURN | RDCI0169 |
| 12237 | 1 | 00000 | 0 | 12271 | 5777 | WNUM | TXI | RUMP,,0 | EOF RETURN | RDCI0170 |

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|-------|--------------|---------|-------|------|--------|---|--------------------------------------|----------|
| 12240 | -0625 | 00 0 | 12604 | 5778 | | STL EORTS | SET SIGNAL FOR EOR OUTPUT NEXT TIME | RDCI0171 |
| 12241 | 0600 | 00 0 | 12635 | 5779 | | STZ \$CHACT | INITIALIZE CHARACTER COUNT | RDCI0172 |
| 12242 | 0774 | 00 4 | 00014 | 5780 | | AXT 12,4 | SET INDEX FOR START OF INPUT BUFFER | RDCI0173 |
| 12243 | -0634 | 00 4 | 12237 | 5781 | LAMB | SXD WDNUM,4 | | RDCI0174 |
| 12244 | 0500 | 00 4 | 12552 | 5782 | | CLA BUFF,4 | PICK UP NEW PACKED WORD FROM | RDCI0175 |
| 12245 | 0601 | 00 0 | 12572 | 5783 | | STO PWORD | INPUT BUFFER AND STORE IT | RDCI0176 |
| 12246 | 0774 | 00 4 | 00044 | 5784 | | AXT 36,4 | INITIALIZE POSITION IN PACKED WORD | RDCI0177 |
| 12247 | -0634 | 00 4 | 12236 | 5785 | CHOPS | SXD CHPCS,4 | | RDCI0178 |
| 12250 | -0754 | 00 0 | 00000 | 5786 | | PXD ,0 | PICK OFF ONE CHARACTER | RDCI0179 |
| 12251 | 0560 | 00 0 | 12572 | 5787 | | LDQ PWORD | | RDCI0180 |
| 12252 | -0763 | 00 0 | 00006 | 5788 | A6 | LGL 6 | | RDCI0181 |
| 12253 | -0600 | 00 0 | 12572 | 5789 | | STQ PWORD | SAVE SHIFTED PACKED WORD | RDCI0182 |
| 12254 | 0734 | 00 4 | 00000 | 5790 | | PAX 0,4 | | |
| 12255 | 3 00014 | 4 | 12260 | 5791 | | TXH SHANK,4,12 | CHECK FOR 8-4 MINUS | |
| 12256 | -3 00013 | 4 | 12260 | 5792 | | TXL SHANK,4,11 | | |
| 12257 | 0774 | 00 4 | 00040 | 5793 | | AXT 32,4 | CHANGE 8-4 MINUS TO 11 MINUS | |
| 12260 | 1 06127 | 4 | 12261 | 5794 | SHANK | TXI *+1,4,\$H00 | POINTER TO NEW CHARACTER OBJECT | |
| 12261 | 0500 | 00 0 | 12635 | 5795 | BACON | CLA \$CHACT | BUMP CHARACTER COUNT | RDCI0185 |
| 12262 | 0400 | 00 0 | 00371 | 5796 | | ADD \$Q1 | | RDCI0186 |
| 12263 | 0601 | 00 0 | 12635 | 5797 | | STO \$CHACT | | RDCI0187 |
| 12264 | -0754 | 00 4 | 00000 | 5798 | | PXD ,4 | SET CURCHAR TO NEW CHARACTER | RDCI0188 |
| 12265 | 0602 | 00 0 | 12634 | 5799 | | SLW \$CURC | POINTER IN DECREMENT FOR BIN | RDCI0189 |
| 12266 | 0634 | 00 4 | 12633 | 5800 | | SXA \$CURC1,4 | POINTER IN ADDRESS FOR APVAL1 | RDCI0190 |
| 12267 | -0534 | 00 4 | 12220 | 5801 | | LXD PORK,4 | RESTORE IR4 | RDCI0191 |
| 12270 | 0020 | 00 4 | 00001 | 5802 | | TRA 1,4 | RETURN | RDCI0192 |
| 12271 | 0534 | 00 4 | 00522 | 5803 | RUMP | LXA EOF,4 | END OF FILE CHARACTER | RDCI0193 |
| 12272 | 0020 | 00 0 | 12314 | 5804 | | TRA JEAN | | RDCI0194 |
| 12273 | -0634 | 00 4 | 12220 | 5805 | ENDRED | SXD PORK,4 | SAVE IR4 FOR EXIT (ENDREAD ENTRANCE) | RDCI0195 |
| 12274 | -0634 | 00 0 | 12236 | 5806 | | SXD CHPCS,0 | SET CHARACTER POSITION AND WORD | RDCI0196 |
| 12275 | -0634 | 00 0 | 12237 | 5807 | | SXD WDNUM,0 | NUMBER AT END OF RECORD | RDCI0197 |
| 12276 | -0520 | 00 0 | 12517 | 5808 | STEW | NZT ERSIG | TEST IF ERROR PRINTOUT NEEDED | RDCI0198 |
| 12277 | 0020 | 00 0 | 12313 | 5809 | | TRA SUZIE | | RDCI0199 |
| 12300 | 0074 | 00 4 | 05214 | 5810 | | TSX TERPRI,4 | PRINT BLANK LINE | RDCI0200 |
| 12301 | 0074 | 00 4 | 01222 | 5811 | | TSX OUTPUT,4 | PRINT UPPER ERROR BUFFER | RDCI0201 |
| 12302 | 0 00000 | 0 00364 | 5812 | | | BCDOUT | | RDCI0202 |
| 12303 | 0 00015 | 0 12520 | 5813 | | | ERBFU-13,,13 | | RDCI0203 |
| 12304 | 0074 | 00 4 | 01222 | 5814 | | TSX OUTPUT,4 | PRINT BAD LINE | RDCI0204 |
| 12305 | 0 00000 | 0 00364 | 5815 | | | BCDOUT | | RDCI0205 |
| 12306 | 0 00015 | 0 12535 | 5816 | | | BUFF-13,,13 | | RDCI0206 |
| 12307 | 0074 | 00 4 | 01222 | 5817 | | TSX OUTPUT,4 | PRINT LOWER ERROR BUFFER | RDCI0207 |
| 12310 | 0 00000 | 0 00364 | 5818 | | | BCDOUT | | RDCI0208 |
| 12311 | 0 00015 | 0 12555 | 5819 | | | ERBFL-13,,13 | | RDCI0209 |
| 12312 | 0074 | 00 4 | 05214 | 5820 | | TSX TERPRI,4 | PRINT BLANK LINE | RDCI0210 |
| 12313 | 0534 | 00 4 | 00523 | 5821 | SUZIE | LXA EOR,4 | LOAD END OF RECORD CHARACTER | RDCI0211 |
| 12314 | 0600 | 00 0 | 12604 | 5822 | JEAN | STZ EORTS | SIGNAL TO READ NEW RECORD NEXT TIME | RDCI0212 |
| 12315 | 0020 | 00 0 | 12261 | 5823 | | TRA BACON | | RDCI0213 |
| 12316 | -0634 | 00 4 | 01562 | 5824 | RIBS | SXD \$ERROR,4 | | |
| 12317 | 0074 | 00 4 | 01563 | 5825 | | TSX \$ERROR+1,4 | | |
| 12320 | 542330600354 | | | 5826 | | BCI 1,*CH 3* | | |
| | | | | 5827 | * | TAPE READING ERROR -ADVANCE, STARTREAD- | | |
| | | | 00471 | 5828 | SEVNS | SYN SEVENS | | |

| | | | | | | | | | | | | |
|--|-------|----------------|-------|-------|--------|-----------------|--|---------|----------|---------------------------------|--|----------|
| | | | | | 5877 | | SPACE | 5 | | | | RDCI0277 |
| | | | | | 5878 | * | UNPACK(NAME) | | | | | RDCI0278 |
| | | | | | 5879 | * | | | | | | RDCI0279 |
| | | | | | 5880 | * | UNPACK(NAME) GIVES A LIST OF THE CHARACTER OBJECTS | | | | | RDCI0280 |
| | | | | | 5891 | * | IN THE CELL -NAME-, UP TO THE FIRST 77. | | | | | RDCI0281 |
| | | | | | 5882 | * | | | | | | RDCI0282 |
| | 12365 | 0634 | 00 | 4 | 12414 | 5883 | UNPACK | SXA | UPI4,4 | SAVE IR2 AND IR4 | | RDCI0283 |
| | 12366 | 0634 | 00 | 2 | 12415 | 5884 | | SXA | UPI2,2 | | | RDCI0284 |
| | 12367 | -0734 | 00 | 4 | 00000 | 5895 | | PDX | ,4 | PUT ARGUMENT CELL IN MQ | | RDCI0285 |
| | 12370 | 0560 | 00 | 4 | 00000 | 5886 | | LDQ | 0,4 | | | RDCI0286 |
| | 12371 | 0774 | 00 | 2 | 00006 | 5887 | | AXT | 6,2 | | | RDCI0287 |
| | 12372 | -0754 | 00 | 0 | 00000 | 5888 | UP2 | PXD | ,0 | LOOK AT A CHARACTER | | RDCI0288 |
| | 12373 | -0763 | 00 | 0 | 00006 | 5889 | | LGL | 6 | | | RDCI0289 |
| | 12374 | 0340 | 00 | 0 | 00413 | 5890 | | CAS | \$Q63 | | | RDCI0290 |
| | 12375 | 1 | 00001 | 2 | 12401 | 5891 | | TXI | UPI1,2,1 | ADJUST IR2 FOR CHARACTER | | RDCI0291 |
| | 12376 | 1 | 00001 | 2 | 12401 | 5892 | | TXI | UPI1,2,1 | COUNT | | RDCI0292 |
| | 12377 | 0601 | 00 | 2 | 12602 | 5893 | | STO | T1+6,2 | STORE THE CHARACTER | | RDCI0293 |
| | 12400 | 2 | 00001 | 2 | 12372 | 5894 | | TIX | UP2,2,1 | | | RDCI0294 |
| | | | | | 5895 | | | | | | | RDCI0295 |
| | 12401 | 0600 | 00 | 0 | 03654 | 5896 | UP1 | STZ | UPLST | SET END OF LIST TO NIL | | RDCI0296 |
| | 12402 | 3 | 00006 | 2 | 12412 | 5897 | UP4 | TXH | UP3,2,6 | EXIT IF ALL CHARACTERS LISTED | | RDCI0297 |
| | 12403 | 0500 | 00 | 2 | 12602 | 5898 | | CLA | T1+6,2 | PICK UP NEXT CHARACTER | | RDCI0298 |
| | 12404 | 0400 | 00 | 0 | 00521 | 5899 | | ADD | HORG | AND FORM OBJECT | | RDCI0299 |
| | 12405 | 0767 | 00 | 0 | 00022 | 5900 | | ALS | 18 | | | RDCI0300 |
| | 12406 | 0560 | 00 | 0 | 03654 | 5901 | | LDQ | UPLST | | | RDCI0301 |
| | 12407 | 0074 | 00 | 4 | 03730 | 5902 | | TSX | \$CONS,4 | PUT CHAR AT HEAD OF LIST | | RDCI0302 |
| | 12410 | 0601 | 00 | 0 | 03654 | 5903 | | STO | UPLST | | | RDCI0303 |
| | 12411 | 1 | 00001 | 2 | 12402 | 5904 | | TXI | UP4,2,1 | | | RDCI0304 |
| | 12412 | 0500 | 00 | 0 | 03654 | 5905 | UP3 | CLA | UPLST | RETURN WITH LOCATION OF LIST | | RDCI0305 |
| | 12413 | 0600 | 00 | 0 | 03654 | 5906 | | STZ | UPLST | AVOID UNNECESSARY GARBAGE COLL. | | RDCI0306 |
| | 12414 | 0774 | 00 | 4 | 00000 | 5907 | UPI4 | AXT | **,4 | RESTORE IR4 AND IR2 | | RDCI0307 |
| | 12415 | 0774 | 00 | 2 | 00000 | 5908 | UPI2 | AXT | **,2 | | | RDCI0308 |
| | 12416 | 0020 | 00 | 4 | 00001 | 5909 | | TRA | 1,4 | EXIT | | RDCI0309 |
| | | | | | 5910 | * | | | | | | RDCI0310 |
| | | | | | 5911 | * | THIS ROUTINE USES \$CONS | | | | | RDCI0311 |
| | | | | | 5913 | | | | | | | RDCI0313 |
| | | | | | 5914 | | | | | | | RDCI0314 |
| | | | | | 5915 | | | STORAGE | | | | RDCI0315 |
| | | | | | 5916 | | | | | | | RDCI0316 |
| | 00521 | 5917 | HORG | SYN | \$H00A | | | | | | | |
| | 00522 | 5918 | EDF | SYN | \$H12A | | | | | | | |
| | 00523 | 5919 | EOR | SYN | \$H72A | | | | | | | |
| | 00524 | 5920 | HOL9 | SYN | \$H11D | | | | | | | |
| | 00525 | 5921 | HOL14 | SYN | \$H14D | | | | | | | |
| | 00530 | 5922 | HOL40 | SYN | \$H40D | | | | | | | |
| | | 5923 | | | TITLE | | | | | | | RDCI0323 |
| | 12417 | +0000000000001 | 5924 | CHTYP | DEC | 1,1,1,1,1,1,1,1 | | | | 0 = ILLEGAL CHARACTER | | RDCI0324 |
| | 12427 | +0000000000001 | 5925 | | DEC | 1,1,4,3,3,0,0,0 | | | | 1 = DIGIT | | RDCI0325 |

| | | | | | | |
|-------|------------------|------|--------|--|------------------------------------|----------|
| 12437 | +0000000000003 | 5926 | DEC | 3,2,2,2,2,2,2,2 | 2 = LETTER | RDCI0326 |
| 12447 | +0000000000002 | 5927 | DEC | 2,2,4,4,4,0,0,0 | 3 = OPERATION CHARACTER | RDCI0327 |
| 12457 | +0000000000003 | 5928 | DEC | 3,2,2,2,2,2,2,2 | 4 = OTHER | RDCI0328 |
| 12467 | +0000000000002 | 5929 | DEC | 2,2,4,4,4,3,0,0,0 | | RDCI0329 |
| 12477 | +0000000000004 | 5930 | DEC | 4,3,2,2,2,2,2,2 | | RDCI0330 |
| 12507 | +0000000000002 | 5931 | DEC | 2,2,4,4,4,0,0,0 | | RDCI0331 |
| | | 5932 | | DETAIL | | RDCI0332 |
| | 00370 | 5933 | ZERO | SYN \$ZFR0 | | |
| | 12417 | 5934 | A1 | SYN CHTYP | | RDCI0334 |
| | 12440 | 5935 | A2 | SYN CHTYP+17 | | RDCI0335 |
| | 12437 | 5936 | A3 | SYN CHTYP+16 | | RDCI0336 |
| | 00424 | 5937 | OCT41 | SYN \$Q041 | | |
| | 00412 | 5938 | A36 | SYN \$Q36 | | |
| 12517 | | 5939 | ERSIG | BSS 1 | ERROR INDICATOR | RDCI0339 |
| 12520 | 006060606060 | 5940 | BCI | 1,0 | DOUBLE SPACE UNDER PROGRAM CONTROL | RDCI0340 |
| 12535 | | 5941 | ERBFU | BES 12 | UPPER ERROR BUFFER | RDCI0341 |
| 12535 | 606060606060 | 5942 | BCI | 1, | SINGLE SPACE UNDER PROGRAM CONTROL | RDCI0342 |
| 12552 | | 5943 | BUFF | BES 12 | BUFFER FOR INPUT RECORD | RDCI0343 |
| 12555 | | 5944 | BES | 3 | ROOM FOR EXTRA WORDS IN READ-IN | RDCI0344 |
| 12555 | 606060606060 | 5945 | BCI | 1, | SINGLE SPACE UNDER PROGRAM CONTROL | RDCI0345 |
| 12572 | | 5946 | ERBFL | BES 12 | LOWER ERROR BUFFER | RDCI0346 |
| 12572 | | 5947 | PWORD | BSS 1 | | RDCI0347 |
| 12573 | 0 00001 0 12605 | 5948 | PARAM | PZE BOFFO-20,,1 | | RDCI0348 |
| | 00476 | 5949 | FLOS | SYN FLOATD | | |
| 12574 | | 5950 | T1 | BSS 7 | | RDCI0351 |
| | 00475 | 5951 | FIXS | SYN \$FIXD | | |
| 12603 | | 5952 | CHARS | BSS 1 | | RDCI0353 |
| 12604 | | 5953 | EORTS | BSS 1 | NONZERO INDICATES EOR OUTPUT CHAR | RDCI0356 |
| 12631 | | 5954 | BOFFO | BES 20 | | RDCI0357 |
| 12631 | | 5955 | BSS | 1 | JUNK WORD FOR BOFFO REMNANTS | RDCI0358 |
| | 03654 | 5956 | UPLST | SYN BBPNT | CUMULATIVE LIST OF CHARACTERS | RDCI0359 |
| 12632 | | 5957 | BSS | 1 | | RDCI0360 |
| 12633 | 0 00000 0 00000 | 5958 | CURC1 | PZE | POINTER APPEARS IN ADDRESS | RDCP0610 |
| 12634 | 0 00000 0 00000 | 5959 | CURC | PZE | POINTER APPEARS IN DECREMENT | RDCP0623 |
| 12635 | 0 00000 0 00000 | 5960 | CHACT | PZE | CHARACTER COUNT | RDC80236 |
| | | 5961 | * | | | RDCI0361 |
| | | 5962 | * MKNO | A FUNCTION OF TWO ARGUMENTS, THE FIRST IS A NUMBER, THE SECOND | | RDCI0362 |
| | | 5963 | * | ND IS A TYPE (FLO OR FIX). MKNO FORMS A NON-UNIQUE NUMBER | | RDCI0363 |
| 12636 | 0634 00 4 12660 | 5964 | MKNO | SXA MKIR,4 | SAVE LINK IR | |
| 12637 | -0600 00 0 03656 | 5965 | | STQ MKT1 | TYPE OF NUMBER TO MQ | |
| 12640 | 0074 00 4 03710 | 5966 | | TSX \$CONSW,4 | | |
| 12641 | 0131 00 0 00000 | 5967 | | XCA | | |
| 12642 | 0500 00 0 00460 | 5968 | | CLA \$DMASK | | |
| 12643 | 0074 00 4 03730 | 5969 | | TSX \$CONS,4 | | |
| 12644 | -0534 00 4 03656 | 5970 | | LXD MKT1,4 | TYPE TO IR 4 | |
| 12645 | 0622 00 0 03656 | 5971 | | STD MKT1 | | |
| 12646 | 0500 00 0 00441 | 5972 | | CLA \$QT5 | ASSUME IT IS OCTAL | |
| 12647 | -3 10134 4 12652 | 5973 | | TXL **3,4,\$FIX-1 | | |
| 12650 | 3 10135 4 12652 | 5974 | | TXH **2,4,\$FIX | | |
| 12651 | 0500 00 0 00436 | 5975 | | CLA \$QT1 | | |
| 12652 | -3 10117 4 12655 | 5976 | | TXL **3,4,\$FLOAT-1 | | |
| 12653 | 3 10120 4 12655 | 5977 | | TXH **2,4,\$FLOAT | | |
| 12654 | 0500 00 0 00437 | 5978 | | CLA \$QT2 | | |
| 12655 | -0534 00 4 03656 | 5979 | | LXD MKT1,4 | LOCATION OF NUMBER | |

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|-------|-------|-------|---|-------|------|------------|--|------------------------------------|----------|
| 12656 | -0602 | 00 | 4 | 00000 | 5980 | ORS | 0,4 | PUT IN NUMBER FLAG | |
| 12657 | -0754 | 00 | 4 | 00000 | 5981 | PXD | 0,4 | ANSWER TO AC | |
| 12660 | 0774 | 00 | 4 | 00000 | 5982 | MKIR AXT | ** ,4 | RESTORE LINK IR | |
| 12661 | 0020 | 00 | 4 | 00001 | 5983 | TRA | 1,4 | | |
| | | | | | 5984 | * | | | RDCI0368 |
| | | | | | 5985 | * | | | RDCI0421 |
| | | | | | 5986 | H | HED | | RDCI0423 |
| | | | | | 5987 | * | LOGOR, LOGAND, AND LOGXOR | | |
| | | | | | 5988 | * | | | RDCI0454 |
| | | | | | 5989 | * | THESE FUNCTIONS TAKE THE LOGICAL AND, LOGICAL OR, AND LOGICAL | | |
| | | | | | 5990 | * | EXCLUSIVE OR RESPECTIVELY OF THEIR ARGUMENTS, WHICH ARE NUMBER | | |
| | | | | | 5991 | * | OBJECTS. THE RESULT IS AN OCTAL NUMBER OBJECT. | | |
| | | | | | 5992 | * | | | RDCI0458 |
| 12662 | 0100 | 00 | 4 | 00001 | 5993 | LOGOR TZE | 1,4 | RETURN 0 IF 0 INPUT | RDCI0459 |
| 12663 | -0634 | 00 | 4 | 12756 | 5994 | SXD | T1,4 | SAVE IR4 | RDCI0460 |
| 12664 | 0774 | 00 | 4 | 07706 | 5995 | AXT | -\$)PJ37,4 | LOGOR ATOM | |
| 12665 | 0634 | 00 | 4 | 12756 | 5996 | SXA | T1,4 | SET FUNCTION ON PDL | |
| 12666 | 0074 | 00 | 4 | 02312 | 5997 | TSX | \$SAVE,4 | | RDCI0461 |
| 12667 | -3 | 12760 | 0 | 02401 | 5998 | TXL | \$END1,,T1+2 | SAVE 1 ITEM | |
| 12670 | 0074 | 00 | 4 | 15774 | 5999 | TSX | \$EVLIS,4 | EVALUATE LIST OF ARGUMENTS | RDCI0463 |
| 12671 | 0074 | 00 | 4 | 02326 | 6000 | TSX | UNSAVE,4 | | RDCI0464 |
| 12672 | 0560 | 00 | 0 | 00370 | 6001 | LDQ | \$ZERO | OR OF NO ARGUMENTS | RDCI0466 |
| 12673 | -0600 | 00 | 0 | 12757 | 6002 | STQ | T1+1 | | RDCI0467 |
| 12674 | 0560 | 00 | 0 | 12747 | 6003 | LDQ | ORS | INSTRUCTION FOR INNER LOOP | RDCI0468 |
| 12675 | 0020 | 00 | 0 | 12725 | 6004 | TRA | LOG2 | | RDCI0469 |
| | | | | | 6005 | * | | | RDCI0470 |
| 12676 | 0100 | 00 | 4 | 00001 | 6006 | LOGAND TZE | 1,4 | EXIT WITH 0 IF 0 INPUT | RDCI0471 |
| 12677 | -0634 | 00 | 4 | 12756 | 6007 | SXD | T1,4 | SAVE IR4 | RDCI0472 |
| 12700 | 0774 | 00 | 4 | 07676 | 6008 | AXT | -\$)PJ36,4 | LOGAND ATOM | |
| 12701 | 0634 | 00 | 4 | 12756 | 6009 | SXA | T1,4 | SET FUNCTION ON PDL | |
| 12702 | 0074 | 00 | 4 | 02312 | 6010 | TSX | \$SAVE,4 | | RDCI0473 |
| 12703 | -3 | 12760 | 0 | 02401 | 6011 | TXL | \$END1,,T1+2 | SAVE 1 ITEM | |
| 12704 | 0074 | 00 | 4 | 15774 | 6012 | TSX | \$EVLIS,4 | EVALUATE LIST OF ARGUMENTS | RDCI0475 |
| 12705 | 0074 | 00 | 4 | 02326 | 6013 | TSX | UNSAVE,4 | | RDCI0476 |
| 12706 | 0560 | 00 | 0 | 00471 | 6014 | LDQ | SEVENS | AND OF NO ARGUMENTS | RDCI0478 |
| 12707 | -0600 | 00 | 0 | 12757 | 6015 | STQ | T1+1 | | RDCI0479 |
| 12710 | 0560 | 00 | 0 | 12750 | 6016 | LDQ | ANS | INSTRUCTION FOR INNER LOOP | RDCI0480 |
| 12711 | 0020 | 00 | 0 | 12725 | 6017 | TRA | LOG2 | | RDCI0481 |
| | | | | | 6018 | * | | | RDCI0482 |
| 12712 | 0100 | 00 | 4 | 00001 | 6019 | LOGXOR TZE | 1,4 | EXIT WITH 0 IF 0 INPUT | |
| 12713 | -0634 | 00 | 4 | 12756 | 6020 | SXD | T1,4 | SAVE IR4 | RDCI0484 |
| 12714 | 0774 | 00 | 4 | 07666 | 6021 | AXT | -\$)PJ38,4 | LOGXOR ATOM | |
| 12715 | 0634 | 00 | 4 | 12756 | 6022 | SXA | T1,4 | SET FUNCTION ON PDL | |
| 12716 | 0074 | 00 | 4 | 02312 | 6023 | TSX | \$SAVE,4 | | RDCI0485 |
| 12717 | -3 | 12760 | 0 | 02401 | 6024 | TXL | \$END1,,T1+2 | SAVE 1 ITEM | |
| 12720 | 0074 | 00 | 4 | 15774 | 6025 | TSX | \$EVLIS,4 | EVALUATE LIST OF ARGUMENTS | RDCI0487 |
| 12721 | 0074 | 00 | 4 | 02326 | 6026 | TSX | UNSAVE,4 | | RDCI0488 |
| 12722 | 0560 | 00 | 0 | 00370 | 6027 | LDQ | \$ZERO | RINGSUM OF NO ARGUMENTS | RDCI0490 |
| 12723 | -0600 | 00 | 0 | 12757 | 6028 | STQ | T1+1 | | RDCI0491 |
| 12724 | 0560 | 00 | 0 | 12751 | 6029 | LDQ | ERS | TRA TO INSTRUCTIONS FOR INNER LOOP | RDCI0492 |
| | | | | | 6030 | * | COMMON PART OF LOGAND, LOGOR, AND LOGXOR | | |
| 12725 | -0600 | 00 | 0 | 12737 | 6031 | LOG2 STQ | LOG5 | | RDCI0494 |
| 12726 | 0634 | 00 | 2 | 12745 | 6032 | SXA | LOG4,2 | SAVE IR2 | RDCI0495 |
| 12727 | -0734 | 00 | 2 | 00000 | 6033 | PDX | ,2 | POINTER TO ARGUMENT LIST | RDCI0496 |

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|-------|------------------|--------|---|--|--|----------|
| | | | 6034 * | FORM THE PROPER LOGICAL COMBINATION OF THE ARGUMENTS | | RDC10497 |
| 12730 | 0500 00 2 00000 | 6035 | LOG1 CLA 0,2 | | | RDC10498 |
| 12731 | -0734 00 2 00000 | 6036 | PDX 0,2 | CDR(L) | | RDC10499 |
| 12732 | 0734 00 4 00000 | 6037 | PAX 0,4 | | | RDC10500 |
| 12733 | -0754 00 4 00000 | 6038 | PXD 0,4 | CAR(L) | | RDC10501 |
| 12734 | 0074 00 4 14342 | 6039 | TSX NUMVAL,4 | GET NUMBER FOR THIS ELEMENT | | RDC10502 |
| 12735 | -0734 00 4 00000 | 6040 | PDX 0,4 | | | RDC10503 |
| 12736 | -0500 00 4 00000 | 6041 | CAL 0,4 | | | RDC10504 |
| 12737 | 0 00000 0 00000 | 6042 | LOG5 ** | INSTRUCTION SET EARLIER | | |
| 12740 | 3 00000 2 12730 | 6043 | TXH LOG1,2,0 | LOOP AGAIN IF CDR(L) NOT NULL | | RDC10506 |
| | | 6044 * | RETURN A POINTER TO THE RESULT | | | RDC10507 |
| 12741 | -0500 00 0 12757 | 6045 | LOG6 CAL T1+1 | PICK UP RESULT | | RDC10508 |
| 12742 | 0560 00 0 00503 | 6046 | LDQ \$OCTD | MAKE AN OBJECT OF IT | | RDCZ0013 |
| 12743 | 0074 00 4 12636 | 6047 | TSX \$MKNO,4 | | | RDC12509 |
| 12744 | -0534 00 4 12756 | 6048 | LXD T1,4 | RESTORE IR4 AND IR2 | | RDC10510 |
| 12745 | 0774 00 2 00000 | 6049 | LOG4 AXT **,2 | | | RDC10511 |
| 12746 | 0020 00 4 00001 | 6050 | TRA 1,4 | | | RDC10512 |
| | | 6051 * | INSTRUCTIONS TO BE INSERTED IN INNER LOOP | | | RDC10513 |
| 12747 | -0602 00 0 12757 | 6052 | ORS ORS T1+1 | | | RDC10514 |
| 12750 | 0320 00 0 12757 | 6053 | ANS ANS T1+1 | | | RDC10515 |
| 12751 | 0020 00 0 12752 | 6054 | ERS TRA ++1 | TRA SINCE ERS TAKES 2 INSTRUCTIONS | | RDC10516 |
| 12752 | 0322 00 0 12757 | 6055 | ERA T1+1 | | | RDC10517 |
| 12753 | 0602 00 0 12757 | 6056 | SLW T1+1 | | | RDC10518 |
| 12754 | 3 00000 2 12730 | 6057 | TXH LOG1,2,0 | | | RDC10519 |
| 12755 | 0020 00 0 12741 | 6058 | TRA LOG6 | | | RDC10520 |
| | | 6059 * | | | | RDC10522 |
| 12756 | -000000000000 | 6060 | T1 OCT -0,-0 | STORAGE FOR LOGAND, ETC. | | |
| 12757 | -000000000000 | | | | | |
| | | 6061 * | THIS ROUTINE USES NUMVAL,\$MKNO,\$ZERO,AND SEVENS | | | RDC10523 |
| | | 6063 * | LEFTSHIFT(X,N) | | | RDC70020 |
| | | 6064 * | | | | RDC70030 |
| | | 6065 * | IF N IS +, X IS SHIFTED LEFT N PLACES. | | | RDC70040 |
| | | 6066 * | IF N IS -, X IS SHIFTED RIGHT -N PLACES. | | | RDC70050 |
| | | 6067 * | BOTH INPUTS MUST BE NUMERICAL OBJECTS. | | | RDC70060 |
| | | 6068 * | | | | RDC70010 |
| 12760 | 0634 00 4 13003 | 6069 | LSHIFT SXA LSH1,4 | SAVE IR4 | | RDC70070 |
| 12761 | 0634 00 2 13002 | 6070 | SXA LSH4,2 | SAVE IR2 | | |
| 12762 | 0601 00 0 12756 | 6071 | STO T2 | SAVE X | | RDC70080 |
| 12763 | 0131 00 0 00000 | 6072 | XCA | | | RDC70090 |
| 12764 | -0734 00 2 00000 | 6073 | PDX 0,2 | FIND VALUE OF N | | |
| 12765 | 0074 00 4 13075 | 6074 | TSX FIXVAL,4 | | | |
| 12766 | 0774 00 4 77100 | 6075 | AXT 7*4096+7*512+1*64,4 | SET UP ARS | | RDC70140 |
| 12767 | -0120 00 0 12771 | 6076 | TMI LSH2 | IF NEGATIVE, SET UP ARS | | RDC70110 |
| 12770 | 0774 00 4 76700 | 6077 | AXT 7*4096+6*512+7*64,4 | SET UP ALS | | RDC70120 |
| 12771 | -0634 00 4 12777 | 6078 | LSH2 SXD LSH3,4 | PUT OP CODE INTO INSTRUCTION | | RDC70150 |
| 12772 | 0621 00 0 12777 | 6079 | STA LSH3 | PUT ADDRESS IN SHIFT INSTRUCTION | | RDC70160 |
| 12773 | 0500 00 0 12756 | 6080 | CLA T2 | FIND VALUE OF X | | RDC70170 |
| 12774 | 0074 00 4 14342 | 6081 | TSX NUMVAL,4 | | | RDC70180 |

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|-------|-------|-------|---|-------|------|--------|--------|---------------|--|----------|
| 12775 | -0734 | 00 | 4 | 00000 | 6082 | | PDX | 0,4 | | RDC70190 |
| 12776 | -0500 | 00 | 4 | 00000 | 6083 | | CAL | 0,4 | | RDC70200 |
| 12777 | 0767 | 00 | 0 | 00000 | 6084 | LSH3 | ALS | ** | THIS INSTRUCTION WAS SET UP EARLIER | RDC70210 |
| 13000 | 0560 | 00 | 0 | 00503 | 6085 | | LDQ | \$OCTD | FORM OCTAL NUMBER | RDC70220 |
| 13001 | 0074 | 00 | 4 | 12636 | 6086 | | TSX | \$MKNO,4 | | RDC70225 |
| 13002 | 0774 | 00 | 2 | 00000 | 6087 | LSH4 | AXT | ** ,2 | RESTORE IR2 | |
| 13003 | 0774 | 00 | 4 | 00000 | 6088 | LSH1 | AXT | ** ,4 | | RDC70230 |
| 13004 | 0020 | 00 | 4 | 00001 | 6089 | | TRA | 1,4 | | RDC70240 |
| | | | | 12756 | 6090 | T2 | SYN | T1 | | RDC70270 |
| | | | | | 6091 | * | | | | RDC70280 |
| | | | | | 6092 | * | | | THIS ROUTINE USES \$MKNO,\$OCTD,AND NUMVAL | RDC70290 |
| | | | | | 6093 | Q | HED | | | RDCX0119 |
| | | | | | 6094 | * | | | | 6880 |
| | | | | | 6095 | * | | | | 1.5N3890 |
| | | | | | 6096 | * | ARYGET | | THE FUNCTION THAT GETS AND SETS THE VALUES OF ARRAYS | 1.5N3900 |
| | | | | | 6097 | * | | | USED IN LISP AS FOLLOWS ... | 1.5N3910 |
| | | | | | 6098 | * | | | TO GET A VALUE (NAME,D1,D2,D3) | 1.5N3920 |
| | | | | | 6099 | * | | | TO SET A VALUE (NAME,SET,VALUE,D1,D2,D3) | 1.5N3930 |
| | | | | | 6100 | * | | | | 1.5N3940 |
| | | | | | 6101 | * | | | THE CALLING SEQUENCE IS AS FOLLOWS | 1.5N3950 |
| | | | | | 6102 | * | SXA | ARYGTX,4 | | 1.5N3960 |
| | | | | | 6103 | * | TSX | ARYGET,4 | | 1.5N3970 |
| | | | | | 6104 | * | PZE | | LOCATION OF TABLE 1,,NUMBER OF DIMENSIONS | 1.5N3980 |
| | | | | | 6105 | * | | | | 1.5N3990 |
| 13005 | 0634 | 00 | 2 | 13044 | 6106 | ARYGET | SXA | ARYY,2 | SAVE INDEX REGISTERS | 1.5N4000 |
| 13006 | 0634 | 00 | 1 | 13045 | 6107 | | SXA | ARYZ,1 | | 1.5N4010 |
| 13007 | 0601 | 00 | 0 | 13072 | 6108 | | STO | AGAO | SAVE ARGUMENT 1 | 1.5N4020 |
| 13010 | 0500 | 00 | 4 | 00003 | 6109 | | CLA | 3,4 | TABLE ZERO PARAMETER WORD | 1.5N4030 |
| 13011 | 0621 | 00 | 0 | 13042 | 6110 | | STA | AGXEX | ADDRESS OF END OF TABLE 1 | 1.5N4040 |
| 13012 | -0734 | 00 | 2 | 00000 | 6111 | | PDX | 0,2 | NUMBER OF DIMENSIONS | 1.5N4050 |
| 13013 | -0600 | 00 | 0 | 13073 | 6112 | | STQ | AGAT | ARG 2 | 1.5N4060 |
| 13014 | 0500 | 00 | 0 | 03321 | 6113 | | CLA | \$ARG3 | | 1.5N4070 |
| 13015 | 0601 | 00 | 0 | 13074 | 6114 | | STO | AGATH | ARGUMENT 3 | 1.5N4080 |
| 13016 | 0500 | 00 | 0 | 13070 | 6115 | | CLA | AX | XEC INSTRUCTION | 1.5N4090 |
| 13017 | -0534 | 00 | 4 | 13072 | 6116 | | LXD | AGAC,4 | GET ARG 1 | 1.5N4100 |
| 13020 | -3 | 07031 | 4 | 13032 | 6117 | | TXL | AGN,4,\$SET-1 | TEST FOR SET OPERATION | 1.5N4110 |
| 13021 | 3 | 07032 | 4 | 13032 | 6118 | | TXH | AGN,4,\$SET | GO ON IF NOT \$SET | 1.5N4120 |
| 13022 | -0600 | 00 | 0 | 13071 | 6119 | | STQ | AGV | IS SET SAVE VALUE | 1.5N4130 |
| 13023 | 0500 | 00 | 0 | 03321 | 6120 | | CLA | \$ARG3 | | 1.5N4140 |
| 13024 | 0601 | 00 | 0 | 13072 | 6121 | | STO | AGAO | DIMENSION 1 | 1.5N4150 |
| 13025 | 0500 | 00 | 0 | 03322 | 6122 | | CLA | \$ARG4 | | 1.5N4160 |
| 13026 | 0601 | 00 | 0 | 13073 | 6123 | | STO | AGAT | DIMENSION 2 | 1.5N4170 |
| 13027 | 0500 | 00 | 0 | 03323 | 6124 | | CLA | \$ARG5 | | 1.5N4180 |
| 13030 | 0601 | 00 | 0 | 13074 | 6125 | | STO | AGATH | DIMENSION 3 | 1.5N4190 |
| 13031 | 0500 | 00 | 0 | 13067 | 6126 | | CLA | AXS | XEC* INSTRUCTION | 1.5N4200 |
| 13032 | 0622 | 00 | 0 | 13042 | 6127 | AGN | STD | AGXEX | SET UP FETCH OR STORE INSTUCTION | 1.5N4210 |
| 13033 | 3 | 00002 | 2 | 13047 | 6128 | | TXH | AGDTH,2,2 | GO IF 3 D ARRAY | 1.5N4220 |
| 13034 | 3 | 00001 | 2 | 13056 | 6129 | | TXH | AGDT,2,1 | GO IF 2 D ARRAY | 1.5N4230 |
| 13035 | -0534 | 00 | 2 | 13072 | 6130 | | LXD | AGAO,2 | DIMENSION 1 | 1.5N4240 |
| 13036 | 0074 | 00 | 4 | 13075 | 6131 | | TSX | FIXVAL,4 | EVALUATE THE FIXED POINT NUMBER | 1.5N4250 |
| 13037 | 0734 | 00 | 1 | 00000 | 6132 | | PAX | 0,1 | INTO PROPER INDEX | 1.5N4260 |
| 13040 | 0774 | 00 | 6 | 00000 | 6133 | | AXT | 0,6 | ZERO INDEX REGISTERS | 1.5N4270 |
| 13041 | 0500 | 00 | 0 | 13071 | 6134 | AGXE | CLA | AGV | GET THE VALUE | 1.5N4280 |
| 13042 | 0522 | 00 | 4 | 00000 | 6135 | AGXEX | XEC | ** ,4 | FETCH BY XEC OR STORE BY XEC* | 1.5N4290 |

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|---|-------|--------------|-------|---|-------|------|--------|---|---------------|---|----------|
| | 13043 | 0774 | 00 | 4 | 00000 | 6136 | ARYGTX | AXT | ** , 4 | RESTORE INDEX REGISTERS | 1.5N4300 |
| | 13044 | 0774 | 00 | 2 | 00000 | 6137 | ARYY | AXT | ** , 2 | | 1.5N4310 |
| | 13045 | 0774 | 00 | 1 | 00000 | 6138 | ARYZ | AXT | ** , 1 | | 1.5N4320 |
| | 13046 | 0020 | 00 | 4 | 00001 | 6139 | TRA | | 1 , 4 | | 1.5N4330 |
| | | | | | | 6140 | * | | | | 1.5N4340 |
| | 13047 | -0534 | 00 | 2 | 13074 | 6141 | AGDTH | LXD | AGATH , 2 | DIMENSION 3 | 1.5N4350 |
| | 13050 | 0074 | 00 | 4 | 13075 | 6142 | TSX | | FIXVAL , 4 | EVALUATE AS A FIXED POINT NUMBER | 1.5N4360 |
| | 13051 | 0734 | 00 | 1 | 00000 | 6143 | PAX | | 0 , 1 | INTO INDEX | 1.5N4370 |
| | 13052 | -0534 | 00 | 2 | 13072 | 6144 | LXD | | AGAC , 2 | DIMENSION 1 | 1.5N4380 |
| | 13053 | 0074 | 00 | 4 | 13075 | 6145 | TSX | | FIXVAL , 4 | EVALUATE IT | 1.5N4390 |
| | 13054 | 0621 | 00 | 0 | 13065 | 6146 | STA | | AGR | SET UP AXT INSTRUCTION | 1.5N4400 |
| | 13055 | 0020 | 00 | 0 | 13062 | 6147 | TRA | | AGD | GO EVALUTE DIMENSUON 2 | 1.5N4410 |
| | | | | | | 6148 | * | | | | 1.5N4420 |
| | 13056 | 0634 | 00 | 0 | 13065 | 6149 | AGDT | SXA | AGR , 0 | PRESET AXT INSTRUCTION | 1.5N4430 |
| | 13057 | -0534 | 00 | 2 | 13072 | 6150 | LXD | | AGAC , 2 | DIMENSION 1 | 1.5N4440 |
| | 13060 | 0074 | 00 | 4 | 13075 | 6151 | TSX | | FIXVAL , 4 | FIXED POINT NUMBER EVALUATION | 1.5N4450 |
| | 13061 | 0734 | 00 | 1 | 00000 | 6152 | PAX | | 0 , 1 | INTO INDEX 1 | 1.5N4460 |
| | 13062 | -0534 | 00 | 2 | 13073 | 6153 | AGD | LXD | AGAT , 2 | DIMENSION 2 | 1.5N4470 |
| | 13063 | 0074 | 00 | 4 | 13075 | 6154 | TSX | | FIXVAL , 4 | FIXED POINT NUMBER EVALUATION | 1.5N4480 |
| | 13064 | 0734 | 00 | 2 | 00000 | 6155 | PAX | | 0 , 2 | INTO INDEX 2 | 1.5N4490 |
| | 13065 | 0774 | 00 | 4 | 00000 | 6156 | AGR | AXT | ** , 4 | ZERO OR DIMENSION 1 | 1.5N4500 |
| | 13066 | 0020 | 00 | 0 | 13041 | 6157 | TRA | | AGXE | GO BACK TO MAIN PROGRAM | |
| | | | | | | 6158 | * | | | | 1.5N4520 |
| A | 13067 | 0522 | 60 | 0 | 00000 | 6159 | AXS | XEC* | | THE STORE INSTRUCTION | 1.5N4530 |
| A | 13070 | 0522 | 00 | 0 | 00000 | 6160 | AX | XEC | | THE FETCH INSTRUCTION | 1.5N4540 |
| | 13071 | 0 | 00000 | 0 | 00000 | 6161 | AGV | | | VALUE TO BE STORED PUT HERE | 1.5N4550 |
| | 13072 | 0 | 00000 | 0 | 00000 | 6162 | AGAO | | | DIMENSION 1 | 1.5N4560 |
| | 13073 | 0 | 00000 | 0 | 00000 | 6163 | AGAT | | | DIMENSION 2 | 1.5N4570 |
| | 13074 | 0 | 00000 | 0 | 00000 | 6164 | AGATH | | | DIMENSION 3 | 1.5N4580 |
| | | | | | | 6165 | * | | | | 1.5N4590 |
| | | | | | | 6166 | * | FIXVAL | | | |
| | | | | | | 6167 | * | | | | |
| | | | | | | 6168 | * | FIXVAL HAS AS INPUT A POINTER TO A FIXED POINT NUMBER OBJECT IN | | | |
| | | | | | | 6169 | * | IR2, AND HANDS BACK THE NUMERICAL VALUE OF THAT OBJECT. | | | |
| | | | | | | 6170 | * | | | | |
| | 13075 | 0634 | 00 | 2 | 13106 | 6171 | FIXVAL | SXA | FXVE , 2 | SAVE IR2 IN CASE OF ERROR | |
| | 13076 | 0500 | 00 | 2 | 00000 | 6172 | CLA | | 0 , 2 | | |
| | 13077 | 0734 | 00 | 2 | 00000 | 6173 | PAX | | 0 , 2 | | |
| | 13100 | -3 | 77776 | 2 | 13106 | 6174 | TXL | | FXVE , 2 , -2 | ERROR IF NOT ATOMIC | |
| | 13101 | -0734 | 00 | 2 | 00000 | 6175 | PDX | | 0 , 2 | | |
| | 13102 | -0320 | 00 | 0 | 00436 | 6176 | ANA | | \$QT1 | | |
| | 13103 | 0100 | 00 | 0 | 13106 | 6177 | TZE | | FXVE | | |
| | 13104 | 0500 | 00 | 2 | 00000 | 6178 | CLA | | 0 , 2 | PICK UP VALUE | |
| | 13105 | 0020 | 00 | 4 | 00001 | 6179 | TRA | | 1 , 4 | NORMAL EXIT | |
| | 13106 | 0774 | 00 | 2 | 00000 | 6180 | FXVE | AXT | ** , 2 | IR2 SHOULD LAND IN DECR. OF AC | |
| | 13107 | -0634 | 00 | 4 | 01562 | 6181 | SXD | | \$ERROR , 4 | | |
| | 13110 | -0754 | 00 | 2 | 00000 | 6182 | PXD | | 0 , 2 | IT DOES INDEED LAND THERE | |
| | 13111 | 0074 | 00 | 4 | 01563 | 6183 | TSX | | \$ERROR+1 , 4 | | |
| | 13112 | 543160600454 | | | | 6184 | BCI | | 1 , *1 4* | BAD ARGUMENT -- FIXVAL | |
| | | | | | | 6185 | * | | | | |
| | | | | | | 6186 | * | | | | 1.5N4600 |
| | | | | | | 6187 | * | ARYMAK | | THE FUNCTION THAT MAKES ARRAYS | 1.5N4610 |
| | | | | | | 6188 | * | | | THE ARGUMENT IS A SINGLE LIST WHOSE SUB-LISTS HAVE THE | 1.5N4620 |
| | | | | | | 6189 | * | | | FORM (NAME, (DIMENSION1, DIMENSION2, DIMENSION3), TYPE) | 1.5N4630 |

| | | | | | | | | | |
|--|-------|-------|---------|-------|--------|------------|--|--|----------|
| | | | | | 6190 * | | ARRAYS MAY BE 1, 2, OR 3 DIMENSIONAL AND MAY BE OF LIST OR | 1.5N4640 | |
| | | | | | 6191 * | | NON-LIST TYPE. | 1.5N4650 | |
| | | | | | 6192 * | | | 1.5N4660 | |
| | | | | | 6193 * | | ARRAY IS STORED AS FOLLOWS ... | 1.5N4670 | |
| | | | | | 6194 * | SXA | ARTGTX,4 ADDRESS OF SUBR TXL INSTRUCTION | 1.5N4680 | |
| | | | | | 6195 * | TSX | ARYGET,4 | 1.5N4690 | |
| | | | | | 6196 * | PZE | END + 1,, N OF DIMENSIONS (ARRAY PROPERTY POINTS HERE) | 1.5N4700 | |
| | | | | | 6197 * | PZE | TOTAL LENGTH,,LIST LENGTH | 1.5N4710 | |
| | | | | | 6198 * | PZE | TABLE ZERO,, NUMBER OF DIMENSIONS (ARYGET PARAMETER WORD) | 1.5N4720 | |
| | | | | | 6199 * | CLA* | **,,2 TABLE 1 | 1.5N4730 | |
| | | | | | 6200 * | | ***** | 1.5N4740 | |
| | | | | | 6201 * | STO | **,,1 TABLE 2 | 1.5N4750 | |
| | | | | | 6202 * | | ***** | 1.5N4760 | |
| | | | | | 6203 * | | ARRAY PROPER GOES HERE | 1.5N4770 | |
| | | | | | 6204 * | | | 1.5N4780 | |
| | 13113 | 0560 | 00 0 | 13115 | 6205 | ARYMAK LDQ | AMFAG | PICK UP FUNCTIONAL ARGUMENT | 1.5N4790 |
| | 13114 | 0020 | 00 0 | 04214 | 6206 | TRA | MAPLIS | LET MAPLIST HANDLE ITERATION ALONG LIS | 1.5N4800 |
| | | | | | 6207 * | | | 1.5N4810 | |
| | 13115 | -3 | 00001 0 | 13116 | 6208 | AMFAG TXL | **+1,,1 | FUNCTIONAL ARGUMENT | 1.5N4820 |
| | 13116 | 0634 | 00 4 | 13320 | 6209 | SXA | AFRX,4 | SAVE INDEX REGISTERS | 1.5N4830 |
| | 13117 | 0634 | 00 2 | 13321 | 6210 | SXA | AFRY,2 | | 1.5N4840 |
| | 13120 | -0734 | 00 4 | 00000 | 6211 | PDX | 0,4 | POINTER TO LIST | 1.5N4850 |
| | 13121 | 0500 | 00 4 | 00000 | 6212 | CLA | 0,4 | | 1.5N4860 |
| | 13122 | 0734 | 00 4 | 00000 | 6213 | PAX | 0,4 | POINTER TO SUBLIST | 1.5N4870 |
| | 13123 | -0500 | 00 4 | 00000 | 6214 | CAL | 0,4 | | 1.5N4880 |
| | 13124 | 0734 | 00 4 | 00000 | 6215 | PAX | 0,4 | NAME | 1.5N4890 |
| | 13125 | -0634 | 00 4 | 03504 | 6216 | SXD | AFAT,4 | SAVE IT | 1.5N4900 |
| | 13126 | -0734 | 00 4 | 00000 | 6217 | PDX | 0,4 | | 1.5N4910 |
| | 13127 | 0500 | 00 4 | 00000 | 6218 | CLA | 0,4 | | 1.5N4920 |
| | 13130 | 0734 | 00 2 | 00000 | 6219 | PAX | 0,2 | POINTER TO DIMENSION LIST | 1.5N4930 |
| | 13131 | -0734 | 00 4 | 00000 | 6220 | PDX | 0,4 | | 1.5N4940 |
| | 13132 | 0500 | 00 4 | 00000 | 6221 | CLA | 0,4 | | 1.5N4950 |
| | 13133 | 0734 | 00 4 | 00000 | 6222 | PAX | 0,4 | TYPE | 1.5N4960 |
| | 13134 | 0600 | 00 0 | 13336 | 6223 | STZ | ATYP | | 1.5N4970 |
| | 13135 | -3 | 07735 4 | 13140 | 6224 | TXL | ADA,4,\$LIST-1 | GO IF NOT \$ LIST | 1.5N4990 |
| | 13136 | 3 | 07736 4 | 13140 | 6225 | TXH | ADA,4,\$LIST | | 1.5N5000 |
| | 13137 | -0634 | 00 4 | 13336 | 6226 | SXD | ATYP,4 | MAKES ATYP NON-ZERO FOR LIST ARRAYS | 1.5N5010 |
| | 13140 | 0500 | 00 2 | 00000 | 6227 | ADA | CLA | FIRST WORD ON DIMENSION LIST | 1.5N5020 |
| | 13141 | 0734 | 00 2 | 00000 | 6228 | PAX | 0,2 | DIMENSION 1 | 1.5N5030 |
| | 13142 | 0622 | 00 0 | 03505 | 6229 | STD | ATMP | POINTER TO REST | 1.5N5040 |
| | 13143 | 0074 | 00 4 | 13075 | 6230 | TSX | FIXVAL,4 | EVALUATE THE FIXED POINT NUMBER | 1.5N5050 |
| | 13144 | 0601 | 00 0 | 13340 | 6231 | STO | ADD | DIMENSION 1 | 1.5N5060 |
| | 13145 | -0534 | 00 4 | 03505 | 6232 | LXD | ATMP,4 | PICK UP POINTER TO REST OF LIST | 1.5N5070 |
| | 13146 | -3 | 00000 4 | 13164 | 6233 | TXL | ADD,4,0 | GO IF 1 0 | 1.5N5080 |
| | 13147 | 0500 | 00 4 | 00000 | 6234 | CLA | 0,4 | NEXT WORD | 1.5N5090 |
| | 13150 | 0622 | 00 0 | 03505 | 6235 | STD | ATMP | SAVE POINTER | 1.5N5100 |
| | 13151 | 0734 | 00 2 | 00000 | 6236 | PAX | 0,2 | DIMENSION 2 | 1.5N5110 |
| | 13152 | 0074 | 00 4 | 13075 | 6237 | TSX | FIXVAL,4 | GET NUMBER VALUE | 1.5N5120 |
| | 13153 | 0601 | 00 0 | 13341 | 6238 | STO | ADT | DIMENSION 2 | 1.5N5130 |
| | 13154 | -0534 | 00 4 | 03505 | 6239 | LXD | ATMP,4 | POINTER TO REST OF LIST | 1.5N5140 |
| | 13155 | -3 | 00000 4 | 13173 | 6240 | TXL | ATD,4,0 | GO IF 2 0 ARRAY | 1.5N5150 |
| | 13156 | 0500 | 00 4 | 00000 | 6241 | CLA | 0,4 | | 1.5N5160 |
| | 13157 | 0734 | 00 2 | 00000 | 6242 | PAX | 0,2 | DIMENSION 3 | 1.5N5170 |
| | 13160 | 0074 | 00 4 | 13075 | 6243 | TSX | FIXVAL,4 | NUMBER VALUE | 1.5N5180 |

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|-------|---------|----|-------|-------|------|----------|----------|-----------------------------------|----------|
| 13161 | 0601 | 00 | 0 | 13342 | 6244 | STO | ADTH | DIMENSION 3 | 1.5N5190 |
| 13162 | 0774 | 00 | 2 | 00003 | 6245 | AXT | 3,2 | NUMBER OF DIMENSIONS | 1.5N5200 |
| 13163 | 0020 | 00 | 0 | 13177 | 6246 | TRA | AGA | GO TO NEXT PART OF PROGRAM | 1.5N5210 |
| 13164 | 0500 | 00 | 0 | 13340 | 6247 | ADD | CLA | ID, TREAT AS A 1 X 1 X D1 ARRAY | 1.5N5220 |
| 13165 | 0601 | 00 | 0 | 13342 | 6248 | STO | ADTH | | 1.5N5230 |
| 13166 | 0500 | 00 | 0 | 00371 | 6249 | CLA | \$Q1 | | 1.5N5240 |
| 13167 | 0601 | 00 | 0 | 13341 | 6250 | STO | ADT | DIMENSION 2 | 1.5N5250 |
| 13170 | 0601 | 00 | 0 | 13340 | 6251 | STO | ADD | DIMENSION 1 | 1.5N5260 |
| 13171 | 0774 | 00 | 2 | 00001 | 6252 | AXT | 1,2 | 1 D ARRAY | 1.5N5270 |
| 13172 | 0020 | 00 | 0 | 13177 | 6253 | TRA | AGA | GO NEXT PART | 1.5N5280 |
| 13173 | 0500 | 00 | 0 | 13340 | 6254 | ATD | CLA | 2 D, TREAT AS A 1 X D2 X D1 ARRAY | 1.5N5290 |
| 13174 | 0500 | 00 | 0 | 00371 | 6255 | CLA | \$Q1 | | 1.5N5300 |
| 13175 | 0601 | 00 | 0 | 13340 | 6256 | STO | ADD | DIMENSION 1 | 1.5N5310 |
| 13176 | 0774 | 00 | 2 | 00002 | 6257 | AXT | 2,2 | 2 D ARRAY | 1.5N5320 |
| 13177 | 0560 | 00 | 0 | 13340 | 6258 | AGA | LDQ | DIMENSION 1 | 1.5N5330 |
| 13200 | -0754 | 00 | 0 | 00000 | 6259 | PXD | 0,0 | ZERO AC | 1.5N5340 |
| 13201 | 0200 | 00 | 0 | 13341 | 6260 | MPY | ADT | DIMENSION 2 | 1.5N5350 |
| 13202 | -0600 | 00 | 0 | 13335 | 6261 | STQ | ADOT | D1 X D2 | 1.5N5360 |
| 13203 | 0200 | 00 | 0 | 13342 | 6262 | MPY | ADTH | DIMENSION 3 | 1.5N5370 |
| 13204 | 0520 | 00 | 0 | 13336 | 6263 | ZET | ATYP | SKIP NEXT IF NON-LIST ARRAY | 1.5N5380 |
| 13205 | -0600 | 00 | 0 | 13336 | 6264 | STQ | ATYP | LIST LENGHT | 1.5N5390 |
| 13206 | 0131 | 00 | 0 | 00000 | 6265 | XCA | | D1 X D2 X D3 TO AC | 1.5N5400 |
| 13207 | 0400 | 00 | 0 | 13335 | 6266 | ADD | ADOT | ADD INDEX TABLE LENGTHS | 1.5N5410 |
| 13210 | 0400 | 00 | 0 | 13340 | 6267 | ADD | ADD | | 1.5N5420 |
| 13211 | 0400 | 00 | 0 | 00375 | 6268 | ADD | \$Q5 | CONSTANT LENGTH | 1.5N5430 |
| 13212 | 0621 | 00 | 0 | 13333 | 6269 | STA | APWT | PARAMETER WORD TWO | 1.5N5440 |
| 13213 | 0621 | 00 | 0 | 13337 | 6270 | STA | ATMQ | SAVE LENGTH | 1.5N5450 |
| 13214 | 0534 | 00 | 4 | 13336 | 6271 | LXA | ATYP,4 | ZERO OR LIST LENGTH | 1.5N5460 |
| 13215 | 0634 | 00 | 4 | 13333 | 6272 | SXA | APWT,4 | PARAMETER WORD 2 | 1.5N5470 |
| 13216 | 0074 | 00 | 4 | 04004 | 6273 | TSX | BLOCKR,4 | RESERVE A BLOCK OF THIS LENGTH | 1.5N5480 |
| 13217 | 0100 | 00 | 0 | 13323 | 6274 | TZE | ARYTL | GO IF ARRAY WILL NOT FIT | 1.5N5490 |
| 13220 | 0621 | 00 | 0 | 03505 | 6275 | STA | ATMP | END OF BLOCK ADDRESS | 1.5N5500 |
| 13221 | 0400 | 00 | 0 | 00371 | 6276 | ADD | \$Q1 | ADD 1 | 1.5N5510 |
| 13222 | 0621 | 00 | 0 | 13332 | 6277 | STA | APWC | PARAMETER WORD 1 | 1.5N5520 |
| 13223 | -0634 | 00 | 2 | 13334 | 6278 | SXD | ATBZ,2 | NUMBER OF DIMENSIONS | 1.5N5540 |
| 13224 | -0634 | 00 | 2 | 13332 | 6279 | SXD | APWC,2 | | 1.5N5550 |
| 13225 | -0634 | 00 | 2 | 13343 | 6280 | SXD | ASBR,2 | | 1.5N5560 |
| 13226 | 0402 | 00 | 0 | 13337 | 6281 | SUB | ATMQ | LENGTH OF BLOCK | 1.5N5570 |
| 13227 | 0621 | 00 | 0 | 13343 | 6282 | STA | ASBR | ADDRESS OF BEGINNING OG BLOCK | 1.5N5580 |
| 13230 | 0737 | 00 | 4 | 00000 | 6283 | PAC | 0,4 | POINTER IN IR 4 | 1.5N5590 |
| 13231 | 1 77776 | 4 | 13232 | 6284 | TXI | **1,4,-2 | | POINTER TO ARRAY PROPERTY | 1.5N5600 |
| 13232 | -0634 | 00 | 4 | 13344 | 6285 | SXD | AARY,4 | SAVE POINTER | 1.5N5610 |
| 13233 | 0737 | 00 | 4 | 00000 | 6286 | PAC | 0,4 | POINTER TO BEGINNING OF ARRAY | 1.5N5620 |
| 13234 | 0400 | 00 | 0 | 00374 | 6287 | ADD | \$Q4 | LENGTH OF PREFIX - 1 | |
| 13235 | 0400 | 00 | 0 | 13340 | 6288 | ADD | ADD | | 1.5N5640 |
| 13236 | 0621 | 00 | 0 | 13334 | 6289 | STA | ATBZ | LAST LOC. IN TABLE ONE | 1.5N5650 |
| 13237 | 0774 | 00 | 2 | 00005 | 6290 | AXT | 5,2 | LENGTH OF PREFIX TO ARRAY | 1.5N5660 |
| 13240 | 0500 | 00 | 2 | 13335 | 6291 | ACLA | CLA | PICK UP PREFIX | 1.5N5670 |
| 13241 | 0601 | 00 | 4 | 00000 | 6292 | STO | 0,4 | AND STORE IN CORE | 1.5N5680 |
| 13242 | 1 77777 | 4 | 13243 | 6293 | TXI | **1,4,-1 | | UPDTAEC CORE LOCATION | 1.5N5690 |
| 13243 | 2 00001 | 2 | 13240 | 6294 | TIX | ACLA,2,1 | GET | REST OF PREFIX | |
| 13244 | -0320 | 00 | 0 | 00457 | 6295 | ANA | \$AMASK | TABLE ZERO IN AC | 1.5N5710 |
| 13245 | -0501 | 00 | 0 | 13345 | 6296 | ORA | ACLAS | OR IN CLA* INSTRUCTION | 1.5N5720 |
| 13246 | 0534 | 00 | 2 | 13340 | 6297 | LXA | ADD,2 | LENGTH OF TABLE | 1.5N5730 |

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|-------|--------------|-------|---|-------|------|-------|-----|-------------|---|----------|
| 13247 | 0400 | 00 | 0 | 13341 | 6298 | AADD | ADD | ADT | INCREMENT BY DIMENSION 2 | 1.5N5740 |
| 13250 | 0601 | 00 | 4 | 00000 | 6299 | | STO | 0,4 | PUT IN CORE | 1.5N5750 |
| 13251 | 1 | 77777 | 4 | 13252 | 6300 | | TXI | **1,4,-1 | UP DATE CORE COUNTER | 1.5N5760 |
| 13252 | 2 | 00001 | 2 | 13247 | 6301 | | FIX | AADD,2,1 | FINISH OFF | 1.5N5770 |
| 13253 | 0534 | 00 | 2 | 13335 | 6302 | | LXA | ADOT,2 | LENGTH OF TABLE 2 | 1.5N5780 |
| 13254 | -0320 | 00 | 0 | 00457 | 6303 | | ANA | \$AMASK | CLEAR OUT ALL BUT ADDRESS | 1.5N5790 |
| 13255 | -0501 | 00 | 0 | 13346 | 6304 | | DRA | ARSTO | PUT INSTRUCTION | |
| 13256 | 0400 | 00 | 0 | 13342 | 6305 | AAA | ADD | ADTH | ADD DIMENSION 3 | 1.5N5800 |
| 13257 | 0601 | 00 | 4 | 00000 | 6306 | | STO | 0,4 | PUT IN CORE | 1.5N5810 |
| 13260 | 1 | 77777 | 4 | 13261 | 6307 | | TXI | **1,4,-1 | UPDATE CORE COUNTER | 1.5N5820 |
| 13261 | 2 | 00001 | 2 | 13256 | 6308 | | TIX | AAA,2,1 | CONTINUE TO CONSTRUCT TABLE | 1.5N5830 |
| | | | | | 6309 | * | | | TABLE CONSTRUCTION ALL DONE. | 1.5N5840 |
| | | | | | 6310 | * | | | THE FOLLOWING ADDS PROPERTYS TO THE ARYATOM | 1.5N5850 |
| 13262 | 0500 | 00 | 0 | 13344 | 6311 | | CLA | AARY | PICK UP POINTER TO TO ARRAY PROPERTY | 1.5N5860 |
| 13263 | 0560 | 00 | 0 | 00370 | 6312 | | LDQ | \$ZERO | | 1.5N5870 |
| 13264 | 0074 | 00 | 4 | 03730 | 6313 | | TSX | \$CONS,4 | | 1.5N5880 |
| 13265 | 0560 | 00 | 0 | 00370 | 6314 | | LDQ | \$ZERO | | 1.5N5890 |
| 13266 | 0074 | 00 | 4 | 03730 | 6315 | | TSX | \$CONS,4 | | 1.5N5900 |
| 13267 | 0131 | 00 | 0 | 00000 | 6316 | | XCA | | | 1.5N5910 |
| 13270 | 0500 | 00 | 0 | 13347 | 6317 | | CLA | ARY | POINTER TO ATOMIC SYMBOL ARRAY | 1.5N5920 |
| 13271 | 0074 | 00 | 4 | 03730 | 6318 | | TSX | \$CONS,4 | (ARRAY,(POINTER TO ARRAY PROPERTY)) | 1.5N5930 |
| 13272 | 0601 | 00 | 0 | 03505 | 6319 | | STO | ATMP | SAVE IN TEMP STORAGE | 1.5N5940 |
| 13273 | 0500 | 00 | 0 | 13343 | 6320 | | CLA | ASBR | TXL INSTRUCTIONM | 1.5N5950 |
| 13274 | 0074 | 00 | 4 | 03710 | 6321 | | TSX | \$CONSW,4 | PUT IN FULL WORD SPACE | 1.5N5960 |
| 13275 | 0560 | 00 | 0 | 03505 | 6322 | | LDQ | ATMP | REST OF PROPERTIES | 1.5N5970 |
| 13276 | 0074 | 00 | 4 | 03730 | 6323 | | TSX | \$CONS,4 | | 1.5N5980 |
| 13277 | 0131 | 00 | 0 | 00000 | 6324 | | XCA | | | 1.5N5990 |
| 13300 | 0500 | 00 | 0 | 00506 | 6325 | | CLA | ASB | POINTER TO \$SUBR ATOMIC SYMBOL | 1.5N6000 |
| 13301 | 0074 | 00 | 4 | 03730 | 6326 | | TSX | \$CONS,4 | | 1.5N6010 |
| 13302 | 0131 | 00 | 0 | 00000 | 6327 | | XCA | | SAVE IN MQ | 1.5N6020 |
| 13303 | -0534 | 00 | 4 | 03504 | 6328 | | LXD | AFAT,4 | POINTER TO NAME | 1.5N6030 |
| 13304 | 0500 | 00 | 4 | 00000 | 6329 | | CLA | 0,4 | FIRST WORD | 1.5N6040 |
| 13305 | -0734 | 00 | 4 | 00000 | 6330 | | PDX | 0,4 | SAVE POINTER TO REST | 1.5N6050 |
| 13306 | -0754 | 00 | 4 | 00000 | 6331 | | PXD | 0,4 | PUT IN AC | 1.5N6060 |
| 13307 | 0131 | 00 | 0 | 00000 | 6332 | | XCA | | INTER CHANGE AC AND MQ | 1.5N6070 |
| 13310 | 0074 | 00 | 4 | 07675 | 6333 | | TSX | \$NCONC,4 | SPLICE 2 LISTS TOGETHER | 1.5N6080 |
| 13311 | -0534 | 00 | 4 | 03504 | 6334 | | LXD | AFAT,4 | POINTER TO FIRST WORD ON PROPERTY LIST | 1.5N6090 |
| 13312 | 0622 | 00 | 4 | 00000 | 6335 | | STD | 0,4 | REPLACE DECREMENT OPERATION | 1.5N6100 |
| 13313 | -0754 | 00 | 4 | 00000 | 6336 | | PXD | 0,4 | POINTER TO ARRY ATOM | 1.5N6110 |
| 13314 | 0560 | 00 | 0 | 03305 | 6337 | | LDQ | ARYLIS | PICK UP ARRAY LIST | 1.5N6120 |
| 13315 | 0074 | 00 | 4 | 03730 | 6338 | | TSX | \$CONS,4 | PUT ON AS ACTIVE ARRAY | 1.5N6130 |
| 13316 | 0622 | 00 | 4 | 03305 | 6339 | | STD | ARYLIS | UPDATE ARRAY LIST | 1.5N6140 |
| 13317 | 0500 | 00 | 0 | 03504 | 6340 | | CLA | AFAT | FINAL ANSWER | 1.5N6150 |
| 13320 | 0774 | 00 | 4 | 00000 | 6341 | AFRX | AXT | ** ,4 | RESTORE INDEX REGISTERS | 1.5N6160 |
| 13321 | 0774 | 00 | 2 | 00000 | 6342 | AFRY | AXT | ** ,2 | | 1.5N6170 |
| 13322 | 0020 | 00 | 4 | 00001 | 6343 | | TRA | 1,4 | EXIT | 1.5N6180 |
| | | | | | 6344 | * | | | | 1.5N6190 |
| 13323 | -0634 | 00 | 4 | 01562 | 6345 | ARYTL | SXD | \$ERROR,4 | SAVE INDEX 4 | 1.5N6200 |
| 13324 | 0534 | 00 | 2 | 13321 | 6346 | | LXA | AFRY,2 | RESTORE INDEX 2 | 1.5N6210 |
| 13325 | 0500 | 00 | 0 | 03504 | 6347 | | CLA | AFAT | ARRAY NAME | 1.5N6220 |
| 13326 | 0074 | 00 | 4 | 01563 | 6348 | | TSX | \$ERROR+1,4 | GO TO ERROR | 1.5N6230 |
| 13327 | 543160600154 | | | | 6349 | | BCI | 1,*I 1* | NOT ENOUGH ROOM FOR ARRAY | |
| | | | | | 6350 | * | | | CONSTANTS AND STORAGE | 1.5N6280 |
| 13330 | 0634 | 00 | 4 | 13043 | 6351 | | SXA | ARYGTX,4 | 5 WORD PREFIX TO ARRAYS | 1.5N6290 |

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|-------|------------------|---------------|------------|---|------------------------------------|----------|
| 13331 | 0074 00 4 13005 | 6352 | TSX | ARYGET,4 | | 1.5N6300 |
| 13332 | 0 00000 0 00000 | 6353 | APWD | | END+1,,N OF D | 1.5N6310 |
| 13333 | 0 00000 0 00000 | 6354 | APWT | | LENGTH,,LIST LENGTH | 1.5N6320 |
| 13334 | 0 00000 0 00000 | 6355 | ATBZ | | TABLE ZERO,, N OF D | 1.5N6330 |
| 13335 | 0 00000 0 00000 | 6356 | ADGT | | D1 X D2 | 1.5N6340 |
| 13336 | 0 00000 0 00000 | 6357 | ATYP | | ZERO OR LIST LENGTH | 1.5N6360 |
| 13337 | 0 00000 0 00000 | 6358 | ATMQ | | TEMPORARY STORAGE | |
| 13340 | 0 00000 0 00000 | 6359 | ADD | | D1 | 1.5N6390 |
| 13341 | 0 00000 0 00000 | 6360 | ADT | | D2 | 1.5N6400 |
| 13342 | 0 00000 0 00000 | 6361 | ADTH | | D3 | 1.5N6410 |
| 13343 | -3 00000 0 00000 | 6362 | ASBR TXL | **,,** | | |
| 13344 | 0 00000 0 00000 | 6363 | AARY | | POINTER TO ARRAY PROPERTY | |
| 13345 | 0500 60 2 00000 | 6364 | ACLAS CLA* | **,2 | FETCH INSTRUCTION | |
| 13346 | 0601 00 1 00000 | 6365 | ARSTO STD | **,1 | PUT INSTRUCTION | |
| 13347 | 0 10735 0 00000 | 6366 | ARY | ,\$ARRAY | | |
| | 00506 | 6367 | ASB SYN | \$SUBRD | | |
| | | 6368 * | | | | 1.5N6420 |
| | | 6369 * | | | | 1.5M6390 |
| | | 6370 * UNUMIX | | EVALUATES ITS 2 NUMERICAL ARGUMENTS AND FLOATS THE FIXED | | 1.5M6400 |
| | | 6371 * | | POINT ARGUMENT IF A MIXED EXPRESSION. THE NUMERICAL | | 1.5M6410 |
| | | 6372 * | | VALUES ARE LEFT IN AC AND MQ WITH TYPE OF NUMBER IN \$ARG31 | | 1.5M6420 |
| | | 6373 * | | | | 1.5M6430 |
| 13350 | 0634 00 4 13371 | 6374 | UNUMIX SXA | UNUX,4 | SAVE LINK IR | 1.5M6440 |
| 13351 | -0600 00 0 13416 | 6375 | STQ | UNUT | SAVE SECOND ARGUMENT | 1.5M6450 |
| 13352 | 0074 00 4 14342 | 6376 | TSX | NUMVAL,4 | NUMERICALLY EVALUATE THE FIRST ARG | 1.5M6460 |
| 13353 | -0734 00 4 00000 | 6377 | PDX | 0,4 | POINTER TO FULL WORD | 1.5M6470 |
| 13354 | 0500 00 4 00000 | 6378 | CLA | 0,4 | NUMERICAL VALUE | 1.5M6480 |
| 13355 | 0601 00 0 13415 | 6379 | STO | UNUS | SAVE IT | 1.5M6490 |
| 13356 | -0600 00 0 13417 | 6380 | STQ | UNUR | SAVE TYPE OF NUMBER | 1.5M6500 |
| 13357 | 0500 00 0 13416 | 6381 | CLA | UNUT | PICK UP SECOND ARG | 1.5M6510 |
| 13360 | 0074 00 4 14342 | 6382 | TSX | NUMVAL,4 | NUMERICALLY EVALUATE IT | 1.5M6520 |
| 13361 | -0734 00 4 00000 | 6383 | PDX | 0,4 | POINTER TO FULL WORD | 1.5M6530 |
| 13362 | 0500 00 4 00000 | 6384 | CLA | 0,4 | NUMERICAL VALUE | 1.5M6540 |
| 13363 | 0131 00 0 00000 | 6385 | XCA | | VLUE TO MQ, TYPE TO AC | 1.5M6550 |
| 13364 | 0402 00 0 13417 | 6386 | SUB | UNUR | COMPARE WITH TYPE OF FIRST | 1.5M6560 |
| 13365 | -0100 00 0 13373 | 6387 | TNZ | UNMXA | TRA IF NOT SAME | |
| 13366 | 0500 00 0 13417 | 6388 | UNUE CLA | UNUR | PICK UP NUMBER TYPE | 1.5M6580 |
| 13367 | 0601 00 0 03321 | 6389 | STO | \$ARG3 | | 1.5M6590 |
| 13370 | 0500 00 0 13415 | 6390 | CLA | UNUS | PICK UP FIRST NUMERICAL VALUE | 1.5M6600 |
| 13371 | 0774 00 4 00000 | 6391 | UNUX AXT | **,4 | RESTORE LINK IR | 1.5M6610 |
| 13372 | 0020 00 4 00001 | 6392 | TRA | 1,4 | EXIT | 1.5M6620 |
| | | 6393 * | | | | 1.5M6630 |
| 13373 | -0600 00 0 13416 | 6394 | UNMXA STQ | UNUT | MIXED TYPES, SAVE SECOND VALUE | 1.5M6640 |
| 13374 | 0634 00 2 13406 | 6395 | SXA | UNUX2,2 | SAVE IR 2 | 1.5M6650 |
| 13375 | -0534 00 2 13417 | 6396 | LXD | UNUR,2 | PICK UP TYPE OF FIRST NUMBER | 1.5M6660 |
| 13376 | 0074 00 4 14550 | 6397 | TSX | FIXFLO,4 | DISPATCH | 1.5M6670 |
| 13377 | 0761 00 0 00000 | 6398 | NOP | | IMPOSSIBLE RETURN | 1.5M6680 |
| 13400 | 0020 00 0 13410 | 6399 | TRA | UNMXB | FLOAT SECOND NUMBER | 1.5M6690 |
| 13401 | 0500 00 0 13415 | 6400 | CLA | UNUS | FIRST NUMBER | 1.5M6700 |
| 13402 | 0074 00 4 14565 | 6401 | TSX | \$UNFIX,4 | FLOAT IT | 1.5M6710 |
| 13403 | 0560 00 0 00476 | 6402 | LDQ | UNFLT | \$FLOAT FOR TYPE | 1.5M6720 |
| 13404 | -0600 00 0 03321 | 6403 | STQ | \$ARG3 | | 1.5M6730 |
| 13405 | 0560 00 0 13416 | 6404 | LDQ | UNUT | SECOND NUMBER | 1.5M6740 |
| 13406 | 0774 00 2 00000 | 6405 | UNUX2 AXT | **,2 | RESTORE IR 2 | 1.5M6750 |

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|-------|-------|-------|---|--------|--------|--|------------|--|------------------------------------|
| 13407 | 0020 | 00 | 0 | 13371 | 6406 | TRA | UNIX | RESTORE LINK AND EXIT | 1.5M6760 |
| | | | | | 6407 * | | | | 1.5M6770 |
| 13410 | 0131 | 00 | 0 | 00000 | 6408 | UNMXB | XCA | FLOAT SECOND NUMBER | 1.5M6780 |
| 13411 | 0074 | 00 | 4 | 14565 | 6409 | TSX | \$UNFIX,4 | FLOAT FUNCTION | 1.5M6790 |
| 13412 | 0131 | 00 | 0 | 00000 | 6410 | | XCA | BACK TO MQ | 1.5M6800 |
| 13413 | 0534 | 00 | 2 | 13406 | 6411 | LXA | UNIX2,2 | RESTORE IR 2 | 1.5M6810 |
| 13414 | 0020 | 00 | 0 | 13366 | 6412 | TRA | UNUE | GET FIRST NUMBER, RESTORE LINK + EXIT | 1.5M6820 |
| 13415 | 0 | 00000 | 0 | 00000 | 6413 | UNUS | | FIRST NUMERICAL VALUE | 1.5M6830 |
| 13416 | 0 | 00000 | 0 | 00000 | 6414 | UNUT | | SECOND ARG AND VALUE | 1.5M6840 |
| 13417 | 0 | 00000 | 0 | 00000 | 6415 | UNUR | | TYPE OF FIRST ARG | 1.5M6850 |
| | | | | 00476 | 6416 | UNFLT | SYN FLOATD | FLOAT INDICATOR | |
| | | | | | 6417 * | | | | 1.5M6870 |
| | | | | | 6418 * | THIS ROUTINE USES NUMVAL,\$UNFIX, FIXFLO, AND \$ARG3 + \$FLOAT | | | 1.5M6880 |
| | | | | | 6419 * | | | | 1.5M6890 |
| | | | | | 6420 * | | | | 1.5M6900 |
| | | | | | 6421 * | DIVIDE | | DIVIDES THE FIRST NUMERICAL ARGUMENT BY THE SECOND. THE | 1.5M6910 |
| | | | | | 6422 * | | | ANSWER IS A LIST OF THE QUOTIENT AND THE REMAINDER. | 1.5M6920 |
| | | | | | 6423 * | | | | 1.5M6930 |
| | | | | | 6424 * | QUOTEN | | GIVES THE QUOTIENT WHEN THE FIRST NUMERICAL ARGUMENT IS | 1.5M6940 |
| | | | | | 6425 * | | | DIVIDED BY THE SECOND. | 1.5M6950 |
| | | | | | 6426 * | | | | 1.5M6960 |
| | | | | | 6427 * | REMAIN | | GIVES THE REMAINDER WHEN THE FIRST NUMERICAL ARGUMENT IS | 1.5M6970 |
| | | | | | 6428 * | | | DIVIDED BY THE SECOND. | 1.5M6980 |
| 13420 | 0604 | 00 | 0 | 13510 | 6429 | DIVIDE | STI | DIVND | SAVE INDICATORS |
| 13421 | 0057 | 00 | 0 | 000003 | 6430 | RIR | | 3 | DIVIDE INDICATE |
| 13422 | 0020 | 00 | 0 | 13432 | 6431 | TRA | | DIVOP | DO OPERATION |
| | | | | | 6432 * | | | | 1.5M7020 |
| 13423 | 0604 | 00 | 0 | 13510 | 6433 | REMAIN | STI | DIVND | SAVE INDICATORS |
| 13424 | 0057 | 00 | 0 | 000003 | 6434 | RIR | | 3 | DIVIDE INDICATE |
| 13425 | 0055 | 00 | 0 | 000002 | 6435 | SIR | | 2 | SET REMAINDER INDICATOR |
| 13426 | 0020 | 00 | 0 | 13432 | 6436 | TRA | | DIVOP | DO OPERATION |
| | | | | | 6437 * | | | | 1.5M7070 |
| 13427 | 0604 | 00 | 0 | 13510 | 6438 | QUOTEN | STI | DIVND | SAVE INDICATORS |
| 13430 | 0057 | 00 | 0 | 000003 | 6439 | RIR | | 3 | DIVIDE INDICATE |
| 13431 | 0055 | 00 | 0 | 000001 | 6440 | SIR | | 1 | QUOTIENT INDICATOR |
| 13432 | 0634 | 00 | 4 | 13501 | 6441 | DIVOP | SXA | DIVX,4 | SAVE LINK IR |
| 13433 | 0634 | 00 | 2 | 13500 | 6442 | | SXA | DIVX2,2 | SAVE IR 2 |
| 13434 | 0074 | 00 | 4 | 13350 | 6443 | TSX | | UNUMIX,4 | NUMERICALLY EVALUATE THE ARGUMENTS |
| 13435 | -0534 | 00 | 2 | 03321 | 6444 | LXD | | \$ARG3,2 | PICK UP TYPE |
| 13436 | -0600 | 00 | 0 | 13511 | 6445 | STQ | | DIVT | SECOND ARG |
| 13437 | 0074 | 00 | 4 | 14550 | 6446 | TSX | | FIXFLO,4 | DISPATCH ON TYPE |
| 13440 | 0761 | 00 | 0 | 00000 | 6447 | NOP | | | IMPOSSIBLE RETURN |
| 13441 | 0241 | 00 | 0 | 13511 | 6448 | FDP | | DIVT | FLOATING DIVIDE |
| 13442 | 0020 | 00 | 0 | 13471 | 6449 | TRA | | DIVFX | DO FIXED POINT DIVIDE |
| 13443 | 0760 | 00 | 0 | 00012 | 6450 | DIVDC | DCT | | CHECK FOR ILLEGAL DIVISION |
| 13444 | 0074 | 00 | 4 | 01676 | 6451 | TSX | | \$DCT,4 | DIVIDE CHECK ERROR |
| 13445 | 0054 | 00 | 0 | 000001 | 6452 | RFT | | 1 | SEE IF REMAINDER IS TO BE SAVED |
| 13446 | 0020 | 00 | 0 | 13476 | 6453 | TRA | | DIVA | NO, SET UP QUOTIENT |
| 13447 | -0600 | 00 | 0 | 13511 | 6454 | STQ | | DIVT | YES, SAVE QUOTEINT |
| 13450 | 0560 | 00 | 0 | 03321 | 6455 | LDQ | | \$ARG3 | PICK UP TYPE |
| 13451 | 0074 | 00 | 4 | 12636 | 6456 | TSX | | \$MKN0,4 | MAKE REMAINDER A NUMBER |
| 13452 | 0054 | 00 | 0 | 000002 | 6457 | RFT | | 2 | TEST TO SEE IF QUOTIENT IS WANTED |
| 13453 | 0020 | 00 | 0 | 13504 | 6458 | TRA | | DIVEX | NO, RESTORE AND EXIT |
| 13454 | 0560 | 00 | 0 | 00370 | 6459 | LDQ | | \$ZERO | NIL IN MQ |

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|-------|-------|-------|---|-------|--------|-----------|----------|---|----------|
| 13455 | 0074 | 00 | 4 | 03730 | 6460 | TSX | \$CONS,4 | LIST OF REMAINDER | 1.5M7300 |
| 13456 | 0131 | 00 | 0 | 00000 | 6461 | XCA | | SHUTTLE INTO MQ | 1.5M7310 |
| 13457 | 0500 | 00 | 0 | 13511 | 6462 | CLA | DIVT | PICK UP QUOTIENT | 1.5M7320 |
| 13460 | -0600 | 00 | 0 | 13511 | 6463 | STQ | DIVT | SAVE LIST OF REMAINDER | 1.5M7330 |
| 13461 | 0560 | 00 | 0 | 03321 | 6464 | LDQ | \$ARG3 | PICK UP TYPE | 1.5M7340 |
| 13462 | 0074 | 00 | 4 | 12636 | 6465 | TSX | \$MKNO,4 | MAKE QUOTIENT A NUMBER | 1.5M7350 |
| 13463 | 0560 | 00 | 0 | 13511 | 6466 | LDQ | DIVT | LIST(REMAINDER) | 1.5M7360 |
| 13464 | 0074 | 00 | 4 | 03730 | 6467 | TSX | \$CONS,4 | LIST(QUOTIENT,REMAINDER) | 1.5M7370 |
| 13465 | 0534 | 00 | 4 | 13501 | 6468 | LXA | DIVX,4 | RESTORE LINK IR | 1.5M7380 |
| 13466 | 0534 | 00 | 2 | 13500 | 6469 | LXA | DIVX2,2 | RESTORE IR 2 | 1.5M7390 |
| 13467 | 0441 | 00 | 0 | 13510 | 6470 | LDI | DIVND | RESTORE INDICATORS | 1.5M7400 |
| 13470 | 0020 | 00 | 4 | 00001 | 6471 | TRA | 1,4 | EXIT | 1.5M7410 |
| | | | | | 6472 * | | | | 1.5M7420 |
| 13471 | 0131 | 00 | 0 | 00000 | 6473 | DIVEX XCA | | FIXED POINT DIVISION, PUT ARG 1 IN MQ | 1.5M7430 |
| 13472 | -0754 | 00 | 0 | 00000 | 6474 | PXD | 0,0 | CLEAR AC | 1.5M7440 |
| 13473 | 0763 | 00 | 0 | 00000 | 6475 | LLS | 0 | MQ SIGN TO AC | 1.5M7450 |
| 13474 | 0221 | 00 | 0 | 13511 | 6476 | DVP | DIVT | DIVIDE BY ARG 2 | 1.5M7460 |
| 13475 | 0020 | 00 | 0 | 13443 | 6477 | TRA | DIVDC | PREFORM DIVIDE CHECK AND CARRY ON | 1.5M7470 |
| 13476 | 0131 | 00 | 0 | 00000 | 6478 | DIVA XCA | | QUOTIENT TO AC | 1.5M7480 |
| 13477 | 0560 | 00 | 0 | 03321 | 6479 | LDQ | \$ARG3 | TYPE TO MQ | 1.5M7490 |
| 13500 | 0774 | 00 | 2 | 00000 | 6480 | DIVX2 AXT | ** ,2 | RESTORE IR 2 | 1.5M7500 |
| 13501 | 0774 | 00 | 4 | 00000 | 6481 | DIVX AXT | ** ,4 | RESTORE LINK IR | 1.5M7510 |
| 13502 | 0441 | 00 | 0 | 13510 | 6482 | LDI | DIVND | RESTORE INDICATORS | 1.5M7520 |
| 13503 | 0020 | 00 | 0 | 12636 | 6483 | TRA | \$MKNO | | 1.5M7530 |
| | | | | | 6484 * | | | | 1.5M7540 |
| 13504 | 0534 | 00 | 2 | 13500 | 6485 | DIVEX LXA | DIVX2,2 | EXIT ROUTINE, RESTORE IR 2 | 1.5M7550 |
| 13505 | 0534 | 00 | 4 | 13501 | 6486 | LXA | DIVX,4 | RESTORE LINK IR | 1.5M7560 |
| 13506 | 0441 | 00 | 0 | 13510 | 6487 | LDI | DIVND | RESTORE INDICATORS | 1.5M7570 |
| 13507 | 0020 | 00 | 4 | 00001 | 6488 | TRA | 1,4 | | 1.5M7580 |
| | | | | | 6489 * | | | | 1.5M7590 |
| 13510 | 0 | 00000 | 0 | 00000 | 6490 | DIVND | | INDICATORS STORAGE | 1.5M7600 |
| 13511 | 0 | 00000 | 0 | 00000 | 6491 | DIVT | | LIST AND NON-LIST TEMPORARY STORAGE | 1.5M7610 |
| | | | | | 6492 * | | | | 1.5M7620 |
| | | | | | 6493 * | | | THIS ROUTINE USES \$MKNO,\$DCT,\$CONS,\$ARG3 AND UNUMIX | 1.5M7630 |
| | | | | | 6494 * | | | | 1.5M7640 |
| | | | | | 6495 * | | | | 1.5M7650 |
| | | | | | 6496 * | | | | 1.5M7660 |
| | | | | | 6497 * | | | | 1.5M7670 |
| 13512 | 0634 | 00 | 4 | 13525 | 6498 | DIFFR SXA | DIFX,4 | SAVE LINK IR | 1.5M7680 |
| 13513 | 0634 | 00 | 2 | 13524 | 6499 | SXA | DIFX2,2 | SAVE IR 2 | 1.5M7690 |
| 13514 | 0074 | 00 | 4 | 13350 | 6500 | TSX | UNUMIX,4 | NUMERICALLY EVALUATE THE ARGUMENTS | 1.5M7700 |
| 13515 | -0534 | 00 | 2 | 03321 | 6501 | LXD | \$ARG3,2 | PICK UP TYPE OF NUMBERS | 1.5M7710 |
| 13516 | -0600 | 00 | 0 | 13527 | 6502 | STQ | DIFT | STORE SECOND NUMBER | 1.5M7720 |
| 13517 | 0074 | 00 | 4 | 14550 | 6503 | TSX | FIXFLO,4 | DISPATCH ON TYPE | 1.5M7730 |
| 13520 | 0761 | 00 | 0 | 00000 | 6504 | NOP | | IMPOSSIBLE RETURN | 1.5M7740 |
| 13521 | 0302 | 00 | 0 | 13527 | 6505 | FSB | DIFT | FLOATING POINT | 1.5M7750 |
| 13522 | 0402 | 00 | 0 | 13527 | 6506 | SUB | DIFT | FIXED POINT | 1.5M7760 |
| 13523 | 0560 | 00 | 0 | 03321 | 6507 | LDQ | \$ARG3 | TYPE OF NUMBER | 1.5M7770 |
| 13524 | 0774 | 00 | 2 | 00000 | 6508 | DIFX2 AXT | ** ,2 | RESTORE IR 2 | 1.5M7780 |
| 13525 | 0774 | 00 | 4 | 00000 | 6509 | DIFX AXT | ** ,4 | RESTORE LINK IR | 1.5M7790 |
| 13526 | 0020 | 00 | 0 | 12636 | 6510 | TRA | \$MKNO | MAKE RESULT A NUMBER | 1.5M7800 |
| | | | | | 6511 * | | | | 1.5M7810 |
| 13527 | 0 | 00000 | 0 | 00000 | 6512 | DIFT | | TEMPORARY STORAGE | 1.5M7820 |
| | | | | | 6513 * | | | | 1.5M7830 |

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|-------|--------------|-------|---|-------|---|--|------------|
| | | | | | 6514 * THIS ROUTINE USES UNUMIX, FIXFLO, \$ARG3 AND \$MKNO | | 1.5M7840 |
| | | | | | 6515 * | | 1.5M7850 |
| | | | | | 6516 * | | 6500 |
| | | | | | 6517 * EXPT TAKES 2 FIXED OR FLOATING POINT NUMBERS AS ARGUMENTS AND RAISES | | 6510 |
| | | | | | 6518 * THE FIRST TO THE POWER INDICATED BY THE SECOND. | | 6520 |
| | | | | | 6519 * | | 6530 |
| 13530 | 0634 | 00 | 4 | 13567 | 6520 EXPT SXA EXPX,4 | SAVE LINK IR | 6540 |
| 13531 | 0634 | 00 | 2 | 13570 | 6521 SXA EXPY,2 | SAVE IR 2 | 6550 |
| 13532 | 0074 | 00 | 4 | 13350 | 6522 TSX UNUMIX,4 | EVALUATE THE 2 ARGUMENTS AS NUMBERS | 6560 |
| 13533 | -0534 | 00 | 2 | 03321 | 6523 LXD \$ARG3,2 | PICK UP TYPE OF NUMBERS | 6570 |
| 13534 | 0074 | 00 | 4 | 14550 | 6524 TSX FIXFLO,4 | DISPATCH ON FIX OR FLOAT | 6580 |
| 13535 | 0761 | 00 | 0 | 00000 | 6525 NOP | IMPOSSIBLE RETURN | 6590 |
| 13536 | 0020 | 00 | 0 | 13564 | 6526 TRA EXPA | IS FLOATING POINT | 6600 |
| 13537 | 0120 | 00 | 0 | 13546 | 6527 TPL EXPB | | 6610 |
| 13540 | 0534 | 00 | 2 | 13570 | 6528 EXPC LXA EXPY,2 | RESTORE IR 2 | 6620 |
| 13541 | 0534 | 00 | 4 | 13567 | 6529 LXA EXPX,4 | RESTORE IR 4 | 6630 |
| 13542 | -0634 | 00 | 4 | 01562 | 6530 SXD \$ERROR,4 | SAVE IN \$ERROR | 6640 |
| 13543 | -0754 | 00 | 0 | 00000 | 6531 PXD 0,0 | CLEAR AC | |
| 13544 | 0074 | 00 | 4 | 01563 | 6532 TSX \$ERROR+1,4 | GO TO ERROR | 6650 |
| 13545 | 543160600254 | | | | 6533 BCI 1,*I 2* | FIRST ARGUMENT IS NEGATIVE -EXPT- | |
| 13546 | 0131 | 00 | 0 | 00000 | 6534 EXPB XCA | INTERCHANGED FIXED POINT ARGUMENTS | 6680 |
| 13547 | -0600 | 00 | 0 | 77662 | 6535 STQ COMMON | TEMPORARY STORAGE | 6690 |
| 13550 | 0734 | 00 | 4 | 00000 | 6536 PAX 0,4 | EXPONENT | 6700 |
| 13551 | -3 | 00000 | 4 | 13561 | 6537 TXL OUT,4,0 | GO IF ZERO POWER | 6710 |
| 13552 | -2 | 00001 | 4 | 13556 | 6538 TNX OUT1,4,1 | GO IF TO FIRST POWER | |
| 13553 | -0754 | 00 | 0 | 00000 | 6539 PXD 0,0 | CLEAR AC | 6730 |
| 13554 | 0200 | 00 | 0 | 77662 | 6540 MPY COMMON | RAISE TO GIVEN POWER | 6740 |
| 13555 | 2 | 00001 | 4 | 13554 | 6541 TIX *-1,4,1 | IN LOOP | 6750 |
| 13556 | 0131 | 00 | 0 | 00000 | 6542 OUT1 XCA | ANSWER TO AC | 6760 |
| 13557 | 0560 | 00 | 0 | 00475 | 6543 LDQ \$FIXD | \$FIX TO DECREMENT | 6770 |
| 13560 | 0020 | 00 | 0 | 13567 | 6544 TRA EXPX | RESTORE INDEX REGISYERS AND MAKE NUMBR | 6780 |
| 13561 | 0500 | 00 | 0 | 00371 | 6545 OUT CLA \$Q1 | ANSWER IS 1 | 6790 |
| 13562 | 0560 | 00 | 0 | 00475 | 6546 LDQ \$FIXD | \$FIX TO MQ | |
| 13563 | 0020 | 00 | 0 | 13567 | 6547 TRA EXPX | EXIT | 6810 |
| 13564 | -0120 | 00 | 0 | 13540 | 6548 EXPA TMI EXPC | | 6820 |
| 13565 | 0074 | 00 | 4 | 13572 | 6549 TSX \$POWR,4 | POWER ROUTINE | 6830 |
| 13566 | 0560 | 00 | 0 | 00476 | 6550 LDQ FLOATD | \$FLOAT TO MQ | 6840 |
| 13567 | 0774 | 00 | 4 | 00000 | 6551 EXPX AXT **,4 | RESTORE INDEX REGISTERS | 6850 |
| 13570 | 0774 | 00 | 2 | 00000 | 6552 EXPY AXT **,2 | | 6860 |
| 13571 | 0020 | 00 | 0 | 12636 | 6553 TRA \$MKNO | MAKE ANSWER A NUMBER | 6870 |
| | | | | | 6554 POWER | | PKLC620300 |
| | | | | | 6555 G HED | | LC620400 |
| 13572 | -0600 | 00 | 0 | 13714 | 6556 POWR STQ N | | LC620500 |
| 13573 | -0634 | 00 | 1 | 77662 | 6557 SXD COMMON,1 | | LC620600 |
| 13574 | -0634 | 00 | 2 | 77663 | 6558 SXD COMMON+1,2 | | LC620700 |
| 13575 | 0534 | 00 | 1 | 00370 | 6559 P19 LXA ZERO,1 | | LC620800 |
| 13576 | 0534 | 00 | 2 | 00370 | 6560 LXA ZERO,2 | | LC620900 |
| 13577 | 0765 | 00 | 0 | 00033 | 6561 LRS 27 | | LC621000 |
| 13600 | 0402 | 00 | 0 | 00415 | 6562 SUB L200 | | LC621100 |
| 13601 | -0600 | 00 | 0 | 13715 | 6563 STQ FN | | LC621200 |
| 13602 | 0560 | 00 | 0 | 00370 | 6564 LDQ ZERO | | LC621300 |
| 13603 | -0100 | 00 | 0 | 13606 | 6565 TNZ PO1 | | LC621400 |
| 13604 | 0601 | 00 | 0 | 13716 | 6566 STO E | | LC621500 |
| 13605 | 0020 | 00 | 0 | 13620 | 6567 TRA PO2 | | LC621600 |

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|-------|-------|-------|---|-------|------|-----|-------------|--|----------|
| 13606 | 0765 | 00 | 0 | 00001 | 6568 | P01 | LRS 1 | | LC621700 |
| 13607 | 1 | 00001 | 1 | 13610 | 6569 | | TXI P03,1,1 | | LC621800 |
| 13610 | -0100 | 00 | 0 | 13606 | 6570 | P03 | TNZ P01 | | LC621900 |
| 13611 | -0754 | 00 | 1 | 00000 | 6571 | | PXD 0,1 | | LC622000 |
| 13612 | 0771 | 00 | 0 | 00022 | 6572 | | ARS 18 | | LC622100 |
| 13613 | 0760 | 00 | 0 | 00003 | 6573 | | SSP | | LC622200 |
| 13614 | 0400 | 00 | 0 | 00415 | 6574 | | ADD L200 | | LC622300 |
| 13615 | 0763 | 00 | 0 | 00033 | 6575 | | LLS 27 | | LC622400 |
| 13616 | 0601 | 00 | 0 | 13716 | 6576 | | STO E | | LC622500 |
| 13617 | 0760 | 00 | 0 | 00000 | 6577 | | CLM | | LC622600 |
| 13620 | 0560 | 00 | 0 | 13715 | 6578 | P02 | LDQ FN | | LC622700 |
| 13621 | 0763 | 00 | 0 | 00033 | 6579 | | LLS 27 | | LC622800 |
| 13622 | 0400 | 00 | 0 | 00435 | 6580 | | ADD LL200 | | LC622900 |
| 13623 | 0300 | 00 | 0 | 13717 | 6581 | | FAD RSQ | | LC623000 |
| 13624 | 0601 | 00 | 0 | 13720 | 6582 | | STO P04 | | LC623100 |
| 13625 | 0302 | 00 | 0 | 13726 | 6583 | | FSB SQ | | LC623200 |
| 13626 | 0240 | 00 | 0 | 13720 | 6584 | | FDH P04 | | LC623300 |
| 13627 | -0600 | 00 | 0 | 13721 | 6585 | | STQ P05 | | LC623400 |
| 13630 | 0260 | 00 | 0 | 13721 | 6586 | | FMP P05 | | LC623500 |
| 13631 | 0601 | 00 | 0 | 13722 | 6587 | | STO P06 | | LC623600 |
| 13632 | 0560 | 00 | 0 | 13722 | 6588 | P08 | LDQ P06 | | LC623700 |
| 13633 | 0260 | 00 | 2 | 13733 | 6589 | | FMP C7,2 | | LC623800 |
| 13634 | 0300 | 00 | 2 | 13732 | 6590 | | FAD C5,2 | | LC623900 |
| 13635 | 0601 | 00 | 2 | 13732 | 6591 | | STO C5,2 | | LC624000 |
| 13636 | 1 | 00001 | 2 | 13637 | 6592 | | TXI P07,2,1 | | LC624100 |
| 13637 | -3 | 00002 | 2 | 13632 | 6593 | P07 | TXI P08,2,2 | | LC624200 |
| 13640 | 0560 | 00 | 0 | 13730 | 6594 | | LDQ C1 | | LC624300 |
| 13641 | 0260 | 00 | 0 | 13721 | 6595 | | FMP P05 | | LC624400 |
| 13642 | 0302 | 00 | 0 | 13727 | 6596 | | FSB R2 | | LC624500 |
| 13643 | 0300 | 00 | 0 | 13716 | 6597 | | FAD E | | LC624600 |
| 13644 | 0601 | 00 | 0 | 13716 | 6598 | P18 | STO E | | LC624700 |
| 13645 | 0560 | 00 | 0 | 13714 | 6599 | | LDQ N | | LC624800 |
| 13646 | 0260 | 00 | 0 | 13716 | 6600 | | FMP E | | LC624900 |
| 13647 | 0601 | 00 | 0 | 13714 | 6601 | | STO N | | LC625000 |
| 13650 | 0020 | 00 | 0 | 14023 | 6602 | | TRA P09 | | LC625100 |
| 13651 | 0 | 00000 | 0 | 00000 | 6603 | M1 | | | LC625200 |
| 13652 | 0 | 00000 | 0 | 00000 | 6604 | M2 | | | LC625300 |
| 13653 | 0 | 00000 | 0 | 00001 | 6605 | M3 | 1 | | LC625400 |
| 13654 | 0 | 00400 | 0 | 00000 | 6606 | M4 | 0,0,256 | | LC625500 |
| 13655 | 0534 | 00 | 1 | 00370 | 6607 | P41 | LXA ZERC,1 | | LC625600 |
| 13656 | 0560 | 00 | 0 | 13725 | 6608 | P11 | LDQ W | | LC625700 |
| 13657 | 0260 | 00 | 1 | 13746 | 6609 | | FMP A6,1 | | LC625800 |
| 13660 | 0300 | 00 | 1 | 13745 | 6610 | | FAD A5,1 | | LC625900 |
| 13661 | 0601 | 00 | 1 | 13745 | 6611 | | STO A5,1 | | LC626000 |
| 13662 | 1 | 00001 | 1 | 13663 | 6612 | | TXI P10,1,1 | | LC626100 |
| 13663 | -3 | 00005 | 1 | 13656 | 6613 | P10 | TXL P11,1,5 | | LC626200 |
| 13664 | 0601 | 00 | 0 | 13725 | 6614 | | STO W | | LC626300 |
| 13665 | 0534 | 00 | 2 | 00370 | 6615 | | LXA ZERC,2 | | LC626400 |
| 13666 | 0500 | 00 | 2 | 13755 | 6616 | P13 | CLA AP6,2 | | LC626500 |
| 13667 | 0601 | 00 | 2 | 13746 | 6617 | | STO A6,2 | | LC626600 |
| 13670 | 1 | 00001 | 2 | 13671 | 6618 | | TXI P12,2,1 | | LC626700 |
| 13671 | -3 | 00006 | 2 | 13666 | 6619 | P12 | TXL P13,2,6 | | LC626800 |
| 13672 | 0534 | 00 | 1 | 00370 | 6620 | | LXA ZERC,1 | | LC626900 |
| 13673 | 0500 | 00 | 1 | 13737 | 6621 | P15 | CLA CP7,1 | | LC627000 |

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|-------|---------------|-------|---|-------|------|-------|---------------|---------|--|----------|
| 13674 | 0601 | 00 | 1 | 13733 | 6622 | | STO | C7,1 | | LC627100 |
| 13675 | 1 | 00001 | 1 | 13676 | 6623 | | TXI | P14,1,1 | | LC627200 |
| 13676 | -3 | 00003 | 1 | 13673 | 6624 | P14 | TXL | P15,1,3 | | LC627300 |
| 13677 | 0560 | 00 | 0 | 13725 | 6625 | | LDQ | W | | LC627400 |
| 13700 | 0260 | 00 | 0 | 13725 | 6626 | | FMP | W | | LC627500 |
| 13701 | 0601 | 00 | 0 | 13725 | 6627 | | STO | W | | LC627600 |
| 13702 | 0560 | 00 | 0 | 13725 | 6628 | | LDQ | W | | LC627700 |
| 13703 | 0260 | 00 | 0 | 13725 | 6629 | | FMP | W | | LC627800 |
| 13704 | 0601 | 00 | 0 | 13725 | 6630 | | STO | W | | LC627900 |
| 13705 | 0020 | 00 | 0 | 13756 | 6631 | | TRA | P16 | | LC628000 |
| 13706 | 0 | 00000 | 0 | 00000 | 6632 | EA | | | | LC628100 |
| 13707 | 0020 | 00 | 0 | 13763 | 6633 | P171 | TRA | P17 | | LC628200 |
| 13710 | 0 | 00000 | 0 | 00000 | 6634 | P24 | | | | LC628300 |
| 13711 | 0601 | 00 | 0 | 13716 | 6635 | P21 | STO | E | | LC628400 |
| 13712 | 0 | 00000 | 0 | 00000 | 6636 | S1 | | | | LC628500 |
| 13713 | 0 | 00000 | 0 | 00000 | 6637 | S2 | | | | LC628600 |
| 13714 | 0 | 00000 | 0 | 00000 | 6638 | N | | | | LC628700 |
| | | | | 00370 | 6639 | ZERO | SYN | \$ZERO | | |
| | | | | 00415 | 6640 | L200 | SYN | \$Q0200 | | |
| 13715 | 0 | 00000 | 0 | 00000 | 6641 | FN | | | | LC629000 |
| 13716 | 0 | 00000 | 0 | 00000 | 6642 | E | | | | LC629100 |
| | | | | 00435 | 6643 | LL200 | SYN | Q02G11 | | |
| 13717 | +200552023632 | | | 6644 | RSQ | OCT | +200552023632 | | | LC629300 |
| 13720 | 0 | 00000 | 0 | 00000 | 6645 | P04 | | | | LC629400 |
| 13721 | 0 | 00000 | 0 | 00000 | 6646 | P05 | | | | LC629500 |
| 13722 | 0 | 00000 | 0 | 00000 | 6647 | P06 | | | | LC629600 |
| 13723 | +200542710300 | | | 6648 | LDG | OCT | +200542710300 | | | LC629700 |
| 13724 | 0 | 00000 | 0 | 00000 | 6649 | S3 | | | | LC629800 |
| 13725 | 0 | 00000 | 0 | 00000 | 6650 | W | | | | LC629900 |
| 13726 | +201552023632 | | | 6651 | SQ | OCT | +201552023632 | | | LC630000 |
| 13727 | +200400000000 | | | 6652 | R2 | OCT | +200400000000 | | | LC630100 |
| 13730 | +202561250731 | | | 6653 | C1 | OCT | +202561250731 | | | LC630200 |
| 13731 | +200754342231 | | | 6654 | | OCT | +200754342231 | | | LC630300 |
| 13732 | +200447154100 | | | 6655 | C5 | OCT | +200447154100 | | | LC630400 |
| 13733 | +177674535132 | | | 6656 | C7 | OCT | +177674535132 | | | LC630500 |
| 13734 | +202561250731 | | | 6657 | | OCT | +202561250731 | | | LC630600 |
| 13735 | +200754342231 | | | 6658 | | OCT | +200754342231 | | | LC630700 |
| 13736 | +200447154100 | | | 6659 | | OCT | +200447154100 | | | LC630800 |
| 13737 | +177674535132 | | | 6660 | CP7 | OCT | +177674535132 | | | LC630900 |
| 13740 | +201400000000 | | | 6661 | | OCT | +201400000000 | | | LC631000 |
| 13741 | +176777776476 | | | 6662 | | OCT | +176777776476 | | | LC631100 |
| 13742 | +174400037635 | | | 6663 | | OCT | +174400037635 | | | LC631200 |
| 13743 | +170523517764 | | | 6664 | | OCT | +170523517764 | | | LC631300 |
| 13744 | +164547625227 | | | 6665 | | OCT | +164547625227 | | | LC631400 |
| 13745 | +157554324201 | | | 6666 | A5 | OCT | +157554324201 | | | LC631500 |
| 13746 | +154562606535 | | | 6667 | A6 | OCT | +154562606535 | | | LC631600 |
| 13747 | +201400000000 | | | 6668 | L1 | OCT | +201400000000 | | | LC631700 |
| 13750 | +176777776476 | | | 6669 | | OCT | +176777776476 | | | LC631800 |
| 13751 | +174400037635 | | | 6670 | | OCT | +174400037635 | | | LC631900 |
| 13752 | +170523517764 | | | 6671 | | OCT | +170523517764 | | | LC632000 |
| 13753 | +164547625227 | | | 6672 | | OCT | +164547625227 | | | LC632100 |
| 13754 | +157554324201 | | | 6673 | | OCT | +157554324201 | | | LC632200 |
| 13755 | +154562606535 | | | 6674 | AP6 | OCT | +154562606535 | | | LC632300 |
| 13756 | 0601 | 00 | 0 | 14022 | 6675 | P16 | STO | EW | | LC632400 |

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|-------|-------|-------|---|-------|------|-----|-------------|--|----------|
| 13757 | 0500 | 00 | 0 | 13707 | 6676 | | CLA P171 | | LC632500 |
| 13760 | 0601 | 00 | 0 | 13644 | 6677 | | STO P18 | | LC632600 |
| 13761 | 0500 | 00 | 0 | 14022 | 6678 | | CLA EW | | LC632700 |
| 13762 | 0020 | 00 | 0 | 13575 | 6679 | | TRA P19 | | LC632800 |
| 13763 | 0020 | 00 | 0 | 14123 | 6680 | P17 | TRA P20 | | LC632900 |
| 13764 | 0500 | 00 | 0 | 13711 | 6681 | P42 | CLA P21 | | LC633000 |
| 13765 | 0601 | 00 | 0 | 13644 | 6682 | | STO P18 | | LC633100 |
| 13766 | 0534 | 00 | 1 | 00370 | 6683 | | LXA ZERO,1 | | LC633200 |
| 13767 | 0500 | 00 | 1 | 13737 | 6684 | P23 | CLA CP7,1 | | LC633300 |
| 13770 | 0601 | 00 | 1 | 13733 | 6685 | | STO C7,1 | | LC633400 |
| 13771 | 1 | 00001 | 1 | 13772 | 6686 | | TXI P22,1,1 | | LC633500 |
| 13772 | -3 | 00003 | 1 | 13767 | 6687 | P22 | TXI P23,1,3 | | LC633600 |
| 13773 | 0560 | 00 | 0 | 13710 | 6688 | | LDQ P24 | | LC633700 |
| 13774 | 0260 | 00 | 0 | 13723 | 6689 | | FMP LOG | | LC633800 |
| 13775 | 0302 | 00 | 0 | 13724 | 6690 | | FSB S3 | | LC633900 |
| 13776 | 0140 | 00 | 0 | 14013 | 6691 | | TOV P25 | | LC634000 |
| 13777 | 0601 | 00 | 0 | 13712 | 6692 | | STO S1 | | LC634100 |
| 14000 | 0560 | 00 | 0 | 13712 | 6693 | | LDQ S1 | | LC634200 |
| 14001 | 0260 | 00 | 0 | 13727 | 6694 | | FMP R2 | | LC634300 |
| 14002 | 0302 | 00 | 0 | 13747 | 6695 | | FSB L1 | | LC634400 |
| 14003 | 0601 | 00 | 0 | 13713 | 6696 | | STO S2 | | LC634500 |
| 14004 | 0560 | 00 | 0 | 13712 | 6697 | | LDQ S1 | | LC634600 |
| 14005 | 0260 | 00 | 0 | 13713 | 6698 | | FMP S2 | | LC634700 |
| 14006 | 0300 | 00 | 0 | 13747 | 6699 | | FAD L1 | | LC634800 |
| 14007 | 0601 | 00 | 0 | 13712 | 6700 | | STO S1 | | LC634900 |
| 14010 | 0560 | 00 | 0 | 14022 | 6701 | | LDQ EW | | LC635000 |
| 14011 | 0260 | 00 | 0 | 13712 | 6702 | | FMP S1 | | LC635100 |
| 14012 | 0601 | 00 | 0 | 14022 | 6703 | | STO EW | | LC635200 |
| 14013 | 0560 | 00 | 0 | 13651 | 6704 | P25 | LDQ M1 | | LC635300 |
| 14014 | 0260 | 00 | 0 | 14022 | 6705 | | FMP EW | | LC635400 |
| 14015 | 0601 | 00 | 0 | 14022 | 6706 | | STO EW | | LC635500 |
| 14016 | 0500 | 00 | 0 | 13714 | 6707 | | CLA N | | LC635600 |
| 14017 | 0120 | 00 | 0 | 14113 | 6708 | | TPL P26 | | LC635700 |
| 14020 | 0500 | 00 | 0 | 13747 | 6709 | | CLA L1 | | LC635800 |
| 14021 | 0020 | 00 | 0 | 14111 | 6710 | | TRA P27 | | LC635900 |
| 14022 | 0 | 00000 | 0 | 00000 | 6711 | EW | | | LC636000 |
| 14023 | 0560 | 00 | 0 | 00370 | 6712 | P09 | LDQ ZERO | | LC636100 |
| 14024 | 0760 | 00 | 0 | 00003 | 6713 | | SSP | | LC636200 |
| 14025 | 0765 | 00 | 0 | 00033 | 6714 | | LRS 27 | | LC636300 |
| 14026 | 0402 | 00 | 0 | 00415 | 6715 | | SUB L200 | | LC636400 |
| 14027 | 0020 | 00 | 0 | 14106 | 6716 | | TRA P28 | | LC636500 |
| 14030 | 0500 | 00 | 0 | 00370 | 6717 | P40 | CLA ZERO | | LC636600 |
| 14031 | 0763 | 00 | 0 | 00000 | 6718 | P39 | LLS ** | | |
| 14032 | 0400 | 00 | 0 | 00415 | 6719 | | ADD L200 | | LC636800 |
| 14033 | 0400 | 00 | 0 | 13653 | 6720 | | ADD M3 | | LC636900 |
| 14034 | 0767 | 00 | 0 | 00033 | 6721 | | ALS 27 | | LC637000 |
| 14035 | 0400 | 00 | 0 | 13654 | 6722 | | ADD M4 | | LC637100 |
| 14036 | 0601 | 00 | 0 | 13651 | 6723 | | STO M1 | | LC637200 |
| 14037 | -0600 | 00 | 0 | 13652 | 6724 | | STO M2 | | LC637300 |
| 14040 | 0500 | 00 | 0 | 13652 | 6725 | | CLA M2 | | LC637400 |
| 14041 | -0100 | 00 | 0 | 14060 | 6726 | | TNZ P29 | | LC637500 |
| 14042 | 0500 | 00 | 0 | 13714 | 6727 | | CLA N | | LC637600 |
| 14043 | 0120 | 00 | 0 | 14047 | 6728 | | TPL P30 | | LC637700 |
| 14044 | 0500 | 00 | 0 | 13747 | 6729 | | CLA L1 | | LC637800 |

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|-------|----------|----|-------|-------|------|-------|--|--|----------|
| 14045 | 0240 | 00 | 0 | 13651 | 6730 | | FDH M1 | | LC637900 |
| 14046 | -0600 | 00 | 0 | 13651 | 6731 | | STQ M1 | | LC638000 |
| 14047 | 0534 | 00 | 1 | 00370 | 6732 | P30 | LXA ZERG,1 | | LC638100 |
| 14050 | 0500 | 00 | 1 | 13737 | 6733 | P32 | CLA CP7,1 | | LC638200 |
| 14051 | 0601 | 00 | 1 | 13733 | 6734 | | STO C7,1 | | LC638300 |
| 14052 | 1 00001 | 1 | 14053 | 6735 | | | TXI P31,1,1 | | LC638400 |
| 14053 | -3 00003 | 1 | 14050 | 6736 | P31 | | TXL P32,1,3 | | LC638500 |
| 14054 | 0500 | 00 | 0 | 13651 | 6737 | | CLA M1 | | LC638600 |
| 14055 | -0534 | 00 | 1 | 77662 | 6738 | | LXD COMMON,1 | | LC638700 |
| 14056 | -0534 | 00 | 2 | 77663 | 6739 | | LXD COMMON+1,2 | | LC638800 |
| 14057 | 0020 | 00 | 4 | 00001 | 6740 | | TRA 1,4 | | LC638900 |
| 14060 | 0760 | 00 | 0 | 00000 | 6741 | P29 | CLM | | LC639000 |
| 14061 | 0534 | 00 | 2 | 00370 | 6742 | | LXA ZERG,2 | | LC639100 |
| 14062 | 0763 | 00 | 0 | 00001 | 6743 | P34 | LLS 1 | | LC639200 |
| 14063 | 1 00001 | 2 | 14064 | 6744 | | | TXI P33,2,1 | | LC639300 |
| 14064 | 0100 | 00 | 0 | 14062 | 6745 | P33 | TZE P34 | | LC639400 |
| 14065 | 0765 | 00 | 0 | 00001 | 6746 | | LRS 1 | | LC639500 |
| 14066 | -0754 | 00 | 2 | 00000 | 6747 | | PXD 0,2 | | LC639600 |
| 14067 | 0771 | 00 | 0 | 00022 | 6748 | | ARS 18 | | LC639700 |
| 14070 | -0760 | 00 | 0 | 00003 | 6749 | | SSM | | LC639800 |
| 14071 | 0400 | 00 | 0 | 00415 | 6750 | | ADD L200 | | LC639900 |
| 14072 | 0400 | 00 | 0 | 13653 | 6751 | | ADD M3 | | LC640000 |
| 14073 | 0763 | 00 | 0 | 00033 | 6752 | | LLS 27 | | LC640100 |
| 14074 | 0601 | 00 | 0 | 13652 | 6753 | P36 | STO M2 | | LC640200 |
| 14075 | 0560 | 00 | 0 | 13723 | 6754 | | LDQ LDG | | LC640300 |
| 14076 | 0260 | 00 | 0 | 13652 | 6755 | | FMP M2 | | LC640400 |
| 14077 | 0601 | 00 | 0 | 13725 | 6756 | | STO W | | LC640500 |
| 14100 | 0020 | 00 | 0 | 14121 | 6757 | | TRA P35 | | LC640600 |
| 14101 | 0500 | 00 | 0 | 13747 | 6758 | P37 | CLA L1 | | LC640700 |
| 14102 | 0601 | 00 | 0 | 13651 | 6759 | | STO M1 | | LC640800 |
| 14103 | 0500 | 00 | 0 | 13714 | 6760 | | CLA N | | LC640900 |
| 14104 | 0760 | 00 | 0 | 00003 | 6761 | | SSP | | LC641000 |
| 14105 | 0020 | 00 | 0 | 14074 | 6762 | | TRA P36 | | LC641100 |
| 14106 | 0100 | 00 | 0 | 14101 | 6763 | P28 | TZE P37 | | LC641200 |
| 14107 | -0120 | 00 | 0 | 14101 | 6764 | | TMI P37 | | LC641300 |
| 14110 | 0020 | 00 | 0 | 14117 | 6765 | | TRA P38 | | LC641400 |
| 14111 | 0240 | 00 | 0 | 14022 | 6766 | P27 | FDH EW | | LC641500 |
| 14112 | -0600 | 00 | 0 | 14022 | 6767 | | STQ EW | | LC641600 |
| 14113 | 0500 | 00 | 0 | 14022 | 6768 | P26 | CLA EW | | LC641700 |
| 14114 | -0534 | 00 | 1 | 77662 | 6769 | | LXD COMMON,1 | | LC641800 |
| 14115 | -0534 | 00 | 2 | 77663 | 6770 | | LXD COMMON+1,2 | | LC641900 |
| 14116 | 0020 | 00 | 4 | 00001 | 6771 | | TRA 1,4 | | LC642000 |
| 14117 | 0621 | 00 | 0 | 14031 | 6772 | P38 | STA P39 | | LC642100 |
| 14120 | 0020 | 00 | 0 | 14030 | 6773 | | TRA P40 | | LC642200 |
| 14121 | 0601 | 00 | 0 | 13724 | 6774 | P35 | STO S3 | | LC642300 |
| 14122 | 0020 | 00 | 0 | 13655 | 6775 | | TRA P41 | | LC642400 |
| 14123 | 0760 | 00 | 0 | 00003 | 6776 | P20 | SSP | | LC642500 |
| 14124 | 0601 | 00 | 0 | 13710 | 6777 | | STO P24 | | LC642600 |
| 14125 | 0020 | 00 | 0 | 13764 | 6778 | | TRA P42 | | LC642700 |
| | | | | | 6779 | | HEAD Q | | |
| | | | | | 6780 | * ADD | ADDS A STRING OF FIXED POINT OR FLOATING POINT NUMBERS | | RDCX0120 |
| 14126 | -0634 | 00 | 4 | 03500 | 6781 | ADDP | SXD AMIR,4 SAVE LINK IR | | |
| 14127 | 0774 | 00 | 4 | 07355 | 6782 | | AXT 3PLUS,4 | | |
| 14130 | 0604 | 00 | 0 | 03501 | 6783 | | STI AMIND SAVE INDICATORS | | RDCX0122 |

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|-------|-------|-------|---------|--------|-------|-----------------|--|---------------------------------|
| 14131 | 0057 | 00 | 000177 | 6784 | RIR | 177 | RESET FIRST 7 INDICATORS | RDCX0123 |
| 14132 | 0055 | 00 | 000001 | 6785 | SIR | 1 | SET ADD INDICATOR (1) | RDCX0124 |
| 14133 | 0020 | 00 | 0 14155 | 6786 | TRA | AMMMF | GO TO MAIN FUNCTION | RDCX0125 |
| | | | | 6787 * | | | | RDCX0126 |
| 14134 | -0634 | 00 | 4 03500 | 6788 | MULT | SXD | AMIR,4 | SAVE LINK IR |
| 14135 | 0774 | 00 | 4 06657 | 6789 | AXT | \$TIMES,4 | | RDCX0127 |
| 14136 | 0604 | 00 | 0 03501 | 6790 | STI | AMIND | SAVE INDICATORS | RDCX0128 |
| 14137 | 0057 | 00 | 000177 | 6791 | RIR | 177 | RESET FIRST 7 INDICATORS | RDCX0129 |
| 14140 | 0055 | 00 | 000002 | 6792 | SIR | 2 | SET MULTIPLY INDICATOR (2) | RDCX0130 |
| 14141 | 0020 | 00 | 0 14155 | 6793 | TRA | AMMMF | GO TO MAIN FUNCTION | RDCX0131 |
| | | | | 6794 * | | | | RDCX0132 |
| 14142 | -0634 | 00 | 4 03500 | 6795 | MIN | SXD | AMIR,4 | SAVE LINK IR |
| 14143 | 0774 | 00 | 4 07604 | 6796 | AXT | \$MINP,4 | | RDCX0133 |
| 14144 | 0604 | 00 | 0 03501 | 6797 | STI | AMIND | SAVE INDICATORS | RDCX0134 |
| 14145 | 0057 | 00 | 000177 | 6798 | RIR | 177 | RESET FIRST 7 INDICATORS | RDCX0135 |
| 14146 | 0055 | 00 | 000010 | 6799 | SIR | 10 | SET MINIMUM FUNCTION INDICATOR (10) | RDCX0136 |
| 14147 | 0020 | 00 | 0 14155 | 6800 | TRA | AMMMF | GO TO MAIN FUNCTION | RDCX0137 |
| | | | | 6801 * | | | | RDCX0138 |
| 14150 | -0634 | 00 | 4 03500 | 6802 | MAX | SXD | AMIR,4 | SAVE LINK IR |
| 14151 | 0774 | 00 | 4 07614 | 6803 | AXT | \$MAXP,4 | | RDCX0139 |
| 14152 | 0604 | 00 | 0 03501 | 6804 | STI | AMIND | SAVE INDICATORS | RDCX0140 |
| 14153 | 0057 | 00 | 000177 | 6805 | RIR | 177 | RSET FIRST 7 INDICATORS | RDCX0141 |
| 14154 | 0055 | 00 | 000004 | 6806 | SIR | 4 | SET MAXIMUM FUNCTION INDICATOR (4) | RDCX0142 |
| 14155 | 0634 | 00 | 4 03500 | 6807 | AMMMF | SXA | AMIR,4 | PUT PROGRAM NAME WITH LINK IR |
| 14156 | 0074 | 00 | 4 02312 | 6808 | TSX | \$SAVE,4 | OTHER 3 FUNCTIONS ENTER AT *-1 | |
| 14157 | -3 | 03503 | 0 02377 | 6809 | TXL | \$END2,,AMIND+2 | SAVE 2 ITEMS | |
| 14160 | 0074 | 00 | 4 15774 | 6810 | TSX | \$EVLIS,4 | EVALUATE THE LIST OF ARGUMENTS | RDCX0145 |
| 14161 | 0074 | 00 | 4 02326 | 6811 | TSX | UNSAVE,4 | RESTORE IR 4 AND INDICATORS | RDCX0146 |
| 14162 | 0634 | 00 | 2 14336 | 6812 | SXA | AMIR2,2 | SAVE IR 2 | RDCX0148 |
| 14163 | 0600 | 00 | 0 14341 | 6813 | STZ | AMSUM | ZERO FINAL ANSWER REGISTER | RDCX0149 |
| 14164 | -0734 | 00 | 4 00000 | 6814 | AMPL | PDX | 0,4 | PUT POINTER TO ARG LIST IN IR 4 |
| 14165 | -3 | 00000 | 4 14330 | 6815 | TXL | AMEND,4,0 | GO TO EXIT IF NULL | RDCX0150 |
| 14166 | 0500 | 00 | 4 00000 | 6816 | CLA | 0,4 | GET FIRST WORD | RDCX0151 |
| 14167 | 0601 | 00 | 0 03502 | 6817 | STQ | AMLIS | SAVE THE WORD | RDCX0152 |
| 14170 | 0734 | 00 | 4 00000 | 6818 | PAX | 0,4 | CAR OF LIST | RDCX0153 |
| 14171 | -0754 | 00 | 4 00000 | 6819 | PXD | 0,4 | TO DECREMENT | RDCX0154 |
| 14172 | 0074 | 00 | 4 14342 | 6820 | TSX | NUMVAL,4 | EVALUATE THE ITEM | RDCX0155 |
| 14173 | -0600 | 00 | 0 03503 | 6821 | STQ | AMQ | SAVE CHARACTERISTIC (\$FIX OR \$FLOAT) | RDCX0156 |
| 14174 | 0056 | 00 | 000100 | 6822 | RNT | 100 | TEST FOR FIRST TIME THROUGH | RDCX0157 |
| 14175 | 0020 | 00 | 0 14220 | 6823 | TRA | AMFRS | IS FIRST TIME GO TO INITIALIZE AMSUM | RDCX0158 |
| 14176 | 0054 | 00 | 000002 | 6824 | RFT | 2 | TEST FOR MULT FUNCTION | RDCX0159 |
| 14177 | 0020 | 00 | 0 14240 | 6825 | TRA | AMLT | EXECUTE MULT FUNCTION | RDCX0160 |
| 14200 | -0734 | 00 | 4 00000 | 6826 | PDX | 0,4 | POINTER TO FULL WORD | 7110 |
| 14201 | 0500 | 00 | 4 00000 | 6827 | CLA | 0,4 | GET NUMERICAL VALUE | 7120 |
| 14202 | 0056 | 00 | 000001 | 6828 | RNT | 1 | SKIP NEXT INSTRUCTION IF ADD FUNCTION | RDCX0163 |
| 14203 | 0020 | 00 | 0 14300 | 6829 | TRA | AMM | EXECUTE MAX OR MIN FUNCTION | RDCX0164 |
| 14204 | -0534 | 00 | 2 03503 | 6830 | LXD | AMQ,2 | ADD FUNCTION. PICK UP TYPE OF NUMBER | RDCX0165 |
| 14205 | 0074 | 00 | 4 14550 | 6831 | TSX | FIXFLO,4 | TEST FOR FIX OR FLOAT | RDCX0166 |
| 14206 | 0761 | 00 | 0 00000 | 6832 | NOP | | IMPOSSIBLE RETURN | RDCX0167 |
| 14207 | 0020 | 00 | 0 14233 | 6833 | TRA | AFLI | EXECUTE FAD | RDCX0168 |
| 14210 | 0055 | 00 | 000020 | 6834 | SIR | 20 | IS FIXED POINT. SET FIXED POINT IND. | RDCX0169 |
| 14211 | -0774 | 00 | 4 14235 | 6835 | AXC | AFLR,4 | PRESET IR 4 | RDCX0170 |
| 14212 | 0054 | 00 | 000040 | 6836 | RFT | 40 | SKIP NEXT INSTRUCTION IF NOT MIXED EXP | RDCX0171 |
| 14213 | 0020 | 00 | 0 14266 | 6837 | TRA | UNFX | IS MIXED, FLOAT THIS NUMBER | RDCX0172 |

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|-------|-------|----|--------|-------|------|-------|-----|----------|---|----------|
| 14214 | 0400 | 00 | 0 | 14341 | 6838 | | ADD | AMSUM | FIXED ADD OF SUM | RDCX0173 |
| 14215 | 0601 | 00 | 0 | 14341 | 6839 | AMRT | STO | AMSUM | STORE NEW SUM | RDCX0174 |
| 14216 | 0500 | 00 | 0 | 03502 | 6840 | | CLA | AMLIS | PICK UP ARG LIST | RDCX0175 |
| 14217 | 0020 | 00 | 0 | 14164 | 6841 | | TRA | AMLPL | DO NEXT ITEM | RDCX0176 |
| 14220 | -0734 | 00 | 4 | 00000 | 6842 | AMFRS | PDX | 0,4 | POINTER TO FULL WORD | 7100 |
| 14221 | 0500 | 00 | 4 | 00000 | 6843 | | CLA | 0,4 | GET NUMERICAL VALUE | 7130 |
| 14222 | 0601 | 00 | 0 | 14341 | 6844 | | STO | AMSUM | STORE NUMERICAL VALUE IN AMSUM | RDCX0178 |
| 14223 | -0534 | 00 | 2 | 03503 | 6845 | | LXD | AMQ,2 | PICK UP TYPE OF NUMBER | RDCX0179 |
| 14224 | 0074 | 00 | 4 | 14550 | 6846 | | TSX | FIXFLO,4 | TEST FOR FIX OR FLOAT | RDCX0180 |
| 14225 | 0761 | 00 | 0 | 00000 | 6847 | | NOP | | IMPOSSIBLE EXIT | RDCX0181 |
| 14226 | 0055 | 00 | 000040 | 6848 | 6848 | | SIR | 40 | SET FLOAT INDICATOR | RDCX0182 |
| 14227 | 0055 | 00 | 000020 | 6849 | 6849 | | SIR | 20 | SET FIX INDICATOR | RDCX0183 |
| 14230 | 0055 | 00 | 000100 | 6850 | 6850 | | SIR | 100 | SET INDICATOR SO IT WILL NOT GET BACK | RDCX0184 |
| 14231 | 0500 | 00 | 0 | 03502 | 6851 | | CLA | AMLIS | PICK UP REST OF ARG LIST | RDCX0185 |
| 14232 | 0020 | 00 | 0 | 14164 | 6852 | | TRA | AMLPL | DO NEXT ITEM | RDCX0186 |
| 14233 | 0055 | 00 | 000040 | 6853 | 6853 | AFLI | SIR | 40 | IS FLOATING POINT, SET PROPER INDICATOR | RDCX0187 |
| 14234 | 0054 | 00 | 000020 | 6854 | 6854 | | RFT | 20 | SKIP NEXT INSTRUCTION IF NOT MIXED EXP | RDCX0188 |
| 14235 | 0074 | 00 | 4 | 14270 | 6855 | AFLR | TSX | MIXFL,4 | UNMIX THE EXPRESSION | RDCX0189 |
| 14236 | 0300 | 00 | 0 | 14341 | 6856 | | FAD | AMSUM | FLOATING ADD THE CURRENT SUM | RDCX0190 |
| 14237 | 0020 | 00 | 0 | 14215 | 6857 | | TRA | AMRT | STORE AND DO NEXT ITEM ON LIST | RDCX0191 |
| 14240 | -0734 | 00 | 4 | 00000 | 6858 | AMLT | PDX | 0,4 | POINTER TO FULL WORD | 7060 |
| 14241 | 0500 | 00 | 4 | 00000 | 6859 | | CLA | 0,4 | GET NUMERICAL VALUE | 7140 |
| 14242 | -0534 | 00 | 2 | 03503 | 6860 | | LXD | AMQ,2 | PICK UP TYPE | RDCX0195 |
| 14243 | 0074 | 00 | 4 | 14550 | 6861 | | TSX | FIXFLO,4 | TEST FOR FIX OR FLOAT | RDCX0196 |
| 14244 | 0761 | 00 | 0 | 00000 | 6862 | | NOP | | IMPOSSIBLE RETURN | RDCX0197 |
| 14245 | 0020 | 00 | 0 | 14260 | 6863 | | TRA | AFMP | DO FMP | RDCX0198 |
| 14246 | 0055 | 00 | 000020 | 6864 | 6864 | | SIR | 20 | SET FIXED POINT INDICATOR | RDCX0199 |
| 14247 | -0774 | 00 | 4 | 14262 | 6865 | | AXC | AFLT,4 | PRESET IR 4 | RDCX0200 |
| 14250 | 0054 | 00 | 000040 | 6866 | 6866 | | RFT | 40 | SKIP NEXT INSTRUCTION IF NOT MIXED EXP | RDCX0201 |
| 14251 | 0020 | 00 | 0 | 14266 | 6867 | | TRA | UNFX | IS MIXED, FLOAT THIS NUMBER | RDCX0202 |
| 14252 | 0131 | 00 | 0 | 00000 | 6868 | | XCA | | NUMBER TO MQ | RDCX0203 |
| 14253 | 0200 | 00 | 0 | 14341 | 6869 | | MPY | AMSUM | MPY BY CURRENT ANSWER | RDCX0204 |
| 14254 | 0131 | 00 | 0 | 00000 | 6870 | | XCA | | PUT LEAST SIGNIFICANT BITS IN AC | RDCX0205 |
| 14255 | 0601 | 00 | 0 | 14341 | 6871 | AMRU | STO | AMSUM | STORE NEW ANSWER | RDCX0206 |
| 14256 | 0500 | 00 | 0 | 03502 | 6872 | | CLA | AMLIS | PICK UP ARG LIST | RDCX0207 |
| 14257 | 0020 | 00 | 0 | 14164 | 6873 | | TRA | AMLPL | DO NEXT ITEM | RDCX0208 |
| 14260 | 0055 | 00 | 000040 | 6874 | 6874 | AFMP | SIR | 40 | SET FLOATING POINT INDICATOR | RDCX0209 |
| 14261 | 0054 | 00 | 000020 | 6875 | 6875 | | RFT | 20 | TEST FOR MIXED EXP | RDCX0210 |
| 14262 | 0074 | 00 | 4 | 14270 | 6876 | AFLT | TSX | MIXFL,4 | UNMIX THE EXPRESSION | RDCX0211 |
| 14263 | 0131 | 00 | 0 | 00000 | 6877 | | XCA | | NUMBER TO MQ | RDCX0212 |
| 14264 | 0260 | 00 | 0 | 14341 | 6878 | | FMP | AMSUM | FMP BY CURRENT ANSWER | RDCX0213 |
| 14265 | 0020 | 00 | 0 | 14255 | 6879 | | TRA | AMRU | STORE NEW ANSER AND DO NEXT ITEM | RDCX0214 |
| 14266 | 0057 | 00 | 000020 | 6880 | 6880 | UNFX | RIR | 20 | RESET FIXED POINT INDICATOR | RDCX0215 |
| 14267 | 0020 | 00 | 0 | 14565 | 6881 | | TRA | \$UNFIX | FLOAT THE NUMBER IN THE AC | RDCX0216 |
| 14270 | 0634 | 00 | 4 | 14276 | 6882 | MIXFL | SXA | MXIR,4 | FIX MIXED EXPRESSION | RDCX0217 |
| 14271 | 0601 | 00 | 0 | 14340 | 6883 | | STO | AMR | SAVE AC | RDCX0218 |
| 14272 | 0500 | 00 | 0 | 14341 | 6884 | | CLA | AMSUM | PICK UP CURRENT ANSWER | RDCX0219 |
| 14273 | 0074 | 00 | 4 | 14266 | 6885 | | TSX | UNFX,4 | FLOAT IT | RDCX0220 |
| 14274 | 0601 | 00 | 0 | 14341 | 6886 | | STO | AMSUM | PUT IT AWAY | RDCX0221 |
| 14275 | 0500 | 00 | 0 | 14340 | 6887 | | CLA | AMR | RESTORE AC | RDCX0222 |
| 14276 | 0774 | 00 | 4 | 00000 | 6888 | MXIR | AXT | **,4 | RESTORE IR 4 | RDCX0223 |
| 14277 | 0020 | 00 | 4 | 00001 | 6889 | | TRA | 1,4 | RETURN | RDCX0224 |
| 14300 | -0534 | 00 | 2 | 03503 | 6890 | AMM | LXD | AMQ,2 | MAX OR MIN FUNCTION. GET TYPE | RDCX0255 |
| 14301 | 0074 | 00 | 4 | 14550 | 6891 | | TSX | FIXFLO,4 | TEST FOR FIX OR FLOAT | RDCX0256 |

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|-------|-------|-------|---|--------|------|--------|--------|------------|---|----------|
| 14302 | 0761 | 00 | 0 | 00000 | 6892 | | NOP | | IMPOSSIBLE RETURN | RDCX0257 |
| 14303 | 0020 | 00 | 0 | 14316 | 6893 | | TRA | AFI | EXECUTE FLOATING SECTION | RDCX0258 |
| 14304 | 0055 | 00 | 0 | 000020 | 6894 | | SIR | 20 | SET FIXED POINT INDICATOR | RDCX0259 |
| 14305 | 0054 | 00 | 0 | 000040 | 6895 | | RFT | 40 | TEST FOR MIXED EXP | RDCX0260 |
| 14306 | 0074 | 00 | 4 | 14266 | 6896 | | TSX | UNFX,4 | FLOAT THE ARGUMENT IF MIXED | RDCX0261 |
| 14307 | 0056 | 00 | 0 | 000004 | 6897 | AMRNT | RNT | 4 | TEST FORMAX FUNCTION | RDCX0262 |
| 14310 | 0020 | 00 | 0 | 14322 | 6898 | | TRA | AMIN | EXECUTE MIN FUNCTION | RDCX0263 |
| 14311 | 0340 | 00 | 0 | 14341 | 6899 | | CAS | AMSUM | COMPARE WITH CURRENT ANSWER | RDCX0264 |
| 14312 | 0601 | 00 | 0 | 14341 | 6900 | | STO | AMSUM | IS GREATER, STORE AS NEW ANSWER | RDCX0265 |
| 14313 | 0761 | 00 | 0 | 000000 | 6901 | | NOP | | THEY ARE EQUAL | RDCX0266 |
| 14314 | 0500 | 00 | 0 | 03502 | 6902 | | CLA | AMLIS | IS LESS, PICK UP ARGUMENT LIST | RDCX0267 |
| 14315 | 0020 | 00 | 0 | 14164 | 6903 | | TRA | AMLP | DO NEXT ITEM | RDCX0268 |
| 14316 | 0055 | 00 | 0 | 000040 | 6904 | AFL | SIR | 40 | SET FLOATING POINT INDICATOR | RDCX0269 |
| 14317 | 0054 | 00 | 0 | 000020 | 6905 | | RFT | 20 | TEST FOR MIXED EXPRESSION | RDCX0270 |
| 14320 | 0074 | 00 | 4 | 14270 | 6906 | | TSX | MIXFL,4 | UNMIX THE EXPRESSION | RDCX0271 |
| 14321 | 0020 | 00 | 0 | 14307 | 6907 | | TRA | AMRNT | COMPARE AND DO NEXT ITEM | RDCX0272 |
| 14322 | 0340 | 00 | 0 | 14341 | 6908 | AMIN | CAS | AMSUM | MIN FUNCTION, COMPARE WITH CURRENT VAL | RDCX0273 |
| 14323 | 0020 | 00 | 0 | 14326 | 6909 | | TRA | **+3 | IS GREATER | RDCX0274 |
| 14324 | 0020 | 00 | 0 | 14326 | 6910 | | TRA | **+2 | IS EQUAL | RDCX0275 |
| 14325 | 0601 | 00 | 0 | 14341 | 6911 | | STO | AMSUM | IS LESS, STORE AS NEW ANSWER | RDCX0276 |
| 14326 | 0500 | 00 | 0 | 03502 | 6912 | | CLA | AMLIS | PICK UP NEXT ITEM | RDCX0277 |
| 14327 | 0020 | 00 | 0 | 14164 | 6913 | | TRA | AMLP | EXECUTE IT | RDCX0278 |
| 14330 | 0500 | 00 | 0 | 14341 | 6914 | AMEND | CLA | AMSUM | ALL DONE. PICK UP CURRENT ANSWER | RDCX0279 |
| 14331 | 0560 | 00 | 0 | 00475 | 6915 | | LDQ | AMFXC | PRESET MQ | RDCX0280 |
| 14332 | 0054 | 00 | 0 | 000040 | 6916 | | RFT | 40 | SKIP NEXT IF FIXED POINT | RDCX0281 |
| 14333 | 0560 | 00 | 0 | 00476 | 6917 | | LDQ | AMFLC | PICK UP FIX IN MQ | RDCX0282 |
| 14334 | 0441 | 00 | 0 | 03501 | 6918 | | LDI | AMIND | RESTORE INDICATORS | RDCX0283 |
| 14335 | -0534 | 00 | 4 | 03500 | 6919 | | LXD | AMIR,4 | RESTORE IR 4 | RDCX0284 |
| 14336 | 0774 | 00 | 2 | 00000 | 6920 | AMIR2 | AXT | ** ,2 | RESTORE IR 2 | RDCX0285 |
| 14337 | 0020 | 00 | 0 | 12636 | 6921 | | TRA | \$MKNO | MAKE THE ANSWER A NUMBER | RDCX0286 |
| | | | | 00476 | 6922 | AMFLC | SYN | FLOATD | FLAOT CONSTANT | RDCX0287 |
| | | | | 00475 | 6923 | AMFXC | SYN | \$FIXD | FIX CONSTANT | RDCX0288 |
| 14340 | 0 | 00000 | 0 | 00000 | 6924 | AMR | | | TEMP STORAGE | RDCX0290 |
| 14341 | 0 | 00000 | 0 | 00000 | 6925 | AMSUM | | | CURRENT ANSWER STORAGE | RDCX0294 |
| | | | | | 6926 | * | NUMVAL | | NUMERICAL VALUE TAKES ANY LIST AND DECIDES IF IT | RDCX0297 |
| | | | | | 6927 | * | | | REPRESENTS A FIXED POINT OR FLOATING POINT NUMBER. IF IT DOES NOT | RDCX0298 |
| | | | | | 6928 | * | | | THE ROUTINE CLEARS THE AC AND MQ DOES AN XEC 1,4 AND THEN GOES | RDCX0299 |
| | | | | | 6929 | * | | | TO ERROR WITH A BAD ARGUMENT COMPLAINT. IF THE LIST DOES | RDCX0300 |
| | | | | | 6930 | * | | | REPRESENT A NUMBER, UPON EXIT THE FOLLOWING THINGS ARE LEFT | RDCX0301 |
| | | | | | 6931 | * | | | AS INDICATED | RDCX0302 |
| | | | | | 6932 | * | | | \$FIX OR \$FLOAT IN MQ | RDCX0303 |
| 14342 | 0634 | 00 | 4 | 14372 | 6933 | NUMVAL | SXA | NVIR4,4 | SAVE LINK IR | RDCX0309 |
| 14343 | 0601 | 00 | 0 | 03321 | 6934 | | STO | \$ARG3 | SAVE ORIGINAL ARGUMENT | 7220 |
| 14344 | -0734 | 00 | 4 | 00000 | 6935 | | PDX | 0,4 | POINTER TO NUMBER IN IR 4 | RDCX0314 |
| 14345 | -3 | 00000 | 4 | 14351 | 6936 | NVLP | TXL | NVNO,4,0 | NULL LIST IS NOT A NUMBER | RDCX0315 |
| 14346 | 0500 | 00 | 4 | 00000 | 6937 | | CLA | 0,4 | FIRST ELEMENT | RDCX0316 |
| 14347 | 0734 | 00 | 4 | 00000 | 6938 | | PAX | 0,4 | CAR LIST | RDCX0317 |
| 14350 | 3 | 77776 | 4 | 14362 | 6939 | | TXH | NVATM,4,-2 | GO IF AN ATOM | RDCX0318 |
| | | | | | 6940 | * | | | | RDCX0331 |
| 14351 | -0754 | 00 | 0 | 00000 | 6941 | NVNO | PXD | 0,0 | IS NOT NUMBER, CLEAR AC | RDCX0332 |
| 14352 | 0131 | 00 | 0 | 00000 | 6942 | | XCA | | PUT IN MQ | RDCX0333 |
| 14353 | -0754 | 00 | 0 | 00000 | 6943 | | PXD | 0,0 | CLEAR AC AGAIN | RDCX0334 |
| 14354 | 0534 | 00 | 4 | 14372 | 6944 | | LXA | NVIR4,4 | RESTORE LINK IR | RDCX0335 |
| 14355 | 0522 | 00 | 4 | 00001 | 6945 | | XEC | 1,4 | EXECUTE POSSIBLE EXIT INSTRUCTION | RDCX0338 |

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|-------|--------------|-------|---|-------|------|---|---|--|----------|
| 14356 | 0500 | 00 | 0 | 03321 | 6946 | CLA | \$ARG3 | MUST BE AN ERROR, PICK UP ORIGINAL ARG | 7230 |
| 14357 | -0634 | 00 | 4 | 01562 | 6947 | SXD | \$ERROR,4 | | RDCX0340 |
| 14360 | 0074 | 00 | 4 | 01563 | 6948 | TSX | \$ERROR+1,4 | GO TO ERROR | RDCX0341 |
| 14361 | 543160600354 | | | | 6949 | BCI | 1,*I 3* | BAD ARGUMENT NUMVAL | |
| | | | | | 6950 | * | | | RDCX0346 |
| 14362 | -0734 | 00 | 4 | 00000 | 6951 | NVATM | PDX 0,4 | | |
| 14363 | -0320 | 00 | 0 | 00470 | 6952 | ANA | TAGMSK | | |
| 14364 | 0100 | 00 | 0 | 14351 | 6953 | TZE | NVNO | | |
| 14365 | 0771 | 00 | 0 | 00017 | 6954 | ARS | 15 | | |
| 14366 | 0621 | 00 | 0 | 14370 | 6955 | STA | **2 | | |
| 14367 | -0754 | 00 | 4 | 00000 | 6956 | PXD | 0,4 | | |
| 14370 | -0774 | 00 | 4 | 00000 | 6957 | AXC | **,4 | | |
| 14371 | 0560 | 00 | 4 | 14373 | 6958 | LDQ | NVTBL,4 | | |
| 14372 | 0774 | 00 | 4 | 00000 | 6959 | NVIR4 | AXT **,4 | RESTORE IR 4 | RDCX0369 |
| 14373 | 0020 | 00 | 4 | 00001 | 6960 | NVTBL | TRA 1,4 | | |
| 14374 | 0 | 10135 | 0 | 00000 | 6961 | | 0,, \$FIX | | |
| 14375 | 0 | 10120 | 0 | 00000 | 6962 | | 0,, \$FLOAT | | |
| 14376 | 0 | 00000 | 0 | 00000 | 6963 | | 0,,0 | | |
| 14377 | 0 | 00000 | 0 | 00000 | 6964 | | 0,,0 | | |
| 14400 | 0 | 10135 | 0 | 00000 | 6965 | | 0,, \$FIX | | |
| | | | | | 6966 | * | | | |
| | | | | | 6967 | * | | | RDCX0372 |
| | | | | | 6968 | * ADD1 | ADD 1 ADDS ONE TO ANY FIXED POINT OR FLOATING POINT | | RDCX0418 |
| | | | | | 6969 | * NUMBER AND EXITS WITH THE NEW NUMBER | | | RDCX0419 |
| 14401 | 0634 | 00 | 1 | 14417 | 6970 | ADD1 | SXA AIIR1,1 | SAVE IR 1 | RDCX0420 |
| 14402 | 0774 | 00 | 1 | 00000 | 6971 | AXT | 0,1 | ZERO IR 1 (INDICATES ADD OP) | RDCX0421 |
| 14403 | 0634 | 00 | 2 | 14420 | 6972 | AD1 | SXA AIIR2,2 | SAVE IR 2 | RDCX0422 |
| 14404 | 0634 | 00 | 4 | 14421 | 6973 | SXA | AIIR4,4 | SAVE LINK IR | RDCX0423 |
| 14405 | 0074 | 00 | 4 | 14342 | 6974 | TSX | NUMVAL,4 | EVALUTE NUMERICAL ARGUMENT | |
| 14406 | -0600 | 00 | 0 | 14423 | 6975 | STQ | AIT | SAVE \$FIX OR \$FLOAT | RDCX0425 |
| 14407 | -0734 | 00 | 4 | 00000 | 6976 | PDX | 0,4 | POINTER TO FULL WORD | 7090 |
| 14410 | 0500 | 00 | 4 | 00000 | 6977 | CLA | 0,4 | GET NUMERICAL VALUE | 7150 |
| 14411 | -0534 | 00 | 2 | 14423 | 6978 | LXD | AIT,2 | PICK UP \$FIX OR \$FLOAT | RDCX0427 |
| 14412 | 0074 | 00 | 4 | 14550 | 6979 | TSX | FIXFLO,4 | | RDCX0428 |
| 14413 | 0761 | 00 | 0 | 00000 | 6980 | NOP | | IMPOSSIBLE RETURN | RDCX0429 |
| 14414 | 0522 | 00 | 1 | 14424 | 6981 | XEC | FAD,1 | IS FLOAT, DO FLOATING POINT OP | RDCX0430 |
| 14415 | 0522 | 00 | 1 | 14426 | 6982 | XEC | ADDF,1 | DO FIXED POINT OP | RDCX0431 |
| 14416 | 0560 | 00 | 0 | 14423 | 6983 | LDQ | AIT | RESTORE \$FLOAT AFTER FAD | RDCX0432 |
| 14417 | 0774 | 00 | 1 | 00000 | 6984 | AIIR1 | AXT **,1 | RESTORE IR 1 | RDCX0433 |
| 14420 | 0774 | 00 | 2 | 00000 | 6985 | AIIR2 | AXT **,2 | RESTORE IR 2 | RDCX0434 |
| 14421 | 0774 | 00 | 4 | 00000 | 6986 | AIIR4 | AXT **,4 | RESTORE LINK IR | RDCX0435 |
| 14422 | 0020 | 00 | 0 | 12636 | 6987 | TRA | \$MKNO | MAKE RESULT A NUMBER | RDCX0436 |
| | | | | | 6988 | * | | | RDCX0437 |
| 14423 | 0 | 00000 | 0 | 00000 | 6989 | AIT | | TEMPORARY STORAGE | RDCX0438 |
| 14424 | 0300 | 00 | 0 | 00454 | 6990 | FAD | FAD \$QF1 | FLOATING ADD FOR ADD1 | RDCX0439 |
| 14425 | 0302 | 00 | 0 | 00454 | 6991 | FSB | \$QF1 | FOR SUB1 | RDCX0440 |
| 14426 | 0400 | 00 | 0 | 00371 | 6992 | ADDF | ADD \$Q1 | FOR ADD1 | RDCX0441 |
| 14427 | 0402 | 00 | 0 | 00371 | 6993 | SUB | \$Q1 | FOR SUB1 | RDCX0442 |
| | | | | | 6994 | * | | | 7250 |
| | | | | | 6995 | * SUB1 | SUBTRACT 1 SUBTRACTS ONE FROM A FIXED POINT OR FLOATING | | RDCX0444 |
| | | | | | 6996 | * POINT NUMBER. USES CODING OF ADD1 WITH AN INITIALIZATION. | | | RDCX0445 |
| 14430 | 0634 | 00 | 1 | 14417 | 6997 | SUB1 | SXA AIIR1,1 | SAVE IR 1 | RDCX0446 |
| 14431 | 0774 | 00 | 1 | 77777 | 6998 | AXT | -1,1 | SET FOR SUBTRACT OPERATIONS | RDCX0447 |
| 14432 | 0020 | 00 | 0 | 14403 | 6999 | TRA | AD1 | PERFORM ADD1 CODING | RDCX0448 |

| | | | | | | | | | |
|-------|-------|----|---|-------|--------|--------|----------|--|--------------------------------------|
| 14475 | 0020 | 00 | 0 | 14524 | 7054 | TRA | ZPF | IS FLOAT, EXIT FALSE | RDCX0536 |
| 14476 | 0500 | 00 | 0 | 00442 | 7055 | CLA | \$QD1 | IS FIX, GET TRUTH VALUE | RDCX0537 |
| 14477 | 0020 | 00 | 0 | 14525 | 7056 | TRA | ZPIR | RESTORE IR S AND RETURN | RDCX0538 |
| | | | | | 7057 * | | | | RDCX0539 |
| | | | | | 7058 * | MINUSP | | MINUS PREDICATE TESTS TO SEE IF ITS ARGUMENT IS A | RDCX0540 |
| | | | | | 7059 * | | | NEGATIVE NUMBER. | RDCX0541 |
| 14500 | 0634 | 00 | 4 | 14451 | 7060 | MINUSP | SXA | NPIR,4 | SAVE LINK IR |
| 14501 | 0074 | 00 | 4 | 14342 | 7061 | TSX | NUMVAL,4 | EVALUATE ARGUMENT | RDCX0542 |
| 14502 | -0734 | 00 | 4 | 00000 | 7062 | PDX | 0,4 | | RDCX0543 |
| 14503 | 0500 | 00 | 4 | 00000 | 7063 | CLA | 0,4 | PICK UP NUMBER | RDCX0544 |
| 14504 | -0120 | 00 | 0 | 14450 | 7064 | TMI | NPT | EXIT TRUE IF MINUS | 7310 |
| 14505 | -0754 | 00 | 0 | 00000 | 7065 | PXD | 0,0 | IS NOT, EXIT FALSE | RDCX0550 |
| 14506 | 0020 | 00 | 0 | 14451 | 7066 | TRA | NPIR | RESTORE LINK IR AND EXIT | RDCX0551 |
| | | | | | 7067 * | | | | RDCX0552 |
| | | | | | 7068 * | ZEROP | | ZERO PREDICATE TESTS ITS ARGUMENT FOR A FIXED POINT | RDCX0553 |
| | | | | | 7069 * | ZERO | OR | | RDCX0554 |
| | | | | | 7070 * | | | ZERO OR A FLOATING POINT ZERO + OR - A TOLERANCE (FLOTOL). | RDCX0555 |
| 14507 | 0634 | 00 | 4 | 14451 | 7071 | ZEROP | SXA | NPIR,4 | SAVE LINK IR |
| 14510 | 0634 | 00 | 2 | 14525 | 7072 | SXA | ZPIR,2 | SAVE IR 2 | RDCX0556 |
| 14511 | 0074 | 00 | 4 | 14342 | 7073 | TSX | NUMVAL,4 | EVALUATE ARGUMENT | RDCX0557 |
| 14512 | -0734 | 00 | 4 | 00000 | 7074 | PDX | 0,4 | GET POINTER TO IR 4 | RDCX0558 |
| 14513 | 0500 | 00 | 4 | 00000 | 7075 | CLA | 0,4 | FULL WORD | RDCX0560 |
| 14514 | 0760 | 00 | 0 | 00003 | 7076 | ZPG | SSP | GET MAGNITUDE OF N | |
| 14515 | 0100 | 00 | 0 | 14527 | 7077 | TZE | ZPT | EXIT TRUE IF ZERO | |
| 14516 | 0131 | 00 | 0 | 00000 | 7078 | XCA | | PUT NUMBER IN MQ | RDCX0565 |
| 14517 | -0734 | 00 | 2 | 00000 | 7079 | PDX | 0,2 | PUT TYPE IN IR 2 | RDCX0566 |
| 14520 | 0500 | 00 | 0 | 14623 | 7080 | CLA | FLOTOL | PICK UP FLOATING POINT TOLERANCE | RDCX0567 |
| 14521 | 0074 | 00 | 4 | 14550 | 7081 | TSX | FIXFLO,4 | TEST FOR FIX OR FLOAT | RDCX0568 |
| 14522 | 0020 | 00 | 0 | 14531 | 7082 | TRA | ZPTS | NOT FIX OR FLO MEANS FLO FROM ONEP | |
| 14523 | 0020 | 00 | 0 | 14531 | 7083 | TRA | ZPTS | IS FLOATING POINT, COMPARE WITH FLOTOL | RDCX0570 |
| 14524 | -0754 | 00 | 0 | 00000 | 7084 | ZPF | PXD | 0,0 | IS FIXED POINT, EXIT FALSE |
| 14525 | 0774 | 00 | 2 | 00000 | 7085 | ZPIR | AXT | ** , 2 | RESTORE IR 2 |
| 14526 | 0020 | 00 | 0 | 14451 | 7086 | TRA | NPIR | RESTORE IR 4 AND EXIT | RDCX0572 |
| 14527 | 0500 | 00 | 0 | 00442 | 7087 | ZPT | CLA | \$QD1 | GET TRUTH VALUE |
| 14530 | 0020 | 00 | 0 | 14525 | 7088 | TRA | ZPIR | RESTORE IR S AND EXIT | RDCX0573 |
| 14531 | 0040 | 00 | 0 | 14527 | 7089 | ZPTS | TLQ | ZPT | IS FLOATING POINT, EXIT TRUE IF LESS |
| 14532 | 0020 | 00 | 0 | 14524 | 7090 | TRA | ZPF | OTHERWISE EXIT FALSE | RDCX0574 |
| | | | | | 7091 * | ONEP | | ONE PREDICATE TESTS TO SEE IF ITS ARGUMENT IS ONE | RDCX0575 |
| | | | | | 7092 * | | | BY SUBTRACTING ONE AND TESTING THE RESULT WITH ZEROP. | RDCX0576 |
| 14533 | 0634 | 00 | 4 | 14451 | 7093 | ONEP | SXA | NPIR,4 | SAVE LINK IR |
| 14534 | 0634 | 00 | 2 | 14525 | 7094 | SXA | ZPIR,2 | SAVE IR 2 | RDCX0577 |
| 14535 | 0074 | 00 | 4 | 14342 | 7095 | TSX | NUMVAL,4 | EVALUATE ARGUMENT | RDCX0578 |
| 14536 | -0734 | 00 | 4 | 00000 | 7096 | PDX | 0,4 | POINTER TO AC | RDCX0579 |
| 14537 | 0500 | 00 | 4 | 00000 | 7097 | CLA | 0,4 | FULL WORD TO AC | RDCX0580 |
| 14540 | 0131 | 00 | 0 | 00000 | 7098 | XCA | | TYPE TO AC | RDCX0581 |
| 14541 | -0734 | 00 | 2 | 00000 | 7099 | PDX | 0,2 | TYPE TO IR 2 | RDCX0582 |
| 14542 | 0131 | 00 | 0 | 00000 | 7100 | XCA | | | RDCX0583 |
| 14543 | 0074 | 00 | 4 | 14550 | 7101 | TSX | FIXFLO,4 | DISPATCH ON FIX OR FLOAT | RDCX0584 |
| 14544 | 0761 | 00 | 0 | 00000 | 7102 | NOP | | IMPOSSIBLE RETURN | RDCX0585 |
| 14545 | 0302 | 00 | 0 | 00454 | 7103 | FSB | \$QF1 | | RDCX0586 |
| 14546 | 0402 | 00 | 0 | 00371 | 7104 | SUB | \$Q1 | SUBTRACT 1 | RDCX0587 |
| 14547 | 0020 | 00 | 0 | 14514 | 7105 | TRA | ZPG | APPLY ZERO PREDICATE | RDCX0588 |
| | | | | | 7106 * | | | | RDCX0589 |
| | | | | | 7107 * | FIXFLO | | SUBROUTINE TO DISPATCH ON FIX OR FLO, | 7320 |

| | | | | | 7108 * | ARGUMENT IN IR 2. | | | 7330 | |
|-------|-------|-------|---|-------|--------|---|---|-----------------|---|----------|
| | | | | | 7109 * | | | | RDCX0698 | |
| 14550 | -3 | 10134 | 2 | 14552 | 7110 | FIXFLO | TXL | **2,2,\$FIX-1 | TXL - TXL FILTER FOR \$FIX | RDCX0699 |
| 14551 | -3 | 10135 | 2 | 14564 | 7111 | | TXL | FX,2,\$FIX | GO IF \$FIX | RDCX0700 |
| 14552 | -3 | 10117 | 2 | 14554 | 7112 | | TXL | **2,2,\$FLOAT-1 | TXL - TXL FILTER FOR \$FLOAT | RDCX0701 |
| 14553 | -3 | 10120 | 2 | 14560 | 7113 | | TXL | FI,2,\$FLOAT | GO IF \$FLOAT | RDCX0702 |
| 14554 | 0522 | 00 | 4 | 00001 | 7114 | | XEC | 1,4 | EXCEUTE IF NEITHER FIX OR FLOAT | RDCX0703 |
| 14555 | 0020 | 00 | 4 | 00004 | 7115 | | TRA | 4,4 | RETURN | RDCX0704 |
| 14556 | 0020 | 00 | 4 | 00005 | 7116 | | TRA | 5,4 | SKIP EXIT | RDCX0705 |
| 14557 | 0020 | 00 | 4 | 00006 | 7117 | | TRA | 6,4 | SKIP 2 EXIT | RDCX0706 |
| 14560 | 0522 | 00 | 4 | 00002 | 7118 | FL | XEC | 2,4 | EXECUTE IF \$FLOAT | RDCX0707 |
| 14561 | 0020 | 00 | 4 | 00004 | 7119 | | TRA | 4,4 | RETURN | RDCX0708 |
| 14562 | 0020 | 00 | 4 | 00005 | 7120 | | TRA | 5,4 | SKIP EXIT | RDCX0709 |
| 14563 | 0020 | 00 | 4 | 00006 | 7121 | | TRA | 6,4 | SKIP 2 EXIT | RDCX0710 |
| 14564 | 0020 | 00 | 4 | 00003 | 7122 | FX | TRA | 3,4 | | RDCX0711 |
| | | | | | 7123 * | FIXFLO USES \$FIX AND \$FLAOT | | | RDCX0712 | |
| | | | | | 7124 * | UNFIX | UNFIX MAKES A FIXED POINT ARGUMENT IN THE AC A FLOATING | | | RDCX0713 |
| | | | | | 7125 * | POINT NUMBER LEFT IN AC. MQ IS PRESERVED. | | | RDCX0714 | |
| 14565 | 0601 | 00 | 0 | 14621 | 7126 | UNFIX | STO | UFC | SAVE ARGUMENT | RDCX0715 |
| 14566 | -0320 | 00 | 0 | 00434 | 7127 | | ANA | UFMSK | MASK OUT ALL BUT CHARACTERISTIC | RDCX0716 |
| 14567 | -0100 | 00 | 0 | 14576 | 7128 | | TNZ | UFE | IF ANY THING LEFT IT MUST BE NORMALIZED | RDCX0717 |
| 14570 | 0500 | 00 | 0 | 14621 | 7129 | | CLA | UFC | NOTHING LEFT, RESTORE ARGUMENT | RDCX0718 |
| 14571 | -0501 | 00 | 0 | 00433 | 7130 | | ORA | UFMC | OR IN CHARACTERISTIC | RDCX0719 |
| 14572 | -0600 | 00 | 0 | 14620 | 7131 | | STQ | UFQ | SAVE MQ | RDCX0720 |
| 14573 | 0300 | 00 | 0 | 00433 | 7132 | | FAD | UFMC | ESSENTIALLY FAD OF ZERO TO NORMALIZE | RDCX0721 |
| 14574 | 0560 | 00 | 0 | 14620 | 7133 | | LDO | UFMC | RESTORE MQ | RDCX0722 |
| 14575 | 0020 | 00 | 4 | 00001 | 7134 | | TRA | 1,4 | EXIT | RDCX0723 |
| | | | | | 7135 * | | | | RDCX0724 | |
| 14576 | 0634 | 00 | 4 | 14616 | 7136 | UFE | SXA | UFXR,4 | NUMBER GREATER THAN 2 TO 27. SAVE IR4 | RDCX0725 |
| 14577 | 0774 | 00 | 4 | 00234 | 7137 | | AXT | 2*64+3*8+4,4 | CHARACTERISTIC SO FAR | RDCX0726 |
| 14600 | 0600 | 00 | 0 | 14622 | 7138 | | SFZ | UFS | INITIALIZE SIGN PORTION | RDCX0727 |
| 14601 | 0120 | 00 | 0 | 14604 | 7139 | | TPL | UFF | SKIP IF + | RDCX0728 |
| 14602 | 0760 | 00 | 0 | 00003 | 7140 | | SSP | | MAKE IT + | RDCX0729 |
| 14603 | -0625 | 00 | 0 | 14622 | 7141 | | STL | UFS | RECORD FACT BY MAKING UFS NON-ZERO | RDCX0730 |
| 14604 | 0771 | 00 | 0 | 00001 | 7142 | UFF | ARS | 1 | DIVIDE NUMBER BY 2 | RDCX0731 |
| 14605 | 0340 | 00 | 0 | 00432 | 7143 | | CAS | UFNC | SEE IF NORMALIZED YET | RDCX0732 |
| 14606 | 1 | 00001 | 4 | 14604 | 7144 | | TXI | UFF,4,1 | ADD 1 TO CHARACTERISTIC AND TRY AGAIN | RDCX0733 |
| 14607 | 1 | 00001 | 4 | 14604 | 7145 | | TXI | UFF,4,1 | DITTO | RDCX0734 |
| 14610 | 0601 | 00 | 0 | 14621 | 7146 | | STO | UFC | IS NORMALIZED | RDCX0735 |
| 14611 | -0754 | 00 | 4 | 00000 | 7147 | | PXD | 0,4 | CHARACTERISTIC TO AC | RDCX0736 |
| 14612 | 0767 | 00 | 0 | 00011 | 7148 | | ALS | 9 | POSITION CHARACTERISTIC | RDCX0737 |
| 14613 | -0501 | 00 | 0 | 14621 | 7149 | | ORA | UFC | OR IN NORMALIZED NUMBER | RDCX0738 |
| 14614 | 0520 | 00 | 0 | 14622 | 7150 | | ZET | UFS | TEST FOR SIGN, 0 MEANS + | RDCX0739 |
| 14615 | -0760 | 00 | 0 | 00003 | 7151 | | SSM | | NOT ZERO SO MAKE MINUS | RDCX0740 |
| 14616 | 0774 | 00 | 4 | 00000 | 7152 | UFXR | AXT | ** ,4 | RESTORE IR 4 | RDCX0742 |
| 14617 | 0020 | 00 | 4 | 00001 | 7153 | | TRA | 1,4 | EXIT | RDCX0743 |
| | | | | | 00434 | 7154 | UFMSK | SYN Q777Q9 | CHARACTERISTIC MASK | |
| | | | | | 00433 | 7155 | UFMC | SYN Q233Q9 | GENERAL CHARACTERISTIC | |
| | | | | | 00432 | 7156 | UFNC | SYN \$Q01Q9 | | |
| 14620 | 0 | 00000 | 0 | 00000 | 7157 | | UFQ | | MQ | RDCX0747 |
| 14621 | 0 | 00000 | 0 | 00000 | 7158 | | UFC | | AC TEMPORARY STORAGE | RDCX0748 |
| 14622 | 0 | 00000 | 0 | 00000 | 7159 | | UFS | | SIGN STORAGE | RDCX0749 |
| | | | | | 7160 * | UNFIX USES NC EXTERNAL CONSTANTS. | | | RDCX0750 | |
| | | | | | 7161 * | FLOTOL | FLOATING POINT TOLERANCE USED IN DESIDING IF FLOATING | | RDCX0751 | |

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|-------|----------|----|-------|--------|--|------------------|--|----------|
| | | | | 7205 | EJECT | | | |
| | | | | 7206 | APPLY | | | LC430100 |
| | | | | 7207 | | | | LC430200 |
| | | | | 7208 | APPLY(F,L,A) = | | | LC430300 |
| | | | | 7209 | SELECT(CAR(L),, | | | LC430400 |
| | | | | 7210 | -1,APP2(F,L,A),, | | | LC430500 |
| | | | | 7211 | LAMBDA,EVAL(F,APPEND(PAIR(CADR(F),L),A)),, | | | LC430600 |
| | | | | 7212 | LABEL,APPLY(CADDR(F),L,APPEND(| | | LC430700 |
| | | | | 7213 | PAIR1(CADR(F),CADDR(F))),A),, | | | LC430800 |
| | | | | 7214 | APPLY(EVAL(F,A),L,A) | | | LC430900 |
| | | | | 7215 | | | | LC431000 |
| | | | | 7216 A | HED | | | LC431100 |
| 14663 | -0634 | 00 | 4 | 03350 | 7217 | APPLY SXD ASS1,4 | | LC431800 |
| 14664 | 0100 | 00 | 4 | 00001 | 7218 | IZE 1,4 | | LC431900 |
| 14665 | 0601 | 00 | 0 | 03353 | 7219 | STO AST1 | F | LC432000 |
| 14666 | -0734 | 00 | 4 | 00000 | 7220 | PDX 0,4 | | LC432100 |
| 14667 | 0634 | 00 | 4 | 03350 | 7221 | SXA ASS1,4 | SAVE FUNCTION ALONG WITH INDEX REGISTE | |
| 14670 | 0500 | 00 | 4 | 00000 | 7222 | CLA 0,4 | CWR(F) | LC432200 |
| 14671 | 0734 | 00 | 4 | 00000 | 7223 | PAX 0,4 | CAR(F) | LC432300 |
| 14672 | 3 7776 | 4 | 14722 | 7224 | TXH ASP1,4,-2 | | =-1 | LC432400 |
| 14673 | -0754 | 00 | 4 | 00000 | 7225 | PXD 0,4 | | LC432500 |
| 14674 | 0340 | 00 | 0 | 00502 | 7226 | CAS ASLMD | = LAMBDA | LC432600 |
| 14675 | 0020 | 00 | 0 | 14677 | 7227 | TRA **2 | | LC432700 |
| 14676 | 0020 | 00 | 0 | 14725 | 7228 | TRA ASP2 | | LC432800 |
| 14677 | 0340 | 00 | 0 | 00500 | 7229 | CAS ASFUN | | LC432900 |
| 14700 | 0020 | 00 | 0 | 14702 | 7230 | TRA **2 | | LC433000 |
| 14701 | 0020 | 00 | 0 | 15000 | 7231 | TRA ASP4 | | LC433100 |
| 14702 | 0340 | 00 | 0 | 00501 | 7232 | CAS ASLBL | = LABEL | LC433200 |
| 14703 | 0020 | 00 | 0 | 14705 | 7233 | TRA **2 | | LC433300 |
| 14704 | 0020 | 00 | 0 | 14750 | 7234 | TRA ASP3 | | LC433400 |
| 14705 | 0074 | 00 | 4 | 02312 | 7235 | TSX \$SAVE,4 | | LC433500 |
| 14706 | -3 03354 | 0 | 02375 | 7236 | TXL \$END3,,ASSA+2 | | SAVE 3 ITEMS | |
| 14707 | -0600 | 00 | 0 | 03351 | 7237 | STQ ASSL | | LC433700 |
| 14710 | 0560 | 00 | 0 | 03321 | 7238 | LDQ \$ARG3 | | LC433800 |
| 14711 | -0600 | 00 | 0 | 03352 | 7239 | STQ ASSA | | LC433900 |
| 14712 | 0500 | 00 | 0 | 03353 | 7240 | CLA AST1 | F | LC434000 |
| 14713 | 0074 | 00 | 4 | 15454 | 7241 | TSX \$EVAL,4 | EVAL(F,A) | LC434100 |
| 14714 | 0560 | 00 | 0 | 03352 | 7242 | LDQ ASSA | | LC434200 |
| 14715 | -0600 | 00 | 0 | 03321 | 7243 | STQ \$ARG3 | | LC434300 |
| 14716 | 0560 | 00 | 0 | 03351 | 7244 | LDQ ASSL | | LC434400 |
| 14717 | 0074 | 00 | 4 | 02326 | 7245 | TSX UNSAVE,4 | | LC434500 |
| 14720 | -0534 | 00 | 4 | 03350 | 7246 | LXD ASS1,4 | | LC434700 |
| 14721 | 0020 | 00 | 0 | 14663 | 7247 | TRA APPLY | APPLY(EVAL(F,A),L,A) | LC434800 |
| | | | | 7248 | | | | LC434900 |
| 14722 | 0500 | 00 | 0 | 03353 | 7249 | ASP1 CLA AST1 | F | LC435000 |
| 14723 | -0534 | 00 | 4 | 03350 | 7250 | LXD ASS1,4 | | LC435100 |
| 14724 | 0020 | 00 | 0 | 15016 | 7251 | TRA \$APP2 | P APP2(F,L,A) | LC435200 |
| | | | | 7252 * | | LAMBDA BRANCH | | 1.500060 |
| 14725 | -0534 | 00 | 4 | 03353 | 7253 | ASP2 LXD AST1,4 | F | LC435400 |
| 14726 | 0500 | 00 | 0 | 03321 | 7254 | CLA \$ARG3 | | LC435600 |
| 14727 | 0601 | 00 | 0 | 03355 | 7255 | STO AST3 | | LC435700 |
| 14730 | 0500 | 00 | 4 | 00000 | 7256 | CLA 0,4 | CWR(F) | LC435800 |
| 14731 | -0734 | 00 | 4 | 00000 | 7257 | PDX 0,4 | CDR(F) | LC435900 |
| 14732 | 0500 | 00 | 4 | 00000 | 7258 | CLA 0,4 | CWDR(F) | LC436000 |

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|-------|-------|----|---|-------|------|------|-----------|--|---|----------|
| 14733 | 0601 | 00 | 0 | 03356 | 7259 | STO | AST4 | | | LC436100 |
| 14734 | 0734 | 00 | 4 | 00000 | 7260 | PAX | 0,4 | CADR(F) | | LC436200 |
| 14735 | -0754 | 00 | 4 | 00000 | 7261 | PXD | 0,4 | | | LC436300 |
| 14736 | 0074 | 00 | 4 | 07562 | 7262 | TSX | \$PAIR,4 | PAIR(CADR(F),L) | | LC436400 |
| 14737 | 0560 | 00 | 0 | 03355 | 7263 | LDQ | AST3 | A | | LC436500 |
| 14740 | 0074 | 00 | 4 | 07675 | 7264 | TSX | \$NCCNC,4 | | | |
| 14741 | 0131 | 00 | 0 | 00000 | 7265 | XCA | | | | |
| 14742 | -0534 | 00 | 4 | 03356 | 7266 | LXD | AST4,4 | CCDR(F) | | LC436800 |
| 14743 | 0500 | 00 | 4 | 00000 | 7267 | CLA | 0,4 | | | LC436900 |
| 14744 | 0734 | 00 | 4 | 00000 | 7268 | PAX | 0,4 | | | LC437000 |
| 14745 | -0754 | 00 | 4 | 00000 | 7269 | PXD | 0,4 | | | LC437100 |
| 14746 | -0534 | 00 | 4 | 03350 | 7270 | LXD | ASS1,4 | | | LC437300 |
| 14747 | 0020 | 00 | 0 | 15454 | 7271 | TRA | \$EVAL | EVAL(CADCR(F),APPEND(PAIR(CADR(F),L),A)) | | LC437400 |
| | | | | | 7272 | | | | | LC437500 |
| 14775 | | | | | 7273 | * | | LABEL BRANCH | | 1.500061 |
| 14750 | -0534 | 00 | 4 | 03353 | 7274 | ASP3 | LXD | AST1,4 | F | LC437600 |
| 14751 | -0600 | 00 | 0 | 03354 | 7275 | STQ | AST2 | | L | LC437700 |
| 14752 | 0560 | 00 | 0 | 03321 | 7276 | LDQ | \$ARG3 | | A | LC437800 |
| 14753 | -0600 | 00 | 0 | 03355 | 7277 | STQ | AST3 | | | LC437900 |
| 14754 | 0500 | 00 | 4 | 00000 | 7278 | CLA | 0,4 | CWR(F) | | LC438000 |
| 14755 | -0734 | 00 | 4 | 00000 | 7279 | PDX | 0,4 | CDR(F) | | LC438100 |
| 14756 | 0500 | 00 | 4 | 00000 | 7280 | CLA | 0,4 | | | LC438200 |
| 14757 | 0601 | 00 | 0 | 03356 | 7281 | STO | AST4 | CWDR(F) | | LC438300 |
| 14760 | -0734 | 00 | 4 | 00000 | 7282 | PDX | 0,4 | CCDR(F) | | LC438400 |
| 14761 | 0500 | 00 | 4 | 00000 | 7283 | CLA | 0,4 | | | LC438500 |
| 14762 | 0734 | 00 | 4 | 00000 | 7284 | PAX | 0,4 | CADDR(F) | | LC438600 |
| 14763 | -0754 | 00 | 4 | 00000 | 7285 | PXD | 0,4 | | | LC438700 |
| 14764 | 0601 | 00 | 0 | 03353 | 7286 | STO | AST1 | | | LC438800 |
| 14765 | 0131 | 00 | 0 | 00000 | 7287 | XCA | | | | 4580 |
| 14766 | 0534 | 00 | 4 | 03356 | 7288 | LXA | AST4,4 | | | LC439100 |
| 14767 | -0754 | 00 | 4 | 00000 | 7289 | PXD | 0,4 | CADR(F) | | LC439300 |
| 14770 | 0074 | 00 | 4 | 03730 | 7290 | TSX | \$CONS,4 | CONS(CADR(F),CONS(CADDR(F),0)) | | LC439500 |
| 14771 | 0560 | 00 | 0 | 03355 | 7291 | LDQ | AST3 | | A | LC439600 |
| 14772 | 0074 | 00 | 4 | 03730 | 7292 | TSX | \$CONS,4 | APPEND(ABOVE,A) | | LC439700 |
| 14773 | 0601 | 00 | 0 | 03321 | 7293 | STO | \$ARG3 | | | LC439800 |
| 14774 | 0560 | 00 | 0 | 03354 | 7294 | LDQ | AST2 | | | LC439900 |
| 14775 | 0500 | 00 | 0 | 03353 | 7295 | CLA | AST1 | CADDR(F) | | LC440000 |
| 14776 | -0534 | 00 | 4 | 03350 | 7296 | LXD | ASS1,4 | | | LC440100 |
| 14777 | 0020 | 00 | 0 | 14663 | 7297 | TRA | APPLY | APPLY(CADCR(F),L,APPEND(PAIR(CADR(F),CADDR(F)),A)) | | LC440200 |
| | | | | | 7298 | | | | | LC440300 |
| | | | | | 7299 | * | | FUNARG BRANCH | | 1.500062 |
| 15000 | -0534 | 00 | 4 | 03353 | 7300 | ASP4 | LXD | AST1,4 | F | LC440400 |
| 15001 | 0500 | 00 | 4 | 00000 | 7301 | CLA | ,4 | | | LC440500 |
| 15002 | -0734 | 00 | 4 | 00000 | 7302 | PDX | ,4 | CDR(F) | | LC440600 |
| 15003 | 0500 | 00 | 4 | 00000 | 7303 | CLA | ,4 | | | LC440700 |
| 15004 | 0601 | 00 | 0 | 03353 | 7304 | STO | AST1 | CWDR(F) | | LC440800 |
| 15005 | -0734 | 00 | 4 | 00000 | 7305 | PDX | ,4 | CCDR(F) | | LC440900 |
| 15006 | 0500 | 00 | 4 | 00000 | 7306 | CLA | ,4 | | | LC441000 |
| 15007 | 0734 | 00 | 4 | 00000 | 7307 | PAX | ,4 | CADDR(F) | | LC441100 |
| 15010 | -0754 | 00 | 4 | 00000 | 7308 | PXD | ,4 | | | LC441200 |
| 15011 | 0601 | 00 | 0 | 03321 | 7309 | STO | \$ARG3 | | A | LC441300 |
| 15012 | 0534 | 00 | 4 | 03353 | 7310 | LXA | AST1,4 | CADR(F) | | LC441400 |
| 15013 | -0754 | 00 | 4 | 00000 | 7311 | PXD | ,4 | | F | LC441500 |
| 15014 | -0534 | 00 | 4 | 03350 | 7312 | LXD | ASS1,4 | | | LC441600 |

| | | | | | | | | | | |
|-------|-------|-------|---|-------|-------|-------|---|-----------------------------|-----------------------------------|----------|
| 15015 | 0020 | 00 | 0 | 14663 | 7313 | TRA | \$APPLY | | | LC441700 |
| | | | | | 7314 | | | | | LC441800 |
| | | | | | 00501 | 7315 | ASLBL | SYN LABELD | | |
| | | | | | 00502 | 7316 | ASLMD | SYN LAMCAD | | |
| | | | | | 00500 | 7317 | ASFUN | SYN FNARGD | | LC442700 |
| | | | | | 00370 | 7318 | ASZRO | SYN \$ZERO | | 4590 |
| | | | | | 7319 | | | | | LC443000 |
| | | | | | 7320 | | APP2(F,L,A)=SELECT(F.,CAR,CAAR(L),,CDR, | | | LC443100 |
| | | | | | 7321 | | CDAR(L),,CONS,CONS(CAR(L),CADR(L)),,LIST,COPY(L),,SEARCH(F, | | | LC443200 |
| | | | | | 7322 | | LAMBDA(J,CAR(J)=SUBR OR CAR(J)=EXP), | | | LC443300 |
| | | | | | 7323 | | LAMBDA(J,CAR(J)=SUBR YIELDS APP3(CWADR | | | LC443400 |
| | | | | | 7324 | | {J},DISTRIB(L)),1 YIELDS APPLY(CADR(J),L,A))) | | | LC443500 |
| | | | | | 7325 | | ERROR) | | | LC443600 |
| | | | | | 7326 | | | | | LC443700 |
| | | | | | 7327 | A | HED | | | LC443800 |
| 15016 | -0634 | 00 | 4 | 15147 | 7328 | APP2 | SXD | ATS1,4 | SAVE LINK IR | 4600 |
| 15017 | -0534 | 00 | 4 | 03321 | 7329 | | LXD | \$ARG3,4 | GET ALIST | |
| 15020 | -0634 | 00 | 4 | 15153 | 7330 | | SXD | A,4 | SAVE IT | |
| 15021 | -0600 | 00 | 0 | 15152 | 7331 | | STQ | AL | ARGUMENT LIST | 4610 |
| 15022 | 0601 | 00 | 0 | 15151 | 7332 | | STO | F | FUNCTION (IS ATOMIC SYMBOL) | 4620 |
| 15023 | 0600 | 00 | 0 | 15145 | 7333 | | STZ | APTRT | INITIALIZE TRACE TEST CELL | |
| 15024 | -0734 | 00 | 4 | 00000 | 7334 | APSES | PDX | 0,4 | ARG TO IR | 4630 |
| 15025 | -3 | 00000 | 4 | 15071 | 7335 | | TXL | APSAI,4,0 | GO IF NO MORE PROPERTY LIST | 4640 |
| 15026 | 0500 | 00 | 4 | 00000 | 7336 | | CLA | 0,4 | FIRST WORD | 4650 |
| 15027 | 0734 | 00 | 4 | 00000 | 7337 | | PAX | 0,4 | CAR | 4660 |
| 15030 | -3 | 06646 | 4 | 15032 | 7338 | | TXL | *+2,4,\$TRACE-1 | | |
| 15031 | -3 | 06647 | 4 | 15121 | 7339 | | TXL | APTRK,4,\$TRACE | LOOK FOR TRACE | |
| 15032 | -3 | 06732 | 4 | 15034 | 7340 | | TXL | *+2,4,\$SUBR-1 | LOOK FOR | 4670 |
| 15033 | -3 | 06733 | 4 | 15046 | 7341 | | TXL | R2,4,\$SUBR | \$SUBR OR | 4680 |
| 15034 | -3 | 10156 | 4 | 15024 | 7342 | | TXL | APSES,4,\$EXPR-1 | \$EXPR | 4690 |
| 15035 | 3 | 10157 | 4 | 15024 | 7343 | | TXH | APSES,4,\$EXPR | | 4700 |
| | | | | | 7344 | * | | EXPR BRANCH IN APPLY | | 4710 |
| 15036 | -0734 | 00 | 4 | 00000 | 7345 | R21 | PDX | 0,4 | POINTER TO NEXT WORD AFTER \$EXPR | 4720 |
| 15037 | 0500 | 00 | 4 | 00000 | 7346 | | CLA | 0,4 | NEXT WORD | 4730 |
| 15040 | 0734 | 00 | 4 | 00000 | 7347 | | PAX | 0,4 | CAR | 4740 |
| 15041 | -0754 | 00 | 4 | 00000 | 7348 | | PXD | 0,4 | IS FUNCTION | 4750 |
| 15042 | 0520 | 00 | 0 | 15145 | 7349 | | ZET | APTRT | TEST FOR TRACE MODE | |
| 15043 | 0020 | 00 | 0 | 15111 | 7350 | | TRA | APTXP | TRACE THIS EXPRESSION | |
| 15044 | -0534 | 00 | 4 | 15147 | 7351 | | LXD | ATS1,4 | RESTORE LINK IR | 4760 |
| 15045 | 0020 | 00 | 0 | 14663 | 7352 | | TRA | \$APPLY | GO TO APPLY | 4770 |
| | | | | | 7353 | * | | R2 THE SUBR BRANCH OF APPLY | | 4780 |
| 15046 | -0734 | 00 | 4 | 00000 | 7354 | R2 | PDX | 0,4 | GET THE TXL INSTRUCTION BT TAKING | 4790 |
| 15047 | 0500 | 00 | 4 | 00000 | 7355 | | CLA | 0,4 | CWR (CADR L) | 4800 |
| 15050 | 0734 | 00 | 4 | 00000 | 7356 | | PAX | 0,4 | | 4810 |
| 15051 | 0500 | 00 | 4 | 00000 | 7357 | | CLA | 0,4 | | 4820 |
| 15052 | 0601 | 00 | 0 | 15146 | 7358 | | STO | CWADR | TXL INSTRUCTION | 4830 |
| 15053 | 0500 | 00 | 0 | 03350 | 7359 | | CLA | ASS1 | | |
| 15054 | 0601 | 00 | 0 | 03315 | 7360 | | STO | CSV | | |
| 15055 | 0500 | 00 | 0 | 15152 | 7361 | | CLA | AL | GET THE ARGUMENT LIST | 4840 |
| 15056 | 0074 | 00 | 4 | 10072 | 7362 | | TSX | SPREAD,4 | SPREAD IT INTO AC, MQ, ARG3, ETC. | 4850 |
| 15057 | 0520 | 00 | 0 | 15145 | 7363 | | ZET | APTRT | TEST FOR TRACE MODE | |
| 15060 | 0020 | 00 | 0 | 15131 | 7364 | | TRA | APTSB | TRACE THIS SUBROUTINE | |
| 15061 | 0074 | 00 | 4 | 02312 | 7365 | | TSX | \$SAVE,4 | | |
| 15062 | -3 | 03320 | 0 | 02377 | 7366 | | TXL | \$END2,, \$ALIST+2 | | |

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|-------|--------------|-------|---|-------|------|-------|--------------------|-----------|---------------------------------------|------|
| 15063 | -0534 | 00 | 4 | 15153 | 7367 | LXD | A,4 | | | |
| 15064 | -0634 | 00 | 4 | 03316 | 7368 | SXD | \$ALIST,4 | | | |
| 15065 | 0074 | 00 | 4 | 15146 | 7369 | TSX | CWADR,4 | | | |
| 15066 | 0074 | 00 | 4 | 02326 | 7370 | TSX | UNSAVE,4 | | | |
| 15067 | -0534 | 00 | 4 | 03315 | 7371 | LXD | CSV,4 | | | |
| 15070 | 0020 | 00 | 4 | 00001 | 7372 | TRA | 1,4 | | | |
| | | | | | 7373 | * | | | | 4880 |
| 15071 | 0500 | 00 | 0 | 15150 | 7374 | APSA | CLA | FAS | WHERE TO GO IF NOT FOUND ON PAIR LIST | |
| 15072 | 0601 | 00 | 0 | 03321 | 7375 | STO | \$ARG3 | | | 4920 |
| 15073 | 0500 | 00 | 0 | 15151 | 7376 | CLA | F | | ATOMIC FUNCTION | 4930 |
| 15074 | 0560 | 00 | 0 | 15153 | 7377 | LDQ | A | | | |
| 15075 | 0074 | 00 | 4 | 10042 | 7378 | TSX | SASSOC,4 | | SEARCH PAIR LIST FOR LABEL DEFINITION | 4940 |
| 15076 | -0734 | 00 | 4 | 00000 | 7379 | PDX | 0,4 | | POINTER TO ASSOCIATED ITEM | 4950 |
| 15077 | 0500 | 00 | 4 | 00000 | 7380 | CLA | 0,4 | | | 4960 |
| 15100 | -0734 | 00 | 4 | 00000 | 7381 | PDX | 0,4 | | POINTER TO ITEM | 4970 |
| 15101 | -0754 | 00 | 4 | 00000 | 7382 | PXD | 0,4 | | | 4980 |
| 15102 | 0560 | 00 | 0 | 15153 | 7383 | LDQ | A | | RESTORE PAIR LIST | 4990 |
| 15103 | -0600 | 00 | 0 | 03321 | 7384 | STO | \$ARG3 | | | 5000 |
| 15104 | 0560 | 00 | 0 | 15152 | 7385 | LDQ | AL | | RESTORE ARGUMENT LIST | 5010 |
| 15105 | 0520 | 00 | 0 | 15145 | 7386 | ZET | APTRT | | TEST FOR TRACE MODE | |
| 15106 | 0020 | 00 | 0 | 15111 | 7387 | TRA | APTXP | | TRACE THIS EXPRESSION | |
| 15107 | -0534 | 00 | 4 | 15147 | 7388 | LXD | ATS1,4 | | RESTORE LINK IR | 5020 |
| 15110 | 0020 | 00 | 0 | 14663 | 7389 | TRA | \$APPLY | | GO TO APPLY WITH ITEM ASSOCIATED WITH | 5030 |
| | | | | | 7390 | * | | | THE ATOMIC FUNCTION | 5040 |
| 15111 | 0074 | 00 | 4 | 02312 | 7391 | APTXP | TSX | \$SAVE,4 | TRACE EXPR | |
| 15112 | -3 | 03317 | 0 | 02401 | 7392 | TXL | \$END1,,CSV+2 | | | |
| 15113 | 0074 | 00 | 4 | 14663 | 7393 | TSX | \$APPLY,4 | | | |
| 15114 | 0020 | 00 | 0 | 15136 | 7394 | TRA | APEXC | | FINISH UP | |
| | | | | | 7395 | * | | | | 5050 |
| 15115 | -0634 | 00 | 4 | 01562 | 7396 | R33 | SXD | \$ERROR,4 | | 5060 |
| 15116 | 0500 | 00 | 0 | 15151 | 7397 | CLA | F | | PICK UP FUNCTION | 5070 |
| 15117 | 0074 | 00 | 4 | 01563 | 7398 | TSX | \$ERROR+1,4 | | GO TO ERROR | 5080 |
| 15120 | 542160600254 | | | | 7399 | BCI | 1,*A 2* | | FUNCTION OBJECT HAS NO DEFINITION | |
| | | | | | 7400 | * | | | | |
| 15121 | -0625 | 00 | 0 | 15145 | 7401 | APTRK | STL | APTRT | | |
| 15122 | 0601 | 00 | 0 | 15144 | 7402 | STO | APA | | SAVE THE AC | |
| 15123 | 0534 | 00 | 4 | 03350 | 7403 | LXA | ASS1,4 | | ATOM NAME | |
| 15124 | -0754 | 00 | 4 | 00000 | 7404 | PXD | 0,4 | | | |
| 15125 | 0074 | 00 | 4 | 16050 | 7405 | TSX | ARGCF,4 | | PRINT ARGUMENTS OF | |
| 15126 | 0560 | 00 | 0 | 15152 | 7406 | LDQ | AL | | RESTORE MQ AFTER PRINTING | |
| 15127 | 0500 | 00 | 0 | 15144 | 7407 | CLA | APA | | RESTORE AC | |
| 15130 | 0020 | 00 | 0 | 15024 | 7408 | TRA | APSES | | CONTINUE PROPERTY LIST SEARCH | |
| | | | | | 7409 | * | | | | |
| 15131 | 0074 | 00 | 4 | 02312 | 7410 | APTSB | TSX | \$SAVE,4 | TRACE SUBR | |
| 15132 | -3 | 03320 | 0 | 02377 | 7411 | TXL | \$END2,, \$ALIST+2 | | | |
| 15133 | -0534 | 00 | 4 | 15153 | 7412 | LXD | A,4 | | | |
| 15134 | -0634 | 00 | 4 | 03316 | 7413 | SXD | \$ALIST,4 | | | |
| 15135 | 0074 | 00 | 4 | 15146 | 7414 | TSX | CWADR,4 | | | |
| 15136 | 0074 | 00 | 4 | 02326 | 7415 | APEXC | TSX | UNSAVE,4 | | |
| 15137 | 0131 | 00 | 0 | 00000 | 7416 | XCA | | | VALUE TO MQ | |
| 15140 | 0534 | 00 | 4 | 03315 | 7417 | LXA | CSV,4 | | | |
| 15141 | -0754 | 00 | 4 | 00000 | 7418 | PXD | 0,4 | | TO AC | |
| 15142 | -0534 | 00 | 4 | 03315 | 7419 | LXD | CSV,4 | | | |
| 15143 | 0020 | 00 | 0 | 16104 | 7420 | TRA | VALOF | | PRINT VALUE OF | |

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15071

| | | | | | | | | |
|-------|--------------|-------|---|--------|--------|--------------------|--------------------------------------|----------|
| | | | | 7421 * | | | | |
| 15144 | 0 | 00000 | 0 | 00000 | 7422 | APA | AC STORAGE | |
| 15145 | 0 | 00000 | 0 | 00000 | 7423 | APFRT | TRACE MODE TEST SWITCH | |
| 15146 | 0 | 00000 | 0 | 00000 | 7424 | CWADR | TXL INSTRUCTION FOR SUBR | 5130 |
| 15147 | 0 | 00000 | 0 | 00000 | 7425 | ATSI | LINK INDEX REGISTER | 5140 |
| 15150 | -3 | 00000 | 0 | 15115 | 7426 | FAS TXL R33,,0 | NOT FOUND ON PAIR LIST SO CALL ERROR | 5150 |
| 15151 | 0 | 00000 | 0 | 00000 | 7427 | F | ATOMIC FUNCTION GOES HERE | 5160 |
| 15152 | 0 | 00000 | 0 | 00000 | 7428 | AL | ARGUMENT LIST | 5170 |
| 15153 | 0 | 00000 | 0 | 00000 | 7429 | A | A OR PAIR LIST | 5180 |
| | | | | 7430 * | | | | 5190 |
| | | | | 7431 | | | | LC469200 |
| | | | | 7432 | | | | LC469300 |
| | | | | 7433 A | HED | | | LC469400 |
| 15154 | 0100 | 00 | 0 | 15205 | 7434 | FVCON TZE E3 | | LC469500 |
| 15155 | -0634 | 00 | 4 | 03364 | 7435 | SXD ECS1,4 | | LC470100 |
| 15156 | 0074 | 00 | 4 | 02312 | 7436 | TSX \$SAVE,4 | | LC470200 |
| 15157 | -3 | 03371 | 0 | 02373 | 7437 | TXL \$END4,,ECS4+2 | SAVE 4 ITEMS | |
| 15160 | -0600 | 00 | 0 | 03365 | 7438 | STQ ECS2 | | LC470400 |
| 15161 | -0734 | 00 | 4 | 00000 | 7439 | PDX 0,4 | | LC470500 |
| 15162 | 0500 | 00 | 4 | 00000 | 7440 | E1 CLA 0,4 | | LC470600 |
| 15163 | 0601 | 00 | 0 | 03366 | 7441 | STO ECS3 | | LC470700 |
| 15164 | 0734 | 00 | 4 | 00000 | 7442 | PAX 0,4 | | LC470800 |
| 15165 | 0500 | 00 | 4 | 00000 | 7443 | CLA 0,4 | | LC470900 |
| 15166 | 0601 | 00 | 0 | 03367 | 7444 | STO ECS4 | | LC471000 |
| 15167 | 0734 | 00 | 4 | 00000 | 7445 | PAX 0,4 | | LC471100 |
| 15170 | -0754 | 00 | 4 | 00000 | 7446 | PXD 0,4 | | LC471200 |
| 15171 | 0074 | 00 | 4 | 15454 | 7447 | TSX \$EVAL,4 | | LC471300 |
| 15172 | 0560 | 00 | 0 | 03365 | 7448 | LDQ ECS2 | | LC471400 |
| 15173 | 0100 | 00 | 0 | 15203 | 7449 | TZE E2 | | LC471500 |
| 15174 | -0534 | 00 | 4 | 03367 | 7450 | LXD ECS4,4 | | LC471600 |
| 15175 | 0500 | 00 | 4 | 00000 | 7451 | CLA 0,4 | | LC471700 |
| 15176 | 0734 | 00 | 4 | 00000 | 7452 | PAX 0,4 | | LC471800 |
| 15177 | -0754 | 00 | 4 | 00000 | 7453 | PXD 0,4 | | LC471900 |
| 15200 | 0074 | 00 | 4 | 02326 | 7454 | TSX UNSAVE,4 | | LC472000 |
| 15201 | -0534 | 00 | 4 | 03364 | 7455 | LXD ECS1,4 | | LC472250 |
| 15202 | 0020 | 00 | 0 | 15454 | 7456 | TRA \$EVAL | | LC472300 |
| 15203 | -0534 | 00 | 4 | 03366 | 7457 | E2 LXD ECS3,4 | | LC472400 |
| 15204 | 3 | 00000 | 4 | 15162 | 7458 | TXH E1,4,0 | | LC472500 |
| 15205 | -0634 | 00 | 4 | 01562 | 7459 | E3 SXD \$ERROR,4 | | LC469600 |
| 15206 | 0534 | 00 | 4 | 03366 | 7460 | LXA ECS3,4 | | |
| 15207 | -0754 | 00 | 4 | 00000 | 7461 | PXD 0,4 | PRINT LAST CONDITION | |
| 15210 | 0074 | 00 | 4 | 01563 | 7462 | TSX \$ERROR+1,4 | | LC469700 |
| 15211 | 542160600354 | | | | 7463 | BCI 1,*A 3* | CONDITIONAL UNSATISFIED | |
| | | | | | 7464 | | BASIC LISP FUNCTIONS FOR APPLY | LC473400 |
| | | | | | 7465 | | | LC473500 |
| | | | | | 7466 | | | LC473600 |
| | | | | | 7467 R | HED | | LC473700 |
| | | | | | 7468 | CAR | | LC473800 |
| | | | | | 7469 | | | LC473900 |
| 15212 | 0634 | 00 | 4 | 15217 | 7470 | CARP SXA CARX,4 | | |
| 15213 | -0734 | 00 | 4 | 00000 | 7471 | PDX ,4 | | LC474100 |
| 15214 | 0500 | 00 | 4 | 00000 | 7472 | CLA ,4 | | LC474200 |
| 15215 | 0734 | 00 | 4 | 00000 | 7473 | PAX ,4 | | LC474300 |
| 15216 | -0754 | 00 | 4 | 00000 | 7474 | PXD ,4 | | LC474400 |

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|-------|-------|-------|---|-------|------|-------|---------------------------------|----------|------------------|----------|
| 15217 | 0774 | 00 | 4 | 00000 | 7475 | CARX | AXT | ** ,4 | | |
| 15220 | 0020 | 00 | 4 | 00001 | 7476 | | TRA | 1,4 | | LC474600 |
| 15221 | 0 | 00000 | 0 | 00000 | 7477 | BFS1 | | | | LC474700 |
| | | | | | 7478 | | | | | LC474800 |
| 15222 | 0634 | 00 | 4 | 15226 | 7479 | CDRP | SXA | CDRX,4 | | |
| 15223 | -0734 | 00 | 4 | 00000 | 7480 | | PDX | ,4 | | LC475000 |
| 15224 | 0500 | 00 | 4 | 00000 | 7481 | | CLA | ,4 | | LC475100 |
| 15225 | -0320 | 00 | 0 | 00460 | 7482 | | ANA | BFDM | | LC475200 |
| 15226 | 0774 | 00 | 4 | 00000 | 7483 | CDRX | AXT | ** ,4 | | |
| 15227 | 0020 | 00 | 4 | 00001 | 7484 | | TRA | 1,4 | | LC475400 |
| | | | | 00460 | 7485 | BFDM | SYN | \$DMASK | | 5200 |
| | | | | | 7486 | | | | | LC475600 |
| | | | | | 7487 | | | | | LC475700 |
| 15230 | 0634 | 00 | 4 | 15241 | 7488 | ATOMP | SXA | ATMX,4 | | |
| 15231 | 0100 | 00 | 0 | 15236 | 7489 | | TZE | ATP1 | | LC475900 |
| 15232 | -0734 | 00 | 4 | 00000 | 7490 | | PDX | ,4 | | LC476000 |
| 15233 | 0500 | 00 | 4 | 00000 | 7491 | | CLA | ,4 | | LC476100 |
| 15234 | 0734 | 00 | 4 | 00000 | 7492 | | PAX | ,4 | | LC476200 |
| 15235 | -3 | 77776 | 4 | 15240 | 7493 | | TXL | **3,4,-2 | | LC476300 |
| 15236 | 0500 | 00 | 0 | 00442 | 7494 | ATP1 | CLA | BFQ1 | | LC476400 |
| 15237 | 0020 | 00 | 0 | 15241 | 7495 | | TRA | **2 | | LC476500 |
| 15240 | -0754 | 00 | 0 | 00000 | 7496 | | PXD | ,0 | | LC476600 |
| 15241 | 0774 | 00 | 4 | 00000 | 7497 | ATMX | AXT | ** ,4 | | |
| 15242 | 0020 | 00 | 4 | 00001 | 7498 | | TRA | 1,4 | | LC476800 |
| | | | | 00442 | 7499 | BFQ1 | SYN | \$QD1 | | 5210 |
| | | | | | 7500 | | | | | LC477000 |
| 15243 | 0100 | 00 | 0 | 15246 | 7501 | NULLP | TZE | **3 | | LC477100 |
| 15244 | -0754 | 00 | 0 | 00000 | 7502 | | PXD | ,0 | | LC477200 |
| 15245 | 0020 | 00 | 4 | 00001 | 7503 | | TRA | 1,4 | | LC477300 |
| 15246 | 0500 | 00 | 0 | 00442 | 7504 | | CLA | BFQ1 | | LC477400 |
| 15247 | 0020 | 00 | 4 | 00001 | 7505 | | TRA | 1,4 | | LC477500 |
| | | | | | 7506 | | | | | LC477600 |
| | | | | | 7507 | | | | | LC477800 |
| | | | | | 7508 | | | | | LC477900 |
| | | | | | 7509 | | LAMBDA FOR FUNCTIONAL ARGUMENTS | | | LC478000 |
| | | | | | 7510 | | | | | LC478100 |
| 15250 | -0634 | 00 | 4 | 15221 | 7511 | LAMP | SXD | BFS1,4 | | LC478200 |
| 15251 | 0601 | 00 | 0 | 03415 | 7512 | | STO | BFS2 | L | LC478300 |
| 15252 | 0131 | 00 | 0 | 00000 | 7513 | | XCA | | | |
| 15253 | 0560 | 00 | 0 | 00370 | 7514 | | LDQ | BFZRO | | LC478600 |
| 15254 | 0074 | 00 | 4 | 03730 | 7515 | | TSX | \$CONS,4 | CONS(A,0) | LC478700 |
| 15255 | 0131 | 00 | 0 | 00000 | 7516 | | XCA | | | |
| 15256 | 0500 | 00 | 0 | 03415 | 7517 | | CLA | BFS2 | | LC478900 |
| 15257 | 0074 | 00 | 4 | 07541 | 7518 | | TSX | APPEND,4 | | LC479100 |
| 15260 | 0131 | 00 | 0 | 00000 | 7519 | | XCA | | | |
| 15261 | 0500 | 00 | 0 | 00500 | 7520 | | CLA | BFFAG | | LC479400 |
| 15262 | -0534 | 00 | 4 | 15221 | 7521 | | LXD | BFS1,4 | | LC479500 |
| 15263 | 0020 | 00 | 0 | 03730 | 7522 | | TRA | \$CONS | LIST(FUNARG,L,A) | LC479600 |
| | | | | 00500 | 7523 | BFFAG | SYN | FNARGD | | LC479700 |
| | | | | 00370 | 7524 | BFZRO | SYN | \$ZERO | | LC480000 |
| | | | | | 7525 | | | | | LC480100 |
| | | | | | 7526 | | LABEL FSUBR | | | LC480200 |
| | | | | | 7527 | | | | | LC480300 |
| 15264 | -0634 | 00 | 4 | 15221 | 7528 | LABP | SXD | BFS1,4 | | LC480400 |

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|-------|-------|-------|---|-------|------|-------|----------------|-------------------------|----------|
| 15265 | -0600 | 00 | 0 | 03416 | 7529 | STO | BFS3 | A | LC480500 |
| 15266 | -0734 | 00 | 4 | 00000 | 7530 | PDX | ,4 | L | LC480600 |
| 15267 | 0500 | 00 | 4 | 00000 | 7531 | CLA | ,4 | | LC480700 |
| 15270 | 0601 | 00 | 0 | 03415 | 7532 | STO | BFS2 | CWR(L) | LC480800 |
| 15271 | -0734 | 00 | 4 | 00000 | 7533 | PDX | ,4 | CDR(L) | LC480900 |
| 15272 | 0500 | 00 | 4 | 00000 | 7534 | CLA | ,4 | | LC481000 |
| 15273 | 0734 | 00 | 4 | 00000 | 7535 | PAX | ,4 | CADR(L) | LC481100 |
| 15274 | -0754 | 00 | 4 | 00000 | 7536 | PXD | ,4 | | LC481200 |
| 15275 | 0601 | 00 | 0 | 03414 | 7537 | STO | BFS4 | | LC481300 |
| 15276 | 0131 | 00 | 0 | 00000 | 7538 | XCA | | | 5220 |
| 15277 | 0534 | 00 | 4 | 03415 | 7539 | LXA | BFS2,4 | CAR(L) | LC481600 |
| 15300 | 0131 | 00 | 0 | 00000 | 7540 | XCA | | | 5230 |
| 15301 | -0754 | 00 | 4 | 00000 | 7541 | PXD | ,4 | | LC482000 |
| 15302 | 0074 | 00 | 4 | 03730 | 7542 | TSX | \$CONS,4 | LIST(CAR(L),CADR(L)) | LC482100 |
| 15303 | 0560 | 00 | 0 | 03416 | 7543 | LDQ | BFS3 | | LC482200 |
| 15304 | 0074 | 00 | 4 | 03730 | 7544 | TSX | \$CONS,4 | CONS(LIST,A) | LC482300 |
| 15305 | 0131 | 00 | 0 | 00000 | 7545 | XCA | | | LC482400 |
| 15306 | 0500 | 00 | 0 | 03414 | 7546 | CLA | BFS4 | CADR(L) | LC482600 |
| 15307 | -0534 | 00 | 4 | 15221 | 7547 | LXD | BFS1,4 | | LC482700 |
| 15310 | 0020 | 00 | 0 | 15454 | 7548 | TRA | \$EVAL | | LC482800 |
| | | | | | 7549 | | | | LC482900 |
| | | | | | 7550 | | | | LC483100 |
| | | | | | 7551 | | | | LC483200 |
| | | | | | 7552 | SETQ | | | LC483300 |
| | | | | | 7553 | | | | LC483400 |
| 15311 | -0634 | 00 | 4 | 03461 | 7554 | SETQP | SXD REPS1,4 | | LC483500 |
| 15312 | 0074 | 00 | 4 | 02312 | 7555 | TSX | \$SAVE,4 | | LC483600 |
| 15313 | -3 | 03464 | 0 | 02377 | 7556 | TXL | \$END2,,REPV+2 | | |
| 15314 | -0734 | 00 | 4 | 00000 | 7557 | PDX | ,4 | L | LC483800 |
| 15315 | 0500 | 00 | 4 | 00000 | 7558 | CLA | ,4 | | LC483900 |
| 15316 | 0734 | 00 | 4 | 00000 | 7559 | PAX | ,4 | CAR(L) | LC484000 |
| 15317 | -0634 | 00 | 4 | 03462 | 7560 | SXD | REPV,4 | | LC484100 |
| 15320 | -0734 | 00 | 4 | 00000 | 7561 | PDX | ,4 | CDR(L) | LC484200 |
| 15321 | 0500 | 00 | 4 | 00000 | 7562 | CLA | ,4 | | LC484300 |
| 15322 | 0734 | 00 | 4 | 00000 | 7563 | PAX | ,4 | CADR(L) | LC484400 |
| 15323 | -0754 | 00 | 4 | 00000 | 7564 | PXD | ,4 | | LC484500 |
| 15324 | 0074 | 00 | 4 | 15454 | 7565 | TSX | \$EVAL,4 | EVAL(CADR(L),A) | LC484600 |
| 15325 | 0601 | 00 | 0 | 03463 | 7566 | STO | REPT1 | | LC484700 |
| 15326 | 0500 | 00 | 0 | 15341 | 7567 | CLA | REPP1 | | LC484800 |
| 15327 | 0601 | 00 | 0 | 03321 | 7568 | STO | \$ARG3 | | LC484900 |
| 15330 | 0560 | 00 | 0 | 03447 | 7569 | LDQ | PRGVAR | | LC485000 |
| 15331 | 0500 | 00 | 0 | 03462 | 7570 | CLA | REPV | | LC485100 |
| 15332 | 0074 | 00 | 4 | 10042 | 7571 | TSX | SASSOC,4 | SASSOC(CAR(L),PV,ERROR) | LC485200 |
| 15333 | -0734 | 00 | 4 | 00000 | 7572 | PDX | ,4 | | LC485300 |
| 15334 | 0500 | 00 | 0 | 03463 | 7573 | CLA | REPT1 | | LC485400 |
| 15335 | 0622 | 00 | 4 | 00000 | 7574 | STD | 0,4 | REPLACE DECREMENT | 5240 |
| 15336 | 0074 | 00 | 4 | 02326 | 7575 | TSX | UNSAVE,4 | | LC485700 |
| 15337 | -0534 | 00 | 4 | 03461 | 7576 | LXD | REPS1,4 | | LC485900 |
| 15340 | 0020 | 00 | 4 | 00001 | 7577 | TRA | 1,4 | | LC486000 |
| | | | | | 7578 | | | | LC486100 |
| 15341 | -3 | 00000 | 0 | 15342 | 7579 | REPP1 | TXL *+1,,0 | | LC486200 |
| 15342 | -0634 | 00 | 4 | 01562 | 7580 | SXD | \$ERROR,4 | | LC486300 |
| 15343 | 0500 | 00 | 0 | 03462 | 7581 | CLA | REPV | | LC486400 |
| 15344 | 0074 | 00 | 4 | 01563 | 7582 | TSX | \$ERROR+1,4 | | LC486500 |

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|-------|------------------|------|-------|------|------------------|-------------------------------------|----------|
| 15345 | 542160600454 | 7583 | BCI | 1,*A | 4* | SETQ GIVEN ON NON-EXISTENT VARIABLE | |
| | | 7584 | | | | | LC487000 |
| | | 7585 | | | | | LC489800 |
| | | 7586 | | SET | | | LC489900 |
| | | 7587 | | | | | LC490000 |
| 15346 | -0634 00 4 15221 | 7588 | SETP | SXD | BFS1,4 | | LC490100 |
| 15347 | 0601 00 0 15367 | 7589 | | STO | BFS5 | | LC490200 |
| 15350 | -0600 00 0 03415 | 7590 | | STQ | BFS2 | | LC490300 |
| 15351 | 0560 00 0 15362 | 7591 | | LDQ | SETP1 | | LC490400 |
| 15352 | -0600 00 0 03321 | 7592 | | STQ | \$ARG3 | | LC490500 |
| 15353 | 0560 00 0 03447 | 7593 | | LDQ | PRGVAR | | LC490600 |
| 15354 | 0074 00 4 10042 | 7594 | | TSX | SASSOC,4 | | LC490700 |
| 15355 | -0734 00 4 00000 | 7595 | | PDX | ,4 | | LC490800 |
| 15356 | 0500 00 0 03415 | 7596 | | CLA | BFS2 | | LC490900 |
| 15357 | 0622 00 4 00000 | 7597 | | STD | 0,4 | | LC491000 |
| 15360 | -0534 00 4 15221 | 7598 | | LXD | BFS1,4 | | LC491200 |
| 15361 | 0020 00 4 00001 | 7599 | | TRA | 1,4 | | LC491300 |
| | | 7600 | | | | | LC491400 |
| 15362 | -3 00000 0 15363 | 7601 | SETP1 | TXL | **1,,0 | | LC491500 |
| 15363 | -0634 00 4 01562 | 7602 | | SXD | \$ERROR,4 | | LC491600 |
| 15364 | 0500 00 0 15367 | 7603 | | CLA | BFS5 | | LC491700 |
| 15365 | 0074 00 4 01563 | 7604 | | TSX | \$ERROR+1,4 | | LC491800 |
| 15366 | 542160600554 | 7605 | BCI | 1,*A | 5* | SET GIVEN ON NON-EXISTENT VARIABLE | |
| 15367 | 0 00000 0 00000 | 7606 | BFS5 | | | | |
| | | 7607 | | | | | LC492300 |
| | | 7608 | * | | AND SPECIAL FORM | | LC494200 |
| 15370 | -0100 00 0 15373 | 7609 | EVA8 | TNZ | EVA6 | | LC494300 |
| 15371 | 0500 00 0 00442 | 7610 | | CLA | EVCT | | LC494400 |
| 15372 | 0020 00 4 00001 | 7611 | | TRA | 1,4 | | LC494500 |
| 15373 | -0634 00 4 03343 | 7612 | EVA6 | SXD | EVA1,4 | | LC494600 |
| 15374 | 0074 00 4 02312 | 7613 | | TSX | \$SAVE,4 | | LC494700 |
| 15375 | -3 03347 0 02375 | 7614 | | TXL | \$END3,,EVA9+2 | SAVE 3 ITEMS | |
| 15376 | -0734 00 4 00000 | 7615 | | PDX | ,4 | | LC494900 |
| 15377 | 0500 00 4 00000 | 7616 | EVA4 | CLA | ,4 | | LC495000 |
| 15400 | 0601 00 0 03344 | 7617 | | STO | EVA2 | | LC495100 |
| 15401 | 0734 00 4 00000 | 7618 | | PAX | ,4 | | LC495200 |
| 15402 | -0754 00 4 00000 | 7619 | | PXD | ,4 | | LC495300 |
| 15403 | -0600 00 0 03345 | 7620 | | STQ | EVA9 | | LC495400 |
| 15404 | 0074 00 4 15454 | 7621 | | TSX | \$EVAL,4 | | LC495500 |
| 15405 | 0560 00 0 03345 | 7622 | | LDQ | EVA9 | | LC495600 |
| 15406 | -0100 00 0 15412 | 7623 | | TNZ | EVA3 | | LC495800 |
| 15407 | 0074 00 4 02326 | 7624 | EVA5 | TSX | UNSAVE,4 | | LC496000 |
| 15410 | -0534 00 4 03343 | 7625 | | LXD | EVA1,4 | | LC496200 |
| 15411 | 0020 00 4 00001 | 7626 | | TRA | 1,4 | | LC496300 |
| 15412 | -0534 00 4 03344 | 7627 | EVA3 | LXD | EVA2,4 | | LC496400 |
| 15413 | 3 00000 4 15377 | 7628 | | TXH | EVA4,4,0 | | LC496500 |
| 15414 | 0500 00 0 00442 | 7629 | | CLA | EVCT | | LC496600 |
| 15415 | 0020 00 0 15407 | 7630 | | TRA | EVA5 | | LC496700 |
| | | 7631 | * | | OR SPECIAL FORM | | LC497100 |
| 15416 | -0100 00 0 15421 | 7632 | EVR8 | TNZ | EVR6 | | LC497200 |
| 15417 | 0500 00 0 00370 | 7633 | | CLA | EVCF | | LC497300 |
| 15420 | 0020 00 4 00001 | 7634 | | TRA | 1,4 | | LC497400 |
| 15421 | -0634 00 4 03435 | 7635 | EVR6 | SXD | EVR1,4 | | LC497500 |
| 15422 | 0074 00 4 02312 | 7636 | | TSX | \$SAVE,4 | | LC497600 |

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|-------|-------|-------|---|-------|------|------|----------------|-----------------------------------|----------|
| 15423 | -3 | 03441 | 0 | 02375 | 7637 | TXL | \$END3,,EVR9+2 | SAVE 3 ITEMS | |
| 15424 | -0734 | 00 | 4 | 00000 | 7638 | PDX | ,4 | | LC497800 |
| 15425 | 0500 | 00 | 4 | 00000 | 7639 | CLA | ,4 | | LC497900 |
| 15426 | 0601 | 00 | 0 | 03436 | 7640 | STO | EVR2 | | LC498000 |
| 15427 | 0734 | 00 | 4 | 00000 | 7641 | PAX | ,4 | | LC498100 |
| 15430 | -0754 | 00 | 4 | 00000 | 7642 | PXD | ,4 | | LC498200 |
| 15431 | -0600 | 00 | 0 | 03437 | 7643 | STQ | EVR9 | | LC498300 |
| 15432 | 0074 | 00 | 4 | 15454 | 7644 | TSX | \$EVAL,4 | | LC498400 |
| 15433 | 0560 | 00 | 0 | 03437 | 7645 | LDQ | EVR9 | | LC498500 |
| 15434 | 0100 | 00 | 0 | 15441 | 7646 | TZE | EVR3 | | LC498700 |
| 15435 | 0500 | 00 | 0 | 00442 | 7647 | CLA | EVCT | | LC498800 |
| 15436 | 0074 | 00 | 4 | 02326 | 7648 | TSX | UNSAVE,4 | | LC498900 |
| 15437 | -0534 | 00 | 4 | 03435 | 7649 | LXD | EVR1,4 | | LC499100 |
| 15440 | 0020 | 00 | 4 | 00001 | 7650 | TRA | 1,4 | | LC499200 |
| 15441 | -0534 | 00 | 4 | 03436 | 7651 | EVR3 | LXD | EVR2,4 | LC499300 |
| 15442 | 3 | 00000 | 4 | 15425 | 7652 | TXH | EVR4,4,0 | | LC499400 |
| 15443 | 0500 | 00 | 0 | 00370 | 7653 | CLA | EVCF | | LC499500 |
| 15444 | 0020 | 00 | 0 | 15436 | 7654 | TRA | EVR5 | | LC499600 |
| | | | | 00442 | 7655 | EVCT | SYN | \$QD1 | 5250 |
| | | | | 00370 | 7656 | EVCF | SYN | \$ZERO | LC500100 |
| | | | | | 7657 | | | | LC500200 |
| 15445 | -0600 | 00 | 0 | 15221 | 7658 | EQP | STQ | BFS1 | LC500300 |
| 15446 | 0402 | 00 | 0 | 15221 | 7659 | SUB | BFS1 | | LC500400 |
| 15447 | -0100 | 00 | 0 | 15452 | 7660 | TNZ | **3 | | LC500500 |
| 15450 | 0500 | 00 | 0 | 00442 | 7661 | CLA | BFQ1 | | LC500600 |
| 15451 | 0020 | 00 | 4 | 00001 | 7662 | TRA | 1,4 | | LC500700 |
| 15452 | -0754 | 00 | 0 | 00000 | 7663 | PXD | ,0 | | LC500800 |
| 15453 | 0020 | 00 | 4 | 00001 | 7664 | TRA | 1,4 | | LC500900 |
| | | | | | 7665 | | | | LC501000 |
| | | | | | 7666 | | EVAL(E,A) | 5/6/59 | LC501100 |
| | | | | | 7667 | | | | LC501200 |
| | | | | | 7668 | A | HED | | LC501300 |
| 15454 | -0634 | 00 | 4 | 03372 | 7669 | EVAL | SXD | EVS1,4 | LC502000 |
| 15455 | 0100 | 00 | 4 | 00001 | 7670 | TZE | 1,4 | | LC502100 |
| 15456 | 0601 | 00 | 0 | 16121 | 7671 | STO | EVTE | | LC502200 |
| 15457 | -0734 | 00 | 4 | 00000 | 7672 | PDX | ,4 | E | LC502300 |
| 15460 | 0500 | 00 | 4 | 00000 | 7673 | CLA | ,4 | | LC502400 |
| 15461 | 0625 | 00 | 0 | 16126 | 7674 | SIT | EVLNS | SEE IF A NUMBER | |
| 15462 | 0520 | 00 | 0 | 16126 | 7675 | ZET | EVLNS | SKIP IF NOT A NUMBER | |
| 15463 | 0020 | 00 | 0 | 15542 | 7676 | TRA | EVIN | IS A NUMBER(CONSTANT) | |
| 15464 | 0734 | 00 | 4 | 00000 | 7677 | PAX | ,4 | CAR(E) | LC502500 |
| 15465 | 3 | 77776 | 4 | 15545 | 7678 | TXH | EVPI,4,-2 | = - 1 | LC502600 |
| 15466 | -0634 | 00 | 4 | 16122 | 7679 | SXD | EVTAE,4 | CAR(E) | LC502700 |
| 15467 | 0634 | 00 | 4 | 03372 | 7680 | SXA | EVS1,4 | SAVE FUNCTION WITH INDEX REGISTER | |
| 15470 | 0622 | 00 | 0 | 03411 | 7681 | STO | EVTDE | CDR(E) | LC502800 |
| 15471 | 0500 | 00 | 4 | 00000 | 7682 | CLA | ,4 | | LC502900 |
| 15472 | 0625 | 00 | 0 | 16126 | 7683 | SIT | EVLNS | SEE IF A NUMBER | |
| 15473 | 0520 | 00 | 0 | 16126 | 7684 | ZET | EVLNS | TEST FOR A NUMBER | |
| 15474 | 0020 | 00 | 0 | 16007 | 7685 | TRA | EVP26 | UNDEFINED FUNCTION IF A NUMBER | |
| 15475 | 0734 | 00 | 4 | 00000 | 7686 | PAX | ,4 | CAAR(E) | LC503000 |
| 15476 | -3 | 77776 | 4 | 15756 | 7687 | TXL | EVP27,4,-2 | GO IF CAR(E) NOT AN ATOM | |
| | | | | | 7688 | * | | | |
| | | | | | 7689 | * | CAAR(E) | = -1 | |
| | | | | | 7690 | * | | | |

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|-------|-------|-------|---|-------|------|-------|-------------------|---------------------------------|----------------------|
| 15477 | 0634 | 00 | 0 | 03375 | 7691 | SXA | EVTRK,0 | ZERO THE ADDRESS | |
| 15500 | -0634 | 00 | 0 | 03375 | 7692 | SXD | EVTRK,0 | ZERO DECREMENT | |
| 15501 | -0734 | 00 | 4 | 00000 | 7693 | EVP2 | PDX ,4 | CDAR(E) | LC510100 |
| 15502 | -3 | 00000 | 4 | 15642 | 7694 | TXL | EVP25,4,0 | NULL(J) | LC510200 |
| 15503 | 0500 | 00 | 4 | 00000 | 7695 | CLA | ,4 | | LC510300 |
| 15504 | 0734 | 00 | 4 | 00000 | 7696 | PAX | ,4 | CAR(J) | LC510400 |
| 15505 | 3 | 06647 | 4 | 15507 | 7697 | TXH | **2,4,\$TRACE | | |
| 15506 | 3 | 06646 | 4 | 15540 | 7698 | TXH | EVTRT,4,\$TRACE-1 | =TRACE | |
| 15507 | 3 | 06733 | 4 | 15511 | 7699 | TXH | **2,4,\$SUBR | | LC510500 |
| 15510 | 3 | 06732 | 4 | 15756 | 7700 | TXH | EVP27,4,\$SUBR-1 | OF IF A SUBR | |
| 15511 | 3 | 10103 | 4 | 15513 | 7701 | TXH | **2,4,\$FSUBR | | LC510700 |
| 15512 | 3 | 10102 | 4 | 15613 | 7702 | TXH | EVP22,4,\$FSUBR-1 | =FSUBR | LC510800 |
| 15513 | 3 | 10157 | 4 | 15515 | 7703 | TXH | **2,4,\$EXPR | | LC510900 |
| 15514 | 3 | 10156 | 4 | 15634 | 7704 | TXH | EVP23,4,\$EXPR-1 | =EXPR | LC511000 |
| 15515 | 3 | 10142 | 4 | 15501 | 7705 | TXH | EVP2,4,\$FEXPR | | LC511100 |
| 15516 | -3 | 10141 | 4 | 15501 | 7706 | TXL | EVP2,4,\$FEXPR-1 | /= FEXPR | LC511200 |
| 15517 | 0622 | 00 | 0 | 03412 | 7707 | STD | EVD2 | CDR(J) | LC511300 |
| 15520 | -0600 | 00 | 0 | 03321 | 7708 | STQ | \$ARG3 | A | LC511400 |
| 15521 | 0500 | 00 | 0 | 03321 | 7709 | CLA | \$ARG3 | | LC511500 |
| 15522 | 0560 | 00 | 0 | 00370 | 7710 | LQD | EVZRO | 0 | LC511600 |
| 15523 | 0074 | 00 | 4 | 03730 | 7711 | TSX | \$CONS,4 | CONS(A,0) | LC511700 |
| 15524 | 0131 | 00 | 0 | 00000 | 7712 | XCA | | | |
| 15525 | 0500 | 00 | 0 | 03411 | 7713 | CLA | EVTCE | | LC512000 |
| 15526 | 0074 | 00 | 4 | 03730 | 7714 | TSX | \$CONS,4 | LIST(CDR(E),A) | LC512100 |
| 15527 | 0131 | 00 | 0 | 00000 | 7715 | XCA | | | |
| 15530 | -0534 | 00 | 4 | 03412 | 7716 | LXD | EVD2,4 | CDR(J) | LC512400 |
| 15531 | 0500 | 00 | 4 | 00000 | 7717 | CLA | ,4 | | LC512500 |
| 15532 | 0734 | 00 | 4 | 00000 | 7718 | PAX | ,4 | CADR(J) | LC512600 |
| 15533 | -0754 | 00 | 4 | 00000 | 7719 | PXD | ,4 | | LC512700 |
| 15534 | 0520 | 00 | 0 | 03375 | 7720 | ZET | EVTRK | TEST FOR TRACE MODE | |
| 15535 | 0020 | 00 | 0 | 16031 | 7721 | TRA | EVTXP | | |
| 15536 | -0534 | 00 | 4 | 03372 | 7722 | LXD | EVS1,4 | | LC512800 |
| 15537 | 0020 | 00 | 0 | 14663 | 7723 | TRA | \$APPLY | APPLY(CADR(J),LIST(CDR(E),A),A) | LC512900 |
| | | | | | 7724 | * | | | |
| 15540 | -0625 | 00 | 0 | 03375 | 7725 | EVTRT | STL | EVTRK | SET THE TRACE SWITCH |
| 15541 | 0020 | 00 | 0 | 15501 | 7726 | TRA | EVP2 | | GO SEARCH MORE |
| | | | | | 7727 | * | | | |
| | | | | | 7728 | * | | | |
| | | | | | 7729 | * | | CAR(E) = -1 | |
| | | | | | 7730 | * | | | |
| 15542 | 0500 | 00 | 0 | 16121 | 7731 | EVIN | CLA | EVTE | GET THE NUMBER |
| 15543 | -0534 | 00 | 4 | 03372 | 7732 | LXD | EVS1,4 | | RESTORE LINK INDEX |
| 15544 | 0020 | 00 | 4 | 00001 | 7733 | TRA | 1,4 | | |
| | | | | | 7734 | * | | | |
| 15545 | -0734 | 00 | 4 | 00000 | 7735 | EVP1 | PDX ,4 | J | LC505100 |
| 15546 | -3 | 00000 | 4 | 15563 | 7736 | TXL | EVP11,4,0 | = 0 | LC505200 |
| 15547 | 0500 | 00 | 4 | 00000 | 7737 | CLA | ,4 | | LC505300 |
| 15550 | 0734 | 00 | 4 | 00000 | 7738 | PAX | ,4 | CAR(J) | LC505400 |
| 15551 | 3 | 10742 | 4 | 15545 | 7739 | TXH | EVPI,4,\$APVAL | = APVAL | LC505700 |
| 15552 | -3 | 10741 | 4 | 15545 | 7740 | TXL | EVPI,4,\$APVAL-1 | | LC505800 |
| 15553 | -0734 | 00 | 4 | 00000 | 7741 | EVP13 | PDX ,4 | CDR(J) | LC505900 |
| 15554 | 0500 | 00 | 4 | 00000 | 7742 | CLA | ,4 | | LC506000 |
| 15555 | 0734 | 00 | 4 | 00000 | 7743 | PAX | ,4 | CADR(J) | LC506100 |
| 15556 | 0500 | 00 | 4 | 00000 | 7744 | CLA | ,4 | | LC506200 |

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|-------|--------------|-------|---|-------|--------|--------------------------------|-----------------------------------|----------|
| 15557 | 0734 | 00 | 4 | 00000 | 7745 | PAX ,4 | CAADR(J) | LC506300 |
| 15560 | -0754 | 00 | 4 | 00000 | 7746 | PXD ,4 | | LC506400 |
| 15561 | -0534 | 00 | 4 | 03372 | 7747 | LXD EVS1,4 | | LC506500 |
| 15562 | 0020 | 00 | 4 | 00001 | 7748 | TRA 1,4 | | LC506600 |
| | | | | | 7749 * | | | |
| 15563 | -0600 | 00 | 0 | 16123 | 7750 | EVP11 STQ EVTA | A | LC506800 |
| 15564 | 0500 | 00 | 0 | 16121 | 7751 | CLA EVTE | E | LC506900 |
| 15565 | 0622 | 00 | 0 | 15600 | 7752 | STD EVI1 | | LC507000 |
| 15566 | 0402 | 00 | 0 | 00442 | 7753 | SUB EVQC1 | | LC507100 |
| 15567 | 0622 | 00 | 0 | 15601 | 7754 | STD EVI2 | | LC507200 |
| 15570 | -0634 | 00 | 2 | 16125 | 7755 | SXD EVD1,2 | | LC507300 |
| 15571 | -0534 | 00 | 4 | 16123 | 7756 | LXD EVTA,4 | | LC507400 |
| 15572 | -3 | 00000 | 4 | 15607 | 7757 | EVL1 TXL EVP12,4,0 | NULL(J) | LC507500 |
| 15573 | 0500 | 00 | 4 | 00000 | 7758 | CLA ,4 | | LC507600 |
| 15574 | 0734 | 00 | 2 | 00000 | 7759 | PAX ,2 | CAR(J) | LC507700 |
| 15575 | -0734 | 00 | 4 | 00000 | 7760 | PDX ,4 | CDR(J) | LC507800 |
| 15576 | 0500 | 00 | 2 | 00000 | 7761 | CLA ,2 | | LC507900 |
| 15577 | 0734 | 00 | 2 | 00000 | 7762 | PAX ,2 | CAAR(J) | LC508000 |
| 15600 | 3 | 00000 | 2 | 15572 | 7763 | EVI1 TXH EVL1,2,** | CAAR(J) = E | LC508100 |
| 15601 | -3 | 00000 | 2 | 15572 | 7764 | EVI2 TXL EVL1,2,** | | LC508200 |
| 15602 | -0734 | 00 | 4 | 00000 | 7765 | PDX ,4 | CDAR(J) | LC508300 |
| 15603 | -0754 | 00 | 4 | 00000 | 7766 | PXD ,4 | | LC508600 |
| 15604 | -0534 | 00 | 2 | 16125 | 7767 | LXD EVD1,2 | | LC508700 |
| 15605 | -0534 | 00 | 4 | 03372 | 7768 | LXD EVS1,4 | | LC508800 |
| 15606 | 0020 | 00 | 4 | 00001 | 7769 | TRA 1,4 | | LC508900 |
| | | | | | 7770 * | | | |
| 15607 | -0634 | 00 | 4 | 01562 | 7771 | EVP12 SXD \$ERROR,4 | | LC509100 |
| 15610 | 0500 | 00 | 0 | 16121 | 7772 | CLA EVTE | | LC509200 |
| 15611 | 0074 | 00 | 4 | 01563 | 7773 | TSX \$ERROR+1,4 | | LC509300 |
| 15612 | 542160601054 | | | | 7774 | BCI 1,*A 8* | UNBOUND VARIABLE MENTIONED -EVAL- | |
| | | | | | 7775 * | | | |
| 15613 | -0734 | 00 | 4 | 00000 | 7776 | EVP22 PDX ,4 | CDR(J) FSUBR | LC516300 |
| 15614 | 0500 | 00 | 4 | 00000 | 7777 | CLA ,4 | | LC516400 |
| 15615 | 0734 | 00 | 4 | 00000 | 7778 | PAX ,4 | CADR(J) | LC516500 |
| 15616 | 0500 | 00 | 4 | 00000 | 7779 | CLA ,4 | CWADR(J) | LC516600 |
| 15617 | 0601 | 00 | 0 | 16124 | 7780 | STO EVT1 | | LC516700 |
| 15620 | 0500 | 00 | 0 | 03372 | 7781 | CLA EVS1 | ATOM ANC IR4 FOR SAVING \$ALIST | |
| 15621 | 0601 | 00 | 0 | 03315 | 7782 | STO CSV | | |
| 15622 | 0074 | 00 | 4 | 02312 | 7783 | TSX \$SAVE,4 | | |
| 15623 | -3 | 03320 | 0 | 02377 | 7784 | TXL \$END2,, \$ALIST+2 | | |
| 15624 | -0600 | 00 | 0 | 03316 | 7785 | STQ \$ALIST | | |
| 15625 | 0520 | 00 | 0 | 03375 | 7786 | ZET EVTRK | TEST WHETERT TO TRACT | |
| 15626 | 0020 | 00 | 0 | 16014 | 7787 | TRA EVTFS | YES,TRACE FSUBR | |
| 15627 | 0500 | 00 | 0 | 03411 | 7788 | CLA EVTDE | GET BACK ARGUMENTS | |
| 15630 | 0074 | 00 | 4 | 16124 | 7789 | TSX EVT1,4 | | |
| 15631 | 0074 | 00 | 4 | 02326 | 7790 | TSX UNSAVE,4 | | |
| 15632 | -0534 | 00 | 4 | 03315 | 7791 | LXD CSV,4 | | |
| 15633 | 0020 | 00 | 4 | 00001 | 7792 | TRA 1,4 | | |
| | | | | | 7793 * | | | |
| | | | | | 7794 * | EVP23 THE EXPR BRANCH FOR EVAL | | |
| | | | | | 7795 * | | | |
| 15634 | -0734 | 00 | 4 | 00000 | 7796 | EVP23 PDX 0,4 | REST OF PROPERTY LIST | |
| 15635 | 0500 | 00 | 4 | 00000 | 7797 | CLA 0,4 | GET THE EXPR | |
| 15636 | 0734 | 00 | 4 | 00000 | 7798 | PAX 0,4 | | |

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|-------|-------|-------|---|-------|------|-------|---------------|--------------------------------|----------|
| 15637 | -0634 | 00 | 4 | 16122 | 7799 | SXD | EVTAE,4 | SAVE IN TEMPORARY STORAGE | |
| 15640 | -0534 | 00 | 4 | 02317 | 7800 | LXD | \$CPPI,4 | PUSH DOWN COUNTER | |
| 15641 | 1 | 77773 | 4 | 15665 | 7801 | TXI | EVP28,4,-5 | SAVE 5 ITEMS | |
| | | | | 7802 | * | | | | |
| 15642 | 0500 | 00 | 0 | 16122 | 7803 | EVP25 | CLA EVTAE | CAR(E) | LC517200 |
| 15643 | 0622 | 00 | 0 | 15657 | 7804 | | STD EVI3 | TXH | LC517300 |
| 15644 | 0402 | 00 | 0 | 00442 | 7805 | | SUB EVQD1 | | LC517400 |
| 15645 | 0622 | 00 | 0 | 15660 | 7806 | | STD EVI4 | TXL | LC517500 |
| 15646 | -0634 | 00 | 2 | 16124 | 7807 | SXD | EVT1,2 | | LC517600 |
| 15647 | -0600 | 00 | 0 | 16125 | 7808 | | STQ EVD1 | | LC517700 |
| 15650 | -0534 | 00 | 4 | 16125 | 7809 | LXD | EVD1,4 | A | LC517800 |
| 15651 | -3 | 00000 | 4 | 16007 | 7810 | EVL2 | TXL EVP26,4,0 | NULL(J) | LC517900 |
| 15652 | 0500 | 00 | 4 | 00000 | 7811 | | CLA ,4 | | LC518000 |
| 15653 | -0734 | 00 | 4 | 00000 | 7812 | | PDX ,4 | CDR(J) | LC518100 |
| 15654 | 0734 | 00 | 2 | 00000 | 7813 | | PAX ,2 | CAR(J) | LC518200 |
| 15655 | 0500 | 00 | 2 | 00000 | 7814 | | CLA ,2 | | LC518300 |
| 15656 | 0734 | 00 | 2 | 00000 | 7815 | | PAX ,2 | CAAR(J) | LC518400 |
| 15657 | 3 | 00000 | 2 | 15651 | 7816 | EVI3 | TXH EVL2,2,** | /= CAR(E) | LC518500 |
| 15660 | -3 | 00000 | 2 | 15651 | 7817 | EVI4 | TXL EVL2,2,** | | LC518600 |
| 15661 | -0534 | 00 | 2 | 16124 | 7818 | LXD | EVT1,2 | | LC518700 |
| 15662 | 0622 | 00 | 0 | 16122 | 7819 | STD | EVTAE | SAVE FUNCTION | |
| 15663 | -0534 | 00 | 4 | 02317 | 7820 | EV27 | LXD \$CPPI,4 | | |
| 15664 | 1 | 77773 | 4 | 15665 | 7821 | TXI | **1,4,-5 | SAVE TOTAL OF 5 ITEMS | |
| 15665 | 0522 | 00 | 0 | 02414 | 7822 | EVP28 | XEC ENDPDL | TEST FOR OUT OF PUSH DOWN LIST | |
| 15666 | -0634 | 00 | 4 | 02317 | 7823 | SXD | \$CPPI,4 | | LC519400 |
| 15667 | 0500 | 00 | 0 | 03372 | 7824 | | CLA EVS1 | | LC519900 |
| 15670 | 0601 | 00 | 4 | 77773 | 7825 | STO | -5,4 | | |
| 15671 | 0500 | 00 | 0 | 03373 | 7826 | CLA | EVSE | | LC519500 |
| 15672 | 0601 | 00 | 4 | 77774 | 7827 | STO | -4,4 | | |
| 15673 | 0500 | 00 | 0 | 03374 | 7828 | CLA | EVSA | | LC519700 |
| 15674 | 0601 | 00 | 4 | 77775 | 7829 | STO | -3,4 | | LC519600 |
| 15675 | 0500 | 00 | 0 | 03375 | 7830 | CLA | EVTRK | | |
| 15676 | 0601 | 00 | 4 | 77776 | 7831 | STO | -2,4 | | LC519800 |
| 15677 | 0500 | 00 | 0 | 16127 | 7832 | CLA | EVCN | | |
| 15700 | 0601 | 00 | 4 | 77777 | 7833 | STO | -1,4 | | LC520000 |
| 15701 | 0500 | 00 | 0 | 16122 | 7834 | CLA | EVTAE | GET THE FUNCTION | |
| 15702 | 0622 | 00 | 0 | 03373 | 7835 | STO | EVSE | | 6100 |
| 15703 | -0600 | 00 | 0 | 03374 | 7836 | STQ | EVSA | A | LC520500 |
| 15704 | 0500 | 00 | 0 | 03411 | 7837 | CLA | EVTDE | CDR(E) | LC520600 |
| 15705 | 0560 | 00 | 0 | 15763 | 7838 | LDQ | ELP1 | FUNCTIONAL ARGUMENT | LC526500 |
| 15706 | 0074 | 00 | 4 | 04214 | 7839 | TSX | MAPLIS,4 | MAPLIST(L,EVAL(CAR(L),A)) | LC526600 |
| 15707 | 0601 | 00 | 0 | 16124 | 7840 | STO | EVT1 | | LC520800 |
| 15710 | 0500 | 00 | 0 | 03374 | 7841 | CLA | EVSA | | LC520900 |
| 15711 | 0601 | 00 | 0 | 03321 | 7842 | STO | \$ARG3 | | LC521000 |
| 15712 | 0500 | 00 | 0 | 03373 | 7843 | CLA | EVSE | | LC521100 |
| 15713 | -0534 | 00 | 4 | 02317 | 7844 | LXD | \$CPPI,4 | START OPEN UNSAVE | LC521200 |
| 15714 | 0560 | 00 | 4 | 77773 | 7845 | LDQ | -5,4 | | |
| 15715 | -0600 | 00 | 0 | 03372 | 7846 | STQ | EVS1 | | LC521800 |
| 15716 | 0560 | 00 | 4 | 77774 | 7847 | LDQ | -4,4 | | |
| 15717 | -0600 | 00 | 0 | 03373 | 7848 | STQ | EVSE | | LC521400 |
| 15720 | 0560 | 00 | 4 | 77775 | 7849 | LDQ | -3,4 | | LC521300 |
| 15721 | -0600 | 00 | 0 | 03374 | 7850 | STQ | EVSA | | LC521600 |
| 15722 | 0560 | 00 | 4 | 77776 | 7851 | LDQ | -2,4 | | LC521500 |
| 15723 | -0600 | 00 | 0 | 03375 | 7852 | STQ | EVTRK | | |

| | | | | | | | | | | |
|-------|-------|-------|---|-------|------|--------|--------------------|--|--------------------------------------|----------|
| 15724 | 1 | 00005 | 4 | 15725 | 7853 | TXI | **+1,4,5 | | | |
| 15725 | -0634 | 00 | 4 | 02317 | 7854 | SXD | \$CPPI,4 | | | LC522000 |
| 15726 | 0560 | 00 | 0 | 16124 | 7855 | LDQ | EVT1 | | | LC522100 |
| 15727 | 0520 | 00 | 0 | 03375 | 7856 | ZET | EVTRK | TEST RACE SWITCH | | |
| 15730 | 0020 | 00 | 0 | 15733 | 7857 | TRA | EVDCCO | DECODE EVTRK | | |
| 15731 | -0534 | 00 | 4 | 03372 | 7858 | EVAPG | LXD | EVS1,4 | | |
| 15732 | 0020 | 00 | 0 | 14663 | 7859 | TRA | \$APPLY | APPLY(CADAR(J),EVLIS(CDR(E),A),A) | | LC522300 |
| | | | | | 7860 | * | | | | |
| | | | | | 7861 | * | | IF CAR E IS A SUBR, THE POINTER TO THE TXL INSTRUCTION | | |
| | | | | | 7862 | * | | IS SAVED IN THE DECREMENT OF EVTRK. THE ADDRESS OF | | |
| | | | | | 7863 | * | | EVTRK IS THE TRACE SWITCH. | | |
| | | | | | 7864 | * | | | | |
| 15733 | -0534 | 00 | 4 | 03375 | 7865 | EVDCCO | LXD | EVTRK,4 | LOOK FOR SUBR POINTER | |
| 15734 | -3 | 00000 | 4 | 16031 | 7866 | TXL | EVTXP,4,0 | | THERE ISNT ANY, SO GO AND TRACE EXPR | |
| 15735 | 0534 | 00 | 4 | 03375 | 7867 | LXA | EVTRK,4 | | SEE IF THE SUBR IS TRACED | |
| 15736 | 3 | 00000 | 4 | 15731 | 7868 | TXH | EVAPG,4,0 | | YES IT IS. LET APPLY HANDLE IT | |
| 15737 | -0534 | 00 | 4 | 03375 | 7869 | LXD | EVTRK,4 | | GET THE TXL SUBR WORD | |
| 15740 | 0500 | 00 | 4 | 00000 | 7870 | CLA | 0,4 | | | |
| 15741 | 0601 | 00 | 0 | 16124 | 7871 | STO | EVT1 | | READY TO EXECUTE | |
| 15742 | 0500 | 00 | 0 | 03372 | 7872 | CLA | EVS1 | | GET RETURN INDEX AND ATOM NAME | |
| 15743 | 0601 | 00 | 0 | 03315 | 7873 | STO | CSV | | AND SAVE THEM ALONG WITH \$ALIST | |
| 15744 | 0074 | 00 | 4 | 02312 | 7874 | TSX | \$SAVE,4 | | | |
| 15745 | -3 | 03320 | 0 | 02377 | 7875 | TXL | \$END2,, \$ALIST+2 | | | |
| 15746 | 0500 | 00 | 0 | 03321 | 7876 | CLA | \$ARG3 | | | |
| 15747 | 0601 | 00 | 0 | 03316 | 7877 | STO | \$ALIST | | POST CURRENT ALIST | |
| 15750 | 0131 | 00 | 0 | 00000 | 7878 | XCA | | | ARGUMENT LIST TO AC | |
| 15751 | 0074 | 00 | 4 | 10072 | 7879 | TSX | \$SPREAD,4 | | SMEAR IT OUT | |
| 15752 | 0074 | 00 | 4 | 16124 | 7880 | TSX | EVT1,4 | | EXECUTE SUBR | |
| 15753 | 0074 | 00 | 4 | 02326 | 7881 | TSX | UNSAVE,4 | | RESTORE ALIST AND IX | |
| 15754 | -0534 | 00 | 4 | 03315 | 7882 | LXD | CSV,4 | | | |
| 15755 | 0020 | 00 | 4 | 00001 | 7883 | TRA | 1,4 | | AND RETURN | |
| | | | | | 7884 | * | | | | |
| 15756 | -0734 | 00 | 4 | 00000 | 7885 | EVP27 | PDX | 0,4 | SUBR BRANCH | |
| 15757 | 0500 | 00 | 4 | 00000 | 7886 | CLA | 0,4 | | | |
| 15760 | 0734 | 00 | 4 | 00000 | 7887 | PAX | 0,4 | | POINTER TO TXL WORD | |
| 15761 | -0634 | 00 | 4 | 03375 | 7888 | SXD | EVTRK,4 | | TO SAVE POSITION | |
| 15762 | 0020 | 00 | 0 | 15663 | 7889 | TRA | EV27 | | EVALUATE ARGUMENTS | |
| | | | | | 7890 | * | | | | |
| 15763 | -3 | 00000 | 0 | 15764 | 7891 | ELP1 | TXL | **+1,,0 | | LC527900 |
| 15764 | 0634 | 00 | 4 | 15772 | 7892 | SXA | ELT1,4 | | SAVE LINK IR | |
| 15765 | -0734 | 00 | 4 | 00000 | 7893 | PDX | ,4 | | J | LC528100 |
| 15766 | 0500 | 00 | 4 | 00000 | 7894 | CLA | ,4 | | | LC528200 |
| 15767 | 0734 | 00 | 4 | 00000 | 7895 | PAX | ,4 | | | LC528300 |
| 15770 | -0754 | 00 | 4 | 00000 | 7896 | PXD | ,4 | | CAR(J) | LC528400 |
| 15771 | 0560 | 00 | 0 | 03374 | 7897 | LDQ | EVSA | | GET CURRENT A LIST | |
| 15772 | 0774 | 00 | 4 | 00000 | 7898 | ELT1 | AXT | ** ,4 | RESTORE LINK IR | |
| 15773 | 0020 | 00 | 0 | 15454 | 7899 | TRA | \$EVAL | | | LC528700 |
| | | | | | 7900 | * | | | | |
| | | | | | 7901 | * | EVLIS | | | |
| | | | | | 7902 | * | | | | |
| 15774 | -0634 | 00 | 4 | 03372 | 7903 | EVLIS | SXD | EVS1,4 | SAVE LINK IR | |
| 15775 | 0774 | 00 | 4 | 10167 | 7904 | AXT | EVLISL,4 | | ATOM EVLIS | |
| 15776 | 0634 | 00 | 4 | 03372 | 7905 | SXA | EVS1,4 | | FOR BACKTRACE | |
| 15777 | 0074 | 00 | 4 | 02312 | 7906 | TSX | \$SAVE,4 | | SAVE EVAL STORAGE | |

| | | | | | | | | |
|-------|--------------|-------|---|-------|------|---------|----------------|--|
| 16000 | -3 | 03376 | 0 | 02375 | 7907 | TXL | \$END3,,EVSA+2 | |
| 16001 | -0600 | 00 | 0 | 03374 | 7908 | STQ | EVSA | |
| 16002 | 0560 | 00 | 0 | 15763 | 7909 | LDQ | ELP1 | |
| 16003 | 0074 | 00 | 4 | 04214 | 7910 | TSX | MAPLIS,4 | |
| 16004 | 0074 | 00 | 4 | 02326 | 7911 | TSX | UNSAVE,4 | |
| 16005 | -0534 | 00 | 4 | 03372 | 7912 | LXD | EVS1,4 | |
| 16006 | 0020 | 00 | 4 | 00001 | 7913 | TRA | 1,4 | |
| | | | | 7914 | * | | | |
| 16007 | -0634 | 00 | 4 | 01562 | 7915 | EVP26 | SXD \$ERROR,4 | LC522500 |
| 16010 | -0534 | 00 | 2 | 16124 | 7916 | LXD | EVT1,2 | LC522600 |
| 16011 | 0500 | 00 | 0 | 16121 | 7917 | CLA | EVTE | LC522700 |
| 16012 | 0074 | 00 | 4 | 01563 | 7918 | TSX | \$ERROR+1,4 | LC522800 |
| 16013 | 542160601154 | | | 7919 | BCI | 1,*A 9* | | FUNCTION OBJECT HAS NO DEFINITION EVAL |
| | | | | 7920 | * | | | |
| 16014 | 0734 | 00 | 4 | 00000 | 7921 | EVTFS | PAX 0,4 | ATOM NAME |
| 16015 | -0754 | 00 | 4 | 00000 | 7922 | PXD | 0,4 | TO PRINT POSITION |
| 16016 | 0560 | 00 | 0 | 03411 | 7923 | LDQ | EVTDE | |
| 16017 | 0074 | 00 | 4 | 16050 | 7924 | TSX | ARGOF,4 | PRINT ARGUMENT MESSAGE |
| 16020 | 0560 | 00 | 0 | 03316 | 7925 | LDQ | \$ALIST | RESTORE ALIST AFTER ARGOF |
| 16021 | 0500 | 00 | 0 | 03411 | 7926 | CLA | EVTDE | AND ARGUMENT LIST |
| 16022 | 0074 | 00 | 4 | 16124 | 7927 | TSX | EVT1,4 | DO THE FSUBR |
| 16023 | 0074 | 00 | 4 | 02326 | 7928 | TSX | UNSAVE,4 | RESTORE THE IR |
| 16024 | 0131 | 00 | 0 | 00000 | 7929 | XCA | | VALUE TO MQ |
| 16025 | 0534 | 00 | 4 | 03315 | 7930 | LXA | CSV,4 | GET ATOM NAME FOR VALUE MESSAGE |
| 16026 | -0754 | 00 | 4 | 00000 | 7931 | PXD | 0,4 | TO AC |
| 16027 | -0534 | 00 | 4 | 03315 | 7932 | LXD | CSV,4 | AND RETURN IR4 |
| 16030 | 0020 | 00 | 0 | 16104 | 7933 | TRA | VALOF | PRINT VALUE MESSAGE |
| | | | | 7934 | * | | | |
| 16031 | 0622 | 00 | 0 | 03411 | 7935 | EVTXP | STD EVTDE | SAVE LAMBDA EXPRESSION |
| 16032 | 0534 | 00 | 4 | 03372 | 7936 | LXA | EVS1,4 | GET ATOMIC FUNCTION |
| 16033 | -0754 | 00 | 4 | 00000 | 7937 | PXD | 0,4 | TO PRINT POSITION |
| 16034 | 0074 | 00 | 4 | 16050 | 7938 | TSX | ARGOF,4 | PRINT ARGUMENT MESSAGE |
| 16035 | 0074 | 00 | 4 | 02312 | 7939 | TSX | \$SAVE,4 | SAVE THERETURN IX |
| 16036 | -3 | 03374 | 0 | 02401 | 7940 | TXL | \$END1,,EVS1+2 | |
| 16037 | 0560 | 00 | 0 | 16124 | 7941 | LDQ | EVT1 | RESTORE THE LIST OF ARGUMENTS |
| 16040 | 0500 | 00 | 0 | 03411 | 7942 | CLA | EVTDE | AND THE LAMBDA EXPRESSION |
| 16041 | 0074 | 00 | 4 | 14663 | 7943 | TSX | \$APPLY,4 | APPLY THE FUNCTION TO ITS ARGS |
| 16042 | 0074 | 00 | 4 | 02326 | 7944 | TSX | UNSAVE,4 | |
| 16043 | 0131 | 00 | 0 | 00000 | 7945 | XCA | | PUT VALUE IN MQ |
| 16044 | 0534 | 00 | 4 | 03372 | 7946 | LXA | EVS1,4 | NAME OF ROUTINE TRACED |
| 16045 | -0754 | 00 | 4 | 00000 | 7947 | PXD | 0,4 | PUT IN AC |
| 16046 | -0534 | 00 | 4 | 03372 | 7948 | LXD | EVS1,4 | LINK IR |
| 16047 | 0020 | 00 | 0 | 16104 | 7949 | TRA | VALGF | PRINT VALUE OF STATEMENT |
| | | | | 7950 | * | | | |
| | | | | 7951 | * | ARGOF | | PRINTS ARGUMENTS OF NAME FOLLOWED BY THE LIST OF ARGUMEN |
| | | | | 7952 | * | | | |
| 16050 | 0634 | 00 | 4 | 16074 | 7953 | ARGOF | SXA PRX,4 | SAVE INDEX REGISTERS |
| 16051 | 0634 | 00 | 2 | 16073 | 7954 | SXA | PRY,2 | |
| 16052 | 0601 | 00 | 0 | 16076 | 7955 | STO | AGA | SAVE ATOM NAME |
| 16053 | -0600 | 00 | 0 | 16077 | 7956 | STQ | AGQ | SAVE LIST OF ARGUMENTS |
| 16054 | 0074 | 00 | 4 | 05214 | 7957 | TSX | TERPRI,4 | PRINT A BLANK LINE |
| 16055 | 0774 | 00 | 2 | 00003 | 7958 | AXT | 3,2 | PRINT2 OUT 3 WORDS |
| 16056 | 0500 | 00 | 2 | 16103 | 7959 | CLA | AGM+3,2 | |
| 16057 | 0074 | 00 | 4 | 05110 | 7960 | TSX | \$PRIN2,4 | |

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|-------|---------------|-------|---|-------|------|---------|--------------|--|----------------------------------|
| 16060 | 2 | 00001 | 2 | 16056 | 7961 | TIX | *-2,2,1 | LOOP | |
| 16061 | 0500 | 00 | 0 | 16076 | 7962 | CLA | AGA | | |
| 16062 | 0074 | 00 | 4 | 04604 | 7963 | TSX | \$PRINT,4 | PRINT OUT THE LINE | |
| 16063 | -0534 | 00 | 2 | 16077 | 7964 | LXD | AGQ,2 | START THE PRINLIS | |
| 16064 | -3 | 00000 | 2 | 16073 | 7965 | PLL | TXL | PRY,2,0 | EXIT IF END OF LIST |
| 16065 | 0500 | 00 | 2 | 00000 | 7966 | CLA | 0,2 | NEXT ITEM | |
| 16066 | -0734 | 00 | 2 | 00000 | 7967 | PDX | 0,2 | CDR OF LIST | |
| 16067 | 0734 | 00 | 4 | 00000 | 7968 | PAX | 0,4 | CAR | |
| 16070 | -0754 | 00 | 4 | 00000 | 7969 | PXD | 0,4 | | |
| 16071 | 0074 | 00 | 4 | 04604 | 7970 | TSX | \$PRINT,4 | | |
| 16072 | 0020 | 00 | 0 | 16064 | 7971 | TRA | PLL | GET NEXT ITEM | |
| 16073 | 0774 | 00 | 2 | 00000 | 7972 | PRY | AXT | ** ,2 | RESTORE INDEX REGISTERS |
| 16074 | 0774 | 00 | 4 | 00000 | 7973 | PRX | AXT | ** ,4 | |
| 16075 | 0020 | 00 | 4 | 00001 | 7974 | TRA | 1,4 | EXIT | |
| | | | | 7975 | * | | | | |
| 16076 | 0 | 00000 | 0 | 00000 | 7976 | AGA | | TEMPORARY STORAGE | |
| 16077 | 0 | 00000 | 0 | 00000 | 7977 | AGQ | | | |
| 16100 | 215127644425 | | | 7978 | AGM | BCI | 1,ARGUME | | |
| 16101 | -056362607777 | | | 7979 | OCT | | 456362607777 | ARGUMENTS | |
| 16102 | -062660777777 | | | 7980 | AGO | OCT | 462660777777 | OF | |
| 16103 | 652143642560 | | | 7981 | VALV | BCI | 1,VALUE | | |
| | | | | 7982 | * | | | | |
| | | | | 7983 | * | VALOF | | PRINTS VALUE OF NAME FOLLOWED BY ONE LIST | |
| | | | | 7984 | * | | | SHARES STORAGE WITH ARGOF ROUTINE | |
| | | | | 7985 | * | | | | |
| 16104 | 0634 | 00 | 4 | 16117 | 7986 | VALOF | SXA | VAX,4 | SAVE LINK IR |
| 16105 | 0601 | 00 | 0 | 16076 | 7987 | STO | AGA | | ATOM NAME |
| 16106 | -0600 | 00 | 0 | 16077 | 7988 | STQ | AGQ | | VALUE OF EXPRESSION |
| 16107 | 0074 | 00 | 4 | 05214 | 7989 | TSX | TERPRI,4 | | PRINT A BLANK LINE |
| 16110 | 0500 | 00 | 0 | 16103 | 7990 | CLA | VALV | | WORD VALUE |
| 16111 | 0074 | 00 | 4 | 05110 | 7991 | TSX | \$PRIN2,4 | | PUT IN OUTPUT LINE |
| 16112 | 0500 | 00 | 0 | 16102 | 7992 | CLA | AGQ | | WORD OF |
| 16113 | 0074 | 00 | 4 | 05110 | 7993 | TSX | \$PRIN2,4 | | |
| 16114 | 0500 | 00 | 0 | 16076 | 7994 | CLA | AGA | | ATOM |
| 16115 | 0074 | 00 | 4 | 04604 | 7995 | TSX | \$PRINT,4 | | PRINT OUT THE LINE |
| 16116 | 0500 | 00 | 0 | 16077 | 7996 | CLA | AGQ | | VALUE |
| 16117 | 0774 | 00 | 4 | 00000 | 7997 | VAX | AXT | ** ,4 | RESTORE LINK IR |
| 16120 | 0020 | 00 | 0 | 04604 | 7998 | TRA | \$PRINT | | PRINT OUT VALUE AND RETURN |
| 16121 | 0 | 00000 | 0 | 00000 | 7999 | EVTE | | E | LC523600 |
| 16122 | 0 | 00000 | 0 | 00000 | 8000 | EVTAE | | CAR(E) | LC523700 |
| 16123 | 0 | 00000 | 0 | 00000 | 8001 | EVT A | | A | LC523900 |
| 16124 | 0 | 00000 | 0 | 00000 | 8002 | EVTI | | | LC524000 |
| 16125 | 0 | 00000 | 0 | 00000 | 8003 | EVDI | | | LC524100 |
| 16126 | 0 | 00000 | 0 | 00000 | 8004 | EVLNS | | TEST CELL FOR NUMBERS | |
| 16127 | -3 | 03377 | 0 | 02373 | 8005 | EVCM | TXL | \$END4,,EVTRK+2 | |
| | | 00370 | | | 8006 | EVZRO | SYN | \$ZERO | 6110 |
| | | 00442 | | | 8007 | EVQD1 | SYN | \$QD1 | 6120 |
| | | | | | 8008 | * INTER | | MULTIPLE LISP STATEMENT PROGRAM FEATURE INTERPRETER | 1.5R0020 |
| | | | | | 8009 | * | | RECODED TO MAKE THE INTERPRETER AND COMPILER PROGRAM | 1.5R0030 |
| | | | | | 8010 | * | | FEATURE UNDER STAND THE SAME LANGUAGE | 1.5R0040 |
| | | | | | 8011 | * | | | 1.5R0050 |
| | | | | | 8012 | R | HED | | LC531700 |
| 16130 | -0634 | 00 | 4 | 03444 | 8013 | INTER | SXD | INTRX,4 | SAVE LINK IR |
| 16131 | 0074 | 00 | 4 | 02312 | 8014 | TSX | \$SAVE,4 | | SAVE PROTECTED TEMPORARY STORAGE |

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|-------|-------|-------|---|-------|------|-----------|------------------|-------------------------------------|
| 16132 | -3 | 03452 | 0 | 02371 | 8015 | TXL | \$END5,,INTGS+2 | SAVE 5 ITEMS |
| 16133 | 0634 | 00 | 2 | 03446 | 8016 | SXA | INTGL,2 | SAVE INDEX REGISTER 2 |
| 16134 | -0600 | 00 | 0 | 03447 | 8017 | STQ | INTPL | SAVE PAIR LIST |
| 16135 | 0600 | 00 | 0 | 03450 | 8018 | STZ | INTGS | ZERO THE GO SWITCH |
| 16136 | -0734 | 00 | 4 | 00000 | 8019 | PDX | 0,4 | POINTER TO PROGRAM |
| 16137 | 0500 | 00 | 4 | 00000 | 8020 | CLA | 0,4 | FIRST WORD |
| 16140 | 0622 | 00 | 0 | 03445 | 8021 | STD | INTB | POINTER TO BEGINNING OF PROGRAM |
| 16141 | 0622 | 00 | 0 | 16271 | 8022 | STD | INTE | DITTO |
| 16142 | 0734 | 00 | 4 | 00000 | 8023 | PAX | 0,4 | POINTER TO LIST OF PROGRAM VARIABLE |
| 16143 | -0754 | 00 | 4 | 00000 | 8024 | PXD | 0,4 | TO DECREMENT |
| 16144 | 0560 | 00 | 0 | 16242 | 8025 | LDQ | INTFB | FUNCTIONAL ARGUMENT |
| 16145 | 0074 | 00 | 4 | 04214 | 8026 | TSX | MAPLIS,4 | (MAPLIST PV (LAMBDA (L) (CONS (CA |
| 16146 | 0560 | 00 | 0 | 03447 | 8027 | LDQ | INTPL | NIL))) PICK UP PAIR LIST |
| 16147 | 0074 | 00 | 4 | 07675 | 8028 | TSX | \$NCONC,4 | ATTACH PROGRAM VARIABLES TO PAIR L |
| 16150 | 0601 | 00 | 0 | 03447 | 8029 | STO | INTPL | PUT IN PAIR LIST REGISTER |
| 16151 | 0560 | 00 | 0 | 00370 | 8030 | LDQ | \$ZERO | ZERO THE MQ |
| 16152 | -0534 | 00 | 4 | 16271 | 8031 | INTGM LX | INTE,4 | SEARCH PROGRAM FOR GO TO POINTS |
| 16153 | -3 | 00000 | 4 | 16166 | 8032 | TXL | INTAA,4,0 | GO IF END OF PROGRAM |
| 16154 | 0500 | 00 | 4 | 00000 | 8033 | CLA | 0,4 | NEXT WORD |
| 16155 | 0622 | 00 | 0 | 16271 | 8034 | STD | INTE | SAVE CDR |
| 16156 | 0734 | 00 | 2 | 00000 | 8035 | PAX | 0,2 | CAR |
| 16157 | 0500 | 00 | 2 | 00000 | 8036 | CLA | 0,2 | MAKE ATOM TEST |
| 16160 | 0734 | 00 | 2 | 00000 | 8037 | PAX | 0,2 | |
| 16161 | -3 | 77776 | 2 | 16152 | 8038 | TXL | INTGM,2,-2 | GO IF NOT AN ATOM |
| 16162 | -0754 | 00 | 4 | 00000 | 8039 | PXD | 0,4 | IS AN ATOM, PUT POINTER TO CURRENT |
| 16163 | 0074 | 00 | 4 | 03730 | 8040 | TSX | \$CONS,4 | PUT ON GO LOST |
| 16164 | 0131 | 00 | 0 | 00000 | 8041 | XCA | | ANSWER TO MQ |
| 16165 | 0020 | 00 | 0 | 16152 | 8042 | TRA | INTGM | NEXT ITEM |
| 16166 | -0620 | 00 | 0 | 03446 | 8043 | INTAA SLQ | INTGL | ALL DONE, STORE GO LIST |
| 16167 | -0534 | 00 | 4 | 03445 | 8044 | INTGA LX | INTB,4,0 | NEXT PROGRAM LOCATION |
| 16170 | -3 | 00000 | 4 | 16262 | 8045 | TXL | INTRN,4,0 | RETURN WITH NIL IF RAN OUT OF STA |
| 16171 | 0500 | 00 | 4 | 00000 | 8046 | CLA | 0,4 | NEXT WORD |
| 16172 | 0622 | 00 | 0 | 03445 | 8047 | STD | INTB | SAVE CDR |
| 16173 | 0734 | 00 | 4 | 00000 | 8048 | PAX | 0,4 | CAR |
| 16174 | 0500 | 00 | 4 | 00000 | 8049 | CLA | 0,4 | FIRST WORD |
| 16175 | 0734 | 00 | 2 | 00000 | 8050 | PAX | 0,2 | CHECK FOR ATOM OR \$COND |
| 16176 | 3 | 77776 | 2 | 16167 | 8051 | TXH | INTGA,2,-2 | GO TO NEXT STEP IF ATOM |
| 16177 | -3 | 10457 | 2 | 16221 | 8052 | TXL | INTEV,2,\$COND-1 | GO TO EVAL IF NOT \$COND |
| 16200 | 3 | 10460 | 2 | 16221 | 8053 | TXH | INTEV,2,\$CCND | |
| 16201 | -0734 | 00 | 2 | 00000 | 8054 | PDX | 0,2 | IS \$COND DO AN EVCOND |
| 16202 | -3 | 00000 | 2 | 16167 | 8055 | INTEB TXL | INTGA,2,0 | GO TO NEXT STEP IF COND UNSATISFIE |
| 16203 | 0500 | 00 | 2 | 00000 | 8056 | CLA | 0,2 | FIRST COND STATEMENT |
| 16204 | -0734 | 00 | 2 | 00000 | 8057 | PDX | 0,2 | CDR |
| 16205 | 0734 | 00 | 4 | 00000 | 8058 | PAX | 0,4 | FIRST SUB COND |
| 16206 | 0500 | 00 | 4 | 00000 | 8059 | CLA | 0,4 | |
| 16207 | -0734 | 00 | 4 | 00000 | 8060 | PDX | 0,4 | POINTER TO THEN PART |
| 16210 | 0634 | 00 | 4 | 03445 | 8061 | SXA | INTB,4 | SAVE IN PROTECTED STORAGE |
| 16211 | 0734 | 00 | 4 | 00000 | 8062 | PAX | 0,4 | POINTER TO IF PART |
| 16212 | -0754 | 00 | 4 | 00000 | 8063 | PXD | 0,4 | PUT IN DECREMENT |
| 16213 | 0560 | 00 | 0 | 03447 | 8064 | LDQ | INTPL | PAIR LIST |
| 16214 | 0074 | 00 | 4 | 15454 | 8065 | TSX | \$EVAL,4 | EVALUATE IT |
| 16215 | 0100 | 00 | 0 | 16202 | 8066 | TZE | INTEB | GO IF IF PART IS FALSE |
| 16216 | 0534 | 00 | 4 | 03445 | 8067 | LXA | INTB,4 | GET THEN PART |
| 16217 | 0500 | 00 | 4 | 00000 | 8068 | CLA | 0,4 | |

| | | | | | | | | |
|-------|--------------|----|-------|-------|------------|------------|-------------|------------------------------------|
| 16220 | 0734 | 00 | 4 | 00000 | 8069 | PAX | 0,4 | PPINTER TPO THEN PART |
| 16221 | -0754 | 00 | 4 | 00000 | 8070 | INTEV PXD | 0,4 | LIST TO BE EVALUATED |
| 16222 | 0560 | 00 | 0 | 03447 | 8071 | LDQ | INTPL | GET PAIR LIST |
| 16223 | 0074 | 00 | 4 | 15454 | 8072 | TSX | \$EVAL,4 | EVALUATE IT |
| 16224 | -0520 | 00 | 0 | 03450 | 8073 | NZT | INTGS | SEE IF GO SWITCH SET |
| 16225 | 0020 | 00 | 0 | 16167 | 8074 | TRA | INTGA | GO TO NEXT STATEMENT |
| 16226 | 0534 | 00 | 4 | 03450 | 8075 | LXA | INTGS,4 | WAS SET, SEE IF GO OR RETURN |
| 16227 | 3 77776 | 4 | 16262 | 8076 | TXH | INTRN,4,-2 | | TRA IF RETURN |
| 16230 | -0754 | 00 | 4 | 00000 | 8077 | PXD | 0,4 | POINTER TO ITEM |
| 16231 | 0560 | 00 | 0 | 16253 | 8078 | LDQ | INTFC | GET SASSOC FUNCTIONAL ARGUMENT |
| 16232 | -0600 | 00 | 0 | 03321 | 8079 | STQ | \$ARG3 | PUT IN \$ARG3 |
| 16233 | 0560 | 00 | 0 | 03446 | 8080 | LDQ | INTGL | GET GO LIST |
| 16234 | 0074 | 00 | 4 | 10042 | 8081 | TSX | SASSOC,4 | SEARCH FOR ATOM |
| 16235 | -0734 | 00 | 4 | 00000 | 8082 | PDX | 0,4 | POINTER TP PROGRAM POINT |
| 16236 | 0500 | 00 | 4 | 00000 | 8083 | CLA | 0,4 | TAKE CDR |
| 16237 | 0622 | 00 | 0 | 03445 | 8084 | STD | INTB | SET PROGRAM POINT |
| 16240 | 0600 | 00 | 0 | 03450 | 8085 | STZ | INTGS | ZERO THE GO SWITCH |
| 16241 | 0020 | 00 | 0 | 16167 | 8086 | TRA | INTGA | GO TO THAT STATEMENT |
| | | | | | 8087 | * | | |
| 16242 | -3 00001 | 0 | 16243 | 8088 | INTFR TXL | **1,,1 | | MAPLIST FUNCTIONAL ARGUMENT |
| 16243 | 0634 | 00 | 4 | 16251 | 8089 | SXA | INTFX,4 | (LAMBDA (L) (CONS (CAR L) NIL)) |
| 16244 | -0734 | 00 | 4 | 00000 | 8090 | PDX | 0,4 | |
| 16245 | 0500 | 00 | 4 | 00000 | 8091 | CLA | 0,4 | |
| 16246 | 0734 | 00 | 4 | 00000 | 8092 | PAX | 0,4 | |
| 16247 | -0754 | 00 | 4 | 00000 | 8093 | PXD | 0,4 | |
| 16250 | 0560 | 00 | 0 | 00370 | 8094 | LDQ | \$ZERO | |
| 16251 | 0774 | 00 | 4 | 00000 | 8095 | INTFX AXT | **,,4 | |
| 16252 | 0020 | 00 | 0 | 03730 | 8096 | TRA | \$CONS | |
| | | | | | 8097 | * | | |
| 16253 | -3 00001 | 0 | 16254 | 8098 | INTFC TXL | **1,,1 | | UNLABELED GO TO POINT ERROR |
| 16254 | -0634 | 00 | 4 | 01562 | 8099 | SXD | \$ERROR,4 | SAVE LINK IR |
| 16255 | 0534 | 00 | 4 | 03450 | 8100 | LXA | INTGS,4 | POINTER TO GO POINT LABEL |
| 16256 | -0754 | 00 | 4 | 00000 | 8101 | PXD | 0,4 | PUT IN DECREMENT |
| 16257 | 0534 | 00 | 2 | 03446 | 8102 | LXA | INTGL,2 | RESTORE INDEX REGISTER 2 |
| 16260 | 0074 | 00 | 4 | 01563 | 8103 | TSX | \$ERROR+1,4 | GO TO ERROR |
| 16261 | 542160600654 | | | 8104 | BCI | 1,*A 6* | | GO TO POINT NOT LABELED |
| | | | | | 8105 | * | | |
| 16262 | -0534 | 00 | 4 | 03450 | 8106 | INTRN LXI | INTGS,4 | RETURN VALUE |
| 16263 | -0754 | 00 | 4 | 00000 | 8107 | PXD | 0,4 | PUT IN DECREMENT |
| 16264 | 0600 | 00 | 0 | 03450 | 8108 | STZ | INTGS | ZERO THE GO SWITCH |
| 16265 | 0534 | 00 | 2 | 03446 | 8109 | LXA | INTGL,2 | RESTORE INDEX REGISTER 2 |
| 16266 | 0074 | 00 | 4 | 02326 | 8110 | TSX | UNSAVE,4 | RESTORE PROTECTED STORAGE |
| 16267 | -0534 | 00 | 4 | 03444 | 8111 | LXI | INTRX,4 | RESTORE LINK IR |
| 16270 | 0020 | 00 | 4 | 00001 | 8112 | TRA | 1,4 | |
| | | | | | 8113 | * | | TEMPORARY STORAGE FOR INTERPRETER |
| 16271 | 0 00000 | 0 | 00000 | 8114 | INTE | | | TEMPORARY STORAGE |
| | | | 03447 | 8115 | PRGVAR SYN | INTPL | | |
| | | | | 8116 | * | | | |
| | | | | 8117 | * | | | |
| | | | | 8118 | * RETURN | | | SPECIAL PROGRAM SETS RETURN SWITCH |
| | | | | 8119 | * | | | IN PROGRAM INTERPRETER |
| | | | | 8120 | * | | | |
| 16272 | -0501 | 00 | 0 | 00457 | 8121 | RETURN ORA | \$AMASK | SIGNAL THAT IT IS A RETURN |
| 16273 | 0601 | 00 | 0 | 03450 | 8122 | STO | INTGS | SET UP GO SWITCH |

| | | | | | | | | | |
|-------|----------|----|-------|-------|------|---------------|---|--------------------------|----------|
| 16274 | 0500 | 00 | 0 | 00442 | 8123 | CLA | \$QD1 | PICK UP TRUTH VALUE | 1.5R1220 |
| 16275 | 0020 | 00 | 4 | 00001 | 8124 | TRA | 1,4 | EXIT | 1.5R1230 |
| | | | | | 8125 | * | | | 1.5R1240 |
| | | | | | 8126 | * GO | SPECIAL FORM FOR PROGRAM INTERPRETER, GIVES GO TO POINT | | 1.5R1250 |
| | | | | | 8127 | * | | | 1.5R1260 |
| 16276 | -0634 | 00 | 4 | 03413 | 8128 | GOGOGO | SXD GOX,4 | SAVE LINK IR | |
| 16277 | -0734 | 00 | 4 | 00000 | 8129 | PDX | 0,4 | POINTER TO ARGUMENT LIST | 1.5R1280 |
| 16300 | 0500 | 00 | 4 | 00000 | 8130 | CLA | 0,4 | | 1.5R1290 |
| 16301 | 0621 | 00 | 0 | 03450 | 8131 | STA | INTGS | PUT CAR IN GO SWITCH | 1.5R1300 |
| 16302 | 0734 | 00 | 4 | 00000 | 8132 | PAX | 0,4 | CAR TO IR | 1.5R1310 |
| 16303 | 0500 | 00 | 4 | 00000 | 8133 | CLA | 0,4 | GET FIRST WORD | 1.5R1320 |
| 16304 | 0734 | 00 | 4 | 00000 | 8134 | PAX | 0,4 | SEE IF ATOMIC | 1.5R1330 |
| 16305 | 3 77776 | 4 | 16316 | 8135 | TXH | GOT,4,-2 | | EXIT TRUE IF ATOMIC | 1.5R1340 |
| 16306 | 0534 | 00 | 4 | 03450 | 8136 | LXA | INTGS,4 | OTHERWISE GET ARGUMENT | 1.5R1350 |
| 16307 | -0754 | 00 | 4 | 00000 | 8137 | PXD | 0,4 | PUT INDECREMENT | 1.5R1360 |
| 16310 | 0074 | 00 | 4 | 02312 | 8138 | TSX | \$SAVE,4 | SAVE LINK IR | 1.5R1370 |
| 16311 | -3 03415 | 0 | 02401 | 8139 | TXL | \$END1,,GOX+2 | | SAVE 1 ITEM | |
| 16312 | 0074 | 00 | 4 | 15454 | 8140 | TSX | \$EVAL,4 | EVALUATE THE ARGUMENT | 1.5R1390 |
| 16313 | 0074 | 00 | 4 | 02326 | 8141 | TSX | UNSAVE,4 | RSTORE LINK IR | 1.5R1400 |
| 16314 | -0734 | 00 | 4 | 00000 | 8142 | PDX | 0,4 | VALUE | 1.5R1420 |
| 16315 | 0634 | 00 | 4 | 03450 | 8143 | SXA | INTGS,4 | PU IN GO SWITCH | 1.5R1430 |
| 16316 | 0500 | 00 | 0 | 00442 | 8144 | GOT CLA | \$QD1 | TRUTH VALUE | 1.5R1440 |
| 16317 | -0534 | 00 | 4 | 03413 | 8145 | LXD | GOX,4 | RESTORE LINK IR | 1.5R1450 |
| 16320 | 0020 | 00 | 4 | 00001 | 8146 | TRA | 1,4 | EXIT | 1.5R1460 |
| | | | | | 8147 | * | | | 1.5R1480 |

DECK LAP PART ONE

1 HEAD C THIS IS THE COMPILER AND ASMBLR

2 *

3 * LAP IS THE ASSEMBLER. ONE ARG IS LISTING. IT IS LIST OF INSTRUC-

4 * TIONS, NON-ATOMIC OR NIL. THE ATOMIC SYMBOLS ARE LOCATION SYMBOLS

5 * SECOND ARG IS START OF SYMBIL TABLE WHICH IS AN A-LIST.

6 * THE FIRST ITEM IS ORG AS FOLLOWS-

7 * NIL= IN BPS

8 * ATOM= AT SYMBOLIC LOCATION

9 * NUM= ATTHIS NUMBER

10 * (NAME TYPE NUM) = IN BPS, AND PUT TXL ON PROP LIST OF NAME

11 * WITH FLAG TYPE AND NUM 18 DEC. OF TXL.

12 * INSTRUCTION FORMAT IS (OP ADDR TAG DEC)

13 * FIELD FORMAT IS AS FOLLOWS-

14 * TEMP SYMBOL

15 * NUMBER

16 * SYM SUBR OR FSUBR

17 * (E NAME) FOR IMMEDIATE AS IN TXL FILTER

18 * (QUOTE NAME) FOR ITEM IN DEC OF WORD ON QTLST

19 * POINTER TO COMMON WORD.MAKES ONE IF NONE ALREADY

20 * SUM OF ANY OF ABOVE

21 * LAP IS IDENTITY FUNCTION

22 * LAP DOES NOT USE IX1. IX2,4 ARE SCARTCH

23 * ERRORS IN LAP AS FOLLOWS-

24 * *L 1* UNABLE TO EVALUATE ORIGIN

25 * *L 2* OUT OF BPS DISCOVERED AFTER PASS I

26 * *L 3* UNDEFINED SYMBOL

27 * *L 4* FIELD WAS RECURSIVE

28 *

| | | | | | | | | |
|-------|--------------|-------|---------|----|------|-----|-------------|---------------------------------|
| 16321 | 0634 | 00 4 | 16470 | 29 | LAP | SXA | LAX,4 | |
| 16322 | 0634 | 00 2 | 16471 | 30 | | SXA | LAX+1,2 | |
| 16323 | 0601 | 00 0 | 16477 | 31 | | STO | LIST | THIS IS THE INPUT |
| 16324 | -0600 | 00 0 | 16501 | 32 | | STQ | TAB | START OF SYMBOL TABLE |
| 16325 | -0734 | 00 4 | 00000 | 33 | | PDX | 0,4 | |
| 16326 | 0500 | 00 4 | 00000 | 34 | | CLA | 0,4 | |
| 16327 | 0622 | 00 0 | 16505 | 35 | | STD | REST | SAVE REST OF LISTING |
| 16330 | 0734 | 00 2 | 00000 | 36 | | PAX | 0,2 | ORIGIN IN IX2 |
| 16331 | -3 | 00000 | 2 16356 | 37 | | TXL | INBP,2,0 | NIL MEANS BPS ASSEMBLY |
| 16332 | 0500 | 00 2 | 00000 | 38 | | CLA | 0,2 | |
| 16333 | 0734 | 00 4 | 00000 | 39 | | PAX | 0,4 | CAR OF ORIGIN |
| 16334 | -3 77776 | 4 | 16356 | 40 | | TXL | INBP,4,-2 | NOT ATOM MEANS BPS MODE SO GO |
| 16335 | -0625 | 00 0 | 16511 | 41 | | STL | MODE | NOISE = NOT BPS |
| 16336 | -0754 | 00 2 | 00000 | 42 | | PXD | 0,2 | MAKE NUMBER TEST |
| 16337 | 0074 | 00 4 | 14445 | 43 | | TSX | NUMBRP,4 | |
| 16340 | -0100 | 00 0 | 16351 | 44 | | TNZ | LSQ | IF A NUMBER |
| 16341 | -0754 | 00 2 | 00000 | 45 | | PXD | 0,2 | ORIGIN TO AC |
| 16342 | 0560 | 00 4 | 00510 | 46 | | LDQ | \$QSYMD,4 | (QUOTE SYM) |
| 16343 | 0074 | 00 4 | 11771 | 47 | | TSX | GET,4 | |
| 16344 | -0100 | 00 0 | 16350 | 48 | | TNZ | *+4 | ORIGIN WAS FOUND |
| 16345 | -0634 | 00 4 | 01562 | 49 | | SXD | \$ERROR,4 | |
| 16346 | -0754 | 00 2 | 00000 | 50 | | PXD | 0,2 | SHOW IT |
| 16347 | 0074 | 00 4 | 01563 | 51 | | TSX | \$ERROR+1,4 | UNDEFINED ORIGIN |
| 16350 | 544360600154 | | | 52 | | BCI | 1,*1 1* | |
| 16351 | -0754 | 00 2 | 00000 | 53 | LSQ | PXD | 0,2 | |
| 16352 | 0074 | 00 4 | 14342 | 54 | | TSX | NUMVAL,4 | GET NUMERICAL VALUE |
| 16353 | -0734 | 00 4 | 00000 | 55 | LSD | PDX | 0,4 | |
| 16354 | 0500 | 00 4 | 00000 | 56 | | CLA | 0,4 | PUTS SYM IN AC FOR NOT BPS MODE |
| 16355 | 0020 | 00 0 | 16361 | 57 | | TRA | *+4 | |
| 16356 | 0500 | 00 0 | 02304 | 58 | INBP | CLA | \$ORG | PUTS ORG IN AC FOR BPS MODE |
| 16357 | 0600 | 00 0 | 16511 | 59 | | STZ | MODE | INDICATES BPS MODE |
| 16360 | 0074 | 00 4 | 16535 | 60 | | ISX | JUST,4 | JUSTIFY AC |
| 16361 | 0601 | 00 0 | 16506 | 61 | | STO | STAR | UPDATE MARKER |
| 16362 | 0601 | 00 0 | 16507 | 62 | | SIO | START | RESET MARKER |
| 16363 | 0600 | 00 0 | 16510 | 63 | | STZ | PASWD | INDICATE PASS 1 |
| 16364 | 0074 | 00 4 | 16543 | 64 | | TSX | PASS,4 | |
| 16365 | 0500 | 00 0 | 16501 | 65 | | CLA | TAB | |
| 16366 | 0074 | 00 4 | 04604 | 66 | | TSX | \$PRINT,4 | PRINT SYMBOL TABLE |
| 16367 | 0520 | 00 0 | 16511 | 67 | | ZET | MODE | |
| 16370 | 0020 | 00 0 | 16373 | 68 | | TRA | *+3 | IF NOT IN BPS MODE |
| 16371 | 0534 | 00 4 | 16506 | 69 | | LXA | STAR,4 | |
| 16372 | 0522 | 00 0 | 16526 | 70 | | XEC | LBPTP | TEST FOR OUT OF BPS |
| 16373 | 0534 | 00 4 | 16507 | 71 | | LXA | START,4 | RESET STAR FOR SECOND PASS |
| 16374 | 0634 | 00 4 | 16506 | 72 | | SXA | STAR,4 | |
| 16375 | -0534 | 00 4 | 16477 | 73 | | LXD | LIST,4 | |
| 16376 | 0500 | 00 4 | 00000 | 74 | | CLA | 0,4 | |
| 16377 | 0622 | 00 0 | 16505 | 75 | | STD | REST | USED BY PASS AGAIN |
| 16400 | -0625 | 00 0 | 16510 | 76 | | STL | PASWD | NOISE MEANS PASS 2 |
| 16401 | 0074 | 00 4 | 16543 | 77 | | TSX | PASS,4 | FOR PASS 2 |
| 16402 | 0520 | 00 0 | 16511 | 78 | | ZET | MODE | |
| 16403 | 0020 | 00 0 | 16464 | 79 | | TRA | LENQ | IF NOT IN BPS MODE |
| 16404 | 0534 | 00 4 | 16506 | 80 | | LXA | STAR,4 | RSET ORG FOR NEXT ASSEMBLY |
| 16405 | 0634 | 00 4 | 02304 | 81 | | SXA | \$ORG,4 | |
| 16406 | -0534 | 00 4 | 16477 | 82 | | LXD | LIST,4 | |

1652
1632
53351

1521
510
15611

16472
53331
72023

| | | | | | | | | |
|-------|----------|----|-------|-------|-----|----------------|--|--------------------------------------|
| 16407 | 0500 | 00 | 4 | 00000 | 83 | CLA | 0,4 | CWR OF LISTING |
| 16410 | 0734 | 00 | 4 | 00000 | 84 | PAX | 0,4 | |
| 16411 | 0500 | 00 | 4 | 00000 | 85 | CLA | 0,4 | GETS CWR OF ORIGIN |
| 16412 | 0734 | 00 | 2 | 00000 | 86 | PAX | 0,2 | CAR OF ORIGIN |
| 16413 | -0734 | 00 | 4 | 00000 | 87 | PDX | 0,4 | CDR OF ORIGIN |
| 16414 | 3 77776 | 2 | 16464 | 88 | TXH | LEND,2,-2 | | IF ATOM THEN NO TXL NEEDED |
| 16415 | -0634 | 00 | 2 | 16473 | 89 | SXD | NAME,2 | CAR OF ORG IS NAME |
| 16416 | 0500 | 00 | 4 | 00000 | 90 | CLA | 0,4 | |
| 16417 | 0734 | 00 | 2 | 00000 | 91 | PAX | 0,2 | CADR OF ORIGIN IS TYPE |
| 16420 | -0634 | 00 | 2 | 16474 | 92 | SXD | TYPE,2 | STORE TYPE |
| 16421 | -0320 | 00 | 0 | 00460 | 93 | ANA | \$DMASK | CDDR IS NOE IN AC |
| 16422 | 0074 | 00 | 4 | 11712 | 94 | TSX | CADARX,4 | CADAR PUTS PART OF NUM IN DECR OF AC |
| 16423 | 0622 | 00 | 0 | 16475 | 95 | STD | INDC | FOR TXL WORD |
| 16424 | 0534 | 00 | 4 | 16507 | 96 | LXA | START,4 | |
| 16425 | 0634 | 00 | 4 | 16475 | 97 | SXA | INDC,4 | COMPLETES TXL WORD |
| 16426 | 0500 | 00 | 0 | 16473 | 98 | CLA | NAME | |
| 16427 | 0074 | 00 | 4 | 17034 | 99 | TSX | PRO,4 | |
| 16430 | 0560 | 00 | 0 | 16474 | 100 | LDQ | TYPE | |
| 16431 | 0074 | 00 | 4 | 11771 | 101 | TSX | GET,4 | |
| 16432 | 0100 | 00 | 0 | 16444 | 102 | TZE | MKIND | IF THERE WAS NO OLD TXL |
| 16433 | -0734 | 00 | 2 | 00000 | 103 | PDX | 0,2 | SAVE POINTER TO TXL |
| 16434 | 0500 | 00 | 2 | 00000 | 104 | CLA | 0,2 | CWR OF OLD TXL |
| 16435 | 0737 | 00 | 4 | 00000 | 105 | PAC | 0,4 | POINTER TO OLD BIN PTROG. |
| 16436 | 0500 | 00 | 0 | 16507 | 106 | CLA | START | START OF NEW PROGRAM |
| 16437 | -0501 | 00 | 0 | 16476 | 107 | ORA | PATCH | MAKE TRA INSTRUCTION |
| 16440 | 0601 | 00 | 4 | 00000 | 108 | STO | 0,4 | CLOBBER OLD PROG. |
| 16441 | 0500 | 00 | 0 | 16475 | 109 | CLA | INDC | |
| 16442 | 0601 | 00 | 2 | 00000 | 110 | STO | 0,2 | ON TOP OF OLD TXL |
| 16443 | 0020 | 00 | 0 | 16464 | 111 | TRA | LEND | |
| 16444 | 0500 | 00 | 0 | 16475 | 112 | MKIND CLA | INDC | |
| 16445 | -0534 | 00 | 4 | 16474 | 113 | LXD | TYPE,4 | SYM SHOULD HAVE NO TXL ON POINTER |
| 16446 | -3 06705 | 4 | 16451 | 114 | TXL | IND2,4,\$SYM-1 | | |
| 16447 | 3 06706 | 4 | 16451 | 115 | TXH | IND2,4,\$SYM | | |
| 16450 | -0320 | 00 | 0 | 00457 | 116 | ANA | \$AMASK | |
| 16451 | 0074 | 00 | 4 | 03710 | 117 | IND2 TSX | \$CONSW,4 | |
| 16452 | 0131 | 00 | 0 | 00000 | 118 | XCA | | SAVE AC |
| 16453 | -0534 | 00 | 2 | 16473 | 119 | LXD | NAME,2 | NAME OF SUBR OR TYOE |
| 16454 | 0500 | 00 | 2 | 00000 | 120 | CLA | 0,2 | |
| 16455 | -0320 | 00 | 0 | 00460 | 121 | ANA | \$DMASK | CDR OF NAME NOW IN AC |
| 16456 | 0131 | 00 | 0 | 00000 | 122 | XCA | | |
| 16457 | 0074 | 00 | 4 | 03730 | 123 | TSX | \$CONS,4 | CONS (TXL,RESTOF PROPERTY LIST) |
| 16460 | 0131 | 00 | 0 | 00000 | 124 | XCA | | |
| 16461 | 0500 | 00 | 0 | 16474 | 125 | CLA | TYPE | |
| 16462 | 0074 | 00 | 4 | 03730 | 126 | TSX | \$CONS,4 | CONS,TYPE,RST OF ATM) |
| 16463 | 0622 | 00 | 2 | 00000 | 127 | STD | 0,2 | RPLACD OF PROPERTY 91ST |
| 16464 | 0500 | 00 | 0 | 16477 | 128 | LEND CLA | LIST | |
| 16465 | 0600 | 00 | 0 | 16477 | 129 | STZ | LIST | |
| 16466 | 0600 | 00 | 0 | 16501 | 130 | STZ | TAB | |
| 16467 | 0600 | 00 | 0 | 16504 | 131 | STZ | INST | |
| | | | | 132 * | | | DONT STORE ZERO IN QTLST | |
| 16470 | 0774 | 00 | 4 | 00000 | 133 | LAX AXT | ** ,4 | |
| 16471 | 0774 | 00 | 2 | 00000 | 134 | AXT | ** ,2 | |
| 16472 | 0020 | 00 | 4 | 00001 | 135 | TRA | 1,4 | |
| | | | | 136 * | | | ALL LAP REGISTERS FOLLOW,INCL. THOSE USED BY SUBROUTINES | |

| | | | | | | |
|-------|----------|------|-------|------|--|--|
| | | | | 22 * | FIRST PASS MAKES SYMBOL TABLE AND UPDATES ON INSTRUCTIONS | |
| | | | | 23 * | SECOND PASS IGNORES SYMBOLS ASSEMBLES AND UPDTS INSTRUCTIONS | |
| 16543 | 0634 | 00 4 | 16600 | 24 | PASS | SXA PAUX,4 |
| 16544 | -0534 | 00 4 | 16505 | 25 | LOPI | LXD REST,4 |
| 16545 | -3 00000 | 4 | 16600 | 26 | | TXL PAUX,4,0 IF NO MORE LISTING |
| 16546 | 0500 | 00 4 | 00000 | 27 | | CLA 0,4 |
| 16547 | 0622 | 00 0 | 16505 | 28 | | STD REST RESET REST OF LISTING |
| 16550 | 0734 | 00 4 | 00000 | 29 | | PAX 0,4 |
| 16551 | -0634 | 00 4 | 16504 | 30 | | SXD INST,4 |
| 16552 | -3 00000 | 4 | 16572 | 31 | | TXL AMBL,4,0 IF NIL |
| 16553 | 0500 | 00 4 | 00000 | 32 | | CLA 0,4 |
| 16554 | 0734 | 00 4 | 00000 | 33 | | PAX 0,4 |
| 16555 | -3 77776 | 4 | 16572 | 34 | | TXL AMBL,4,-2 IF NOT ATOM |
| 16556 | 0520 | 00 0 | 16510 | 35 | | ZET PASWD |
| 16557 | 0020 | 00 0 | 16544 | 36 | | TRA LOPI IF PASS 2 |
| 16560 | 0500 | 00 0 | 16506 | 37 | | CLA STAR OTHERWISE ADD TO TABLE |
| 16561 | 0560 | 00 0 | 00503 | 38 | | LDQ \$OCTD |
| 16562 | 0074 | 00 4 | 12636 | 39 | | TSX \$MKNO,4 MAKE A NUMBER |
| 16563 | 0131 | 00 0 | 00000 | 40 | | XCA |
| 16564 | 0500 | 00 0 | 16504 | 41 | | CLA INST |
| 16565 | 0074 | 00 4 | 03730 | 42 | | TSX \$CONS,4 (NAME.VALUE) |
| 16566 | 0560 | 00 0 | 16501 | 43 | | LDQ TAB |
| 16567 | 0074 | 00 4 | 03730 | 44 | | TSX \$CONS,4 |
| 16570 | 0601 | 00 0 | 16501 | 45 | | STO TAB |
| 16571 | 0020 | 00 0 | 16544 | 46 | | TRA LOPI |
| 16572 | 0520 | 00 0 | 16510 | 47 | AMBL | ZET PASWD LAND HERE IF INSTRUCTION NOT SYMBOL |
| 16573 | 0074 | 00 4 | 16602 | 48 | | TSX AINS,4 ON PASS 2 ONLY |
| 16574 | 0534 | 00 4 | 16506 | 49 | | LXA STAR,4 |
| 16575 | 1 00001 | 4 | 16576 | 50 | | FXI *+1,4,1 UPDATE * AFTER INSTRUCTION IS ASSEMBLE |
| 16576 | 0634 | 00 4 | 16506 | 51 | | SXA STAR,4 |
| 16577 | 0020 | 00 0 | 16544 | 52 | | TRA LOPI |
| 16600 | 0774 | 00 4 | 00000 | 53 | PAUX | AXT **,4 |
| 16601 | 0020 | 00 4 | 00001 | 54 | | TRA 1,4 |
| | | | | 55 * | | |
| | | | | 56 * | AINS IS THE INSTRUCTION ASSEMBLER. ARC IS IN INST. VAL IS IN AC | |
| 16602 | 0634 | 00 4 | 16620 | 57 | AINS | SXA AINX,4 |
| 16603 | 0074 | 00 4 | 16622 | 58 | | TSX AFELD,4 |
| 16604 | 0601 | 60 0 | 16506 | 59 | | STG* STAR |
| 16605 | 0074 | 00 4 | 16622 | 60 | | TSX AFELD,4 |
| 16606 | 0074 | 00 4 | 16535 | 61 | | TSX JUST,4 |
| 16607 | -0602 | 60 0 | 16506 | 62 | | ORS* STAR THIS IS ADDRESS FIELD |
| 16610 | 0074 | 00 4 | 16622 | 63 | | TSX AFELD,4 |
| 16611 | 0767 | 00 0 | 00017 | 64 | | ALS 15 |
| 16612 | 0140 | 00 0 | 16613 | 65 | | TOV *+1 |
| 16613 | -0602 | 60 0 | 16506 | 66 | | ORS* STAR TAG FIELD |
| 16614 | 0074 | 00 4 | 16622 | 67 | | TSX AFELD,4 |
| 16615 | 0074 | 00 4 | 16535 | 68 | | TSX JUST,4 |
| 16616 | 0767 | 00 0 | 00022 | 69 | | ALS 18 NO OVERFLOW AFTER JUST |
| 16617 | -0602 | 60 0 | 16506 | 70 | | ORS* STAR |
| 16620 | 0774 | 00 4 | 00000 | 71 | AINX | AXT **,4 |
| 16621 | 0020 | 00 4 | 00001 | 72 | | TRA 1,4 |
| | | | | 73 * | | |
| | | | | 74 * | AFELD IS THE FIELD EVALUATOR. A LIST OF FIELDS IS EXPECTED IN INST. | |
| | | | | 75 * | IT EVALUATES THE FIRST AND SETS INST TO THE REST. IF NO MORE FIELDS LE | |


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76 * ARE LEFT, IT GOES TOAINX, THE EXIT POINT OF AINS
77 * AFELD HAS CERTAIN PRIVATE CELLS,SEE AFTER LAP.) THE LIST AFELD IS A
78 * SLIGHTLY RECURSIVE DEVISE WHICH HAS SPECIAL CELLS AND CANNOT REENTER I
79 * ITSELF WITHOUT ERROR.
16622 0634 00 4 17032 80 AFELD SXA FELX,4
16623 0600 00 0 16514 81 STZ NOCUR
16624 -0534 00 4 16504 82 LXD INST,4
16625 -3 00000 4 16620 83 TXL AINX,4,0 IF NO MORE FIELDS
16626 0500 00 4 00000 84 CLA 0,4
16627 0622 00 0 16504 85 STD INST REST OF FIELDS
16630 0734 00 2 00000 86 PAX 0,2
16631 0500 00 2 00000 87 LEM CLA 0,2
16632 0734 00 4 00000 88 PAX 0,4
16633 -3 77776 4 16707 89 TXL NATM,4,-2 IF NOT ATOMIC FIELD
16634 3 00000 2 16637 90 TXH **3,2,0
16635 0500 00 0 02304 91 CLA $ORG NIL SYMBOL MEANS ORIGIN
16636 0020 00 0 17032 92 TRA FELX
16637 -0754 00 2 00000 93 PXD 0,2
16640 0560 00 0 16520 94 LDQ LSAC FN ARG FOR SASSOC
16641 -0600 00 0 03321 95 STQ $ARG3
16642 0560 00 0 16501 96 LDQ TAB
16643 0074 00 4 10042 97 TSX SASSOC,4 LOOK UP IN SYM TABLE
16644 0100 00 0 16652 98 TZE NTAB NOT IN TAB
16645 0074 00 4 15222 99 TSX $CDRP,4
16646 0074 00 4 14342 100 NEVAL TSX NUMVAL,4
16647 -0734 00 4 00000 101 PDX 0,4
16650 0500 00 4 00000 102 CLA 0,4
16651 0020 00 0 17032 103 TRA FELX
16652 -0754 00 2 00000 104 NTAB PXD 0,2
16653 0074 00 4 14445 105 TSX NUMBRP,4
16654 0100 00 0 16657 106 TZE **3 IF NOT A NUMBER
16655 -0754 00 2 00000 107 PXD 0,2 LISP NUMBER IN AC
16656 0020 00 0 16646 108 TRA NEVAL
16657 -0634 00 2 16517 109 SXD ERCC,2 SAVE ATOM
16660 0500 00 2 00000 110 LOP2 CLA 0,2 LOOP FOR SYM,SUBR,FSUBR
16661 -0734 00 2 00000 111 PDX 0,2
16662 0734 00 4 00000 112 PAX 0,4
16663 3 00000 2 16670 113 TXH PA,2,0 IF NOT NIL
16664 -0634 00 4 01562 114 SXD $ERROR,4
16665 0500 00 0 16517 115 CLA ERCC
16666 0074 00 4 01563 116 TSX $ERROR+1,4
16667 544360600354 117 BCI 1,*L 3* UNDEFINED SYMBOL
16670 -3 06705 4 16672 118 PA TXL **2,4,$SYM-1
16671 -3 06706 4 16703 119 TXL FINX,4,$SYM
16672 -3 06732 4 16674 120 TXL **2,4,$SUBR-1
16673 -3 06733 4 16676 121 TXL FIND,4,$SUBR
16674 -3 10102 4 16660 122 TXL LOP2,4,$FSUBR-1
16675 3 10103 4 16660 123 TXH LOP2,4,$FSUBR
16676 0500 00 2 00000 124 FIND CLA 0,2
16677 0734 00 4 00000 125 PAX 0,4
16700 0500 00 4 00000 126 CLA 0,4
16701 -0320 00 0 00457 127 ANA $AMASK
16702 0020 00 0 17032 128 TRA FELX
129 *

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| | | | | | | | | | |
|-------|-------|-------|---|-------|-----|-------|-----|-------------------|---|
| 16703 | 0500 | 00 | 2 | 00000 | 130 | FINX | CLA | 0,2 | |
| 16704 | 0734 | 00 | 4 | 00000 | 131 | | PAX | 0,4 | |
| 16705 | 0500 | 00 | 4 | 00000 | 132 | | CLA | 0,4 | |
| 16706 | 0020 | 00 | 0 | 17032 | 133 | | TRA | FELX | |
| | | | | | 134 | * | | | |
| 16707 | -3 | 06153 | 4 | 16715 | 135 | NATM | TXL | NTE,4,\$H25-1 | |
| 16710 | 3 | 06154 | 4 | 16715 | 136 | | TXH | NTE,4,\$H25 | FOR (E EXP) |
| 16711 | -0754 | 00 | 2 | 00000 | 137 | | PXD | 0,2 | ENTIRE FIELD |
| 16712 | 0074 | 00 | 4 | 11730 | 138 | | TSX | CADRXX,4 | |
| 16713 | 0771 | 00 | 0 | 00022 | 139 | | ARS | 18 | |
| 16714 | 0020 | 00 | 0 | 17032 | 140 | | TRA | FELX | |
| 16715 | -3 | 07247 | 4 | 16754 | 141 | NTE | TXL | NQT,4,\$QUOTE-1 | LAND HERE FOR NOT (E... |
| 16716 | 3 | 07250 | 4 | 16754 | 142 | | TXH | NQT,4,\$QUOTE | ABOVE AND THIS FOR (QUOTE... |
| 16717 | -0734 | 00 | 2 | 00000 | 143 | | PDX | 0,2 | AC HAS CWR OF FIELD |
| 16720 | 0500 | 00 | 2 | 00000 | 144 | | CLA | 0,2 | |
| 16721 | 0734 | 00 | 2 | 00000 | 145 | | PAX | 0,2 | POINTER TO EQ QUANTITY |
| 16722 | -0534 | 00 | 4 | 16500 | 146 | | LXD | QTLST,4 | |
| 16723 | -3 | 00000 | 4 | 16737 | 147 | | TXL | NON,4,0 | TEST FOR NO LIST |
| 16724 | 0500 | 00 | 4 | 00000 | 148 | FLOOP | CLA | 0,4 | AN EQUAL TYPE SEARCH |
| 16725 | 0601 | 00 | 0 | 16512 | 149 | | STO | HOLD | TEMPORARY SAVING OF REST |
| 16726 | 0734 | 00 | 4 | 00000 | 150 | | PAX | 0,4 | |
| 16727 | 0500 | 00 | 4 | 00000 | 151 | | CLA | 0,4 | |
| 16730 | -0320 | 00 | 0 | 00460 | 152 | | ANA | \$DMASK | LITERAL QUANTITY FOR EQUAL COMPARISON |
| 16731 | 0131 | 00 | 0 | 00000 | 153 | | XCA | | |
| 16732 | -0754 | 00 | 2 | 00000 | 154 | | PXD | 0,2 | THE NEW ITEM |
| 16733 | 0074 | 00 | 4 | 04461 | 155 | | TSX | \$EQUAL,4 | TEST FOR EQUALITY |
| 16734 | -0100 | 00 | 0 | 16752 | 156 | | TNZ | ONQT | IF ALREADY ON LIST |
| 16735 | -0534 | 00 | 4 | 16512 | 157 | | LXD | HOLD,4 | |
| 16736 | 3 | 00000 | 4 | 16724 | 158 | | TXH | FLOOP,4,0 | IF NOT HEAD OF QTLIST |
| 16737 | -0754 | 00 | 2 | 00000 | 159 | NON | PXD | 0,2 | NEED TO MAKE ENTRY |
| 16740 | 0131 | 00 | 0 | 00000 | 160 | | XCA | | |
| 16741 | 0754 | 00 | 0 | 00000 | 161 | | PXA | 0,0 | |
| 16742 | 0074 | 00 | 4 | 03730 | 162 | | TSX | \$CONS,4 | CONS(NIL EXP) |
| 16743 | 0601 | 00 | 0 | 16512 | 163 | | STO | HOLD | NEEDS NO PROTECTION AS SEEN BY WHAT FO |
| | | | | | 164 | * | | FOLLOWS | |
| 16744 | 0560 | 00 | 0 | 16500 | 165 | | LDQ | QTLST | |
| 16745 | 0074 | 00 | 4 | 03730 | 166 | | TSX | \$CONS,4 | CONS((NIL.EXP, ... |
| 16746 | 0601 | 00 | 0 | 16500 | 167 | | STO | QTLST | |
| 16747 | -0535 | 00 | 4 | 16512 | 168 | | LOC | HOLD,4 | WANT TRUE POINTER |
| 16750 | 0754 | 00 | 4 | 00000 | 169 | TRP | PXA | 0,4 | |
| 16751 | 0020 | 00 | 0 | 17032 | 170 | | TRA | FELX | |
| | | | | | 171 | * | | THIS IS | POINTER TO A NIL.EXP WORD IN FREE STORAGE |
| 16752 | 0535 | 00 | 4 | 16512 | 172 | ONQT | LAC | HOLD,4 | |
| 16753 | 0020 | 00 | 0 | 16750 | 173 | | TRA | TRP | |
| 16754 | -3 | 07107 | 4 | 17004 | 174 | NQT | TXL | FDLST,4,SPECIAL-1 | |
| 16755 | 3 | 07110 | 4 | 17004 | 175 | | TXH | FDLST,4,SPECIAL | (SPECIAL NAME) |
| 16756 | 0560 | 00 | 0 | 00507 | 176 | | LDQ | QSPECD | SPECIAL IN MQ |
| 16757 | -0320 | 00 | 0 | 00460 | 177 | | ANA | \$DMASK | (NAME) IN AC |
| 16760 | 0074 | 00 | 4 | 15212 | 178 | | TSX | \$CARP,4 | |
| 16761 | 0074 | 00 | 4 | 11771 | 179 | | TSX | GET,4 | |
| 16762 | -0100 | 00 | 0 | 17001 | 180 | | TNZ | SPP | JUST NEED TO ASSURE PROTECTION |
| 16763 | 0560 | 00 | 0 | 00370 | 181 | | LDQ | \$ZERO | |
| 16764 | 0074 | 00 | 4 | 03730 | 182 | | TSX | \$CONS,4 | AC HAS ZERO IF YOU ARE HERE |
| 16765 | 0601 | 00 | 0 | 16502 | 183 | | STO | LCOM | PROTECTED TEMP CELL |

| | | | | | | | |
|-------|--------------|------------|-----|-------|-----|-------------|--------------------------------------|
| 16766 | -0754 | 00 2 00000 | 184 | | PXD | 0,2 | (SPECIAL NAME) |
| 16767 | 0074 | 00 4 11705 | 185 | | TSX | CAADR,4 | CDR(NAME) |
| 16770 | -0734 | 00 2 00000 | 186 | | PDX | 0,2 | SAVE ABOVE |
| 16771 | 0131 | 00 0 00000 | 187 | | XCA | | |
| 16772 | 0500 | 00 0 16502 | 188 | | CLA | LCOM | |
| 16773 | 0074 | 00 4 03730 | 189 | | TSX | \$CONS,4 | |
| 16774 | 0131 | 00 0 00000 | 190 | | XCA | | |
| 16775 | 0500 | 00 0 00507 | 191 | | CLA | QSPECD | |
| 16776 | 0074 | 00 4 03730 | 192 | | TSX | \$CONS,4 | |
| 16777 | 0622 | 00 2 00000 | 193 | | STD | 0,2 | RPLACD OF NAME |
| 17000 | 0074 | 00 4 11730 | 194 | | TSX | CADRXX,4 | POINTER TO (NIL) |
| 17001 | 0074 | 00 4 17034 | 195 | SPP | TSX | PRO,4 | |
| 17002 | -0737 | 00 4 00000 | 196 | | PDC | 0,4 | |
| 17003 | 0020 | 00 0 16750 | 197 | | TRA | TRP | |
| 17004 | -0520 | 00 0 16514 | 198 | FDLST | NZT | NOCUR | NO RE-ENTRY TO AFELD LIST IS ALLOWED |
| 17005 | 0020 | 00 0 17011 | 199 | | TRA | **4 | |
| 17006 | -0634 | 00 4 01562 | 200 | | SXD | \$ERROR,4 | |
| 17007 | 0074 | 00 4 01563 | 201 | | TSX | \$ERROR+1,4 | |
| 17010 | 544360600454 | | 202 | | BCI | 1,*L 4* | NO RECURSIVE FIELDS ALLOWED |
| 17011 | -0625 | 00 0 16514 | 203 | | STL | NOCUR | PREVENT RECURSION |
| 17012 | 0600 | 00 0 16513 | 204 | | STZ | SUM | RESET SUM WORD |
| 17013 | 0534 | 00 4 17032 | 205 | | LXA | FELX,4 | |
| 17014 | 0634 | 00 4 16515 | 206 | | SXA | REM,4 | SAVES THE RETURN FOR AFELD |
| 17015 | 0500 | 00 2 00000 | 207 | LOPL | CLA | 0,2 | |
| 17016 | 0622 | 00 0 16515 | 208 | | STD | REM | |
| 17017 | 0734 | 00 2 00000 | 209 | | PAX | 0,2 | |
| 17020 | -0774 | 00 4 17022 | 210 | | AXC | **2,4 | |
| 17021 | 0634 | 00 4 17032 | 211 | | SXA | FELX,4 | REENTER THE EVALUATOR |
| 17022 | 0020 | 00 0 16631 | 212 | | TRA | LEM | |
| 17023 | 0400 | 00 0 16513 | 213 | | ADD | SUM | |
| 17024 | 0601 | 00 0 16513 | 214 | | STO | SUM | |
| 17025 | -0534 | 00 2 16515 | 215 | | LXD | REM,2 | REST OF FIELDS |
| 17026 | 3 00000 | 2 17015 | 216 | | TXH | LOPL,2,0 | IF THERE ARE MORE FIELDS (SUBFLDS) |
| 17027 | 0600 | 00 0 16514 | 217 | | STZ | NOCUR | ALLOWS ENTRY TO LIST AFELD AGAIN |
| 17030 | 0534 | 00 4 16515 | 218 | | LXA | REM,4 | |
| 17031 | 0020 | 00 4 00001 | 219 | | TRA | 1,4 | |
| 17032 | 0774 | 00 4 00000 | 220 | FELX | AXT | ** ,4 | |
| 17033 | 0020 | 00 4 00001 | 221 | | TRA | 1,4 | |
| | | | 222 | * | | | |
| 17034 | 0634 | 00 4 17050 | 223 | PRO | SXA | PX,4 | |
| 17035 | 0601 | 00 0 17060 | 224 | | STO | PTR | SAVE ARGUMENT |
| 17036 | 0622 | 00 0 17047 | 225 | | STD | PH | SET UP TXH |
| 17037 | 0402 | 00 0 00442 | 226 | | SUB | \$QD1 | AND |
| 17040 | 0622 | 00 0 17046 | 227 | | STD | PL | TXL SIEVE |
| 17041 | 0500 | 00 0 16503 | 228 | | CLA | PROS | GET PROTECTED LIST |
| 17042 | -0734 | 00 4 00000 | 229 | PNL | PDX | 0,4 | |
| 17043 | -3 00000 | 4 17053 | 230 | | TXL | PMK,4,0 | END OF LIST, SO MAKE NEW ENTRY |
| 17044 | 0500 | 00 4 00000 | 231 | | CLA | 0,4 | |
| 17045 | 0734 | 00 4 00000 | 232 | | PAX | 0,4 | |
| 17046 | -3 00000 | 4 17042 | 233 | PL | TXL | PNL,4,** | |
| 17047 | 3 00000 | 4 17042 | 234 | PH | TXH | PNL,4,** | FALL THROUGH IF FOUND |
| 17050 | 0774 | 00 4 00000 | 235 | PX | AXT | ** ,4 | |
| 17051 | 0500 | 00 0 17060 | 236 | | CLA | PTR | RESTORE AC |
| 17052 | 0020 | 00 4 00001 | 237 | | TRA | 1,4 | |

| | | | | | | | | | |
|-------|------|----|---|-------|-----|-----|-----|----------|-----------------|
| 17053 | 0560 | 00 | 0 | 16503 | 238 | * | | | |
| 17054 | 0500 | 00 | 0 | 17060 | 239 | PMK | LDQ | PROS | MAKE A NEW ITEM |
| 17055 | 0074 | 00 | 4 | 03730 | 240 | | CLA | PTR | |
| 17056 | 0601 | 00 | 0 | 16503 | 241 | | TSX | \$CONS,4 | |
| 17057 | 0020 | 00 | 0 | 17050 | 242 | | STO | PROS | STORE NEW LIST |
| | | | | | 243 | | TRA | PX | AND RETURN |

| | | | | | | | | | |
|-------|---|-------|---|-------|-----|-----|--|--|--|
| 17060 | 0 | 00000 | 0 | 00000 | 244 | * | | | |
| | | | | | 245 | PTR | | | |

246 *

247 *

DECK

PERMANENT COMPILER SUBROUTINES

| | | |
|----|---|---|
| 1 | * | LINK HANDLES ALL SUBROUTINE CALLS FROM COMPILED FUNCTION |
| 2 | * | IT REPLACES STR WITH TSX IF SUBROUTINE BEING CALLED |
| 3 | * | IS A SUBR OR FSUBR |
| 4 | * | IT GOES TO APPLY IF THE CALL IS TO EXPR OR FEXPR WITH |
| 5 | * | \$ALIST AS THIRD ARGUMENT |
| 6 | * | LINK EXPECTS A TAG OF 7 IN THE STR INST, NAME OF FUNCTION |
| 7 | * | IN THE ADDRESS, AND THE NUMBER OF ARGUMENTS IN THE DECREM |
| 8 | * | ENT LINK WILL GO TO THE ROUTINE WHICH |
| 9 | * | HANDLES ERROR TRAPS IF THE CALLING INST DOESNT HAVE A 7 |
| 10 | * | TAG |
| 11 | * | |

| | | | | | | | | | |
|-------|-------|-------|---|-------|----|-------|-----|------------------|------------------------------|
| 17061 | 0601 | 00 | 0 | 03417 | 12 | LINK, | STO | LNKA | |
| 17062 | -0600 | 00 | 0 | 03420 | 13 | | STQ | LNKB | SAVE AC AND MQ |
| 17063 | 0634 | 00 | 4 | 17243 | 14 | | SXA | LER,4 | SAVE IR4 |
| 17064 | 0535 | 00 | 4 | 00000 | 15 | | LAC | 0,4 | COMP POINTER TO STR+1 |
| 17065 | 1 | 00001 | 4 | 17066 | 16 | | TXI | *+1,4,1 | MAKE ORDINARY TSX POINTER |
| 17066 | 0500 | 00 | 4 | 00000 | 17 | | CLA | 0,4 | GET STR INST 7 |
| 17067 | 0601 | 00 | 0 | 17253 | 18 | | STO | LNKC | SAVE IT |
| 17070 | -0320 | 00 | 0 | 00470 | 19 | | ANA | TAGMSK | CHECK FOR 7 TAG |
| 17071 | 0322 | 00 | 0 | 00470 | 20 | | ERA | TAGMSK | |
| 17072 | -0100 | 00 | 0 | 17243 | 21 | | TNZ | LER | IF NOT 7 TAG |
| 17073 | -0634 | 00 | 4 | 17252 | 22 | | SXD | LNKC,4 | SAVE POINTER |
| 17074 | 0500 | 00 | 0 | 00177 | 23 | | CLA | B\$ZERC | RESTORE NIL |
| 17075 | 0601 | 00 | 0 | 00000 | 24 | | STO | 0 | |
| 17076 | 0600 | 00 | 0 | 17246 | 25 | | STZ | LNTRS | RESET TRACE SWITCH |
| 17077 | 0534 | 00 | 4 | 17253 | 26 | | LXA | LNKD,4 | FUNCTION ATOM |
| 17100 | 0500 | 00 | 4 | 00000 | 27 | | CLA | 0,4 | START PROPERTY LIST SEARCH |
| 17101 | -0734 | 00 | 4 | 00000 | 28 | LNLP | PDX | 0,4 | |
| 17102 | -3 | 00000 | 4 | 17134 | 29 | | TXL | LNNF,4,0 | NO DEFINITION SO FN VARIABLE |
| 17103 | 0500 | 00 | 4 | 00000 | 30 | | CLA | 0,4 | |
| 17104 | 0734 | 00 | 4 | 00000 | 31 | | PAX | 0,4 | |
| 17105 | -3 | 06732 | 4 | 17107 | 32 | | TXL | *+2,4,\$SUBR-1 | |
| 17106 | -3 | 06733 | 4 | 17171 | 33 | | TXL | LNSBR,4,\$SUBR | |
| 17107 | -3 | 10102 | 4 | 17111 | 34 | | TXL | *+2,4,\$FSUBR-1 | |
| 17110 | -3 | 10103 | 4 | 17171 | 35 | | TXL | LNSBR,4,\$FSUBR | |
| 17111 | -3 | 06646 | 4 | 17113 | 36 | | TXL | *+2,4,\$TRACE-1 | |
| 17112 | -3 | 06647 | 4 | 17136 | 37 | | TXL | LNTR,4,\$TRACE | |
| 17113 | -3 | 10156 | 4 | 17115 | 38 | | TXL | *+2,4,\$EXPR-1 | |
| 17114 | -3 | 10157 | 4 | 17117 | 39 | | TXL | LNEXP,4,\$EXPR | |
| 17115 | -3 | 10141 | 4 | 17101 | 40 | | TXL | LNLP,4,\$FEXPR-1 | |
| 17116 | 3 | 10142 | 4 | 17101 | 41 | | TXH | LNLP,4,\$FEXPR | |
| 17117 | -0734 | 00 | 4 | 00000 | 42 | LNEXP | PDX | 0,4 | EXPR-FEXPR BRANCH |
| 17120 | 0500 | 00 | 4 | 00000 | 43 | | CLA | 0,4 | |

1706,
1635,
510

| | | | | | | | | |
|-------|-------|-------|---|-------|----|-------|----------------|-----------------------------------|
| 17121 | 0734 | 00 | 4 | 00000 | 44 | PAX | 0,4 | LAMBDA EXPRESSION |
| 17122 | -0634 | 00 | 4 | 17247 | 45 | LNGN | LNFN,4 | SAVE IT |
| 17123 | 0500 | 00 | 0 | 03316 | 46 | CLA | \$ALIST | |
| 17124 | 0601 | 00 | 0 | 03321 | 47 | STO | \$ARG3 | PROPER ALIST |
| 17125 | 0520 | 00 | 0 | 17246 | 48 | ZET | LNTRS | TRACE TEST |
| 17126 | 0020 | 00 | 0 | 17153 | 49 | TRA | LNTEX | TRACE EXPR OF FEXPR |
| 17127 | 0074 | 00 | 4 | 17206 | 50 | TSX | LNARS,4 | LIST ARGUMENTS |
| 17130 | 0131 | 00 | 0 | 00000 | 51 | XCA | | |
| 17131 | 0500 | 00 | 0 | 17247 | 52 | CLA | LNFN | LAMBDA EXPRESSION |
| 17132 | -0534 | 00 | 4 | 17252 | 53 | LXD | LNKC,4 | RETURN IR |
| 17133 | 0020 | 00 | 0 | 14663 | 54 | TRA | \$APPLY | DO |
| | | | | | 55 | * | | |
| 17134 | 0534 | 00 | 4 | 17253 | 56 | LNNF | LXA LNKD,4 | FUNCTION DEFN IS ON ALIST |
| 17135 | 0020 | 00 | 0 | 17122 | 57 | TRA | LNGN | APPLY WILL TAKE CARE OF THIS |
| | | | | | 58 | * | | |
| 17136 | -0625 | 00 | 0 | 17246 | 59 | LNTR | STL LNTRS | SET TRACE SWITCH |
| 17137 | 0601 | 00 | 0 | 17250 | 60 | STO | LNAC | SAVE AC |
| 17140 | 0074 | 00 | 4 | 17206 | 61 | TSX | LNARS,4 | LIST ARGUMENTS |
| 17141 | 0601 | 00 | 0 | 17251 | 62 | STO | LNRGL | AND SAVE THEM |
| 17142 | 0131 | 00 | 0 | 00000 | 63 | XCA | | TO PRINTING POSITION |
| 17143 | 0534 | 00 | 4 | 17253 | 64 | LXA | LNKD,4 | ATOM NAME |
| 17144 | 0634 | 00 | 4 | 17252 | 65 | SXA | LNKC,4 | SAVE WITH INDEX REGISTER |
| 17145 | -0754 | 00 | 4 | 00000 | 66 | PXD | 0,4 | ALSO FOR TRACE MESSAGE |
| 17146 | 0074 | 00 | 4 | 02312 | 67 | TSX | \$SAVE,4 | SAVE NAME AND RETRN |
| 17147 | -3 | 17254 | 0 | 02401 | 68 | TXL | \$END1,,LNKC+2 | |
| 17150 | 0074 | 00 | 4 | 16050 | 69 | TSX | A\$ARGOF,4 | PRINT ARGUMENTS |
| 17151 | 0500 | 00 | 0 | 17250 | 70 | CLA | LNAC | RESTORE AC |
| 17152 | 0020 | 00 | 0 | 17101 | 71 | TRA | LNLP | AND CONTINUE PROPERTY LIST SEARCH |
| | | | | | 72 | * | | |
| 17153 | 0500 | 00 | 0 | 17247 | 73 | LNTEX | CLA LNFN | TRACE EXPR OR FEXPR |
| 17154 | 0560 | 00 | 0 | 17251 | 74 | LDQ | LNRGL | SET UP ARGUMENTS OF APPLY |
| 17155 | 0074 | 00 | 4 | 14663 | 75 | TSX | \$APPLY,4 | AND DO THE FUNCTION |
| 17156 | 0074 | 00 | 4 | 02326 | 76 | LNTEN | TSX UNSAVE,4 | GET BACK IR4 AND FN NAME |
| 17157 | 0131 | 00 | 0 | 00000 | 77 | XCA | | |
| 17160 | 0534 | 00 | 4 | 17252 | 78 | LXA | LNKC,4 | ATOM NAME TO AC |
| 17161 | -0754 | 00 | 4 | 00000 | 79 | PXD | 0,4 | |
| 17162 | -0534 | 00 | 4 | 17252 | 80 | LXD | LNKC,4 | RESTORE INDEX |
| 17163 | 0020 | 00 | 0 | 16104 | 81 | TRA | A\$VALOF | PRINT VALUE MESSAGE |
| | | | | | 82 | * | | |
| 17164 | 0621 | 00 | 0 | 17167 | 83 | LNTSB | STA LNDIS | TRACE SUBR OF FSUBR |
| 17165 | 0500 | 00 | 0 | 03417 | 84 | CLA | LNKA | RESTORE AC |
| 17166 | 0560 | 00 | 0 | 03420 | 85 | LDQ | LNKB | AND MQ |
| 17167 | 0074 | 00 | 4 | 00000 | 86 | LNDIS | TSX **,4 | EXECUTER SUBROUTINE |
| 17170 | 0020 | 00 | 0 | 17156 | 87 | TRA | LNTEN | AND REPORT VALUE |
| | | | | | 88 | * | | |
| 17171 | -0734 | 00 | 4 | 00000 | 89 | LNSBR | PDX 0,4 | SUBR OR FSUBR BRANCH |
| 17172 | 0500 | 00 | 4 | 00000 | 90 | CLA | 0,4 | |
| 17173 | 0734 | 00 | 4 | 00000 | 91 | PAX | 0,4 | |
| 17174 | 0500 | 00 | 4 | 00000 | 92 | CLA | 0,4 | TXL SUBR,,N WORD |
| 17175 | 0520 | 00 | 0 | 17246 | 93 | ZET | LNTRS | TEST FOR TRACING |
| 17176 | 0020 | 00 | 0 | 17164 | 94 | TRA | LNTSB | |
| 17177 | 0621 | 00 | 0 | 17254 | 95 | STA | LNTSX | MAKE A TSX |
| 17200 | 0500 | 00 | 0 | 17254 | 96 | CLA | LNTSX | GET IT |
| 17201 | -0534 | 00 | 4 | 17252 | 97 | LXD | LNKC,4 | RETURN IR |

| | | | | | | | | |
|-------|-------|-------|---|-------|-------|-----------|---|------------------------------------|
| 17202 | 0601 | 00 | 4 | 00000 | 98 | STO | 0,4 | CHANGE THE STR TO TSX |
| 17203 | 0500 | 00 | 0 | 03417 | 99 | CLA | LNKA | RESTORE AC |
| 17204 | 0560 | 00 | 0 | 03420 | 100 | LDQ | LNKB | |
| 17205 | 0020 | 00 | 4 | 00000 | 101 | TRA | 0,4 | GO TO NEW TSX |
| | | | | | 102 * | | | |
| 17206 | 0634 | 00 | 4 | 17237 | 103 | LNARS SXA | LNLX,4 | SUBROUTINE WHICH LISTS ARGS |
| 17207 | -0534 | 00 | 4 | 17253 | 104 | LXD | LNKD,4 | NUMBER OF ARGS |
| 17210 | -3 | 00000 | 4 | 17241 | 105 | TXL | LNN,4,0 | LST WONT WORK ON ZERO THINGS |
| 17211 | -0634 | 00 | 4 | 17213 | 106 | SXD | LNKP,4 | PUT IN LST ARG POSITION |
| 17212 | 0074 | 00 | 4 | 17255 | 107 | TSX | LST,4 | LIST THEM |
| 17213 | 3 | 00000 | 0 | 03417 | 108 | LNKP TXH | LNKA,0,** | |
| 17214 | 0734 | 00 | 0 | 03420 | 109 | PAX | LNKB,0 | |
| 17215 | 0734 | 00 | 0 | 03321 | 110 | PAX | \$ARG3,0 | |
| 17216 | 0734 | 00 | 0 | 03322 | 111 | PAX | \$ARG4,0 | |
| 17217 | 0734 | 00 | 0 | 03323 | 112 | PAX | \$ARG5,0 | |
| 17220 | 0734 | 00 | 0 | 03324 | 113 | PAX | \$ARG6,0 | |
| 17221 | 0734 | 00 | 0 | 03325 | 114 | PAX | \$ARG7,0 | |
| 17222 | 0734 | 00 | 0 | 03326 | 115 | PAX | \$ARG8,0 | |
| 17223 | 0734 | 00 | 0 | 03327 | 116 | PAX | \$ARG9,0 | |
| 17224 | 0734 | 00 | 0 | 03330 | 117 | PAX | \$ARG10,0 | |
| 17225 | 0734 | 00 | 0 | 03331 | 118 | PAX | \$ARG11,0 | |
| 17226 | 0734 | 00 | 0 | 03332 | 119 | PAX | \$ARG12,0 | |
| 17227 | 0734 | 00 | 0 | 03333 | 120 | PAX | \$ARG13,0 | |
| 17230 | 0734 | 00 | 0 | 03334 | 121 | PAX | \$ARG14,0 | |
| 17231 | 0734 | 00 | 0 | 03335 | 122 | PAX | \$ARG15,0 | |
| 17232 | 0734 | 00 | 0 | 03336 | 123 | PAX | \$ARG16,0 | |
| 17233 | 0734 | 00 | 0 | 03337 | 124 | PAX | \$ARG17,0 | |
| 17234 | 0734 | 00 | 0 | 03340 | 125 | PAX | \$ARG18,0 | |
| 17235 | 0734 | 00 | 0 | 03341 | 126 | PAX | \$ARG19,0 | |
| 17236 | 0734 | 00 | 0 | 03342 | 127 | PAX | \$ARG20,0 | |
| 17237 | 0774 | 00 | 4 | 00000 | 128 | LNLX AXT | **,4 | RESTORE INTEX |
| 17240 | 0020 | 00 | 4 | 00001 | 129 | TRA | 1,4 | |
| 17241 | -0754 | 00 | 0 | 00000 | 130 | LNN PXD | 0,0 | NIL |
| 17242 | 0020 | 00 | 0 | 17237 | 131 | TRA | LNLX | |
| | | | | | 132 * | | | |
| 17243 | 0774 | 00 | 4 | 00000 | 133 | LER AXT | **,4 | RESTORE IR4 |
| 17244 | 0500 | 00 | 0 | 03417 | 134 | CLA | LNKA | |
| 17245 | 0020 | 00 | 0 | 01766 | 135 | TRA | STRPNT | GO TO EREOR HANDLING ROUTINEPP |
| | | | | | 136 * | | LINK STORAGE | |
| | | | | | 137 * | | IS HERE, EXCEPT FOR LINKA NAD LINKB WHICH ARE IN GARB | |
| 17246 | 0 | 00000 | 0 | 00000 | 138 | LNTRS | | TRACE SWITCH |
| 17247 | 0 | 00000 | 0 | 00000 | 139 | LNFN | | FUNCTION DEFINITION |
| 17250 | 0 | 00000 | 0 | 00000 | 140 | LNAC | | TEMPORARY AC STORAGE |
| 17251 | 0 | 00000 | 0 | 00000 | 141 | LNRL | | ARGS LISTED DURNING TRACE INTERLUD |
| 17252 | 0 | 00000 | 0 | 00000 | 142 | LNKC | | IX4 POINTER TO STR WORD |
| 17253 | 0 | 00000 | 0 | 00000 | 143 | LNKD | | CONTAINS STR NAME,7,NUM |
| 17254 | 0074 | 00 | 4 | 00000 | 144 | LNFSX TSX | **,4 | INSTRUCTION TO BE PLANTED |
| | | | | | 145 * | | LST IS THE SUBROUTINE WHICH DOES LISTING IN COMPILED | |
| | | | | | 146 * | | FUNCTIONS | N ELEMENTS WHERE N IS IN AC, ARE |
| | | | | | 147 * | | LISTED | ARGUMENTS ARE GOTTEN BY CLA* |
| | | | | | 148 * | | FROM THE N REGISTERS SUCCEEDING THE CALL | |
| | | | | | 149 * | | | |
| 17255 | 0634 | 00 | 2 | 17316 | 150 | LST SXA | LX2,2 | SAVE IR2 |
| 17256 | 0500 | 00 | 4 | 00001 | 151 | CLA | 1,4 | TO GET N FROM FIRSTDECREMENT |

| | | | | | | | | |
|-------|-------|-------|---|-------|-----|-------|---|---------------------------------------|
| 17257 | 0622 | 00 | 0 | 17261 | 152 | STD | LSN | TO DECREMENT IR4 FOR POINT EXIT |
| 17260 | 0622 | 00 | 0 | 17275 | 153 | STD | LSC | TO DECREMENT THE CONS COUNTER |
| 17261 | -2 | 00000 | 4 | 17262 | 154 | LSN | TNX | **1,4,** |
| 17262 | -0734 | 00 | 2 | 00000 | 155 | PDX | 0,2 | N TO IR2 |
| 17263 | -0754 | 00 | 4 | 00000 | 156 | PXD | 0,4 | START TO COMPLEMENT IR4 |
| 17264 | -0737 | 00 | 4 | 00000 | 157 | PDC | 0,4 | QH FOR A 7094 |
| 17265 | 1 | 00001 | 4 | 17266 | 158 | TXI | **1,4,1 | ONE MORE FOR EXIT |
| 17266 | 0634 | 00 | 4 | 17302 | 159 | SXA | LSP,4 | SET UP GET INST |
| 17267 | 0634 | 00 | 4 | 17320 | 160 | SXA | LSE,4 | AND RETURN |
| 17270 | -0534 | 00 | 4 | 03751 | 161 | LXD | \$FREE,4 | FIRST FREE WORD |
| 17271 | 3 | 00000 | 4 | 17273 | 162 | TXH | **2,4,0 | TEST FOR OUT OF FREE |
| 17272 | 0074 | 00 | 4 | 04037 | 163 | TSX | \$FROUT,4 | WILL RETURN -2,4 |
| 17273 | -0634 | 00 | 4 | 17327 | 164 | SXD | LAN,4 | THE ANSWER TO THIS SAUSAGE CONS |
| 17274 | 0534 | 00 | 4 | 03742 | 165 | LXA | \$CNTR1,4 | GET CONS COUNTER |
| 17275 | 2 | 00000 | 4 | 17300 | 166 | LSC | TIX | **3,4,** |
| 17276 | 0074 | 00 | 4 | 03752 | 167 | TSX | ARREST,4 | REDUCE IT BY N |
| 17277 | 0774 | 00 | 4 | 77777 | 168 | AXT | -1,4 | OUT OF CONSES |
| 17300 | 0634 | 00 | 4 | 03742 | 169 | SXA | \$CNTR1,4 | RESET COUNTER (UP TO N CONSES MAY BE |
| 17301 | -0534 | 00 | 4 | 17327 | 170 | LXD | LAN,4 | LOST EVERY 7777 OCTAL CONSES) |
| 17302 | 0500 | 60 | 2 | 00000 | 171 | LSP | CLA* | RESTORE IR4 TO FREE WORD POINTER |
| 17303 | 0771 | 00 | 0 | 00022 | 172 | ARS | 18 | GET ARGUMENT |
| 17304 | 0621 | 00 | 4 | 00000 | 173 | STA | 0,4 | TO ADDRESS |
| 17305 | 0500 | 00 | 4 | 00000 | 174 | CLA | 0,4 | PUT IT IN THE FREE WORD ADDR |
| 17306 | 0634 | 00 | 4 | 17314 | 175 | SXA | LFX,4 | NEXT FREE WORD |
| 17307 | -0734 | 00 | 4 | 00000 | 176 | LSR | PDX | SAVE PRECEDING WORD TO CUT OFF |
| 17310 | -3 | 00000 | 4 | 17321 | 177 | TXL | LFIX,4,0 | NEXT FREE WORD TO IR |
| 17311 | 2 | 00001 | 2 | 17302 | 178 | TIX | LSP,2,1 | OUT OF FREE STORAGE7 |
| 17312 | 0622 | 00 | 0 | 03751 | 179 | STD | \$FREE | COUNT DOWN |
| 17313 | -0754 | 00 | 0 | 00000 | 180 | PXD | 0,0 | RESTORE FREE |
| 17314 | 0774 | 00 | 4 | 00000 | 181 | LFX | AXT | CLEAR |
| 17315 | 0622 | 00 | 4 | 00000 | 182 | STD | 0,4 | LAST WORD IN LIST |
| 17316 | 0774 | 00 | 2 | 00000 | 183 | LX2 | AXT | GETS NIL IN ITS DECREMENT |
| 17317 | 0500 | 00 | 0 | 17327 | 184 | CLA | LAN | RESTORE IR2 |
| 17320 | 0020 | 00 | 0 | 00000 | 185 | LSE | TRA | GET THE ANSWER |
| 17321 | 0500 | 00 | 0 | 17327 | 186 | LFIX | CLA | RETURN |
| 17322 | 0074 | 00 | 4 | 02522 | 187 | TSX | RECLAM,4 | TO GET IT PROTECTED DURING MOP UP |
| 17323 | 0500 | 00 | 0 | 03751 | 188 | CLA | \$FREE | FIX UP THE SAUSAGE |
| 17324 | 0522 | 00 | 0 | 17314 | 189 | XEC | LFX | GET LAST WORD TO IR |
| 17325 | 0622 | 00 | 4 | 00000 | 190 | STD | 0,4 | FIX ITS DECREMENT |
| 17326 | 0020 | 00 | 0 | 17307 | 191 | TRA | LSR | |
| 17327 | 0 | 00000 | 0 | 00000 | 192 | LAN | PZE | |
| | | | | | 193 | * | UNWND IS UNSAVE FOR COMPILED FUNCTIONS,USED BY ERRORSET | |
| | | | | | 194 | * | TD RESTORE THE PDL TO PRISTINE STATE | |
| 17330 | 0634 | 00 | 4 | 17354 | 195 | UNWND | SXA | UNR,4 |
| 17331 | 0634 | 00 | 2 | 17355 | 196 | SXA | UNR+1,2 | SAVE RETURN |
| 17332 | -0534 | 00 | 4 | 02317 | 197 | LXD | \$CPPI,4 | SAVE IR2 |
| 17333 | 0500 | 00 | 4 | 77777 | 198 | CLA | -1,4 | \$CPPI IS COMPLEMENT OF PDL POSITIOIN |
| 17334 | 0622 | 00 | 0 | 17352 | 199 | STD | UNJ | SO THIS GETS STR 0,,N |
| 17335 | 0402 | 00 | 0 | 00442 | 200 | SUB | \$QD1 | SAVE N TO RESTORE PDL |
| 17336 | 0622 | 00 | 0 | 17343 | 201 | STD | UNH | AND SET UP TEST WHICH SAYS THAT |
| 17337 | -0535 | 00 | 4 | 02317 | 202 | LDC | \$CPPI,4 | WE HABA CRAWLED UP THE PDL ALL WAY |
| 17340 | 0634 | 00 | 4 | 17344 | 203 | SXA | UNG,4 | NEED TRUE POINTER FOR CALLING WORDS |
| 17341 | 0774 | 00 | 4 | 00001 | 204 | AXT | 1,4 | IN REVERSE ORDER FROM PDL |
| 17342 | 1 | 00001 | 4 | 17343 | 205 | UNF | TXI | INITIALIZE THE RECALL LOOP |
| | | | | | | | | INCREMENT THE GET IR |

| | | | | | | | | | |
|-------|-------|-------|---|-------|-----|------|-----|------------|---|
| 17343 | 3 | 00000 | 4 | 17351 | 206 | UNH | TXH | UND,4,** | TEST FOR LAST WORD RESTORED |
| 17344 | 0500 | 00 | 4 | 00000 | 207 | UNG | CLA | ** ,4 | GET SAVED ITEM (GOING FROM BOT TO TOP) |
| 17345 | 0734 | 00 | 2 | 00000 | 208 | | PAX | 0,2 | ZERO ADDRESS INTICATES NOT NECESS RES |
| 17346 | -2 | 00000 | 2 | 17342 | 209 | | TNX | UNF,2,0 | FALL THROUGH IS TO RESTORE WORD |
| 17347 | 0737 | 00 | 2 | 00000 | 210 | | PAC | 0,2 | ADDR IS TRUE POINTER TO LOCATION |
| 17350 | 1 | 00001 | 4 | 17343 | 211 | | TXI | UNH,4,1 | WORK ON NEXT ONE |
| 17351 | -0534 | 00 | 4 | 02317 | 212 | UND | LXD | \$CPPI,4 | PUSH UP \$CPPI |
| 17352 | 1 | 00000 | 4 | 17353 | 213 | UNJ | TXI | **1,4,** | BY N |
| 17353 | -0634 | 00 | 4 | 02317 | 214 | | SXD | \$CPPI,4 | |
| 17354 | 0774 | 00 | 4 | 00000 | 215 | UNR | AXT | ** ,4 | RESTORE LINK |
| 17355 | 0774 | 00 | 2 | 00000 | 216 | | AXT | ** ,2 | AND IR2 |
| 17356 | 0020 | 00 | 4 | 00001 | 217 | | TRA | 1,4 | |
| | | | | | 218 | * | | | MOVE IS A SPECIAL COMPILER SERVICE SUBROUTINE WITH BAD CALLING. |
| | | | | | 219 | * | TSX | *MOVE,1 | |
| | | | | | 220 | * | TNX | NAME,1,*MN | |
| 17357 | 0634 | 00 | 1 | 17364 | 221 | MOVE | SXA | MOVY,1 | |
| 17360 | -0534 | 00 | 1 | 02317 | 222 | | LXD | \$CPPI,1 | PICK UP PDL PPINTER |
| 17361 | 0601 | 00 | 1 | 00001 | 223 | | STO | 1,1 | SAVE AC |
| 17362 | -0600 | 00 | 1 | 00002 | 224 | | STQ | 2,1 | |
| 17363 | -0634 | 00 | 4 | 17453 | 225 | | SXD | TXLW,4 | SAVE RETURN INDEX |
| 17364 | 0774 | 00 | 4 | 00000 | 226 | MOVY | AXT | ** ,4 | PICK UP REFERENCE TO CALLING HEAD |
| 17365 | 0500 | 00 | 4 | 00001 | 227 | | CLA | 1,4 | TNX WORD HAS NAME IN ADDR. |
| 17366 | 0621 | 00 | 0 | 17453 | 228 | | STA | TXLW | COMPLETES THE TXL WORD |
| 17367 | 0622 | 00 | 0 | 17452 | 229 | | STD | STRW | PUT N IN STRW DECREMENT |
| 17370 | 0500 | 00 | 0 | 17453 | 230 | | CLA | TXLW | |
| 17371 | 0601 | 00 | 1 | 00000 | 231 | | STO | 0,1 | PUT IT AT HEAD OF PDL BLOCK |
| 17372 | 0500 | 00 | 4 | 00000 | 232 | | CLA | 0,4 | TSX HAS COUNT FIELD = (No. of args) - 1 |
| 17373 | -0320 | 00 | 0 | 00467 | 233 | | ANA | CNTMSK | COUNT FIELD MASK |
| 17374 | 0100 | 00 | 0 | 17444 | 234 | | TZE | MOVD | IF LESS THAN 3 ARGS |
| 17375 | -0734 | 00 | 4 | 00000 | 235 | | PDX | 0,4 | COUNT FIELD TO IX |
| 17376 | 0020 | 00 | 4 | 17443 | 236 | | TRA | MOVD-1,4 | ENTER PART OF MOVE ROUTINE |
| 17377 | 0500 | 00 | 0 | 03342 | 237 | | CLA | \$ARG20 | |
| 17400 | 0601 | 00 | 1 | 00024 | 238 | | STO | 20,1 | |
| 17401 | 0500 | 00 | 0 | 03341 | 239 | | CLA | \$ARG19 | |
| 17402 | 0601 | 00 | 1 | 00023 | 240 | | STO | 19,1 | |
| 17403 | 0500 | 00 | 0 | 03340 | 241 | | CLA | \$ARG18 | |
| 17404 | 0601 | 00 | 1 | 00022 | 242 | | STO | 18,1 | |
| 17405 | 0500 | 00 | 0 | 03337 | 243 | | CLA | \$ARG17 | |
| 17406 | 0601 | 00 | 1 | 00021 | 244 | | STO | 17,1 | |
| 17407 | 0500 | 00 | 0 | 03336 | 245 | | CLA | \$ARG16 | |
| 17410 | 0601 | 00 | 1 | 00020 | 246 | | STO | 16,1 | |
| 17411 | 0500 | 00 | 0 | 03335 | 247 | | CLA | \$ARG15 | |
| 17412 | 0601 | 00 | 1 | 00017 | 248 | | STO | 15,1 | |
| 17413 | 0500 | 00 | 0 | 03334 | 249 | | CLA | \$ARG14 | |
| 17414 | 0601 | 00 | 1 | 00016 | 250 | | STO | 14,1 | |
| 17415 | 0500 | 00 | 0 | 03333 | 251 | | CLA | \$ARG13 | |
| 17416 | 0601 | 00 | 1 | 00015 | 252 | | STO | 13,1 | |
| 17417 | 0500 | 00 | 0 | 03332 | 253 | | CLA | \$ARG12 | |
| 17420 | 0601 | 00 | 1 | 00014 | 254 | | STO | 12,1 | |
| 17421 | 0500 | 00 | 0 | 03331 | 255 | | CLA | \$ARG11 | |
| 17422 | 0601 | 00 | 1 | 00013 | 256 | | STO | 11,1 | |
| 17423 | 0500 | 00 | 0 | 03330 | 257 | | CLA | \$ARG10 | |
| 17424 | 0601 | 00 | 1 | 00012 | 258 | | STO | 10,1 | |
| 17425 | 0500 | 00 | 0 | 03327 | 259 | | CLA | \$ARG9 | |

| | | | | | | | | | |
|-------|-------|-------|---|-------|-----|--------|---|-------------|--|
| 17426 | 0601 | 00 | 1 | 00011 | 260 | STO | 9,1 | | |
| 17427 | 0500 | 00 | 0 | 03326 | 261 | CLA | \$ARG8 | | |
| 17430 | 0601 | 00 | 1 | 00010 | 262 | STO | 8,1 | | |
| 17431 | 0500 | 00 | 0 | 03325 | 263 | CLA | \$ARG7 | | |
| 17432 | 0601 | 00 | 1 | 00007 | 264 | STO | 7,1 | | |
| 17433 | 0500 | 00 | 0 | 03324 | 265 | CLA | \$ARG6 | | |
| 17434 | 0601 | 00 | 1 | 00006 | 266 | STO | 6,1 | | |
| 17435 | 0500 | 00 | 0 | 03323 | 267 | CLA | \$ARG5 | | |
| 17436 | 0601 | 00 | 1 | 00005 | 268 | STO | 5,1 | | |
| 17437 | 0500 | 00 | 0 | 03322 | 269 | CLA | \$ARG4 | | |
| 17440 | 0601 | 00 | 1 | 00004 | 270 | STO | 4,1 | | |
| 17441 | 0500 | 00 | 0 | 03321 | 271 | CLA | \$ARG3 | | |
| 17442 | 0601 | 00 | 1 | 00003 | 272 | STO | 3,1 | | |
| 17443 | 0534 | 00 | 4 | 17364 | 273 | LXA | MOVY,4 | RESTORE IR4 | |
| 17444 | 0522 | 00 | 4 | 00001 | 274 | MOVD | XEC | 1,4 | XECED TNX DECREMENTS IX1 BUT NO TRANSFER |
| 17445 | -0634 | 00 | 1 | 02317 | 275 | SXD | \$CPPI,1 | | KEEP CPPI UP TO DATE ALSO |
| 17446 | 0522 | 00 | 0 | 02414 | 276 | MOVDD | XEC | ENDPDL | TEST FOR OUT OF BPS |
| 17447 | 0500 | 00 | 0 | 17452 | 277 | CLA | STRW | | CREATES SECOND PARAMETER WORD |
| 17450 | 0601 | 00 | 1 | 77777 | 278 | STO | -1,1 | | PUT AT VERY END OF BLOCK |
| 17451 | 0020 | 00 | 4 | 00002 | 279 | TRA | 2,4 | | RETURN FROM LINK |
| 17452 | -1 | 00000 | 0 | 00000 | 280 | STRW | STR | ** | |
| 17453 | -3 | 00000 | 0 | 00000 | 281 | TXLW | TXL | **,** | |
| | | | | | 282 | * | | | |
| | | | | | 283 | * | RESTOR PICKS UP IX4 FROM PDL,SETS BACK CPPI ,AND EXITS. | | |
| | | | | | 284 | RESTOR | SXD | \$CPPI,1 | |
| | | | | | 285 | XCA | | | SAVE VALUE OF FUNCTION |
| | | | | | 286 | CLA | 0,1 | | PICK UP RETURN WORD |
| | | | | | 287 | PDX | 0,4 | | RESTORE IX4 |
| | | | | | 288 | XCA | | | RESTORE AC |
| | | | | | 289 | TRA | 1,4 | | EXIT |
| | | | | | 290 | * | | | |
| | | | | | | DECK | | | PERMANENT ATOMS |
| 17462 | | | | | 1 | TOPROG | BSS | 0 | |

*** \$WORDs, ***

RESTORE IR4
 XECED TNX DECREMENTS IX1 BUT NO TRANSFER
 KEEP CPPI UP TO DATE ALSO
 TEST FOR OUT OF BPS
 CREATES SECOND PARAMETER WORD
 PUT AT VERY END OF BLOCK
 RETURN FROM LINK

RETURN

| | | | | 15 | EJECT | | | |
|-------|---|-------|---|-------|-------------|---------|--|----------|
| | | | | 16 | HEAD | 0 | | |
| | | | | 17 | OBJECT LIST | | | |
| | | | | 18 | | | | LC894400 |
| | | | | 19 | OBLB | -1,,*-1 | | LC894500 |
| 66430 | 0 | 11347 | 0 | 77777 | | | | LC894600 |
| 66431 | 0 | 11346 | 0 | 11023 | | | | RDCP0123 |
| 66432 | 0 | 11345 | 0 | 11001 | | | | |
| 66433 | 0 | 11344 | 0 | 10772 | | | | |
| 66434 | 0 | 11343 | 0 | 10762 | | | | LC894800 |
| 66435 | 0 | 11342 | 0 | 10752 | | | | LC894900 |
| 66436 | 0 | 11341 | 0 | 10742 | | | | LC895000 |
| 66437 | 0 | 11340 | 0 | 10735 | | | | LC895100 |
| 66440 | 0 | 11337 | 0 | 10725 | | | | RDCP0110 |
| 66441 | 0 | 11336 | 0 | 10715 | | | | LC895300 |
| 66442 | 0 | 11335 | 0 | 10675 | | | | LC895400 |
| 66443 | 0 | 11334 | 0 | 10665 | | | | LC897200 |
| 66444 | 0 | 11333 | 0 | 10655 | | | | LC897300 |
| 66445 | 0 | 11332 | 0 | 10645 | | | | LC911700 |
| 66446 | 0 | 11331 | 0 | 10635 | | | | LC911800 |
| 66447 | 0 | 11330 | 0 | 10625 | | | | LC911900 |
| 66450 | 0 | 11327 | 0 | 10615 | | | | LC912000 |
| 66451 | 0 | 11326 | 0 | 10605 | | | | LC912100 |
| 66452 | 0 | 11325 | 0 | 10575 | | | | LC912200 |
| 66453 | 0 | 11324 | 0 | 10565 | | | | LC912300 |
| 66454 | 0 | 11323 | 0 | 10555 | | | | LC912400 |
| 66455 | 0 | 11322 | 0 | 10545 | | | | LC912500 |
| 66456 | 0 | 11321 | 0 | 10535 | | | | LC912600 |
| 66457 | 0 | 11320 | 0 | 10525 | | | | LC912700 |
| 66460 | 0 | 11317 | 0 | 10460 | | | | LC912800 |
| 66461 | 0 | 11316 | 0 | 10450 | | | | LC897600 |
| 66462 | 0 | 11315 | 0 | 10430 | | | | LC897700 |
| 66463 | 0 | 11314 | 0 | 10323 | | | | LC898000 |
| 66464 | 0 | 11313 | 0 | 10440 | | | | |
| 66465 | 0 | 11312 | 0 | 10420 | | | | |
| 66466 | 0 | 11311 | 0 | 10365 | | | | |
| 66467 | 0 | 11310 | 0 | 10343 | | | | |
| 66470 | 0 | 11307 | 0 | 10261 | | | | |
| 66471 | 0 | 11306 | 0 | 10241 | | | | |
| 66472 | 0 | 11305 | 0 | 10231 | | | | |
| 66473 | 0 | 11304 | 0 | 10177 | | | | |
| 66474 | 0 | 11303 | 0 | 10167 | | | | |
| 66475 | 0 | 11302 | 0 | 10157 | | | | |
| 66476 | 0 | 11301 | 0 | 10152 | | | | |
| 66477 | 0 | 11300 | 0 | 10142 | | | | |
| 66500 | 0 | 11277 | 0 | 10135 | | | | |
| 66501 | 0 | 11276 | 0 | 10130 | | | | |
| 66502 | 0 | 11275 | 0 | 10120 | | | | |
| 66503 | 0 | 11274 | 0 | 10113 | | | | |
| 66504 | 0 | 11273 | 0 | 10103 | | | | |
| 66505 | 0 | 11272 | 0 | 10076 | | | | |
| 66506 | 0 | 11271 | 0 | 10071 | | | | |
| 66507 | 0 | 11270 | 0 | 10057 | | | | |
| 66510 | 0 | 11267 | 0 | 10037 | | | | |
| 66511 | 0 | 11266 | 0 | 10027 | | | | |

| | | | | | | | | |
|-------|---|-------|---|-------|-----|-------------|---------------|----------|
| 66512 | 0 | 11265 | 0 | 10015 | 69 | F16,,--1 | | LC900200 |
| 66513 | 0 | 11264 | 0 | 10005 | 70 | LABEL,,--1 | | LC900300 |
| 66514 | 0 | 11263 | 0 | 07775 | 71 | LAMBDA,,--1 | | LC900400 |
| 66515 | 0 | 11262 | 0 | 07770 | 72 | LAP,,--1 | | |
| 66516 | 0 | 11261 | 0 | 07746 | 73 | -II4,,--1 | LESS THAN P | RDCP0113 |
| 66517 | 0 | 11260 | 0 | 07736 | 74 | LIST,,--1 | | LC900500 |
| 66520 | 0 | 11257 | 0 | 07716 | 75 | LOADA,,--1 | LOADER OBJECT | |
| 66521 | 0 | 11256 | 0 | 07646 | 76 | PMAPCA,,--1 | | LC901200 |
| 66522 | 0 | 11255 | 0 | 07636 | 77 | -)069B,,--1 | | LC901300 |
| 66523 | 0 | 11254 | 0 | 07626 | 78 | -)069A,,--1 | | LC901400 |
| 66524 | 0 | 11253 | 0 | 07614 | 79 | -II7,,--1 | MAXIMUM | RDCP0116 |
| 66525 | 0 | 11252 | 0 | 07604 | 80 | -II8,,--1 | MINIMUM | RDCP0117 |
| 66526 | 0 | 11251 | 0 | 07574 | 81 | MINUS,,--1 | | LC901700 |
| 66527 | 0 | 11250 | 0 | 07564 | 82 | -II16,,--1 | MINUS P | RDCP0125 |
| 66530 | 0 | 11247 | 0 | 07544 | 83 | F3,,--1 | | LC901800 |
| 66531 | 0 | 11246 | 0 | 00000 | 84 | NIL,,--1 | | LC902000 |
| 66532 | 0 | 11245 | 0 | 07534 | 85 | NOT,,--1 | | LC902200 |
| 66533 | 0 | 11244 | 0 | 07524 | 86 | NULL,,--1 | | LC902300 |
| 66534 | 0 | 11243 | 0 | 07514 | 87 | -II13,,--1 | NUMBER P | RDCP0122 |
| 66535 | 0 | 11242 | 0 | 07472 | 88 | OBLBA,,--1 | OBLIST OBJECT | |
| 66536 | 0 | 11241 | 0 | 07455 | 89 | -II9,,--1 | ONE P | RDCP0118 |
| 66537 | 0 | 11240 | 0 | 07435 | 90 | OR,,--1 | | LC902600 |
| 66540 | 0 | 11237 | 0 | 07415 | 91 | F2,,--1 | | LC902700 |
| 66541 | 0 | 11236 | 0 | 07405 | 92 | PAUSE,,--1 | | LC902800 |
| 66542 | 0 | 11235 | 0 | 07365 | 93 | PLB,,--1 | | LC903000 |
| 66543 | 0 | 11234 | 0 | 07355 | 94 | PLUS,,--1 | | LC903100 |
| 66544 | 0 | 11233 | 0 | 07335 | 95 | PNAME,,--1 | | LC903200 |
| 66545 | 0 | 11232 | 0 | 07320 | 96 | F4,,--1 | | LC903500 |
| 66546 | 0 | 11231 | 0 | 07300 | 97 | PROG,,--1 | | LC903700 |
| 66547 | 0 | 11230 | 0 | 07260 | 98 | PROPO,,--1 | | LC903800 |
| 66550 | 0 | 11227 | 0 | 07270 | 99 | -IJ05,,--1 | PUNCH | |
| 66551 | 0 | 11226 | 0 | 07250 | 100 | QUOTE,,--1 | | LC903900 |
| 66552 | 0 | 11225 | 0 | 07240 | 101 | -IJ03,,--1 | QUOTIENT | |
| 66553 | 0 | 11224 | 0 | 07226 | 102 | F13,,--1 | | LC904000 |
| 66554 | 0 | 11223 | 0 | 07216 | 103 | -II18,,--1 | RECIP | RDCP0127 |
| 66555 | 0 | 11222 | 0 | 07206 | 104 | RCLAM,,--1 | | LC904200 |
| 66556 | 0 | 11221 | 0 | 07140 | 105 | PRPLCA,,--1 | | LC904300 |
| 66557 | 0 | 11220 | 0 | 07130 | 106 | PRPLCD,,--1 | | LC904400 |
| 66560 | 0 | 11217 | 0 | 07174 | 107 | -IJ04,,--1 | REMAINDER | |
| 66561 | 0 | 11216 | 0 | 07150 | 108 | RETATM,,--1 | RETURN | |
| 66562 | 0 | 11215 | 0 | 07052 | 109 | SASCD,,--1 | | LC904800 |
| 66563 | 0 | 11214 | 0 | 07042 | 110 | SRCH,,--1 | | LC904900 |
| 66564 | 0 | 11213 | 0 | 07032 | 111 | SET,,--1 | | LC905000 |
| 66565 | 0 | 11212 | 0 | 07022 | 112 | SETQ,,--1 | | LC905100 |
| 66566 | 0 | 11211 | 0 | 07002 | 113 | F34,,--1 | | LC905200 |
| 66567 | 0 | 11210 | 0 | 06772 | 114 | STOP,,--1 | | LC905300 |
| 66570 | 0 | 11207 | 0 | 06733 | 115 | SUBR,,--1 | | LC905500 |
| 66571 | 0 | 11206 | 0 | 06647 | 116 | TRACE,,--1 | | |
| 66572 | 0 | 11205 | 0 | 07101 | 117 | SMOVE,,--1 | | |
| 66573 | 0 | 11204 | 0 | 07072 | 118 | SRETUR,,--1 | | |
| 66574 | 0 | 11203 | 0 | 07061 | 119 | SLIST,,--1 | | |
| 66575 | 0 | 11202 | 0 | 07110 | 120 | SPECAL,,--1 | | |
| 66576 | 0 | 11201 | 0 | 06743 | 121 | -II15,,--1 | SUBTRACT 1 | RDCP0124 |
| 66577 | 0 | 11200 | 0 | 06726 | 122 | F17,,--1 | | LC905600 |

| | | | | | | | |
|-------|---|-------|---|-------|-----|-------------|----------|
| 66666 | 0 | 11111 | 0 | 06204 | 177 | H55,,--1 | RDCP0056 |
| 66667 | 0 | 11110 | 0 | 06205 | 178 | H56,,--1 | RDCP0057 |
| 66670 | 0 | 11107 | 0 | 06206 | 179 | H57,,--1 | RDCP0058 |
| 66671 | 0 | 11106 | 0 | 06207 | 180 | H60,,--1 | RDCP0059 |
| 66672 | 0 | 11105 | 0 | 06210 | 181 | H61,,--1 | RDCP0060 |
| 66673 | 0 | 11104 | 0 | 06211 | 182 | H62,,--1 | RDCP0061 |
| 66674 | 0 | 11103 | 0 | 06212 | 183 | H63,,--1 | RDCP0062 |
| 66675 | 0 | 11102 | 0 | 06213 | 184 | H64,,--1 | RDCP0063 |
| 66676 | 0 | 11101 | 0 | 06214 | 185 | H65,,--1 | RDCP0064 |
| 66677 | 0 | 11100 | 0 | 06215 | 186 | H66,,--1 | RDCP0065 |
| 66700 | 0 | 11077 | 0 | 06216 | 187 | H67,,--1 | RDCP0066 |
| 66701 | 0 | 11076 | 0 | 06217 | 188 | H70,,--1 | RDCP0067 |
| 66702 | 0 | 11075 | 0 | 06220 | 189 | H71,,--1 | RDCP0068 |
| 66703 | 0 | 11074 | 0 | 06221 | 190 | H72,,--1 | RDCP0069 |
| 66704 | 0 | 11073 | 0 | 06222 | 191 | H73,,--1 | RDCP0070 |
| 66705 | 0 | 11072 | 0 | 06223 | 192 | H74,,--1 | RDCP0071 |
| 66706 | 0 | 11071 | 0 | 06224 | 193 | H75,,--1 | RDCP0072 |
| 66707 | 0 | 11070 | 0 | 06225 | 194 | H76,,--1 | RDCP0073 |
| 66710 | 0 | 11067 | 0 | 06226 | 195 | H77,,--1 | RDCP0074 |
| 66711 | 0 | 11066 | 0 | 10410 | 196 | PJ1,,--1 | RDCP0075 |
| 66712 | 0 | 11065 | 0 | 11013 | 197 | PJ2,,--1 | RDCP0076 |
| 66713 | 0 | 11064 | 0 | 10221 | 198 | PJ4,,--1 | RDCP0077 |
| 66714 | 0 | 11063 | 0 | 10251 | 199 | PJ5,,--1 | RDCP0078 |
| 66715 | 0 | 11062 | 0 | 10470 | 200 | PJ6,,--1 | RDCP0079 |
| 66716 | 0 | 11061 | 0 | 07656 | 201 | PJ7,,--1 | RDCP0080 |
| 66717 | 0 | 11060 | 0 | 07120 | 202 | PJ8,,--1 | RDCP0081 |
| 66720 | 0 | 11057 | 0 | 07375 | 203 | PJ9,,--1 | RDCP0082 |
| 66721 | 0 | 11056 | 0 | 10333 | 204 | PJ10,,--1 | RDCP0083 |
| 66722 | 0 | 11055 | 0 | 07345 | 205 | PJ11,,--1 | RDCP0084 |
| 66723 | 0 | 11054 | 0 | 10705 | 206 | PJ12,,--1 | RDCP0085 |
| 66724 | 0 | 11053 | 0 | 07012 | 207 | PJ14,,--1 | RDCP0086 |
| 66725 | 0 | 11052 | 0 | 06765 | 208 | PJ15,,--1 | RDCP0087 |
| 66726 | 0 | 11051 | 0 | 10375 | 209 | PJ16,,--1 | RDCP0088 |
| 66727 | 0 | 11050 | 0 | 07726 | 210 | PJ17,,--1 | RDCP0089 |
| 66730 | 0 | 11047 | 0 | 07445 | 211 | PJ18,,--1 | RDCP0090 |
| 66731 | 0 | 11046 | 0 | 10353 | 212 | PJ19,,--1 | RDCP0091 |
| 66732 | 0 | 11045 | 0 | 06755 | 213 | PJ21,,--1 | RDCP0092 |
| 66733 | 0 | 11044 | 0 | 06701 | 214 | PJ23,,--1 | RDCP0093 |
| 66734 | 0 | 11043 | 0 | 07425 | 215 | PJ24,,--1 | RDCP0094 |
| 66735 | 0 | 11042 | 0 | 07502 | 216 | PJ25,,--1 | RDCP0095 |
| 66736 | 0 | 11041 | 0 | 07554 | 217 | PJ26,,--1 | RDCP0096 |
| 66737 | 0 | 11040 | 0 | 10502 | 218 | PJ27,,--1 | RDCP0097 |
| 66740 | 0 | 11037 | 0 | 07462 | 219 | PJ28,,--1 | RDCP0098 |
| 66741 | 0 | 11036 | 0 | 10313 | 220 | PJ30,,--1 | RDCP0099 |
| 66742 | 0 | 11035 | 0 | 06630 | 221 | PJ31,,--1 | RDCP0100 |
| 66743 | 0 | 11034 | 0 | 10515 | 222 | PJ32,,--1 | RDCP0102 |
| 66744 | 0 | 11033 | 0 | 07330 | 223 | PJ33,,--1 | RDCP0103 |
| 66745 | 0 | 11032 | 0 | 10301 | 224 | PJ34,,--1 | RDCP0104 |
| 66746 | 0 | 11031 | 0 | 10271 | 225 | PJ35,,--1 | RDCP0105 |
| 66747 | 0 | 11030 | 0 | 07676 | 226 | PJ36,,--1 | RDCP0106 |
| 66750 | 0 | 11027 | 0 | 07706 | 227 | PJ37,,--1 | RDCP0107 |
| 66751 | 0 | 11026 | 0 | 07666 | 228 | PJ38,,--1 | RDCP0108 |
| 66752 | 0 | 11025 | 0 | 07310 | 229 | PJ39,,--1 | RDCP0109 |
| 66753 | 0 | 11024 | 0 | 10211 | 230 | ERSET0,,--1 | ERRORSET |

66754 0 00000 0 07760

231

PVW1

LAST OBJECT - LEFTSHIFT

8
7
6
5
4
3
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12

| | | | | | | | | |
|-------|---------------|-------|-----|-------|----------------|-------|--------------|----------|
| | | | 232 | | EJECT | | | |
| | | | 233 | | PROPERTY LISTS | | | LC915000 |
| | | | 234 | | | | | LC915100 |
| 66755 | 0 | 11022 | 0 | 77777 | 235 | II14 | -1,,--1 | RDC80426 |
| 66756 | 0 | 11021 | 0 | 06733 | 236 | | \$SUBR,,--1 | RDC80427 |
| 66757 | 0 | 11017 | 0 | 11020 | 237 | | --1,,--2 | RDC80428 |
| 66760 | -3 | 00001 | 0 | 14401 | 238 | TXL | ACD1,,1 | RDC80429 |
| 66761 | 0 | 11016 | 0 | 07335 | 239 | | \$PNAME,,--1 | RDC80430 |
| 66762 | 0 | 00000 | 0 | 11015 | 240 | | --1 | RDC80431 |
| 66763 | 0 | 00000 | 0 | 11014 | 241 | | --1 | RDC80432 |
| 66764 | +212424017777 | | | | 242 | OCT | 212424017777 | RDC80433 |
| | | | | | 243 | * | | RDC80434 |
| 66765 | 0 | 11012 | 0 | 77777 | 244 | JPJ2 | -1,,--1 | RDCP0625 |
| 66766 | 0 | 11011 | 0 | 06733 | 245 | | SUBR,,--1 | RDCP0632 |
| 66767 | 0 | 11007 | 0 | 11010 | 246 | PZE | --1,,--2 | RDCW0012 |
| 66770 | -3 | 00000 | 0 | 12211 | 247 | TXL | ADVANC,,0 | RDCP0634 |
| 66771 | 0 | 11006 | 0 | 07335 | 248 | | PNAME,,--1 | RDC80002 |
| 66772 | 0 | 00000 | 0 | 11005 | 249 | | --1 | RDCP0633 |
| 66773 | 0 | 11003 | 0 | 11004 | 250 | | --1,,--2 | RDCP0628 |
| 66774 | 212465214523 | | | | 251 | BCD | 1ADVANC | RDCP0629 |
| 66775 | 0 | 00000 | 0 | 11002 | 252 | | --1 | RDCP0630 |
| 66776 | +257777777777 | | | | 253 | OCT | 257777777777 | RDCP0631 |
| | | | | | 254 | * | | |
| 66777 | 0 | 11000 | 0 | 77777 | 255 | JALST | -1,,--1 | |
| 67000 | 0 | 10777 | 0 | 07335 | 256 | | PNAME,,--1 | LC919300 |
| 67001 | 0 | 10774 | 0 | 10776 | 257 | | --1,,--3 | |
| 67002 | 0 | 00000 | 0 | 10775 | 258 | | --1 | LC919400 |
| 67003 | -132143316263 | | | | 259 | OCT | 532143316263 | \$ALIST |
| 67004 | 0 | 10773 | 0 | 06706 | 260 | | SYM,,--1 | |
| 67005 | 0 | 00000 | 0 | 61262 | 261 | | -C\$ALST | |
| | | | | | 262 | | | LC915800 |
| 67006 | 0 | 10771 | 0 | 77777 | 263 | J002 | -1,,--1 | LC915900 |
| 67007 | 0 | 10770 | 0 | 10103 | 264 | | FSUBR,,--1 | LC916000 |
| 67010 | 0 | 10766 | 0 | 10767 | 265 | | --1,,--2 | LC916100 |
| 67011 | -3 | 00000 | 0 | 15370 | 266 | TXL | \$EVAND,,0 | LC916200 |
| 67012 | 0 | 10765 | 0 | 07335 | 267 | | \$PNAME,,--1 | LC916300 |
| 67013 | 0 | 00000 | 0 | 10764 | 268 | | --1 | LC916400 |
| 67014 | 0 | 00000 | 0 | 10763 | 269 | | --1 | LC916500 |
| 67015 | +214524777777 | | | | 270 | OCT | 214524777777 | AND |
| | | | | | 271 | | | LC916600 |
| 67016 | 0 | 10761 | 0 | 77777 | 272 | J003 | -1,,--1 | LC916800 |
| 67017 | 0 | 10760 | 0 | 06733 | 273 | | SUBR,,--1 | LC916900 |
| 67020 | 0 | 10756 | 0 | 10757 | 274 | | --1,,--2 | LC917000 |
| 67021 | -3 | 00002 | 0 | 07541 | 275 | TXL | APPEND,,2 | LC917100 |
| 67022 | 0 | 10755 | 0 | 07335 | 276 | | PNAME,,--1 | LC917200 |
| 67023 | 0 | 00000 | 0 | 10754 | 277 | | --1 | LC917300 |
| 67024 | 0 | 00000 | 0 | 10753 | 278 | | --1 | LC917400 |
| 67025 | 214747254524 | | | | 279 | BCD | 1APPEND | LC917500 |
| | | | | | 280 | | | LC917600 |
| 67026 | 0 | 10751 | 0 | 77777 | 281 | J004 | -1,,--1 | LC917700 |
| 67027 | 0 | 10750 | 0 | 06733 | 282 | | SUBR,,--1 | LC917800 |
| 67030 | 0 | 10746 | 0 | 10747 | 283 | | --1,,--2 | LC917900 |
| 67031 | -3 | 00003 | 0 | 14663 | 284 | TXL | APPLY,,3 | LC918000 |
| 67032 | 0 | 10745 | 0 | 07335 | 285 | | PNAME,,--1 | LC918100 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|-----|------|---------------------|-----------|----------|
| 67033 | 0 | 00000 | 0 | 10744 | 286 | --1 | | | LC918200 |
| 67034 | 0 | 00000 | 0 | 10743 | 287 | --1 | | | LC918300 |
| 67035 | +214747437077 | | | | 288 | | OCT 214747437077 | APPLY | LC918400 |
| | | | | | 289 | | | | LC919700 |
| 67036 | 0 | 10741 | 0 | 77777 | 290 | 1005 | -1,,--1 | | |
| 67037 | 0 | 10740 | 0 | 07335 | 291 | | PNAME,,--1 | | |
| 67040 | 0 | 00000 | 0 | 10737 | 292 | | --1 | | |
| 67041 | 0 | 00000 | 0 | 10736 | 293 | | --1 | | |
| 67042 | 214765214377 | | | | 294 | | VFD H30/APVAL,06/77 | APVAL | |
| | | | | | 295 | * | | | |
| 67043 | 0 | 10734 | 0 | 77777 | 296 | III | -1,,--1 | | RDC80305 |
| 67044 | 0 | 10733 | 0 | 06733 | 297 | | SUBR,,--1 | | |
| 67045 | 0 | 10731 | 0 | 10732 | 298 | | --1,,--2 | | |
| 67046 | -3 | 00001 | 0 | 13113 | 299 | TXL | ARYMAK,,1 | | |
| 67047 | 0 | 10730 | 0 | 07335 | 300 | | \$PNAME,,--1 | | RDC80309 |
| 67050 | 0 | 00000 | 0 | 10727 | 301 | | --1 | | RDC80310 |
| 67051 | 0 | 00000 | 0 | 10726 | 302 | | --1 | | RDC80311 |
| 67052 | +215151217077 | | | | 303 | OCT | 215151217077 | ARRAY | RDC80312 |
| | | | | | 304 | * | | | RDC80313 |
| 67053 | 0 | 10724 | 0 | 77777 | 305 | 1007 | -1,,--1 | | LC919800 |
| 67054 | 0 | 10723 | 0 | 06733 | 306 | | SUBR,,--1 | | LC919900 |
| 67055 | 0 | 10721 | 0 | 10722 | 307 | | --1,,--2 | | LC920000 |
| 67056 | -3 | 00001 | 0 | 15230 | 308 | TXL | ATOMP,,1 | | LC920100 |
| 67057 | 0 | 10720 | 0 | 07335 | 309 | | PNAME,,--1 | | LC922400 |
| 67060 | 0 | 00000 | 0 | 10717 | 310 | | --1 | | LC922500 |
| 67061 | 0 | 00000 | 0 | 10716 | 311 | | --1 | | LC922600 |
| 67062 | +216346447777 | | | | 312 | OCT | 216346447777 | ATOM | LC922700 |
| | | | | | 313 | | | | LC922800 |
| 67063 | 0 | 10714 | 0 | 77777 | 314 | 1008 | -1,,--1 | | LC922900 |
| 67064 | 0 | 10713 | 0 | 06733 | 315 | | SUBR,,--1 | | LC923000 |
| 67065 | 0 | 10711 | 0 | 10712 | 316 | | --1,,--2 | | LC923100 |
| 67066 | -3 | 00002 | 0 | 10134 | 317 | TXL | ATTRIB,,2 | | LC923200 |
| 67067 | 0 | 10710 | 0 | 07335 | 318 | | PNAME,,--1 | | LC923300 |
| 67070 | 0 | 00000 | 0 | 10707 | 319 | | --1 | | LC923400 |
| 67071 | 0 | 00000 | 0 | 10706 | 320 | | --1 | | LC923500 |
| 67072 | 216363513122 | | | | 321 | BCD | 1ATTRIB | | LC923600 |
| | | | | | 322 | * | | | |
| 67073 | 0 | 10704 | 0 | 77777 | 323 | PJ12 | PZE -1,,--1 | BLANK | RDC80069 |
| 67074 | 0 | 10703 | 0 | 07335 | 324 | | PZE PNAME,,--1 | | RDC80070 |
| 67075 | 0 | 10700 | 0 | 10702 | 325 | | --1,,--3 | | RDC80071 |
| 67076 | 0 | 00000 | 0 | 10701 | 326 | | --1 | | RDC80072 |
| 67077 | +224321454277 | | | | 327 | OCT | 224321454277 | BCD BLANK | RDC80073 |
| 67100 | 0 | 10677 | 0 | 10742 | 328 | | APVAL1,,--1 | | RDC80074 |
| 67101 | 0 | 00000 | 0 | 10676 | 329 | | --1 | | RDC80075 |
| 67102 | 0 | 00000 | 0 | 06207 | 330 | | H60 | | RDC80076 |
| | | | | | 331 | * | | | |
| 67103 | 0 | 10674 | 0 | 77777 | 332 | 1011 | -1,,--1 | | HAC50000 |
| 67104 | 0 | 10673 | 0 | 06733 | 333 | | SUBR,,--1 | | HAC50010 |
| 67105 | 0 | 10671 | 0 | 10672 | 334 | | --1,,--2 | | HAC50020 |
| 67106 | -3 | 00001 | 0 | 15212 | 335 | TXL | CARP,,1 | | HAC50030 |
| 67107 | 0 | 10670 | 0 | 07335 | 336 | | PNAME,,--1 | | |
| 67110 | 0 | 00000 | 0 | 10667 | 337 | | --1 | | HAC50130 |
| 67111 | 0 | 00000 | 0 | 10666 | 338 | | --1 | | HAC50140 |
| 67112 | +232151777777 | | | | 339 | OCT | 232151777777 | CAR | HAC50150 |

| | | | | | | | | | |
|-------|-------------|--------|---|-------|-------|------|------------------|--|----------|
| 67113 | 0 | 10664 | 0 | 77777 | 340 * | | | | HAC50160 |
| | | | | | 341 |)012 | -1,,--1 | | HAC50170 |
| 67114 | 0 | 10663 | 0 | 06733 | 342 | | SUBR,,--1 | | HAC50180 |
| 67115 | 0 | 10661 | 0 | 10662 | 343 | | --1,,--2 | | HAC50190 |
| 67116 | -3 | 00001 | 0 | 15222 | 344 | TXL | CDRP,,1 | | HAC50200 |
| 67117 | 0 | 10660 | 0 | 07335 | 345 | | PNAME,,--1 | | |
| 67120 | 0 | 00000 | 0 | 10657 | 346 | | --1 | | HAC50290 |
| 67121 | 0 | 00000 | 0 | 10656 | 347 | | --1 | | HAC50300 |
| 67122 | +232451 | 777777 | | | 348 | OCT | 232451777777 CDR | | HAC50310 |
| | | | | | 349 | | | | LD092800 |
| 67123 | 0 | 10654 | 0 | 77777 | 350 |)201 | -1,,--1 | | LD092900 |
| 67124 | 0 | 10653 | 0 | 06733 | 351 | | \$SUBR,,--1 | | |
| 67125 | 0 | 10651 | 0 | 10652 | 352 | | --1,,--2 | | |
| 67126 | -3 | 00001 | 0 | 11726 | 353 | TXL | CAARXX,,1 | | |
| 67127 | 0 | 10650 | 0 | 07335 | 354 | | PNAME,,--1 | | LD093000 |
| 67130 | 0 | 00000 | 0 | 10647 | 355 | | --1 | | LD093200 |
| 67131 | 0 | 00000 | 0 | 10646 | 356 | | --1 | | LD093500 |
| 67132 | +23212151 | 77777 | | | 357 | OCT | 232121517777 | | LD093300 |
| | | | | | 358 | | | | LD094400 |
| 67133 | 0 | 10644 | 0 | 77777 | 359 |)202 | -1,,--1 | | LD094500 |
| 67134 | 0 | 10643 | 0 | 06733 | 360 | | \$SUBR,,--1 | | |
| 67135 | 0 | 10641 | 0 | 10642 | 361 | | --1,,--2 | | |
| 67136 | -3 | 00001 | 0 | 11765 | 362 | TXL | CDARXX,,1 | | |
| 67137 | 0 | 10640 | 0 | 07335 | 363 | | PNAME,,--1 | | LD094600 |
| 67140 | 0 | 00000 | 0 | 10637 | 364 | | --1 | | LD095100 |
| 67141 | 0 | 00000 | 0 | 10636 | 365 | | --1 | | LD094800 |
| 67142 | +23242151 | 77777 | | | 366 | OCT | 232421517777 | | LD094900 |
| | | | | | 367 | | | | LD095900 |
| 67143 | 0 | 10634 | 0 | 77777 | 368 |)203 | -1,,--1 | | LD096000 |
| 67144 | 0 | 10633 | 0 | 06733 | 369 | | \$SUBR,,--1 | | |
| 67145 | 0 | 10631 | 0 | 10632 | 370 | | --1,,--2 | | |
| 67146 | -3 | 00001 | 0 | 11730 | 371 | TXL | CADRXX,,1 | | |
| 67147 | 0 | 10630 | 0 | 07335 | 372 | | PNAME,,--1 | | LD096100 |
| 67150 | 0 | 00000 | 0 | 10627 | 373 | | --1 | | LD096800 |
| 67151 | 0 | 00000 | 0 | 10626 | 374 | | --1 | | LD096300 |
| 67152 | +23212451 | 77777 | | | 375 | OCT | 232124517777 | | LD096400 |
| | | | | | 376 | | | | LD097500 |
| 67153 | 0 | 10624 | 0 | 77777 | 377 |)204 | -1,,--1 | | LD097600 |
| 67154 | 0 | 10623 | 0 | 06733 | 378 | | \$SUBR,,--1 | | |
| 67155 | 0 | 10621 | 0 | 10622 | 379 | | --1,,--2 | | |
| 67156 | -3 | 00001 | 0 | 11767 | 380 | TXL | CDDRXX,,1 | | |
| 67157 | 0 | 10620 | 0 | 07335 | 381 | | PNAME,,--1 | | LD097700 |
| 67160 | 0 | 00000 | 0 | 10617 | 382 | | --1 | | LD098200 |
| 67161 | 0 | 00000 | 0 | 10616 | 383 | | --1 | | LD097900 |
| 67162 | +23242451 | 77777 | | | 384 | OCT | 232424517777 | | LD098000 |
| | | | | | 385 | | | | LD099000 |
| 67163 | 0 | 10614 | 0 | 77777 | 386 |)205 | -1,,--1 | | LD099100 |
| 67164 | 0 | 10613 | 0 | 06733 | 387 | | \$SUBR,,--1 | | |
| 67165 | 0 | 10611 | 0 | 10612 | 388 | | --1,,--2 | | |
| 67166 | -3 | 00001 | 0 | 11672 | 389 | TXL | CAAARX,,1 | | |
| 67167 | 0 | 10610 | 0 | 07335 | 390 | | PNAME,,--1 | | LD099200 |
| 67170 | 0 | 00000 | 0 | 10607 | 391 | | --1 | | LD099700 |
| 67171 | 0 | 00000 | 0 | 10606 | 392 | | --1 | | LD099400 |
| 67172 | +2321212151 | 777 | | | 393 | OCT | 232121215177 | | LD099500 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|-----|------|--------------|--|----------|
| 67173 | 0 | 10604 | 0 | 77777 | 394 | | | | LD100800 |
| 67174 | 0 | 10603 | 0 | 06733 | 395 | 1206 | -1,,--1 | | LD100900 |
| 67175 | 0 | 10601 | 0 | 10602 | 396 | | \$SUBR,,--1 | | |
| 67176 | -3 | 00001 | 0 | 11705 | 397 | | --1,,--2 | | |
| 67177 | 0 | 10600 | 0 | 07335 | 398 | TXL | CAADDRX,,1 | | |
| 67200 | 0 | 00000 | 0 | 10577 | 399 | | PNAME,,--1 | | LD101000 |
| 67201 | 0 | 00000 | 0 | 10576 | 400 | | --1 | | LD101500 |
| 67202 | +232121245177 | | | | 401 | | --1 | | LD101200 |
| | | | | | 402 | OCT | 232121245177 | | LD101300 |
| | | | | | 403 | | | | LD102600 |
| 67203 | 0 | 10574 | 0 | 77777 | 404 | 1207 | -1,,--1 | | LD102700 |
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| 67205 | 0 | 10571 | 0 | 10572 | 406 | | --1,,--2 | | |
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| 67207 | 0 | 10570 | 0 | 07335 | 408 | | PNAME,,--1 | | LD102800 |
| 67210 | 0 | 00000 | 0 | 10567 | 409 | | --1 | | LD103300 |
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| 67212 | +232124215177 | | | | 411 | OCT | 232124215177 | | LD103100 |
| | | | | | 412 | | | | LD104400 |
| 67213 | 0 | 10564 | 0 | 77777 | 413 | 1208 | -1,,--1 | | LD104500 |
| 67214 | 0 | 10563 | 0 | 06733 | 414 | | \$SUBR,,--1 | | |
| 67215 | 0 | 10561 | 0 | 10562 | 415 | | --1,,--2 | | |
| 67216 | -3 | 00001 | 0 | 11721 | 416 | TXL | CADDRX,,1 | | |
| 67217 | 0 | 10560 | 0 | 07335 | 417 | | PNAME,,--1 | | LD104600 |
| 67220 | 0 | 00000 | 0 | 10557 | 418 | | --1 | | LD105100 |
| 67221 | 0 | 00000 | 0 | 10556 | 419 | | --1 | | LD104800 |
| 67222 | +232124245177 | | | | 420 | OCT | 232124245177 | | LD104900 |
| | | | | | 421 | | | | LD106200 |
| 67223 | 0 | 10554 | 0 | 77777 | 422 | 1209 | -1,,--1 | | LD106300 |
| 67224 | 0 | 10553 | 0 | 06733 | 423 | | \$SUBR,,--1 | | |
| 67225 | 0 | 10551 | 0 | 10552 | 424 | | --1,,--2 | | |
| 67226 | -3 | 00001 | 0 | 11732 | 425 | TXL | CDAARX,,1 | | |
| 67227 | 0 | 10550 | 0 | 07335 | 426 | | PNAME,,--1 | | LD106400 |
| 67230 | 0 | 00000 | 0 | 10547 | 427 | | --1 | | LD106900 |
| 67231 | 0 | 00000 | 0 | 10546 | 428 | | --1 | | LD106600 |
| 67232 | +232421215177 | | | | 429 | OCT | 232421215177 | | LD106700 |
| | | | | | 430 | | | | LD107900 |
| 67233 | 0 | 10544 | 0 | 77777 | 431 | 1210 | -1,,--1 | | LD108000 |
| 67234 | 0 | 10543 | 0 | 06733 | 432 | | \$SUBR,,--1 | | |
| 67235 | 0 | 10541 | 0 | 10542 | 433 | | --1,,--2 | | |
| 67236 | -3 | 00001 | 0 | 11744 | 434 | TXL | CDADDRX,,1 | | |
| 67237 | 0 | 10540 | 0 | 07335 | 435 | | PNAME,,--1 | | LD108100 |
| 67240 | 0 | 00000 | 0 | 10537 | 436 | | --1 | | LD108600 |
| 67241 | 0 | 00000 | 0 | 10536 | 437 | | --1 | | LD108300 |
| 67242 | +232421245177 | | | | 438 | OCT | 232421245177 | | LD108400 |
| | | | | | 439 | | | | LD109600 |
| 67243 | 0 | 10534 | 0 | 77777 | 440 | 1211 | -1,,--1 | | LD109700 |
| 67244 | 0 | 10533 | 0 | 06733 | 441 | | \$SUBR,,--1 | | |
| 67245 | 0 | 10531 | 0 | 10532 | 442 | | --1,,--2 | | |
| 67246 | -3 | 00001 | 0 | 11751 | 443 | TXL | CDDARX,,1 | | |
| 67247 | 0 | 10530 | 0 | 07335 | 444 | | PNAME,,--1 | | LD109800 |
| 67250 | 0 | 00000 | 0 | 10527 | 445 | | --1 | | LD110300 |
| 67251 | 0 | 00000 | 0 | 10526 | 446 | | --1 | | LD110000 |
| 67252 | +232424215177 | | | | 447 | OCT | 232424215177 | | LD110100 |

| | | | | | | | | | | |
|-------|---------------|-------|---|-------|-----|-------|--------------|-----------------|--|----------|
| 67253 | 0 | 10524 | 0 | 77777 | 448 | | | | | LD111300 |
| | | | | | 449 |)212 | -1,,--1 | | | LD111400 |
| 67254 | 0 | 10523 | 0 | 06733 | 450 | | \$SUBR,,--1 | | | |
| 67255 | 0 | 10521 | 0 | 10522 | 451 | | --1,,--2 | | | |
| 67256 | -3 | 00001 | 0 | 11760 | 452 | TXL | CDDDRX,,1 | | | |
| 67257 | 0 | 10520 | 0 | 07335 | 453 | | PNAME,,--1 | | | LD111500 |
| 67260 | 0 | 00000 | 0 | 10517 | 454 | | --1 | | | LD112000 |
| 67261 | 0 | 00000 | 0 | 10516 | 455 | | --1 | | | LD111700 |
| 67262 | +232424245177 | | | | 456 | OCT | 232424245177 | | | LD111800 |
| | | | | | 457 | * | | | | HAC50320 |
| 67263 | 0 | 10514 | 0 | 77777 | 458 |)PJ32 | -1,,--1 | CHARCOUNT | | HAC50330 |
| 67264 | 0 | 10513 | 0 | 07335 | 459 | | PNAME,,--1 | | | HAC50340 |
| 67265 | 0 | 10506 | 0 | 10512 | 460 | | --1,,--5 | | | HAC50350 |
| 67266 | 0 | 10511 | 0 | 10510 | 461 | | --2,,--1 | | | HAC50360 |
| 67267 | 0 | 00000 | 0 | 10507 | 462 | | --2 | | | HAC50370 |
| 67270 | 233021512346 | | | | 463 | BCI | 1,CHARCO | BCI CHARCOUNT | | HAC50380 |
| 67271 | -244563777777 | | | | 464 | OCT | 644563777777 | | | HAC50390 |
| 67272 | 0 | 10505 | 0 | 10742 | 465 | | APVAL1,,--1 | | | HAC50400 |
| 67273 | 0 | 00000 | 0 | 10504 | 466 | | --1 | | | HAC50410 |
| 67274 | 0 | 00000 | 0 | 10503 | 467 | | --1 | | | |
| 67275 | -0 | 65143 | 1 | 77777 | 468 | MZE | -1,1,-CHACT | | | |
| | | | | | 469 | * | | | | HAC50500 |
| 67276 | 0 | 10501 | 0 | 77777 | 470 |)PJ27 | -1,,--1 | CLEARBUFF | | HAC50510 |
| 67277 | 0 | 10500 | 0 | 06733 | 471 | | SUBR,,--1 | | | HAC50520 |
| 67300 | 0 | 10476 | 0 | 10477 | 472 | | --1,,--2 | | | HAC50530 |
| 67301 | -3 | 00000 | 0 | 12201 | 473 | TXL | CLEAR | | | HAC50540 |
| 67302 | 0 | 10475 | 0 | 07335 | 474 | | PNAME,,--1 | | | HAC50550 |
| 67303 | 0 | 00000 | 0 | 10474 | 475 | | --1 | | | HAC50560 |
| 67304 | 0 | 10472 | 0 | 10473 | 476 | | --1,,--2 | | | HAC50570 |
| 67305 | 234325215122 | | | | 477 | BCI | 1,CLEARB | | | HAC50580 |
| 67306 | 0 | 00000 | 0 | 10471 | 478 | | --1 | | | HAC50590 |
| 67307 | -242626777777 | | | | 479 | OCT | 642626777777 | BCD UFF | | HAC50600 |
| | | | | | 480 | | | | | HAC50610 |
| 67310 | 0 | 10467 | 0 | 77777 | 481 |)PJ6 | -1,,--1 | COMMA (LITERAL) | | HAC50620 |
| 67311 | 0 | 10466 | 0 | 07335 | 482 | | PNAME,,--1 | | | HAC50630 |
| 67312 | 0 | 10463 | 0 | 10465 | 483 | | --1,,--3 | | | HAC50640 |
| 67313 | 0 | 00000 | 0 | 10464 | 484 | | --1 | | | HAC50650 |
| 67314 | +234644442177 | | | | 485 | OCT | 234644442177 | BCD COMMA | | HAC50660 |
| 67315 | 0 | 10462 | 0 | 10742 | 486 | | APVAL1,,--1 | | | HAC50670 |
| 67316 | 0 | 00000 | 0 | 10461 | 487 | | --1 | | | HAC50680 |
| 67317 | 0 | 00000 | 0 | 06222 | 488 | PZE | H73 | | | HAC50690 |
| | | | | | 489 | | | | | HAC50820 |
| 67320 | 0 | 10457 | 0 | 77777 | 490 |)016 | -1,,--1 | | | HAC50830 |
| 67321 | 0 | 10456 | 0 | 10103 | 491 | | FSUBR,,--1 | | | HAC50840 |
| 67322 | 0 | 10454 | 0 | 10455 | 492 | | --1,,--2 | | | HAC50850 |
| 67323 | -3 | 00000 | 0 | 15154 | 493 | TXL | \$EVCON,,0 | | | HAC50860 |
| 67324 | 0 | 10453 | 0 | 07335 | 494 | | PNAME,,--1 | | | HAC50870 |
| 67325 | 0 | 00000 | 0 | 10452 | 495 | | --1 | | | HAC50880 |
| 67326 | 0 | 00000 | 0 | 10451 | 496 | | --1 | | | HAC50890 |
| 67327 | +234645247777 | | | | 497 | OCT | 234645247777 | COND | | HAC50900 |
| | | | | | 498 | | | | | HAC50910 |
| 67330 | 0 | 10447 | 0 | 77777 | 499 |)017 | -1,,--1 | | | HAC50920 |
| 67331 | 0 | 10446 | 0 | 06733 | 500 | | SUBR,,--1 | | | HAC50930 |
| 67332 | 0 | 10444 | 0 | 10445 | 501 | | --1,,--2 | | | HAC50940 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|-----|-------|--------------|----------|----------|
| 67333 | -3 | 00002 | 0 | 03730 | 502 | TXL | CONS,,2 | | HAC50950 |
| 67334 | 0 | 10443 | 0 | 07335 | 503 | | PNAME,,--1 | | |
| 67335 | 0 | 00000 | 0 | 10442 | 504 | | --1 | | HAC51260 |
| 67336 | 0 | 00000 | 0 | 10441 | 505 | | --1 | | HAC51270 |
| 67337 | +234645627777 | | | | 506 | OCT | 234645627777 | CONS | HAC51280 |
| | | | | | 507 | | | | HAC51380 |
| 67340 | 0 | 10437 | 0 | 77777 | 508 | 1019 | -1,,--1 | | HAC51390 |
| 67341 | 0 | 10436 | 0 | 06733 | 509 | | SUBR,,--1 | | HAC51400 |
| 67342 | 0 | 10434 | 0 | 10435 | 510 | | --1,,--2 | | HAC51410 |
| 67343 | -3 | 00001 | 0 | 07343 | 511 | TXL | CP1,,1 | | HAC51420 |
| 67344 | 0 | 10433 | 0 | 07335 | 512 | | PNAME,,--1 | | HAC51430 |
| 67345 | 0 | 00000 | 0 | 10432 | 513 | | --1 | | HAC51440 |
| 67346 | 0 | 00000 | 0 | 10431 | 514 | | --1 | | HAC51450 |
| 67347 | +234701777777 | | | | 515 | OCT | 234701777777 | CP1 | HAC51460 |
| | | | | | 516 | | | | HAC51470 |
| 67350 | 0 | 10427 | 0 | 77777 | 517 | 1020 | -1,,--1 | | HAC51480 |
| 67351 | 0 | 10426 | 0 | 06733 | 518 | | SUBR,,--1 | | LC956800 |
| 67352 | 0 | 10424 | 0 | 10425 | 519 | | --1,,--2 | | LC956900 |
| 67353 | -3 | 00001 | 0 | 04345 | 520 | TXL | \$COPY,,1 | | LC957000 |
| 67354 | 0 | 10423 | 0 | 07335 | 521 | | PNAME,,--1 | | LC957100 |
| 67355 | 0 | 00000 | 0 | 10422 | 522 | | --1 | | LC957200 |
| 67356 | 0 | 00000 | 0 | 10421 | 523 | | --1 | | LC957300 |
| 67357 | +234647707777 | | | | 524 | OCT | 234647707777 | COPY | LC957400 |
| | | | | | 525 | | | | LC957500 |
| 67360 | 0 | 10417 | 0 | 77777 | 526 | 1021 | -1,,--1 | | LC957600 |
| 67361 | 0 | 10416 | 0 | 06733 | 527 | | SUBR,,--1 | | LC957700 |
| 67362 | 0 | 10414 | 0 | 10415 | 528 | | --1,,--2 | | LC957800 |
| 67363 | -3 | 00000 | 0 | 04057 | 529 | TXL | COUNT,,0 | | LC957900 |
| 67364 | 0 | 10413 | 0 | 07335 | 530 | | PNAME,,--1 | | LC958000 |
| 67365 | 0 | 00000 | 0 | 10412 | 531 | | --1 | | LC958100 |
| 67366 | 0 | 00000 | 0 | 10411 | 532 | | --1 | | LC958200 |
| 67367 | +234664456377 | | | | 533 | OCT | 234664456377 | COUNT | LC958300 |
| | | | | | 534 | | | | RDCP0606 |
| 67370 | 0 | 10407 | 0 | 77777 | 535 | 1PJ1 | -1,,--1 | CURCHAR | RDCP0607 |
| 67371 | 0 | 10406 | 0 | 10742 | 536 | | APVAL1,,--1 | | RDCP0608 |
| 67372 | 0 | 10405 | 0 | 65145 | 537 | | -CURC1,,--1 | | RDCP0609 |
| 67373 | 0 | 10404 | 0 | 07335 | 538 | | PNAME,,--1 | | RDCP0611 |
| 67374 | 0 | 10377 | 0 | 10403 | 539 | | --1,,--5 | | RDCP0612 |
| 67375 | 0 | 10401 | 0 | 10402 | 540 | | --1,,--2 | | RDCP0613 |
| 67376 | 236451233021 | | | | 541 | BCD | 1CURCHA | | RDCP0614 |
| 67377 | 0 | 00000 | 0 | 10400 | 542 | | --1 | | RDCP0615 |
| 67400 | -117777777777 | | | | 543 | OCT | 517777777777 | | RDCP0616 |
| 67401 | 0 | 10376 | 0 | 07110 | 544 | | SPECIAL,,--1 | | |
| 67402 | 0 | 00000 | 0 | 65144 | 545 | | -CURC | | |
| | | | | | 546 | | | | RDC80096 |
| 67403 | 0 | 10374 | 0 | 77777 | 547 | 1PJ16 | -1,,--1 | DASH | RDC80097 |
| 67404 | 0 | 10373 | 0 | 10742 | 548 | | APVAL1,,--1 | | RDC80105 |
| 67405 | 0 | 10371 | 0 | 10372 | 549 | PZE | --1,,--2 | | RDCW0014 |
| 67406 | 0 | 00000 | 0 | 06167 | 550 | | H40 | | RDC80107 |
| 67407 | 0 | 10370 | 0 | 07335 | 551 | | PNAME,,--1 | | RDC80098 |
| 67410 | 0 | 00000 | 0 | 10367 | 552 | | --1 | | RDC80106 |
| 67411 | 0 | 00000 | 0 | 10366 | 553 | | --1 | | RDC80100 |
| 67412 | +242162307777 | | | | 554 | OCT | 242162307777 | BCD DASH | RDC80101 |
| | | | | | 555 | | | | RDC80126 |

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|-------|---------------|-------|---|-------|-----|-------|--------------|------------|----------|
| 67413 | 0 | 10364 | 0 | 77777 | 556 | IJ01 | -1,,--1 | | |
| 67414 | 0 | 10363 | 0 | 06733 | 557 | | \$SUBR,,--1 | | |
| 67415 | 0 | 10361 | 0 | 10362 | 558 | | --1,,--2 | | |
| 67416 | -3 | 00002 | 0 | 13512 | 559 | TXL | DIFFER,,2 | | |
| 67417 | 0 | 10360 | 0 | 07335 | 560 | | \$PNAME,,--1 | | |
| 67420 | 0 | 00000 | 0 | 10357 | 561 | | --1 | | |
| 67421 | 0 | 10356 | 0 | 10355 | 562 | | --2,,--1 | | |
| 67422 | 0 | 00000 | 0 | 10354 | 563 | | --2 | | |
| 67423 | 243126262551 | | | | 564 | BCI | 1,DIFFER | | |
| 67424 | +254523257777 | | | | 565 | OCT | 254523257777 | DIFFERENCE | |
| | | | | | 566 | * | | | |
| 67425 | 0 | 10352 | 0 | 77777 | 567 | JPJ19 | -1,,--1 | DIGIT | RDC80127 |
| 67426 | 0 | 10351 | 0 | 06733 | 568 | | SUBR,,--1 | | RDC80132 |
| 67427 | 0 | 10347 | 0 | 10350 | 569 | PZE | --1,,--2 | | RDCW0017 |
| 67430 | -3 | 00001 | 0 | 12337 | 570 | TXL | DIGIT,,1 | | RDC80134 |
| 67431 | 0 | 10346 | 0 | 07335 | 571 | | PNAME,,--1 | | RDC80128 |
| 67432 | 0 | 00000 | 0 | 10345 | 572 | | --1 | | RDC80133 |
| 67433 | 0 | 00000 | 0 | 10344 | 573 | | --1 | | RDC80130 |
| 67434 | +243127316377 | | | | 574 | OCT | 243127316377 | | RDC80131 |
| | | | | | 575 | | | | RDC80050 |
| 67435 | 0 | 10342 | 0 | 77777 | 576 | IJ02 | -1,,--1 | | |
| 67436 | 0 | 10341 | 0 | 06733 | 577 | | \$SUBR,,--1 | | |
| 67437 | 0 | 10337 | 0 | 10340 | 578 | | --1,,--2 | | |
| 67440 | -3 | 00002 | 0 | 13420 | 579 | TXL | DIVIDE,,2 | | |
| 67441 | 0 | 10336 | 0 | 07335 | 580 | | \$PNAME,,--1 | | |
| 67442 | 0 | 00000 | 0 | 10335 | 581 | | --1 | | |
| 67443 | 0 | 00000 | 0 | 10334 | 582 | | --1 | | |
| 67444 | 243165312425 | | | | 583 | BCI | 1,DIVIDE | | |
| | | | | | 584 | * | | | |
| 67445 | 0 | 10332 | 0 | 77777 | 585 | JPJ10 | -1,,--1 | COLLAR | RDC80051 |
| 67446 | 0 | 10331 | 0 | 07335 | 586 | | PNAME,,--1 | | RDC80052 |
| 67447 | 0 | 10326 | 0 | 10330 | 587 | | --1,,--3 | | RDC80053 |
| 67450 | 0 | 00000 | 0 | 10327 | 588 | | --1 | | RDC80054 |
| 67451 | 244643432151 | | | | 589 | BCD | 1DOLLAR | | RDC80055 |
| 67452 | 0 | 10325 | 0 | 10742 | 590 | | APVAL1,,--1 | | RDC80056 |
| 67453 | 0 | 00000 | 0 | 10324 | 591 | | --1 | | RDC80057 |
| 67454 | 0 | 00000 | 0 | 06202 | 592 | | H53 | | RDC80058 |
| | | | | | 593 | * | | | |
| 67455 | 0 | 10322 | 0 | 77777 | 594 | DMPCB | -1,,--1 | | |
| 67456 | 0 | 10321 | 0 | 06733 | 595 | | SUBR,,--1 | | |
| 67457 | 0 | 10317 | 0 | 10320 | 596 | | --1,,--2 | | |
| 67460 | -3 | 00004 | 0 | 10736 | 597 | TXL | DUMPIX,,4 | | |
| 67461 | 0 | 10316 | 0 | 07335 | 598 | | PNAME,,--1 | | |
| 67462 | 0 | 00000 | 0 | 10315 | 599 | | --1 | | |
| 67463 | 0 | 00000 | 0 | 10314 | 600 | | --1 | | |
| 67464 | +246444477777 | | | | 601 | OCT | 246444477777 | DUMP | |
| | | | | | 602 | * | | | RDC80199 |
| 67465 | 0 | 10312 | 0 | 77777 | 603 | JPJ30 | -1,,--1 | ENDREAD | RDC80200 |
| 67466 | 0 | 10311 | 0 | 06733 | 604 | | SUBR,,--1 | | RDC80207 |
| 67467 | 0 | 10307 | 0 | 10310 | 605 | | --1,,--2 | | RDCW0024 |
| 67470 | -3 | 00000 | 0 | 12273 | 606 | TXL | ENDRED | | RDC80209 |
| 67471 | 0 | 10306 | 0 | 07335 | 607 | | PNAME,,--1 | | RDC80201 |
| 67472 | 0 | 00000 | 0 | 10305 | 608 | | --1 | | RDC80208 |
| 67473 | 0 | 10304 | 0 | 10303 | 609 | | --2,,--1 | | RDC80203 |

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|-------|---------------|-------|---|-------|-----|-------|--------------|---------|----------|
| 67474 | 0 | 00000 | 0 | 10302 | 610 | | --2 | | RDC80204 |
| 67475 | 254524512521 | | | 611 | | BCI | 1,ENDREA | ENDREA | RDC80205 |
| 67476 | +247777777777 | | | 612 | | OCT | 247777777777 | D | RDC80206 |
| | | | | 613 | * | | | | RDC80246 |
| 67477 | 0 | 10300 | 0 | 77777 | 614 | JPJ34 | -1,,--1 | EOF | RDC80247 |
| 67500 | 0 | 10277 | 0 | 10742 | 615 | | APVAL1,,--1 | | RDC80252 |
| 67501 | 0 | 10275 | 0 | 10276 | 616 | | --1,,--2 | | |
| 67502 | 0 | 00000 | 0 | 06141 | 617 | | H12 | | RDC80254 |
| 67503 | 0 | 10274 | 0 | 07335 | 618 | | PNAME,,--1 | | RDC80248 |
| 67504 | 0 | 00000 | 0 | 10273 | 619 | | --1 | | RDC80250 |
| 67505 | 0 | 00000 | 0 | 10272 | 620 | | --1 | | RDC80256 |
| 67506 | +254626777777 | | | 621 | | OCT | 254626777777 | BCD EOF | RDCP0259 |
| | | | | 622 | * | | | | RDC80255 |
| 67507 | 0 | 10270 | 0 | 77777 | 623 | JPJ35 | -1,,--1 | | RDC80258 |
| 67510 | 0 | 10267 | 0 | 10742 | 624 | | APVAL1,,--1 | | RDC80263 |
| 67511 | 0 | 10265 | 0 | 10266 | 625 | | --1,,--2 | | |
| 67512 | 0 | 00000 | 0 | 06221 | 626 | | H72 | | RDC80264 |
| 67513 | 0 | 10264 | 0 | 07335 | 627 | | PNAME,,--1 | | RDC80259 |
| 67514 | 0 | 00000 | 0 | 10263 | 628 | | --1 | | RDC80261 |
| 67515 | 0 | 00000 | 0 | 10262 | 629 | | --1 | | RDC80266 |
| 67516 | +254651777777 | | | 630 | | OCT | 254651777777 | | RDCP0510 |
| | | | | 631 | | | | | LC959300 |
| | | | | 632 | | | | | LC959400 |
| 67517 | 0 | 10260 | 0 | 77777 | 633 | 1030 | -1,,--1 | | LC959500 |
| 67520 | 0 | 10257 | 0 | 06733 | 634 | | SUBR,,--1 | | LC959600 |
| 67521 | 0 | 10255 | 0 | 10256 | 635 | | --1,,--2 | | LC959700 |
| 67522 | -3 | 00002 | 0 | 15445 | 636 | TXL | EQP,,2 | | LC959800 |
| 67523 | 0 | 10254 | 0 | 07335 | 637 | | PNAME,,--1 | | |
| 67524 | 0 | 00000 | 0 | 10253 | 638 | | --1 | | LC961400 |
| 67525 | 0 | 00000 | 0 | 10252 | 639 | | --1 | | LC961500 |
| 67526 | +255077777777 | | | 640 | | OCT | 255077777777 | EQ | LC961600 |
| | | | | 641 | | | | | LC961700 |
| 67527 | 0 | 10250 | 0 | 77777 | 642 | JPJ5 | -1,,--1 | EQSIGN | RDC80006 |
| 67530 | 0 | 10247 | 0 | 07335 | 643 | | PNAME,,--1 | | RDC80007 |
| 67531 | 0 | 10244 | 0 | 10246 | 644 | | --1,,--3 | | RDC80008 |
| 67532 | 0 | 00000 | 0 | 10245 | 645 | | --1 | | RDC80009 |
| 67533 | 255062312745 | | | 646 | | BCI | 1,EQSIGN | | RDC80010 |
| 67534 | 0 | 10243 | 0 | 10742 | 647 | | APVAL1,,--1 | | RDC80011 |
| 67535 | 0 | 00000 | 0 | 10242 | 648 | | --1 | | RDC80012 |
| 67536 | 0 | 00000 | 0 | 06142 | 649 | | H13 | | RDC80013 |
| | | | | 650 | | | | | LC962600 |
| 67537 | 0 | 10240 | 0 | 77777 | 651 | 1032 | -1,,--1 | | LC962700 |
| 67540 | 0 | 10237 | 0 | 06733 | 652 | | SUBR,,--1 | | LC962800 |
| 67541 | 0 | 10235 | 0 | 10236 | 653 | | --1,,--2 | | LC962900 |
| 67542 | -3 | 00002 | 0 | 04461 | 654 | TXL | EQUAL,,2 | | LC963000 |
| 67543 | 0 | 10234 | 0 | 07335 | 655 | | PNAME,,--1 | | LC963100 |
| 67544 | 0 | 00000 | 0 | 10233 | 656 | | --1 | | LC963200 |
| 67545 | 0 | 00000 | 0 | 10232 | 657 | | --1 | | LC963300 |
| 67546 | +255064214377 | | | 658 | | OCT | 255064214377 | EQUAL | LC963400 |
| | | | | 659 | | | | | LC963500 |
| 67547 | 0 | 10230 | 0 | 77777 | 660 | 1034 | -1,,--1 | | LC963600 |
| 67550 | 0 | 10227 | 0 | 06733 | 661 | | SUBR,,--1 | | LC963700 |
| 67551 | 0 | 10225 | 0 | 10226 | 662 | | --1,,--2 | | LC963800 |
| 67552 | -3 | 00001 | 0 | 02071 | 663 | TXL | ERRCR1,,1 | | LC963900 |

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|-------|---------------|-------|---|-------|-----|-------|--------------|----------|----------|
| 67553 | 0 | 10224 | 0 | 07335 | 664 | | PNAME,,--1 | | LC964000 |
| 67554 | 0 | 00000 | 0 | 10223 | 665 | | --1 | | LC964100 |
| 67555 | 0 | 00000 | 0 | 10222 | 666 | | --1 | | LC964200 |
| 67556 | +255151465177 | | | | 667 | OCT | 255151465177 | ERROR | LC964300 |
| | | | | | 668 | | | | RDCP0635 |
| 67557 | 0 | 10220 | 0 | 77777 | 669 | JPJ4 | -1,,--1 | ERROR1 | RDCP0636 |
| 67560 | 0 | 10217 | 0 | 06733 | 670 | | SUBR,,--1 | | RDC80000 |
| 67561 | 0 | 10215 | 0 | 10216 | 671 | | PZE --1,,--2 | | RDCW0013 |
| 67562 | -3 | 00000 | 0 | 12346 | 672 | | TXL EROR1,,0 | | RDC80004 |
| 67563 | 0 | 10214 | 0 | 07335 | 673 | | PNAME,,--1 | | RDCP0637 |
| 67564 | 0 | 00000 | 0 | 10213 | 674 | | --1 | | RDC80001 |
| 67565 | 0 | 00000 | 0 | 10212 | 675 | | --1 | | RDCP0639 |
| 67566 | 255151465101 | | | | 676 | BCD | 1ERROR1 | | RDCP0640 |
| | | | | | 677 | * | | | |
| 67567 | 0 | 10210 | 0 | 77777 | 678 | JPJ41 | -1,,--1 | ERRORSET | |
| 67570 | 0 | 10207 | 0 | 06733 | 679 | | SUBR,,--1 | | |
| 67571 | 0 | 10205 | 0 | 10206 | 680 | | --1,,--2 | | |
| 67572 | -3 | 00003 | 0 | 11560 | 681 | TXL | ERRSET,,3 | | |
| 67573 | 0 | 10204 | 0 | 07335 | 682 | | PNAME,,--1 | | |
| 67574 | 0 | 00000 | 0 | 10203 | 683 | | --1 | | |
| 67575 | 0 | 10202 | 0 | 10201 | 684 | | --2,,--1 | | |
| 67576 | 0 | 00000 | 0 | 10200 | 685 | | --2 | | |
| 67577 | 255151465162 | | | | 686 | BCI | 1,ERRORS | | |
| 67600 | +256377777777 | | | | 687 | OCT | 256377777777 | | |
| | | | | | 688 | | | | LC964400 |
| 67601 | 0 | 10176 | 0 | 77777 | 689 | JO35 | -1,,--1 | | LC964500 |
| 67602 | 0 | 10175 | 0 | 06733 | 690 | | SUBR,,--1 | | LC964600 |
| 67603 | 0 | 10173 | 0 | 10174 | 691 | | --1,,--2 | | LC964700 |
| 67604 | -3 | 00002 | 0 | 15454 | 692 | TXL | EVAL,,2 | | LC964800 |
| 67605 | 0 | 10172 | 0 | 07335 | 693 | | PNAME,,--1 | | LC964900 |
| 67606 | 0 | 00000 | 0 | 10171 | 694 | | --1 | | LC965000 |
| 67607 | 0 | 00000 | 0 | 10170 | 695 | | --1 | | LC965100 |
| 67610 | +256521437777 | | | | 696 | OCT | 256521437777 | EVAL | LC965200 |
| | | | | | 697 | | | | LC965300 |
| 67611 | 0 | 10166 | 0 | 77777 | 698 | JO36 | -1,,--1 | | LC965400 |
| 67612 | 0 | 10165 | 0 | 06733 | 699 | | \$SUBR,,--1 | | LC965500 |
| 67613 | 0 | 10163 | 0 | 10164 | 700 | | --1,,--2 | | LC965600 |
| 67614 | -3 | 00002 | 0 | 15774 | 701 | TXL | \$EVLIS,,2 | | LC965700 |
| 67615 | 0 | 10162 | 0 | 07335 | 702 | | \$PNAME,,--1 | | LC965800 |
| 67616 | 0 | 00000 | 0 | 10161 | 703 | | --1 | | LC965900 |
| 67617 | 0 | 00000 | 0 | 10160 | 704 | | --1 | | LC966000 |
| 67620 | +256543316277 | | | | 705 | OCT | 256543316277 | EVLIS | LC966100 |
| | | | | | 706 | | | | LC966200 |
| 67621 | 0 | 10156 | 0 | 77777 | 707 | JO37 | -1,,--1 | | LC966300 |
| 67622 | 0 | 10155 | 0 | 07335 | 708 | | PNAME,,--1 | | LC966400 |
| 67623 | 0 | 00000 | 0 | 10154 | 709 | | --1 | | LC966500 |
| 67624 | 0 | 00000 | 0 | 10153 | 710 | | --1 | | LC966600 |
| 67625 | +256747517777 | | | | 711 | OCT | 256747517777 | | LC966700 |
| | | | | | 712 | | | | LC966800 |
| 67626 | 0 | 10151 | 0 | 77777 | 713 | JO38 | -1,,--1 | | LC966900 |
| 67627 | 0 | 10150 | 0 | 06733 | 714 | | SUBR,,--1 | | LC967000 |
| 67630 | 0 | 10146 | 0 | 10147 | 715 | | --1,,--2 | | LC967100 |
| 67631 | -3 | 00002 | 0 | 13530 | 716 | TXL | EXPT,,2 | | LC967200 |
| 67632 | 0 | 10145 | 0 | 07335 | 717 | | PNAME,,--1 | | LC967300 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|-----|------|--------------|--------|----------|
| 67633 | 0 | 00000 | 0 | 10144 | 718 | | --1 | | LC967400 |
| 67634 | 0 | 00000 | 0 | 10143 | 719 | | --1 | | LC967500 |
| 67635 | +256747637777 | | | 720 | | OCT | 256747637777 | EXPT | LC967600 |
| | | | | 721 | | | | | LC968800 |
| 67636 | 0 | 10141 | 0 | 77777 | 722 | 1040 | -1,--1 | | LC968900 |
| 67637 | 0 | 10140 | 0 | 07335 | 723 | | PNAME,--1 | | LC969000 |
| 67640 | 0 | 00000 | 0 | 10137 | 724 | | --1 | | LC969100 |
| 67641 | 0 | 00000 | 0 | 10136 | 725 | | --1 | | LC969200 |
| 67642 | +262567475177 | | | 726 | | OCT | 262567475177 | FEXPR | LC969300 |
| | | | | 727 | | | | | LC969400 |
| 67643 | 0 | 10134 | 0 | 77777 | 728 | 1041 | -1,--1 | | LC969500 |
| 67644 | 0 | 10133 | 0 | 07335 | 729 | | PNAME,--1 | | LC969600 |
| 67645 | 0 | 00000 | 0 | 10132 | 730 | | --1 | | LC969700 |
| 67646 | 0 | 00000 | 0 | 10131 | 731 | | --1 | | LC969800 |
| 67647 | +263167777777 | | | 732 | | OCT | 263167777777 | FIX | LC969900 |
| | | | | 733 | | | | | LC970000 |
| 67650 | 0 | 10127 | 0 | 77777 | 734 | 1111 | -1,--1 | | RDC80397 |
| 67651 | 0 | 10126 | 0 | 06733 | 735 | | \$SUBR,--1 | | RDC80398 |
| 67652 | 0 | 10124 | 0 | 10125 | 736 | | --1,--2 | | RDC80399 |
| 67653 | -3 | 00001 | 0 | 14466 | 737 | TXL | FIXP,,1 | | RDC80400 |
| 67654 | 0 | 10123 | 0 | 07335 | 738 | | \$PNAME,--1 | | RDC80401 |
| 67655 | 0 | 00000 | 0 | 10122 | 739 | | --1 | | RDC80402 |
| 67656 | 0 | 00000 | 0 | 10121 | 740 | | --1 | | RDC80403 |
| 67657 | +263167477777 | | | 741 | | OCT | 263167477777 | FIXP | RDC80404 |
| | | | | 742 * | | | | | RDC80405 |
| 67660 | 0 | 10117 | 0 | 77777 | 743 | 1042 | -1,--1 | | LC970100 |
| 67661 | 0 | 10116 | 0 | 07335 | 744 | | PNAME,--1 | | LC970200 |
| 67662 | 0 | 00000 | 0 | 10115 | 745 | | --1 | | LC970300 |
| 67663 | 0 | 00000 | 0 | 10114 | 746 | | --1 | | LC970400 |
| 67664 | +264346216377 | | | 747 | | OCT | 264346216377 | FLOAT | |
| | | | | 748 | | | | | LC970600 |
| 67665 | 0 | 10112 | 0 | 77777 | 749 | 1112 | -1,--1 | | RDC80406 |
| 67666 | 0 | 10111 | 0 | 06733 | 750 | | \$SUBR,--1 | | RDC80407 |
| 67667 | 0 | 10107 | 0 | 10110 | 751 | | --1,--2 | | RDC80408 |
| 67670 | -3 | 00001 | 0 | 14453 | 752 | TXL | FLOATP,,1 | | RDC80409 |
| 67671 | 0 | 10106 | 0 | 07335 | 753 | | \$PNAME,--1 | | RDC80410 |
| 67672 | 0 | 00000 | 0 | 10105 | 754 | | --1 | | RDC80411 |
| 67673 | 0 | 00000 | 0 | 10104 | 755 | | --1 | | RDC80412 |
| 67674 | 264346216347 | | | 756 | | BCI | 1,FLOATP | | RDC80413 |
| | | | | 757 * | | | | | RDC80414 |
| 67675 | 0 | 10102 | 0 | 77777 | 758 | 1043 | -1,--1 | | LC970700 |
| 67676 | 0 | 10101 | 0 | 07335 | 759 | | PNAME,--1 | | LC970800 |
| 67677 | 0 | 00000 | 0 | 10100 | 760 | | --1 | | LC970900 |
| 67700 | 0 | 00000 | 0 | 10077 | 761 | | --1 | | LC971000 |
| 67701 | +266264225177 | | | 762 | | OCT | 266264225177 | FSUBR | LC971100 |
| | | | | 763 | | | | | LC971200 |
| 67702 | 0 | 10075 | 0 | 77777 | 764 | 1044 | -1,--1 | | LC971300 |
| 67703 | 0 | 10074 | 0 | 07335 | 765 | | \$PNAME,--1 | | LC971400 |
| 67704 | 0 | 00000 | 0 | 10073 | 766 | | --1 | | LC971500 |
| 67705 | 0 | 00000 | 0 | 10072 | 767 | | --1 | | LC971600 |
| 67706 | 266445215127 | | | 768 | | BCD | IFUNARG | FUNARG | LC971700 |
| | | | | 769 | | | | | LC971800 |
| 67707 | 0 | 10070 | 0 | 77777 | 770 | 1045 | -1,--1 | | LC971900 |
| 67710 | 0 | 10067 | 0 | 10103 | 771 | | FSUBR,--1 | | LC972000 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|-----|------|--------------|----------------|----------|
| 67711 | 0 | 10065 | 0 | 10066 | 772 | | --1,,--2 | | LC972100 |
| 67712 | -3 | 00000 | 0 | 15250 | 773 | TXL | \$LAMP,,0 | | LC972200 |
| 67713 | 0 | 10064 | 0 | 07335 | 774 | | PNAME,,--1 | | LC972300 |
| 67714 | 0 | 00000 | 0 | 10063 | 775 | | --1 | | LC972400 |
| 67715 | 0 | 10061 | 0 | 10062 | 776 | | --1,,--2 | | LC972500 |
| 67716 | 266445236331 | | | 777 | | BCD | 1FUNCTI | | LC972600 |
| 67717 | 0 | 00000 | 0 | 10060 | 778 | | --1 | | LC972700 |
| 67720 | -064577777777 | | | 779 | | OCT | 464577777777 | ON | LC972800 |
| | | | | 780 | | | | | LC972900 |
| 67721 | 0 | 10056 | 0 | 77777 | 781 | 1046 | -1,,--1 | | LC973000 |
| 67722 | 0 | 10055 | 0 | 06733 | 782 | | \$SUBR,,--1 | | LC973100 |
| 67723 | 0 | 10053 | 0 | 10054 | 783 | | --1,,--2 | | LC973200 |
| 67724 | -3 | 00000 | 0 | 10174 | 784 | TXL | GENSYM,,0 | | LC973300 |
| 67725 | 0 | 10052 | 0 | 07335 | 785 | | \$PNAME,,--1 | | LC973400 |
| 67726 | 0 | 00000 | 0 | 10051 | 786 | | --1 | | LC973500 |
| 67727 | 0 | 00000 | 0 | 10050 | 787 | | --1 | | LC973600 |
| 67730 | 272545627044 | | | 788 | | BCD | 1GENSYM | | LC973700 |
| | | | | 789 | | | | | LC973800 |
| 67731 | 0 | 10046 | 0 | 77777 | 790 | 1231 | -1,,--1 | | LD127000 |
| 67732 | 0 | 10045 | 0 | 06733 | 791 | | SUBR,,--1 | | LD127100 |
| 67733 | 0 | 10043 | 0 | 10044 | 792 | | --1,,--2 | | LD127200 |
| 67734 | -3 | 00002 | 0 | 11771 | 793 | TXL | C\$GET,,2 | | LD127300 |
| 67735 | 0 | 10042 | 0 | 07335 | 794 | | PNAME,,--1 | | LD127400 |
| 67736 | 0 | 00000 | 0 | 10041 | 795 | | --1 | | LD127500 |
| 67737 | 0 | 00000 | 0 | 10040 | 796 | | --1 | | LD127600 |
| 67740 | +272563777777 | | | 797 | | OCT | 272563777777 | GET | LD127700 |
| | | | | 798 | | | | | LD127800 |
| 67741 | 0 | 10036 | 0 | 77777 | 799 | 1047 | -1,,--1 | | LC973900 |
| 67742 | 0 | 10035 | 0 | 10103 | 800 | | \$FSUBR,,--1 | | |
| 67743 | 0 | 10033 | 0 | 10034 | 801 | | --1,,--2 | | |
| 67744 | -3 | 00001 | 0 | 16276 | 802 | TXL | G0G0G0,,1 | GO TO GO FSUBR | |
| 67745 | 0 | 10032 | 0 | 07335 | 803 | | PNAME,,--1 | | |
| 67746 | 0 | 00000 | 0 | 10031 | 804 | | --1 | | LC974900 |
| 67747 | 0 | 00000 | 0 | 10030 | 805 | | --1 | | LC975000 |
| 67750 | +274677777777 | | | 806 | | OCT | 274677777777 | GO | LC975100 |
| | | | | 807 | | | | | LC975200 |
| 67751 | 0 | 10026 | 0 | 77777 | 808 | 113 | -1,,--1 | | RDC80323 |
| 67752 | 0 | 10025 | 0 | 06733 | 809 | | \$SUBR,,--1 | | RDC80324 |
| 67753 | 0 | 10023 | 0 | 10024 | 810 | | --1,,--2 | | RDC80325 |
| 67754 | -3 | 00002 | 0 | 14433 | 811 | TXL | GRTRTP,,2 | | RDC80326 |
| 67755 | 0 | 10022 | 0 | 07335 | 812 | | \$PNAME,,--1 | | RDC80327 |
| 67756 | 0 | 00000 | 0 | 10021 | 813 | | --1 | | RDC80328 |
| 67757 | 0 | 10020 | 0 | 10017 | 814 | | --2,,--1 | | RDC80329 |
| 67760 | 0 | 00000 | 0 | 10016 | 815 | | --2 | | RDC80330 |
| 67761 | 275125216325 | | | 816 | | BCI | 1,GREATE | | RDC80331 |
| 67762 | -114777777777 | | | 817 | | OCT | 514777777777 | GREATERP | RDC80332 |
| | | | | 818 | | | | | LC976700 |
| 67763 | 0 | 10014 | 0 | 77777 | 819 | 1052 | -1,,--1 | | LC976800 |
| 67764 | 0 | 10013 | 0 | 06733 | 820 | | SUBR,,--1 | | LC976900 |
| 67765 | 0 | 10011 | 0 | 10012 | 821 | | --1,,--2 | | LC977000 |
| 67766 | -3 | 00001 | 0 | 06420 | 822 | TXL | INTRN1,,1 | | LC977100 |
| 67767 | 0 | 10010 | 0 | 07335 | 823 | | PNAME,,--1 | | LC977200 |
| 67770 | 0 | 00000 | 0 | 10007 | 824 | | --1 | | LC977300 |
| 67771 | 0 | 00000 | 0 | 10006 | 825 | | --1 | | LC977400 |

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|-------|------------------|-------|------|------------------|-----------|----------|
| 67772 | 314563255145 | 826 | | BCD IINTERN | | LC977500 |
| | | 827 | | | | LC977600 |
| 67773 | 0 10004 0 77777 | 828 | 1054 | -1,,--1 | | LC977700 |
| 67774 | 0 10003 0 10103 | 829 | | FSUBR,,--1 | | LC977800 |
| 67775 | 0 10001 0 10002 | 830 | | --1,,--2 | | LC977900 |
| 67776 | -3 00000 0 15264 | 831 | | TXL LABP,,0 | | LC978000 |
| 67777 | 0 10000 0 07335 | 832 | | PNAME,,--1 | | LC978100 |
| 70000 | 0 00000 0 07777 | 833 | | --1 | | LC978200 |
| 70001 | 0 00000 0 07776 | 834 | | --1 | | LC978300 |
| 70002 | -032122254377 | 835 | | OCT 432122254377 | LABEL | LC978400 |
| | | 836 | | | | LC978500 |
| 70003 | 0 07774 0 77777 | 837 | 1055 | -1,,--1 | | LC978600 |
| 70004 | 0 07773 0 07335 | 838 | | PNAME,,--1 | | LC978700 |
| 70005 | 0 00000 0 07772 | 839 | | --1 | | LC978800 |
| 70006 | 0 00000 0 07771 | 840 | | --1 | | LC978900 |
| 70007 | 432144222421 | 841 | | BCD ILAMBDA | | LC979000 |
| | | 842 * | | | | |
| 70010 | 0 07767 0 77777 | 843 | | LAP -1,,--1 | | |
| 70011 | 0 07766 0 06733 | 844 | | SUBR,,--1 | | |
| 70012 | 0 07764 0 07765 | 845 | | --1,,--2 | | |
| 70013 | -3 00002 0 16321 | 846 | | TXL C\$LAP,,2 | | |
| 70014 | 0 07763 0 07335 | 847 | | PNAME,,--1 | | |
| 70015 | 0 00000 0 07762 | 848 | | --1 | | |
| 70016 | 0 00000 0 07761 | 849 | | --1 | | |
| 70017 | -032147777777 | 850 | | OCT 432147777777 | LAP | |
| | | 851 * | | | | RDC70300 |
| 70020 | 0 07757 0 77777 | 852 | PVV1 | -1,,--1 | LEFTSHIFT | RDC70310 |
| 70021 | 0 07756 0 06733 | 853 | | SUBR,,--1 | | RDC70320 |
| 70022 | 0 07754 0 07755 | 854 | | --1,,--2 | | RDC70330 |
| 70023 | -3 00002 0 12760 | 855 | | TXL LSHIFT,,2 | | |
| 70024 | 0 07753 0 07335 | 856 | | PNAME,,--1 | | RDC70350 |
| 70025 | 0 00000 0 07752 | 857 | | --1 | | RDC70360 |
| 70026 | 0 07751 0 07750 | 858 | | --2,,--1 | | RDC70370 |
| 70027 | 0 00000 0 07747 | 859 | | --2 | | RDC70380 |
| 70030 | 432526636230 | 860 | | BCI 1,LEFTSH | | RDC70390 |
| 70031 | +312663777777 | 861 | | OCT 312663777777 | | RDC70400 |
| | | 862 | | | | LC979100 |
| 70032 | 0 07745 0 77777 | 863 | II4 | -1,,--1 | | RDC80334 |
| 70033 | 0 07744 0 06733 | 864 | | \$SUBR,,--1 | | RDC80335 |
| 70034 | 0 07742 0 07743 | 865 | | --1,,--2 | | RDC80336 |
| 70035 | -3 00002 0 14443 | 866 | | TXL LESSTP,,2 | | RDC80337 |
| 70036 | 0 07741 0 07335 | 867 | | \$PNAME,,--1 | | RDC80338 |
| 70037 | 0 00000 0 07740 | 868 | | --1 | | RDC80339 |
| 70040 | 0 00000 0 07737 | 869 | | --1 | | RDC80340 |
| 70041 | -032562624777 | 870 | | OCT 432562624777 | LESSP | RDC80341 |
| | | 871 * | | | | RDC80342 |
| 70042 | 0 07735 0 77777 | 872 | 1057 | -1,,--1 | | LC979200 |
| 70043 | 0 07734 0 10103 | 873 | | FSUBR,,--1 | | LC979300 |
| 70044 | 0 07732 0 07733 | 874 | | --1,,--2 | | LC979400 |
| 70045 | -3 00000 0 15774 | 875 | | TXL EVLIS,,0 | | LC979500 |
| 70046 | 0 07731 0 07335 | 876 | | PNAME,,--1 | | LC979600 |
| 70047 | 0 00000 0 07730 | 877 | | --1 | | LC979700 |
| 70050 | 0 00000 0 07727 | 878 | | --1 | | LC979800 |
| 70051 | -033162637777 | 879 | | OCT 433162637777 | LIST | LC979900 |

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|-------|---------------|-------|---|-------|-----|-------|--------------|-----------|----------|
| | | | | 880 | | | | RDC80108 | |
| 70052 | 0 | 07725 | 0 | 77777 | 881 | 1PJ17 | -1,,--1 | LITER | RDC80109 |
| 70053 | 0 | 07724 | 0 | 06733 | 882 | | SUBR,,--1 | | RDC80114 |
| 70054 | 0 | 07722 | 0 | 07723 | 883 | PZE | --1,,--2 | | RDCW0015 |
| 70055 | -3 | 00001 | 0 | 12321 | 884 | TXL | LITER,,1 | | RDC80116 |
| 70056 | 0 | 07721 | 0 | 07335 | 885 | | PNAME,,--1 | | RDC80110 |
| 70057 | 0 | 00000 | 0 | 07720 | 886 | | --1 | | RDC80115 |
| 70060 | 0 | 00000 | 0 | 07717 | 887 | | --1 | | RDC80112 |
| 70061 | -033163255177 | | | | 888 | OCT | 433163255177 | | RDC80113 |
| | | | | 889 | | | | | LC980000 |
| 70062 | 0 | 07715 | 0 | 77777 | 890 | 1234A | -1,,--1 | | LC980100 |
| 70063 | 0 | 07714 | 0 | 06733 | 891 | | SUBR,,--1 | | LC980200 |
| 70064 | 0 | 07712 | 0 | 07713 | 892 | | --1,,--2 | | LC980300 |
| 70065 | -3 | 00000 | 0 | 77724 | 893 | TXL | LOADER,,0 | | LC980400 |
| 70066 | 0 | 07711 | 0 | 07335 | 894 | | PNAME,,--1 | | LC980500 |
| 70067 | 0 | 00000 | 0 | 07710 | 895 | | --1 | | LC980600 |
| 70070 | 0 | 00000 | 0 | 07707 | 896 | | --1 | | LC980700 |
| 70071 | -034621247777 | | | | 897 | OCT | 434621247777 | LOAD | LC980800 |
| | | | | 898 * | | | | | RDC80276 |
| 70072 | 0 | 07705 | 0 | 77777 | 899 | 1PJ37 | -1,,--1 | LOGAND | RDC80277 |
| 70073 | 0 | 07704 | 0 | 10103 | 900 | | FSUBR,,--1 | | RDC80282 |
| 70074 | 0 | 07702 | 0 | 07703 | 901 | | --1,,--2 | | RDCW0026 |
| 70075 | -3 | 00000 | 0 | 12676 | 902 | TXL | LOGAND | | RDC80284 |
| 70076 | 0 | 07701 | 0 | 07335 | 903 | | PNAME,,--1 | | RDC80278 |
| 70077 | 0 | 00000 | 0 | 07700 | 904 | | --1 | | RDC80283 |
| 70100 | 0 | 00000 | 0 | 07677 | 905 | | --1 | | RDC80280 |
| 70101 | 434627214524 | | | | 906 | BCI | 1,LOGAND | | RDC80281 |
| | | | | 907 * | | | | | RDC80265 |
| 70102 | 0 | 07675 | 0 | 77777 | 908 | 1PJ36 | -1,,--1 | LOGOR | RDC80268 |
| 70103 | 0 | 07674 | 0 | 10103 | 909 | | FSUBR,,--1 | | RDC80273 |
| 70104 | 0 | 07672 | 0 | 07673 | 910 | | --1,,--2 | | RDCW0025 |
| 70105 | -3 | 00000 | 0 | 12662 | 911 | TXL | LOGOR | | RDC80275 |
| 70106 | 0 | 07671 | 0 | 07335 | 912 | | PNAME,,--1 | | RDC80269 |
| 70107 | 0 | 00000 | 0 | 07670 | 913 | | --1 | | RDC80274 |
| 70110 | 0 | 00000 | 0 | 07667 | 914 | | --1 | | RDC80271 |
| 70111 | -034627465177 | | | | 915 | OCT | 434627465177 | BCD LOGOR | RDC80272 |
| | | | | 916 * | | | | | |
| 70112 | 0 | 07665 | 0 | 77777 | 917 | 1PJ38 | -1,,--1 | LOGXOR | |
| 70113 | 0 | 07664 | 0 | 10103 | 918 | | FSUBR,,--1 | | RDC80293 |
| 70114 | 0 | 07662 | 0 | 07663 | 919 | | --1,,--2 | | RDCW0027 |
| 70115 | -3 | 00000 | 0 | 12712 | 920 | TXL | LOGXOR,,0 | | |
| 70116 | 0 | 07661 | 0 | 07335 | 921 | | PNAME,,--1 | | RDC80287 |
| 70117 | 0 | 00000 | 0 | 07660 | 922 | | --1 | | |
| 70120 | 0 | 00000 | 0 | 07657 | 923 | | --1 | | |
| 70121 | 434627674651 | | | | 924 | BCI | 1,LOGXOR | | |
| | | | | 925 | | | | | RDC80023 |
| 70122 | 0 | 07655 | 0 | 77777 | 926 | 1PJ7 | -1,,--1 | LPAR | RDC80024 |
| 70123 | 0 | 07654 | 0 | 07335 | 927 | | PNAME,,--1 | | RDC80025 |
| 70124 | 0 | 07651 | 0 | 07653 | 928 | | --1,,--3 | | RDC80026 |
| 70125 | 0 | 00000 | 0 | 07652 | 929 | | --1 | | RDC80027 |
| 70126 | -034721517777 | | | | 930 | OCT | 434721517777 | BCD LPAR | RDC80028 |
| 70127 | 0 | 07650 | 0 | 10742 | 931 | | APVAL1,,--1 | | RDC80029 |
| 70130 | 0 | 00000 | 0 | 07647 | 932 | | --1 | | RDC80030 |
| 70131 | 0 | 00000 | 0 | 06223 | 933 | | H74 | | RDC80031 |

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|-------|---------------|-------|---|-------|-------|-------|--------------|---------|----------|
| | | | | 934 * | | | | | |
| 70132 | 0 | 07645 | 0 | 77777 | 935 | 1065 | -1,,--1 | | LC985200 |
| 70133 | 0 | 07644 | 0 | 06733 | 936 | | SUBR,,--1 | | LC985300 |
| 70134 | 0 | 07642 | 0 | 07643 | 937 | | --1,,--2 | | LC985400 |
| 70135 | -3 | 00002 | 0 | 07620 | 938 | TXL | MAPCAR,,2 | | LC985500 |
| 70136 | 0 | 07641 | 0 | 07335 | 939 | | PNAME,,--1 | | LC985600 |
| 70137 | 0 | 00000 | 0 | 07640 | 940 | | --1 | | LC985700 |
| 70140 | 0 | 00000 | 0 | 07637 | 941 | | --1 | | LC985800 |
| 70141 | -042147777777 | | | | 942 | OCT | 442147777777 | MAP | LC985900 |
| | | | | | 943 | | | | LC986000 |
| 70142 | 0 | 07635 | 0 | 77777 | 944 | 1069B | -1,,--1 | | LC986100 |
| 70143 | 0 | 07634 | 0 | 06733 | 945 | | SUBR,,--1 | | LC986200 |
| 70144 | 0 | 07632 | 0 | 07633 | 946 | | --1,,--2 | | LC986300 |
| 70145 | -3 | 00002 | 0 | 07645 | 947 | TXL | MAPCON,,2 | | LC986400 |
| 70146 | 0 | 07631 | 0 | 07335 | 948 | | PNAME,,--1 | | LC986500 |
| 70147 | 0 | 00000 | 0 | 07630 | 949 | | --1 | | LC986600 |
| 70150 | 0 | 00000 | 0 | 07627 | 950 | | --1 | | LC986700 |
| 70151 | 442147234645 | | | | 951 | BCD | 1MAPCON | | LC986800 |
| | | | | | 952 | | | | LC986900 |
| 70152 | 0 | 07625 | 0 | 77777 | 953 | 1069A | -1,,--1 | | LC987000 |
| 70153 | 0 | 07624 | 0 | 06733 | 954 | | SUBR,,--1 | | LC987100 |
| 70154 | 0 | 07622 | 0 | 07623 | 955 | | --1,,--2 | | LC987200 |
| 70155 | -3 | 00002 | 0 | 04214 | 956 | TXL | MAPLIS,,2 | | LC987300 |
| 70156 | 0 | 07621 | 0 | 07335 | 957 | | PNAME,,--1 | | LC987400 |
| 70157 | 0 | 00000 | 0 | 07620 | 958 | | --1 | | LC987500 |
| 70160 | 0 | 07617 | 0 | 07616 | 959 | | --2,,--1 | | LC987600 |
| 70161 | 0 | 00000 | 0 | 07615 | 960 | | --2 | | LC987700 |
| 70162 | 442147433162 | | | | 961 | BCD | 1MAPLIS | | LC987800 |
| 70163 | -237777777777 | | | | 962 | OCT | 637777777777 | MAPLIST | LC987900 |
| | | | | | 963 | | | | LC988000 |
| 70164 | 0 | 07613 | 0 | 77777 | 964 | 117 | -1,,--1 | | RDC80361 |
| 70165 | 0 | 07612 | 0 | 10103 | 965 | | \$FSUBR,,--1 | | RDC80362 |
| 70166 | 0 | 07610 | 0 | 07611 | 966 | | --1,,--2 | | RDC80363 |
| 70167 | -3 | 00002 | 0 | 14150 | 967 | TXL | MAX,,2 | | RDC80364 |
| 70170 | 0 | 07607 | 0 | 07335 | 968 | | \$PNAME,,--1 | | RDC80365 |
| 70171 | 0 | 00000 | 0 | 07606 | 969 | | --1 | | RDC80366 |
| 70172 | 0 | 00000 | 0 | 07605 | 970 | | --1 | | RDC80367 |
| 70173 | -042167777777 | | | | 971 | OCT | 442167777777 | MAX | RDC80368 |
| | | | | | 972 * | | | | RDC80369 |
| 70174 | 0 | 07603 | 0 | 77777 | 973 | 118 | -1,,--1 | | RDC80370 |
| 70175 | 0 | 07602 | 0 | 10103 | 974 | | \$FSUBR,,--1 | | RDC80371 |
| 70176 | 0 | 07600 | 0 | 07601 | 975 | | --1,,--2 | | RDC80372 |
| 70177 | -3 | 00002 | 0 | 14142 | 976 | TXL | MIN,,2 | | RDC80373 |
| 70200 | 0 | 07577 | 0 | 07335 | 977 | | \$PNAME,,--1 | | RDC80374 |
| 70201 | 0 | 00000 | 0 | 07576 | 978 | | --1 | | RDC80375 |
| 70202 | 0 | 00000 | 0 | 07575 | 979 | | --1 | | RDC80376 |
| 70203 | -043145777777 | | | | 980 | OCT | 443145777777 | MIN | RDC80377 |
| | | | | | 981 * | | | | RDC80378 |
| 70204 | 0 | 07573 | 0 | 77777 | 982 | 1070 | -1,,--1 | | LC990500 |
| 70205 | 0 | 07572 | 0 | 06733 | 983 | | \$SUBR,,--1 | | RDC80454 |
| 70206 | 0 | 07570 | 0 | 07571 | 984 | | --1,,--2 | | RDC80455 |
| 70207 | -3 | 00001 | 0 | 14624 | 985 | TXL | MNSPRG,,1 | | RDC80456 |
| 70210 | 0 | 07567 | 0 | 07335 | 986 | | \$PNAME,,--1 | | RDC80457 |
| 70211 | 0 | 00000 | 0 | 07566 | 987 | | --1 | | RDC80458 |

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| 70212 | 0 | 00000 | 0 | 07565 | 988 | | --1 | | RDC80459 |
| 70213 | -043145646277 | | | | 989 | OCT | 443145646277 | MINUS | RDC80460 |
| | | | | | 990 | * | | | RDC80461 |
| 70214 | 0 | 07563 | 0 | 77777 | 991 | II16 | -1,,--1 | | RDC80444 |
| 70215 | 0 | 07562 | 0 | 06733 | 992 | | \$SUBR,,--1 | | RDC80445 |
| 70216 | 0 | 07560 | 0 | 07561 | 993 | | --1,,--2 | | RDC80446 |
| 70217 | -3 | 00001 | 0 | 14500 | 994 | TXL | MINUSP,,1 | | RDC80447 |
| 70220 | 0 | 07557 | 0 | 07335 | 995 | | \$PNAME,,--1 | | RDC80448 |
| 70221 | 0 | 00000 | 0 | 07556 | 996 | | --1 | | RDC80449 |
| 70222 | 0 | 00000 | 0 | 07555 | 997 | | --1 | | RDC80450 |
| 70223 | 443145646247 | | | | 998 | BCI | 1,MINUSP | | RDC80451 |
| | | | | | 999 | * | | | RDC80452 |
| | | | | | 1000 | * | | | RDC80173 |
| 70224 | 0 | 07553 | 0 | 77777 | 1001 | 1PJ26 | -1,,--1 | MKNAM | RDC80174 |
| 70225 | 0 | 07552 | 0 | 06733 | 1002 | | SUBR,,--1 | | RDC80179 |
| 70226 | 0 | 07550 | 0 | 07551 | 1003 | | --1,,--2 | | RDCW0022 |
| 70227 | -3 | 00000 | 0 | 12147 | 1004 | TXL | MKNAM | | RDC80181 |
| 70230 | 0 | 07547 | 0 | 07335 | 1005 | | PNAME,,--1 | | RDC80175 |
| 70231 | 0 | 00000 | 0 | 07546 | 1006 | | --1 | | RDC80180 |
| 70232 | 0 | 00000 | 0 | 07545 | 1007 | | --1 | | RDC80177 |
| 70233 | -044245214477 | | | | 1008 | OCT | 444245214477 | BCD MKNAM | RDC80178 |
| | | | | | 1009 | | | | LC991000 |
| 70234 | 0 | 07543 | 0 | 77777 | 1010 | 1071 | -1,,--1 | | LC991100 |
| 70235 | 0 | 07542 | 0 | 06733 | 1011 | | SUBR,,--1 | | LC991200 |
| 70236 | 0 | 07540 | 0 | 07541 | 1012 | | --1,,--2 | | LC991300 |
| 70237 | -3 | 00002 | 0 | 07675 | 1013 | TXL | NCONC,,2 | | LC991400 |
| 70240 | 0 | 07537 | 0 | 07335 | 1014 | | PNAME,,--1 | | LC991500 |
| 70241 | 0 | 00000 | 0 | 07536 | 1015 | | --1 | | LC991600 |
| 70242 | 0 | 00000 | 0 | 07535 | 1016 | | --1 | | LC991700 |
| 70243 | -052346452377 | | | | 1017 | OCT | 452346452377 | NCONC | LC991800 |
| | | | | | 1018 | | | | LC991900 |
| 70244 | 0 | 07533 | 0 | 77777 | 1019 | 1074 | -1,,--1 | | LC994900 |
| 70245 | 0 | 07532 | 0 | 06733 | 1020 | | \$SUBR,,--1 | | LC995000 |
| 70246 | 0 | 07530 | 0 | 07531 | 1021 | | --1,,--2 | | LC995100 |
| 70247 | -3 | 00001 | 0 | 10150 | 1022 | TXL | NOTS,,1 | | LC995200 |
| 70250 | 0 | 07527 | 0 | 07335 | 1023 | | \$PNAME,,--1 | | LC995300 |
| 70251 | 0 | 00000 | 0 | 07526 | 1024 | | --1 | | LC995400 |
| 70252 | 0 | 00000 | 0 | 07525 | 1025 | | --1 | | LC995500 |
| 70253 | -054663777777 | | | | 1026 | OCT | 454663777777 | NOT | LC995600 |
| | | | | | 1027 | | | | LC995700 |
| 70254 | 0 | 07523 | 0 | 77777 | 1028 | 1075 | -1,,--1 | | LC995800 |
| 70255 | 0 | 07522 | 0 | 06733 | 1029 | | SUBR,,--1 | | LC995900 |
| 70256 | 0 | 07520 | 0 | 07521 | 1030 | | --1,,--2 | | LC996000 |
| 70257 | -3 | 00001 | 0 | 15243 | 1031 | TXL | NULLP,,1 | | LC996100 |
| 70260 | 0 | 07517 | 0 | 07335 | 1032 | | PNAME,,--1 | | |
| 70261 | 0 | 00000 | 0 | 07516 | 1033 | | --1 | | LC997300 |
| 70262 | 0 | 00000 | 0 | 07515 | 1034 | | --1 | | LC997400 |
| 70263 | -056443437777 | | | | 1035 | OCT | 456443437777 | NULL | LC997500 |
| | | | | | 1036 | | | | LC997600 |
| 70264 | 0 | 07513 | 0 | 77777 | 1037 | II13 | -1,,--1 | | RDC80415 |
| 70265 | 0 | 07512 | 0 | 06733 | 1038 | | \$SUBR,,--1 | | RDC80416 |
| 70266 | 0 | 07510 | 0 | 07511 | 1039 | | --1,,--2 | | RDC80417 |
| 70267 | -3 | 00001 | 0 | 14445 | 1040 | TXL | NUMBRP,,1 | | RDC80418 |
| 70270 | 0 | 07507 | 0 | 07335 | 1041 | | \$PNAME,,--1 | | RDC80419 |

| | | | | | | | | | |
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| 70271 | 0 | 00000 | 0 | 07506 | 1042 | --1 | | | RDC80420 |
| 70272 | 0 | 07505 | 0 | 07504 | 1043 | --2,,--1 | | | RDC80421 |
| 70273 | 0 | 00000 | 0 | 07503 | 1044 | --2 | | | RDC80422 |
| 70274 | 456444222551 | | | 1045 | | BCI | 1,NUMBER | | RDC80423 |
| 70275 | -077777777777 | | | 1046 | | OCT | 477777777777 | NUMBERP | RDC80424 |
| | | | | 1047 * | | | | | RDC80425 |
| 70276 | 0 | 07501 | 0 | 77777 | 1048 | 1PJ25 | -1,,--1 | NUMOB | RDC80165 |
| 70277 | 0 | 07500 | 0 | 06733 | 1049 | | SUBR,,--1 | | RDC80170 |
| 70300 | 0 | 07476 | 0 | 07477 | 1050 | | --1,,--2 | | RDCW0021 |
| 70301 | -3 | 00000 | 0 | 12071 | 1051 | TXL | NUMQB | | RDC80172 |
| 70302 | 0 | 07475 | 0 | 07335 | 1052 | | PNAME,,--1 | | RDC80166 |
| 70303 | 0 | 00000 | 0 | 07474 | 1053 | | --1 | | RDC80171 |
| 70304 | 0 | 00000 | 0 | 07473 | 1054 | | --1 | | RDC80168 |
| 70305 | -056444462277 | | | 1055 | | OCT | 456444462277 | BCD NUMOB | RDC80169 |
| | | | | 1056 | | | | | LC999100 |
| 70306 | 0 | 07471 | 0 | 77777 | 1057 | 079A | -1,,--1 | | LC999200 |
| 70307 | 0 | 07470 | 0 | 10742 | 1058 | | APVAL1,,--1 | | LC999300 |
| 70310 | 0 | 07466 | 0 | 07467 | 1059 | | --1,,--2 | | LC999400 |
| 70311 | 0 | 00000 | 0 | 11351 | 1060 | | -OBLIST | | |
| 70312 | 0 | 07465 | 0 | 07335 | 1061 | | PNAME,,--1 | | LC999600 |
| 70313 | 0 | 00000 | 0 | 07464 | 1062 | | --1 | | LC999700 |
| 70314 | 0 | 00000 | 0 | 07463 | 1063 | | --1 | | LC999800 |
| 70315 | 462243316263 | | | 1064 | | BCD 10BLIST | | OBLIST | LC999900 |
| | | | | 1065 * | | | | | RDC80193 |
| 70316 | 0 | 07461 | 0 | 77777 | 1066 | 1PJ28 | -1,,--1 | OCTAL | RDC80194 |
| 70317 | 0 | 07460 | 0 | 07335 | 1067 | | PNAME,,--1 | | RDC80195 |
| 70320 | 0 | 00000 | 0 | 07457 | 1068 | | --1 | | RDC80196 |
| 70321 | 0 | 00000 | 0 | 07456 | 1069 | | --1 | | RDC80197 |
| 70322 | -062363214377 | | | 1070 | | OCT | 462363214377 | BCD OCTAL | RDC80198 |
| | | | | 1071 | | | | | RDC80117 |
| 70323 | 0 | 07454 | 0 | 77777 | 1072 | 119 | -1,,--1 | | RDC80379 |
| 70324 | 0 | 07453 | 0 | 06733 | 1073 | | \$SUBR,,--1 | | RDC80380 |
| 70325 | 0 | 07451 | 0 | 07452 | 1074 | | --1,,--2 | | RDC80381 |
| 70326 | -3 | 00001 | 0 | 14533 | 1075 | TXL | ONEP,,1 | | RDC80382 |
| 70327 | 0 | 07450 | 0 | 07335 | 1076 | | \$PNAME,,--1 | | RDC80383 |
| 70330 | 0 | 00000 | 0 | 07447 | 1077 | | --1 | | RDC80384 |
| 70331 | 0 | 00000 | 0 | 07446 | 1078 | | --1 | | RDC80385 |
| 70332 | -064525477777 | | | 1079 | | OCT | 464525477777 | ONEP | RDC80386 |
| | | | | 1080 * | | | | | RDC80387 |
| 70333 | 0 | 07444 | 0 | 77777 | 1081 | 1PJ18 | -1,,--1 | OPCHAR | RDC80118 |
| 70334 | 0 | 07443 | 0 | 06733 | 1082 | | SUBR,,--1 | | RDC80123 |
| 70335 | 0 | 07441 | 0 | 07442 | 1083 | PZE | --1,,--2 | | RDCW0016 |
| 70336 | -3 | 00001 | 0 | 12333 | 1084 | TXL | CPCHAR,,1 | | RDC80125 |
| 70337 | 0 | 07440 | 0 | 07335 | 1085 | | PNAME,,--1 | | RDC80119 |
| 70340 | 0 | 00000 | 0 | 07437 | 1086 | | --1 | | RDC80124 |
| 70341 | 0 | 00000 | 0 | 07436 | 1087 | | --1 | | RDC80121 |
| 70342 | 464723302151 | | | 1088 | | BCD 10PCHAR | | | RDC80122 |
| | | | | 1089 | | | | | LD000000 |
| 70343 | 0 | 07434 | 0 | 77777 | 1090 | 1079 | -1,,--1 | | LD000100 |
| 70344 | 0 | 07433 | 0 | 10103 | 1091 | | FSUBR,,--1 | | LD000200 |
| 70345 | 0 | 07431 | 0 | 07432 | 1092 | | --1,,--2 | | LD000300 |
| 70346 | -3 | 00000 | 0 | 15416 | 1093 | TXL | \$EVGR,,0 | | LD000400 |
| 70347 | 0 | 07430 | 0 | 07335 | 1094 | | \$PNAME,,--1 | | LD000500 |
| 70350 | 0 | 00000 | 0 | 07427 | 1095 | | --1 | | LD000600 |

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| 70351 | 0 | 00000 | 0 | 07426 | 1096 | | -*-1 | | LD000700 |
| 70352 | -06517777777 | | | | 1097 | DCT | 46517777777 | OR | LD000800 |
| | | | | | 1098 | * | | | |
| 70353 | 0 | 07424 | 0 | 77777 | 1099 | 1PJ24 | -1,,--1 | PACK | RDC80156 |
| 70354 | 0 | 07423 | 0 | 06733 | 1100 | | SUBR,,--1 | | RDC80161 |
| 70355 | 0 | 07421 | 0 | 07422 | 1101 | | -*-1,,--2 | | RDCW0020 |
| 70356 | -3 | 00001 | 0 | 12032 | 1102 | TXL | PACK,,1 | | RDC80163 |
| 70357 | 0 | 07420 | 0 | 07335 | 1103 | | PNAME,,--1 | | RDC80157 |
| 70360 | 0 | 00000 | 0 | 07417 | 1104 | | -*-1 | | RDC80162 |
| 70361 | 0 | 00000 | 0 | 07416 | 1105 | | -*-1 | | RDC80159 |
| 70362 | -072123427777 | | | | 1106 | DCT | 472123427777 | BCD PACK | RDC80160 |
| | | | | | 1107 | | | | LD000900 |
| 70363 | 0 | 07414 | 0 | 77777 | 1108 | 1080 | -1,,--1 | | LD001000 |
| 70364 | 0 | 07413 | 0 | 06733 | 1109 | | SUBR,,--1 | | LD001100 |
| 70365 | 0 | 07411 | 0 | 07412 | 1110 | | -*-1,,--2 | | LD001200 |
| 70366 | -3 | 00002 | 0 | 07562 | 1111 | TXL | PAIR,,2 | | LD001300 |
| 70367 | 0 | 07410 | 0 | 07335 | 1112 | | PNAME,,--1 | | LD001400 |
| 70370 | 0 | 00000 | 0 | 07407 | 1113 | | -*-1 | | LD001500 |
| 70371 | 0 | 00000 | 0 | 07406 | 1114 | | -*-1 | | LD001600 |
| 70372 | -072131517777 | | | | 1115 | DCT | 472131517777 | PAIR | LD001700 |
| | | | | | 1116 | | | | LD001800 |
| 70373 | 0 | 07404 | 0 | 77777 | 1117 | 1234C | -1,,--1 | | LD001900 |
| 70374 | 0 | 07403 | 0 | 06733 | 1118 | | SUBR,,--1 | | LD002000 |
| 70375 | 0 | 07401 | 0 | 07402 | 1119 | | -*-1,,--2 | | LD002100 |
| 70376 | -3 | 00000 | 0 | 01554 | 1120 | TXL | PAUSEF,,0 | | LD002200 |
| 70377 | 0 | 07400 | 0 | 07335 | 1121 | | PNAME,,--1 | | LD002300 |
| 70400 | 0 | 00000 | 0 | 07377 | 1122 | | -*-1 | | LD002400 |
| 70401 | 0 | 00000 | 0 | 07376 | 1123 | | -*-1 | | LD002500 |
| 70402 | -072164622577 | | | | 1124 | DCT | 472164622577 | PAUSE | LD002600 |
| | | | | | 1125 | | | | RDC80041 |
| 70403 | 0 | 07374 | 0 | 77777 | 1126 | 1PJ9 | -1,,--1 | PERIOD | RDC80042 |
| 70404 | 0 | 07373 | 0 | 07335 | 1127 | | PNAME,,--1 | | RDC80043 |
| 70405 | 0 | 07370 | 0 | 07372 | 1128 | | -*-1,,--3 | | RDC80044 |
| 70406 | 0 | 00000 | 0 | 07371 | 1129 | | -*-1 | | RDC80045 |
| 70407 | 472551314624 | | | | 1130 | BCD | 1PERIOD | | RDC80046 |
| 70410 | 0 | 07367 | 0 | 10742 | 1131 | | APVAL1,,--1 | | RDC80047 |
| 70411 | 0 | 00000 | 0 | 07366 | 1132 | PZE | -*-1 | | RDC80048 |
| 70412 | 0 | 00000 | 0 | 06162 | 1133 | | H33 | | RDC80049 |
| | | | | | 1134 | | | | LD002700 |
| 70413 | 0 | 07364 | 0 | 77777 | 1135 | 1234B | -1,,--1 | | LD003700 |
| 70414 | 0 | 07363 | 0 | 06733 | 1136 | | SUBR,,--1 | | LD003800 |
| 70415 | 0 | 07361 | 0 | 07362 | 1137 | | -*-1,,--2 | | LD003900 |
| 70416 | -3 | 00000 | 0 | 01371 | 1138 | TXL | PSHLDB,,0 | | LD004000 |
| 70417 | 0 | 07360 | 0 | 07335 | 1139 | | PNAME,,--1 | | LD004100 |
| 70420 | 0 | 00000 | 0 | 07357 | 1140 | | -*-1 | | LD004200 |
| 70421 | 0 | 00000 | 0 | 07356 | 1141 | | -*-1 | | LD004300 |
| 70422 | -074322777777 | | | | 1142 | DCT | 474322777777 | PLB | LD004400 |
| | | | | | 1143 | | | | LD004500 |
| 70423 | 0 | 07354 | 0 | 77777 | 1144 | 1081 | -1,,--1 | | LD004600 |
| 70424 | 0 | 07353 | 0 | 10103 | 1145 | | \$FSUBR,,--1 | | RDC80344 |
| 70425 | 0 | 07351 | 0 | 07352 | 1146 | | -*-1,,--2 | | RDC80345 |
| 70426 | -3 | 00002 | 0 | 14126 | 1147 | TXL | ADDP,,2 | | |
| 70427 | 0 | 07350 | 0 | 07335 | 1148 | | \$PNAME,,--1 | | RDC80347 |
| 70430 | 0 | 00000 | 0 | 07347 | 1149 | | -*-1 | | RDC80348 |

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|-------|---------------|-------|---|--------|------|-------|--------------|-------------------|----------|
| 70431 | 0 | 00000 | 0 | 07346 | 1150 | | --1 | | RDC80349 |
| 70432 | -074364627777 | | | 1151 | | OCT | 474364627777 | PLUS | |
| | | | | 1152 * | | | | | RDC80351 |
| 70433 | 0 | 07344 | 0 | 77777 | 1153 | JPJ11 | -1,,--1 | PLUS SIGN (PLUSS) | RDC80060 |
| 70434 | 0 | 07343 | 0 | 07335 | 1154 | PZE | PNAME,,--1 | | RDC80061 |
| 70435 | 0 | 07340 | 0 | 07342 | 1155 | | --1,,--3 | | RDC80062 |
| 70436 | 0 | 00000 | 0 | 07341 | 1156 | | --1 | | RDC80063 |
| 70437 | -074364626277 | | | 1157 | | OCT | 474364626277 | BCD PLUSS | RDC80064 |
| 70440 | 0 | 07337 | 0 | 10742 | 1158 | | APVALL,,--1 | | RDC80065 |
| 70441 | 0 | 00000 | 0 | 07336 | 1159 | PZE | --1 | | RDC80066 |
| 70442 | 0 | 00000 | 0 | 06147 | 1160 | | H20 | | RDC80067 |
| | | | | 1161 | | | | | LD005100 |
| 70443 | 0 | 07334 | 0 | 77777 | 1162 | 1083 | -1,,--1 | | LD005200 |
| 70444 | 0 | 07333 | 0 | 07335 | 1163 | | PNAME,,--1 | | LD005300 |
| 70445 | 0 | 00000 | 0 | 07332 | 1164 | | --1 | | LD005400 |
| 70446 | 0 | 00000 | 0 | 07331 | 1165 | | --1 | | LD005500 |
| 70447 | -074521442577 | | | 1166 | | OCT | 474521442577 | PNAME | LD005600 |
| | | | | 1167 | | | | | LD005700 |
| 70450 | 0 | 07327 | 0 | 77777 | 1168 | JPJ33 | -1,,--1 | PRIN1 | RDC80238 |
| 70451 | 0 | 07326 | 0 | 06733 | 1169 | | SUBR,,--1 | | RDC80239 |
| 70452 | 0 | 07324 | 0 | 07325 | 1170 | | --1,,--2 | | RDC80240 |
| 70453 | -3 | 00001 | 0 | 04703 | 1171 | TXL | \$PRIN1,,1 | | RDC80241 |
| 70454 | 0 | 07323 | 0 | 07335 | 1172 | | PNAME,,--1 | | RDC80242 |
| 70455 | 0 | 00000 | 0 | 07322 | 1173 | | --1 | | RDC80243 |
| 70456 | 0 | 00000 | 0 | 07321 | 1174 | | --1 | | RDC80244 |
| 70457 | -075131450177 | | | 1175 | | OCT | 475131450177 | BCI PRIN1 | RDC80245 |
| | | | | 1176 | | | | | LD007200 |
| 70460 | 0 | 07317 | 0 | 77777 | 1177 | 1087 | -1,,--1 | | LD007300 |
| 70461 | 0 | 07316 | 0 | 06733 | 1178 | | SUBR,,--1 | | LD007400 |
| 70462 | 0 | 07314 | 0 | 07315 | 1179 | | --1,,--2 | | LD007500 |
| 70463 | -3 | 00001 | 0 | 04604 | 1180 | TXL | PRINT,,1 | | LD007600 |
| 70464 | 0 | 07313 | 0 | 07335 | 1181 | | PNAME,,--1 | | LD007700 |
| 70465 | 0 | 00000 | 0 | 07312 | 1182 | | --1 | | LD007800 |
| 70466 | 0 | 00000 | 0 | 07311 | 1183 | | --1 | | LD007900 |
| 70467 | -075131456377 | | | 1184 | | OCT | 475131456377 | PRINT | LD008000 |
| | | | | 1185 | | | | | LD008100 |
| 70470 | 0 | 07307 | 0 | 77777 | 1186 | JPJ39 | -1,,--1 | PRINT2 | RDC80296 |
| 70471 | 0 | 07306 | 0 | 06733 | 1187 | | SUBR,,--1 | | RDC80301 |
| 70472 | 0 | 07304 | 0 | 07305 | 1188 | | --1,,--2 | | RDCW0028 |
| 70473 | -3 | 00001 | 0 | 05104 | 1189 | TXL | PRINT2,,1 | | RDC80303 |
| 70474 | 0 | 07303 | 0 | 07335 | 1190 | | PNAME,,--1 | | RDC80297 |
| 70475 | 0 | 00000 | 0 | 07302 | 1191 | | --1 | | RDC80302 |
| 70476 | 0 | 00000 | 0 | 07301 | 1192 | | --1 | | RDC80299 |
| 70477 | 475131456302 | | | 1193 | | BCI | 1,PRINT2 | | RDC80300 |
| | | | | 1194 | | | | | LD009000 |
| 70500 | 0 | 07277 | 0 | 77777 | 1195 | 1089 | -1,,--1 | | LD009100 |
| 70501 | 0 | 07276 | 0 | 10103 | 1196 | | FSUBR,,--1 | | LD009200 |
| 70502 | 0 | 07274 | 0 | 07275 | 1197 | | --1,,--2 | | LD009300 |
| 70503 | -3 | 00000 | 0 | 16130 | 1198 | TXL | INTER,,0 | | LD009400 |
| 70504 | 0 | 07273 | 0 | 07335 | 1199 | | PNAME,,--1 | | LD009500 |
| 70505 | 0 | 00000 | 0 | 07272 | 1200 | | --1 | | LD009600 |
| 70506 | 0 | 00000 | 0 | 07271 | 1201 | | --1 | | LD009700 |
| 70507 | -075146277777 | | | 1202 | | OCT | 475146277777 | PROG | LD009800 |
| | | | | 1203 | | | | | LD009900 |

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| 70510 | 0 | 07267 | 0 | 77777 | 1204 | IJ05 | -1,,--1 | | |
| 70511 | 0 | 07266 | 0 | 06733 | 1205 | | \$SUBR,,--1 | | |
| 70512 | 0 | 07264 | 0 | 07265 | 1206 | | --1,,--2 | | |
| 70513 | -3 | 00001 | 0 | 05325 | 1207 | TXL | \$PUNCH,,1 | | |
| 70514 | 0 | 07263 | 0 | 07335 | 1208 | | \$PNAME,,--1 | | |
| 70515 | 0 | 00000 | 0 | 07262 | 1209 | | --1 | | |
| 70516 | 0 | 00000 | 0 | 07261 | 1210 | | --1 | | |
| 70517 | -076445233077 | | | | 1211 | OCT | 476445233077 | PUNCH | |
| | | | | | 1212 | * | | | |
| 70520 | 0 | 07257 | 0 | 77777 | 1213 | 1090 | -1,,--1 | | LD010000 |
| 70521 | 0 | 07256 | 0 | 06733 | 1214 | | SUBR,,--1 | | LD010100 |
| 70522 | 0 | 07254 | 0 | 07255 | 1215 | | --1,,--2 | | LD010200 |
| 70523 | -3 | 00003 | 0 | 10011 | 1216 | TXL | APROP,,3 | | LD010300 |
| 70524 | 0 | 07253 | 0 | 07335 | 1217 | | PNAME,,--1 | | LD010400 |
| 70525 | 0 | 00000 | 0 | 07252 | 1218 | | --1 | | LD010500 |
| 70526 | 0 | 00000 | 0 | 07251 | 1219 | | --1 | | LD010600 |
| 70527 | -075146477777 | | | | 1220 | OCT | 475146477777 | PROP | LD010700 |
| | | | | | 1221 | | | | LD010800 |
| 70530 | 0 | 07247 | 0 | 77777 | 1222 | 1094 | -1,,--1 | | LD010900 |
| 70531 | 0 | 07246 | 0 | 10103 | 1223 | | FSUBR,,--1 | | LD011000 |
| 70532 | 0 | 07244 | 0 | 07245 | 1224 | | --1,,--2 | | LD011100 |
| 70533 | -3 | 00000 | 0 | 15212 | 1225 | TXL | CARP,,0 | | LD011200 |
| 70534 | 0 | 07243 | 0 | 07335 | 1226 | | PNAME,,--1 | | LD011300 |
| 70535 | 0 | 00000 | 0 | 07242 | 1227 | | --1 | | LD011400 |
| 70536 | 0 | 00000 | 0 | 07241 | 1228 | | --1 | | LD011500 |
| 70537 | -106446632577 | | | | 1229 | OCT | 506446632577 | QUOTE | LD011600 |
| | | | | | 1230 | | | | LD011700 |
| 70540 | 0 | 07237 | 0 | 77777 | 1231 | IJ03 | -1,,--1 | | |
| 70541 | 0 | 07236 | 0 | 06733 | 1232 | | \$SUBR,,--1 | | |
| 70542 | 0 | 07234 | 0 | 07235 | 1233 | | --1,,--2 | | |
| 70543 | -3 | 00002 | 0 | 13427 | 1234 | TXL | QUOTEN,,2 | | |
| 70544 | 0 | 07233 | 0 | 07335 | 1235 | | \$PNAME,,--1 | | |
| 70545 | 0 | 00000 | 0 | 07232 | 1236 | | --1 | | |
| 70546 | 0 | 07231 | 0 | 07230 | 1237 | | --2,,--1 | | |
| 70547 | 0 | 00000 | 0 | 07227 | 1238 | | --2 | | |
| 70550 | 506446633125 | | | | 1239 | BCI | 1,QUOTIE | | |
| 70551 | -056377777777 | | | | 1240 | OCT | 456377777777 | QUOTIENT | |
| | | | | | 1241 | * | | | |
| 70552 | 0 | 07225 | 0 | 77777 | 1242 | 1096 | -1,,--1 | | LD011800 |
| 70553 | 0 | 07224 | 0 | 06733 | 1243 | | SUBR,,--1 | | LD011900 |
| 70554 | 0 | 07222 | 0 | 07223 | 1244 | | --1,,--2 | | LD012000 |
| 70555 | -3 | 00000 | 0 | 05732 | 1245 | TXL | READ,,0 | | LD012100 |
| 70556 | 0 | 07221 | 0 | 07335 | 1246 | | PNAME,,--1 | | LD012200 |
| 70557 | 0 | 00000 | 0 | 07220 | 1247 | | --1 | | LD012300 |
| 70560 | 0 | 00000 | 0 | 07217 | 1248 | | --1 | | LD012400 |
| 70561 | -112521247777 | | | | 1249 | OCT | 512521247777 | READ | LD012500 |
| | | | | | 1250 | | | | LD012600 |
| 70562 | 0 | 07215 | 0 | 77777 | 1251 | 1118 | -1,,--1 | | RDC80462 |
| 70563 | 0 | 07214 | 0 | 06733 | 1252 | | \$SUBR,,--1 | | RDC80463 |
| 70564 | 0 | 07212 | 0 | 07213 | 1253 | | --1,,--2 | | RDC80464 |
| 70565 | -3 | 00001 | 0 | 14633 | 1254 | TXL | RCPPRG,,1 | | RDC80465 |
| 70566 | 0 | 07211 | 0 | 07335 | 1255 | | \$PNAME,,--1 | | RDC80466 |
| 70567 | 0 | 00000 | 0 | 07210 | 1256 | | --1 | | RDC80467 |
| 70570 | 0 | 00000 | 0 | 07207 | 1257 | | --1 | | RDC80468 |

| | | | | | | |
|-------|------------------|--------|-------|--------------|-----------|----------|
| 70571 | -112523314777 | 1258 | OCT | 512523314777 | RECIP | RDC80469 |
| | | 1259 * | | | | RDC80470 |
| 70572 | 0 07205 0 77777 | 1260 |)234D | -1,,--1 | | LD013200 |
| 70573 | 0 07204 0 06733 | 1261 | | SUBR,,--1 | | LD013300 |
| 70574 | 0 07202 0 07203 | 1262 | | --1,,--2 | | LD013400 |
| 70575 | -3 00000 0 02522 | 1263 | TXL | RECLAM,,0 | | |
| 70576 | 0 07201 0 07335 | 1264 | | PNAME,,--1 | | LD013600 |
| 70577 | 0 00000 0 07200 | 1265 | | --1 | | LD013700 |
| 70600 | 0 07177 0 07176 | 1266 | | --2,,--1 | | LD013800 |
| 70601 | 0 00000 0 07175 | 1267 | | --2 | | LD013900 |
| 70602 | 512523432131 | 1268 | BCD | 1RECLAI | | LD014000 |
| 70603 | -047777777777 | 1269 | OCT | 447777777777 | RECLAIM | LD014100 |
| | | 1270 * | | | | RDC80285 |
| 70604 | 0 07173 0 77777 | 1271 |)J04 | -1,,--1 | | |
| 70605 | 0 07172 0 06733 | 1272 | | \$SUBR,,--1 | | |
| 70606 | 0 07170 0 07171 | 1273 | | --1,,--2 | | |
| 70607 | -3 00002 0 13423 | 1274 | TXL | REMAIN,,2 | | |
| 70610 | 0 07167 0 07335 | 1275 | | \$PNAME,,--1 | | |
| 70611 | 0 00000 0 07166 | 1276 | | --1 | | |
| 70612 | 0 07165 0 07164 | 1277 | | --2,,--1 | | |
| 70613 | 0 00000 0 07163 | 1278 | | --2 | | |
| 70614 | 512544213145 | 1279 | BCI | 1,REMAIN | | |
| 70615 | +242551777777 | 1280 | OCT | 242551777777 | REMAINDER | |
| | | 1281 * | | | | |
| 70616 | 0 07161 0 77777 | 1282 |)250 | -1,,--1 | | LD134400 |
| 70617 | 0 07160 0 06733 | 1283 | | SUBR,,--1 | | LD134500 |
| 70620 | 0 07156 0 07157 | 1284 | | --1,,--2 | | LD134600 |
| 70621 | -3 00002 0 07714 | 1285 | TXL | REMPRP,,2 | | LD134700 |
| 70622 | 0 07155 0 07335 | 1286 | | PNAME,,--1 | | LD134800 |
| 70623 | 0 00000 0 07154 | 1287 | | --1 | | LD134900 |
| 70624 | 0 07152 0 07153 | 1288 | | --1,,--2 | | LD135000 |
| 70625 | 512544475146 | 1289 | BCD | 1REMPRO | REMPRO | LD135100 |
| 70626 | 0 00000 0 07151 | 1290 | | --1 | | LD135200 |
| 70627 | -077777777777 | 1291 | OCT | 477777777777 | P | LD135300 |
| | | 1292 * | | | | |
| 70630 | 0 07147 0 77777 | 1293 |)102 | -1,,--1 | | LD020000 |
| 70631 | 0 07146 0 06733 | 1294 | | \$SUBR,,--1 | | |
| 70632 | 0 07144 0 07145 | 1295 | | --1,,--2 | | |
| 70633 | -3 00001 0 16272 | 1296 | TXL | RETURN,,1 | | |
| 70634 | 0 07143 0 07335 | 1297 | | PNAME,,--1 | | |
| 70635 | 0 00000 0 07142 | 1298 | | --1 | | LD021100 |
| 70636 | 0 00000 0 07141 | 1299 | | --1 | | LD021200 |
| 70637 | 512563645145 | 1300 | BCD | 1RETURN | RETURN | LD021300 |
| | | 1301 | | | | LD014200 |
| | | 1302 | | | | LD019900 |
| 70640 | 0 07137 0 77777 | 1303 |)100 | -1,,--1 | | LD014300 |
| 70641 | 0 07136 0 06733 | 1304 | | SUBR,,--1 | | LD014400 |
| 70642 | 0 07134 0 07135 | 1305 | | --1,,--2 | | LD014500 |
| 70643 | -3 00000 0 10155 | 1306 | TXL | RPLACA,,0 | | LD014600 |
| 70644 | 0 07133 0 07335 | 1307 | | PNAME,,--1 | | |
| 70645 | 0 00000 0 07132 | 1308 | | --1 | | LD016000 |
| 70646 | 0 00000 0 07131 | 1309 | | --1 | | LD016100 |
| 70647 | 514743212321 | 1310 | BCD | 1RPLACA | | LD016200 |
| | | 1311 | | | | LD016300 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|------|-------|---------------------|----------|----------|
| 70650 | 0 | 07127 | 0 | 77777 | 1312 |)101 | -1,,--1 | | LD016400 |
| 70651 | 0 | 07126 | 0 | 06733 | 1313 | | SUBR,,--1 | | LD016500 |
| 70652 | 0 | 07124 | 0 | 07125 | 1314 | | --1,,--2 | | LD016600 |
| 70653 | -3 | 00000 | 0 | 10164 | 1315 | TXL | RPLACD,,0 | | LD016700 |
| 70654 | 0 | 07123 | 0 | 07335 | 1316 | | PNAME,,--1 | | |
| 70655 | 0 | 00000 | 0 | 07122 | 1317 | | --1 | | LD018000 |
| 70656 | 0 | 00000 | 0 | 07121 | 1318 | | --1 | | LD018100 |
| 70657 | 514743212324 | | | | 1319 | BCD | IRPLACD | | LD018200 |
| | | | | | 1320 | | | | RDC80032 |
| 70660 | 0 | 07117 | 0 | 77777 | 1321 |)PJ8 | -1,,--1 | RPAR | RDC80033 |
| 70661 | 0 | 07116 | 0 | 07335 | 1322 | PZE | PNAME,,--1 | | RDC80034 |
| 70662 | 0 | 07113 | 0 | 07115 | 1323 | | --1,,--3 | | RDC80035 |
| 70663 | 0 | 00000 | 0 | 07114 | 1324 | | --1 | | RDC80036 |
| 70664 | -114721517777 | | | | 1325 | OCT | 514721517777 | BCD RPAR | RDC80037 |
| 70665 | 0 | 07112 | 0 | 10742 | 1326 | | APVAL1,,--1 | | RDC80038 |
| 70666 | 0 | 00000 | 0 | 07111 | 1327 | | --1 | | RDC80039 |
| 70667 | 0 | 00000 | 0 | 06163 | 1328 | | H34 | | RDC80040 |
| | | | | | 1329 | * | | | |
| 70670 | 0 | 07107 | 0 | 77777 | 1330 |)SPCL | -1,,--1 | | |
| 70671 | 0 | 07106 | 0 | 07335 | 1331 | | PNAME,,--1 | | |
| 70672 | 0 | 00000 | 0 | 07105 | 1332 | | --1 | | |
| 70673 | 0 | 07103 | 0 | 07104 | 1333 | | --1,,--2 | | |
| 70674 | 624725233121 | | | | 1334 | BCI | 1,SPECIA | | |
| 70675 | 0 | 00000 | 0 | 07102 | 1335 | | --1 | | |
| 70676 | 437777777777 | | | | 1336 | VFD | H6/L,030/7777777777 | SPECIAL | |
| | | | | | 1337 | * | | | |
| 70677 | 0 | 07100 | 0 | 77777 | 1338 |)MOV | -1,,--1 | | |
| 70700 | 0 | 07077 | 0 | 07335 | 1339 | | PNAME,,--1 | | |
| 70701 | 0 | 07074 | 0 | 07076 | 1340 | | --1,,--3 | | |
| 70702 | 0 | 00000 | 0 | 07075 | 1341 | | --1 | | |
| 70703 | 544446652577 | | | | 1342 | VFD | H30/*MOVE,06/77 | *MOVE | |
| 70704 | 0 | 07073 | 0 | 06706 | 1343 | | SYM,,--1 | | |
| 70705 | -0 | 00000 | 0 | 61255 | 1344 | MZE | -C\$MOV | | |
| | | | | | 1345 | * | | | |
| 70706 | 0 | 07071 | 0 | 77777 | 1346 |)RTRN | -1,,--1 | | |
| 70707 | 0 | 07070 | 0 | 07335 | 1347 | | PNAME,,--1 | | |
| 70710 | 0 | 07063 | 0 | 07067 | 1348 | | --1,,--5 | | |
| 70711 | 0 | 07065 | 0 | 07066 | 1349 | | --1,,--2 | | |
| 70712 | 545125636451 | | | | 1350 | BCI | 1,*RETUR | | |
| 70713 | 0 | 00000 | 0 | 07064 | 1351 | | --1 | | |
| 70714 | 457777777777 | | | | 1352 | VFD | H6/N,030/7777777777 | | |
| 70715 | 0 | 07062 | 0 | 06706 | 1353 | | SYM,,--1 | | |
| 70716 | -0 | 00000 | 0 | 61253 | 1354 | MZE | -C\$RTRN | | |
| | | | | | 1355 | * | | | |
| 70717 | 0 | 07060 | 0 | 77777 | 1356 |)LST | -1,,--1 | | |
| 70720 | 0 | 07057 | 0 | 07335 | 1357 | | PNAME,,--1 | | |
| 70721 | 0 | 07054 | 0 | 07056 | 1358 | | --1,,--3 | | |
| 70722 | 0 | 00000 | 0 | 07055 | 1359 | | --1 | | |
| 70723 | 544331626377 | | | | 1360 | VFD | H30/*LIST,06/77 | | |
| 70724 | 0 | 07053 | 0 | 06706 | 1361 | | SYM,,--1 | | |
| 70725 | -0 | 00000 | 0 | 61254 | 1362 | MZE | -C\$LSTR | | |
| | | | | | 1363 | | | | LD022000 |
| 70726 | 0 | 07051 | 0 | 77777 | 1364 |)106 | -1,,--1 | | LD022100 |
| 70727 | 0 | 07050 | 0 | 06733 | 1365 | | SUBR,,--1 | | LD022200 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|------|-------|--------------|-----------|----------|
| 70730 | 0 | 07046 | 0 | 07047 | 1366 | | --1,,--2 | | LD022300 |
| 70731 | -3 | 00003 | 0 | 10042 | 1367 | TXL | APSSOC,,3 | | LD022400 |
| 70732 | 0 | 07045 | 0 | 07335 | 1368 | | PNAME,,--1 | | LD022500 |
| 70733 | 0 | 00000 | 0 | 07044 | 1369 | | --1 | | LD022600 |
| 70734 | 0 | 00000 | 0 | 07043 | 1370 | | --1 | | LD022700 |
| 70735 | 622162624623 | | | | 1371 | BCD | 1SASSOC | | LD022800 |
| | | | | | 1372 | | | | LD022900 |
| 70736 | 0 | 07041 | 0 | 77777 | 1373 | 1236 | -1,,--1 | SEARCH | LD023000 |
| 70737 | 0 | 07040 | 0 | 06733 | 1374 | | SUBR,,--1 | | LD023100 |
| 70740 | 0 | 07036 | 0 | 07037 | 1375 | | --1,,--2 | | LD023200 |
| 70741 | -3 | 00004 | 0 | 04400 | 1376 | TXL | SEARCH,,4 | | LD023300 |
| 70742 | 0 | 07035 | 0 | 07335 | 1377 | | PNAME,,--1 | | LD023400 |
| 70743 | 0 | 00000 | 0 | 07034 | 1378 | | --1 | | LD023500 |
| 70744 | 0 | 00000 | 0 | 07033 | 1379 | | --1 | | LD023600 |
| 70745 | 622521512330 | | | | 1380 | BCD | 1SEARCH | | LD023700 |
| | | | | | 1381 | | | | LD023800 |
| 70746 | 0 | 07031 | 0 | 77777 | 1382 | 1107 | -1,,--1 | | LD023900 |
| 70747 | 0 | 07030 | 0 | 06733 | 1383 | | \$SUBR,,--1 | | LD024000 |
| 70750 | 0 | 07026 | 0 | 07027 | 1384 | | --1,,--2 | | LD024100 |
| 70751 | -3 | 00002 | 0 | 15346 | 1385 | TXL | SETP,,2 | | LD024200 |
| 70752 | 0 | 07025 | 0 | 07335 | 1386 | | \$PNAME,,--1 | | LD024300 |
| 70753 | 0 | 00000 | 0 | 07024 | 1387 | | --1 | | LD024400 |
| 70754 | 0 | 00000 | 0 | 07023 | 1388 | | --1 | | LD024500 |
| 70755 | -222563777777 | | | | 1389 | OCT | 622563777777 | SET | LD024600 |
| | | | | | 1390 | | | | LD024700 |
| 70756 | 0 | 07021 | 0 | 77777 | 1391 | 1108 | -1,,--1 | | LD024800 |
| 70757 | 0 | 07020 | 0 | 10103 | 1392 | | \$FSUBR,,--1 | | LD024900 |
| 70760 | 0 | 07016 | 0 | 07017 | 1393 | | --1,,--2 | | LD025000 |
| 70761 | -3 | 00000 | 0 | 15311 | 1394 | TXL | SETQP,,0 | | LD025100 |
| 70762 | 0 | 07015 | 0 | 07335 | 1395 | | PNAME,,--1 | | |
| 70763 | 0 | 00000 | 0 | 07014 | 1396 | | --1 | | LD026500 |
| 70764 | 0 | 00000 | 0 | 07013 | 1397 | | --1 | | LD026600 |
| 70765 | -222563507777 | | | | 1398 | OCT | 622563507777 | SETQ | LD026700 |
| | | | | | 1399 | * | | | |
| 70766 | 0 | 07011 | 0 | 77777 | 1400 | 1PJ14 | -1,,--1 | SLASH | RDC80079 |
| 70767 | 0 | 07010 | 0 | 07335 | 1401 | | PNAME,,--1 | | RDC80080 |
| 70770 | 0 | 07005 | 0 | 07007 | 1402 | | --1,,--3 | | RDC80081 |
| 70771 | 0 | 00000 | 0 | 07006 | 1403 | | --1 | | RDC80082 |
| 70772 | -224321623077 | | | | 1404 | OCT | 624321623077 | BCD SLASH | RDC80083 |
| 70773 | 0 | 07004 | 0 | 10742 | 1405 | | APVALL,,--1 | | RDC80084 |
| 70774 | 0 | 00000 | 0 | 07003 | 1406 | | --1 | | RDC80085 |
| 70775 | 0 | 00000 | 0 | 06210 | 1407 | | H61 | | RDC80086 |
| | | | | | 1408 | | | | LD026800 |
| 70776 | 0 | 07001 | 0 | 77777 | 1409 | 1109 | -1,,--1 | | LD026900 |
| 70777 | 0 | 07000 | 0 | 06733 | 1410 | | SUBR,,--1 | | LD027000 |
| 71000 | 0 | 06776 | 0 | 06777 | 1411 | | --1,,--2 | | LD027100 |
| 71001 | -3 | 00000 | 0 | 03774 | 1412 | TXL | SPEAK,,0 | | LD027200 |
| 71002 | 0 | 06775 | 0 | 07335 | 1413 | | PNAME,,--1 | | LD027300 |
| 71003 | 0 | 00000 | 0 | 06774 | 1414 | | --1 | | LD027400 |
| 71004 | 0 | 00000 | 0 | 06773 | 1415 | | --1 | | LD027500 |
| 71005 | -224725214277 | | | | 1416 | OCT | 624725214277 | SPEAK | LD027600 |
| | | | | | 1417 | | | | LD027700 |
| 71006 | 0 | 06771 | 0 | 77777 | 1418 | 1111 | -1,,--1 | | LD027800 |
| 71007 | 0 | 06770 | 0 | 07335 | 1419 | | PNAME,,--1 | | LD027900 |

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|-------|---------------|-------|---|-------|--------|-------|-----------------|---------|--|----------|
| 71070 | 0 | 00000 | 0 | 06707 | 1474 | | --1 | | | LD031400 |
| 71071 | -226422626377 | | | | 1475 | OCT | 626422626377 | SUBST | | LD031500 |
| | | | | | 1476 * | | | | | |
| 71072 | 0 | 06705 | 0 | 77777 | 1477 | JSYM | -1,--1 | | | |
| 71073 | 0 | 06704 | 0 | 07335 | 1478 | | PNAME,,--1 | | | |
| 71074 | 0 | 00000 | 0 | 06703 | 1479 | | --1 | | | |
| 71075 | 0 | 00000 | 0 | 06702 | 1480 | | --1 | | | |
| 71076 | -227044777777 | | | | 1481 | OCT | 627044777777 | SYM | | |
| | | | | | 1482 | | | | | RDC80146 |
| 71077 | 0 | 06700 | 0 | 77777 | 1483 | JPJ23 | -1,--1 | TERPRI | | RDC80147 |
| 71100 | 0 | 06677 | 0 | 06733 | 1484 | | SUBR,,--1 | | | RDC80152 |
| 71101 | 0 | 06675 | 0 | 06676 | 1485 | PZE | --1,--2 | | | RDCW0019 |
| 71102 | -3 | 00000 | 0 | 05214 | 1486 | TXL | TERPRI,,0 | | | RDC80154 |
| 71103 | 0 | 06674 | 0 | 07335 | 1487 | | PNAME,,--1 | | | RDC80148 |
| 71104 | 0 | 00000 | 0 | 06673 | 1488 | | --1 | | | RDC80153 |
| 71105 | 0 | 00000 | 0 | 06672 | 1489 | | --1 | | | RDC80150 |
| 71106 | 632551475131 | | | | 1490 | BCD | 1TERPRI | | | RDC80151 |
| | | | | | 1491 | | | | | LD036900 |
| 71107 | 0 | 06670 | 0 | 77777 | 1492 | 1122 | -1,--1 | | | LD037000 |
| 71110 | 0 | 06667 | 0 | 06733 | 1493 | | SUBR,,--1 | | | LD037100 |
| 71111 | 0 | 06665 | 0 | 06666 | 1494 | | --1,--2 | | | LD037200 |
| 71112 | -3 | 00000 | 0 | 01521 | 1495 | TXL | \$TIME,,0 | | | |
| 71113 | 0 | 06664 | 0 | 07335 | 1496 | | PNAME,,--1 | | | LD037400 |
| 71114 | 0 | 00000 | 0 | 06663 | 1497 | | --1 | | | LD037500 |
| 71115 | 0 | 06662 | 0 | 06661 | 1498 | | --2,--1 | | | |
| 71116 | 0 | 00000 | 0 | 06660 | 1499 | | --2 | | | |
| 71117 | 632544476462 | | | | 1500 | BCI | 2,TEMPUS-FUGIT | | | |
| 71120 | 402664273163 | | | | 1501 | | | | | LD037800 |
| 71121 | 0 | 06656 | 0 | 77777 | 1502 | 1124 | -1,--1 | | | LD038500 |
| 71122 | 0 | 06655 | 0 | 10103 | 1503 | | \$FSUBR,,--1 | | | RDC80353 |
| 71123 | 0 | 06653 | 0 | 06654 | 1504 | | --1,--2 | | | RDC80354 |
| 71124 | -3 | 00002 | 0 | 14134 | 1505 | TXL | MULT,,2 | | | RDC80355 |
| 71125 | 0 | 06652 | 0 | 07335 | 1506 | | \$PNAME,,--1 | | | RDC80356 |
| 71126 | 0 | 00000 | 0 | 06651 | 1507 | | --1 | | | RDC80357 |
| 71127 | 0 | 00000 | 0 | 06650 | 1508 | | --1 | | | RDC80358 |
| 71130 | -233144256277 | | | | 1509 | OCT | 633144256277 | TIMES | | |
| | | | | | 1510 * | | | | | RDC80360 |
| 71131 | 0 | 06646 | 0 | 77777 | 1511 | 1213 | -1,--1 | | | |
| 71132 | 0 | 06645 | 0 | 07335 | 1512 | | \$PNAME,,--1 | | | |
| 71133 | 0 | 00000 | 0 | 06644 | 1513 | | --1 | | | |
| 71134 | 0 | 00000 | 0 | 06643 | 1514 | | --1 | | | |
| 71135 | 635121232577 | | | | 1515 | VFD | H30/TRACE,06/77 | | | |
| | | | | | 1516 * | | | | | |
| 71136 | 0 | 06641 | 0 | 77777 | 1517 | 1127 | -1,--1 | | | LD040600 |
| 71137 | 0 | 06640 | 0 | 06733 | 1518 | | SUBR,,--1 | | | LD040700 |
| 71140 | 0 | 06636 | 0 | 06637 | 1519 | | --1,--2 | | | LD040800 |
| 71141 | -3 | 00000 | 0 | 04101 | 1520 | TXL | UNCGNT,,0 | | | LD040900 |
| 71142 | 0 | 06635 | 0 | 07335 | 1521 | | PNAME,,--1 | | | LD041000 |
| 71143 | 0 | 00000 | 0 | 06634 | 1522 | | --1 | | | LD041100 |
| 71144 | 0 | 06633 | 0 | 06632 | 1523 | | --2,--1 | | | LD041200 |
| 71145 | 0 | 00000 | 0 | 06631 | 1524 | | --2 | | | LD041300 |
| 71146 | 644523466445 | | | | 1525 | BCD | 1UNCOUN | | | LD041400 |
| 71147 | -237777777777 | | | | 1526 | OCT | 637777777777 | UNCOUNT | | LD041500 |

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|-------|---------------|-------|---|-------|------|-------|--------------|--------|----------|
| | | | | 1527 | | | | | RDC80210 |
| 71150 | 0 | 06627 | 0 | 77777 | 1528 |)PJ31 | -1,,--1 | UNPACK | RDC80211 |
| 71151 | 0 | 06626 | 0 | 06733 | 1529 | | SUBR,,--1 | | RDC80212 |
| 71152 | 0 | 06624 | 0 | 06625 | 1530 | | --1,,--2 | | RDC80213 |
| 71153 | -3 | 00001 | 0 | 12365 | 1531 | TXL | UNPACK,,1 | | RDC80214 |
| 71154 | 0 | 06623 | 0 | 07335 | 1532 | | PNAME,,--1 | | RDC80215 |
| 71155 | 0 | 00000 | 0 | 06622 | 1533 | | --1 | | RDC80216 |
| 71156 | 0 | 00000 | 0 | 06621 | 1534 | | --1 | | RDC80217 |
| 71157 | 644547212342 | | | | 1535 | BCI | 1,UNPACK | | RDC80218 |
| | | | | | 1536 | | | | RDC70217 |
| 71160 | 0 | 06617 | 0 | 77777 | 1537 | II10 | -1,,--1 | | RDC80388 |
| 71161 | 0 | 06616 | 0 | 06733 | 1538 | | \$SUBR,,--1 | | RDC80389 |
| 71162 | 0 | 06614 | 0 | 06615 | 1539 | | --1,,--2 | | RDC80390 |
| 71163 | -3 | 00001 | 0 | 14507 | 1540 | TXL | ZEROP,,1 | | RDC80391 |
| 71164 | 0 | 06613 | 0 | 07335 | 1541 | | \$PNAME,,--1 | | RDC80392 |
| 71165 | 0 | 00000 | 0 | 06612 | 1542 | | --1 | | RDC80393 |
| 71166 | 0 | 00000 | 0 | 06611 | 1543 | | --1 | | RDC80394 |
| 71167 | -312551464777 | | | | 1544 | OCT | 712551464777 | ZEROP | RDC80395 |
| | | | | | 1545 | * | | | |

1546 EJECT
1547 *
1548 *

RDCZ0005
RDCZ0006

| | | 1549 | EJECT | | | |
|-------|-----------------|-----------|---------------------------------------|-------|--|----------|
| | | 1550 * | PROPERTY LISTS FOR ALPHABETIC OBJECTS | | | RDCZ0007 |
| | | 1551 * | | | | RDCZ0008 |
| 71170 | 0 00000 0 00000 | 1552 HH00 | 0 | | | |
| 71171 | 0 00000 0 00001 | 1553 | 1 | ***** | | |
| 71172 | 0 00000 0 00002 | 1554 HH01 | 2 | ***** | | |
| 71173 | 0 00000 0 00003 | 1555 | 3 | ***** | | |
| 71174 | 0 00000 0 00004 | 1556 HH02 | 4 | ***** | | |
| 71175 | 0 00000 0 00005 | 1557 | 5 | ***** | | |
| 71176 | 0 00000 0 00006 | 1558 HH03 | 6 | ***** | | |
| 71177 | 0 00000 0 00007 | 1559 | 7 | ***** | | |
| 71200 | +000000000010 | 1560 HH04 | 10 | ***** | | |
| 71201 | +000000000011 | 1561 | 11 | ***** | | |
| 71202 | 0 06575 0 07335 | 1562 HH05 | | ***** | | RDCP0255 |
| 71203 | 0 06572 0 06574 | 1563 | | ***** | | RDCP0256 |
| 71204 | 0 00000 0 06573 | 1564 HH06 | | ***** | | RDCP0257 |
| 71205 | -132546265377 | 1565 | | ***** | | RDCP0258 |
| 71206 | 0 06571 0 10742 | 1566 HH07 | | ***** | | RDC80257 |
| 71207 | 0 00000 0 06570 | 1567 | | ***** | | RDCP0260 |
| 71210 | 0 00000 0 06141 | 1568 HH10 | | ***** | | RDCP0261 |
| 71211 | 0 06566 0 07335 | 1569 | | ***** | | RDCP0262 |
| 71212 | 0 00000 0 06565 | 1570 HH11 | | ***** | | RDCP0263 |
| 71213 | 0 00000 0 06564 | 1571 | | ***** | | RDCP0264 |
| 71214 | +137777777777 | 1572 | | ***** | | RDCP0265 |
| 71215 | 0 06562 0 07335 | 1573 HH12 | | ***** | | RDCP0266 |
| 71216 | 0 00000 0 06561 | 1574 | | ***** | | RDCP0267 |
| 71217 | 0 00000 0 06560 | 1575 | | ***** | | RDCP0268 |
| 71220 | +147777777777 | 1576 | | ***** | | RDCP0269 |
| 71221 | 0 06556 0 07335 | 1577 | | ***** | | RDCP0270 |
| 71222 | 0 00000 0 06555 | 1578 | | ***** | | RDCP0271 |
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| 71224 | 533143010553 | 1580 | | ***** | | RDCP0273 |
| 71225 | 0 06552 0 07335 | 1581 HH13 | | ***** | | RDCP0274 |
| 71226 | 0 00000 0 06551 | 1582 | | ***** | | RDCP0275 |
| 71227 | 0 00000 0 06550 | 1583 | | ***** | | RDCP0276 |
| 71230 | 533143010653 | 1584 | | ***** | | RDCP0277 |
| 71231 | 0 06546 0 07335 | 1585 | | ***** | | RDCP0278 |
| 71232 | 0 00000 0 06545 | 1586 HH14 | | ***** | | RDCP0279 |
| | | 1587 | | ***** | | RDCP0280 |
| | | 1588 | | ***** | | RDCP0281 |
| | | 1589 | | ***** | | RDCP0282 |
| | | 1590 | | ***** | | RDCP0283 |
| | | 1591 HH15 | | ***** | | RDCP0284 |
| | | 1592 | | ***** | | RDCP0285 |
| | | 1593 | | ***** | | |
| | | 1594 | | ***** | | |
| | | 1595 | | ***** | | |
| | | 1596 HH16 | | ***** | | |
| | | 1597 | | ***** | | |
| | | 1598 | | ***** | | |
| | | 1599 | | ***** | | |
| | | 1600 | | ***** | | |
| | | 1601 HH17 | | ***** | | |
| | | 1602 | | ***** | | |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|------|------------|--------------|---|-----------|
| 71233 | 0 | 00000 | 0 | 06544 | 1603 | PZE | --1 | | RDCP0286 |
| 71234 | 533143010753 | | | | 1604 | RCD | 1\$1117\$ | | RDCP0287 |
| | | | | | 1605 | | * * * * * | | *RDCP0288 |
| 71235 | 0 | 06542 | 0 | 07335 | 1606 | HH20 | PNAME,,--1 | + | RDCP0289 |
| 71236 | 0 | 00000 | 0 | 06541 | 1607 | PZE | --1 | | RDCP0290 |
| 71237 | 0 | 00000 | 0 | 06540 | 1608 | PZE | --1 | | RDCP0291 |
| 71240 | +207777777777 | | | | 1609 | OCT | 207777777777 | | RDCP0292 |
| | | | | | 1610 | | * * * * * | | *RDCP0293 |
| 71241 | 0 | 06536 | 0 | 07335 | 1611 | HH21 | PNAME,,--1 | A | RDCP0294 |
| 71242 | 0 | 00000 | 0 | 06535 | 1612 | PZE | --1 | | RDCP0295 |
| 71243 | 0 | 00000 | 0 | 06534 | 1613 | PZE | --1 | | RDCP0296 |
| 71244 | +217777777777 | | | | 1614 | OCT | 217777777777 | | RDCP0297 |
| | | | | | 1615 | | * * * * * | | *RDCP0298 |
| 71245 | 0 | 06532 | 0 | 07335 | 1616 | HH22 | PNAME,,--1 | B | RDCP0299 |
| 71246 | 0 | 00000 | 0 | 06531 | 1617 | PZE | --1 | | RDCP0300 |
| 71247 | 0 | 00000 | 0 | 06530 | 1618 | PZE | --1 | | RDCP0301 |
| 71250 | +227777777777 | | | | 1619 | OCT | 227777777777 | | RDCP0302 |
| | | | | | 1620 | | * * * * * | | *RDCP0303 |
| 71251 | 0 | 06526 | 0 | 07335 | 1621 | HH23 | PNAME,,--1 | C | RDCP0304 |
| 71252 | 0 | 00000 | 0 | 06525 | 1622 | PZE | --1 | | RDCP0305 |
| 71253 | 0 | 00000 | 0 | 06524 | 1623 | PZE | --1 | | RDCP0306 |
| 71254 | +237777777777 | | | | 1624 | OCT | 237777777777 | | RDCP0307 |
| | | | | | 1625 | | * * * * * | | *RDCP0308 |
| 71255 | 0 | 06522 | 0 | 07335 | 1626 | HH24 | PNAME,,--1 | D | RDCP0309 |
| 71256 | 0 | 00000 | 0 | 06521 | 1627 | PZE | --1 | | RDCP0310 |
| 71257 | 0 | 00000 | 0 | 06520 | 1628 | PZE | --1 | | RDCP0311 |
| 71260 | +247777777777 | | | | 1629 | OCT | 247777777777 | | RDCP0312 |
| | | | | | 1630 | | * * * * * | | *RDCP0313 |
| 71261 | 0 | 06516 | 0 | 07335 | 1631 | HH25 | PNAME,,--1 | E | RDCP0314 |
| 71262 | 0 | 00000 | 0 | 06515 | 1632 | PZE | --1 | | RDCP0315 |
| 71263 | 0 | 00000 | 0 | 06514 | 1633 | PZE | --1 | | RDCP0316 |
| 71264 | +257777777777 | | | | 1634 | OCT | 257777777777 | | RDCP0317 |
| | | | | | 1635 | | * * * * * | | *RDCP0318 |
| 71265 | 0 | 06512 | 0 | 77777 | 1636 | HH26 | -1,,--1 | F | RDCP0319 |
| 71266 | 0 | 06511 | 0 | 10742 | 1637 | APVAL,,--1 | | | RDCP0320 |
| 71267 | 0 | 06507 | 0 | 06510 | 1638 | --1,,--2 | | | RDCP0321 |
| 71270 | 0 | 00000 | 0 | 00000 | 1639 | 0 | | | RDCP0322 |
| 71271 | 0 | 06506 | 0 | 07335 | 1640 | PNAME,,--1 | | | RDCP0323 |
| 71272 | 0 | 00000 | 0 | 06505 | 1641 | PZE | --1 | | RDCP0324 |
| 71273 | 0 | 00000 | 0 | 06504 | 1642 | PZE | --1 | | RDCP0325 |
| 71274 | +267777777777 | | | | 1643 | OCT | 267777777777 | | RDCP0326 |
| | | | | | 1644 | | * * * * * | | *RDCP0327 |
| 71275 | 0 | 06502 | 0 | 07335 | 1645 | HH27 | PNAME,,--1 | G | RDCP0328 |
| 71276 | 0 | 00000 | 0 | 06501 | 1646 | PZE | --1 | | RDCP0329 |
| 71277 | 0 | 00000 | 0 | 06500 | 1647 | PZE | --1 | | RDCP0330 |
| 71300 | +277777777777 | | | | 1648 | OCT | 277777777777 | | RDCP0331 |
| | | | | | 1649 | | * * * * * | | *RDCP0332 |
| 71301 | 0 | 06476 | 0 | 07335 | 1650 | HH30 | PNAME,,--1 | H | RDCP0333 |
| 71302 | 0 | 00000 | 0 | 06475 | 1651 | PZE | --1 | | RDCP0334 |
| 71303 | 0 | 00000 | 0 | 06474 | 1652 | PZE | --1 | | RDCP0335 |
| 71304 | +307777777777 | | | | 1653 | OCT | 307777777777 | | RDCP0336 |
| | | | | | 1654 | | * * * * * | | *RDCP0337 |
| 71305 | 0 | 06472 | 0 | 07335 | 1655 | HH31 | PNAME,,--1 | I | RDCP0338 |
| 71306 | 0 | 00000 | 0 | 06471 | 1656 | PZE | --1 | | RDCP0339 |

| | | | | | | | | | |
|-------|---------------|-------|---|-------|------|------|--------------|----------|-----------|
| 71307 | 0 | 00000 | 0 | 06470 | 1657 | PZE | --1 | | RDCP0340 |
| 71310 | +317777777777 | | | | 1658 | OCT | 317777777777 | | RDCP0341 |
| | | | | | 1659 | | ***** | | *RDCP0342 |
| 71311 | 0 | 06466 | 0 | 07335 | 1660 | HH32 | PNAME,--1 | +0 | RDCP0343 |
| 71312 | 0 | 00000 | 0 | 06465 | 1661 | PZE | --1 | | RDCP0344 |
| 71313 | 0 | 00000 | 0 | 06464 | 1662 | PZE | --1 | | RDCP0345 |
| 71314 | 533143030253 | | | | 1663 | BCD | 1\$IL32\$ | | RDCP0346 |
| | | | | | 1664 | | ***** | | *RDCP0347 |
| 71315 | 0 | 06462 | 0 | 07335 | 1665 | HH33 | PNAME,--1 | . | RDCP0348 |
| 71316 | 0 | 00000 | 0 | 06461 | 1666 | PZE | --1 | | RDCP0349 |
| 71317 | 0 | 00000 | 0 | 06460 | 1667 | PZE | --1 | | RDCP0350 |
| 71320 | +337777777777 | | | | 1668 | OCT | 337777777777 | | RDCP0351 |
| | | | | | 1669 | | ***** | | *RDCP0352 |
| 71321 | 0 | 06456 | 0 | 07335 | 1670 | HH34 | PNAME,--1 |) | RDCP0353 |
| 71322 | 0 | 00000 | 0 | 06455 | 1671 | PZE | --1 | | RDCP0354 |
| 71323 | 0 | 00000 | 0 | 06454 | 1672 | PZE | --1 | | RDCP0355 |
| 71324 | +347777777777 | | | | 1673 | OCT | 347777777777 | | RDCP0356 |
| | | | | | 1674 | | ***** | | *RDCP0357 |
| 71325 | 0 | 06452 | 0 | 07335 | 1675 | HH35 | PNAME,--1 | ILLEGAL | RDCP0358 |
| 71326 | 0 | 00000 | 0 | 06451 | 1676 | PZE | --1 | | RDCP0359 |
| 71327 | 0 | 00000 | 0 | 06450 | 1677 | PZE | --1 | | RDCP0360 |
| 71330 | 533143030553 | | | | 1678 | BCD | 1\$IL35\$ | | RDCP0361 |
| | | | | | 1679 | | ***** | | *RDCP0362 |
| 71331 | 0 | 06446 | 0 | 07335 | 1680 | HH36 | PNAME,--1 | ILLEGAL | RDCP0363 |
| 71332 | 0 | 00000 | 0 | 06445 | 1681 | PZE | --1 | | RDCP0364 |
| 71333 | 0 | 00000 | 0 | 06444 | 1682 | PZE | --1 | | RDCP0365 |
| 71334 | 533143030653 | | | | 1683 | BCD | 1\$IL36\$ | | RDCP0366 |
| | | | | | 1684 | | ***** | | *RDCP0367 |
| 71335 | 0 | 06442 | 0 | 07335 | 1685 | HH37 | PNAME,--1 | ILLEGAL | RDCP0368 |
| 71336 | 0 | 00000 | 0 | 06441 | 1686 | PZE | --1 | | RDCP0369 |
| 71337 | 0 | 00000 | 0 | 06440 | 1687 | PZE | --1 | | RDCP0370 |
| 71340 | 533143030753 | | | | 1688 | BCD | 1\$IL37\$ | | RDCP0371 |
| | | | | | 1689 | | ***** | | *RDCP0372 |
| 71341 | 0 | 06436 | 0 | 07335 | 1690 | HH40 | PNAME,--1 | 11 MINUS | RDCP0373 |
| 71342 | 0 | 00000 | 0 | 06435 | 1691 | PZE | --1 | | RDCP0374 |
| 71343 | 0 | 00000 | 0 | 06434 | 1692 | PZE | --1 | | RDCP0375 |
| 71344 | -007777777777 | | | | 1693 | OCT | 407777777777 | | RDCP0376 |
| | | | | | 1694 | | ***** | | *RDCP0377 |
| 71345 | 0 | 06432 | 0 | 07335 | 1695 | HH41 | PNAME,--1 | J | RDCP0378 |
| 71346 | 0 | 00000 | 0 | 06431 | 1696 | PZE | --1 | | RDCP0379 |
| 71347 | 0 | 00000 | 0 | 06430 | 1697 | PZE | --1 | | RDCP0380 |
| 71350 | -017777777777 | | | | 1698 | OCT | 417777777777 | | RDCP0381 |
| | | | | | 1699 | | ***** | | *RDCP0382 |
| 71351 | 0 | 06426 | 0 | 07335 | 1700 | HH42 | PNAME,--1 | K | RDCP0383 |
| 71352 | 0 | 00000 | 0 | 06425 | 1701 | PZE | --1 | | RDCP0384 |
| 71353 | 0 | 00000 | 0 | 06424 | 1702 | PZE | --1 | | RDCP0385 |
| 71354 | -027777777777 | | | | 1703 | OCT | 427777777777 | | RDCP0386 |
| | | | | | 1704 | | ***** | | *RDCP0387 |
| 71355 | 0 | 06422 | 0 | 07335 | 1705 | HH43 | PNAME,--1 | L | RDCP0388 |
| 71356 | 0 | 00000 | 0 | 06421 | 1706 | PZE | --1 | | RDCP0389 |
| 71357 | 0 | 00000 | 0 | 06420 | 1707 | PZE | --1 | | RDCP0390 |
| 71360 | -037777777777 | | | | 1708 | OCT | 437777777777 | | RDCP0391 |
| | | | | | 1709 | | ***** | | *RDCP0392 |
| 71361 | 0 | 06416 | 0 | 07335 | 1710 | HH44 | PNAME,--1 | M | RDCP0393 |

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|-------|---------------|-------|---|-------|------|------|--------------|---------|----------|
| 71362 | 0 | 00000 | 0 | 06415 | 1711 | PZE | ---1 | | RDCP0394 |
| 71363 | 0 | 00000 | 0 | 06414 | 1712 | PZE | ---1 | | RDCP0395 |
| 71364 | -047777777777 | | | 1713 | 1714 | OCT | 447777777777 | | RDCP0396 |
| | | | | | | | ***** | | RDCP0397 |
| 71365 | 0 | 06412 | 0 | 07335 | 1715 | HH45 | PNAME,,--1 | N | RDCP0398 |
| 71366 | 0 | 00000 | 0 | 06411 | 1716 | PZE | ---1 | | RDCP0399 |
| 71367 | 0 | 00000 | 0 | 06410 | 1717 | PZE | ---1 | | RDCP0400 |
| 71370 | -057777777777 | | | 1718 | 1719 | OCT | 457777777777 | | RDCP0401 |
| | | | | | | | ***** | | RDCP0402 |
| 71371 | 0 | 06406 | 0 | 07335 | 1720 | HH46 | PNAME,,--1 | Q | RDCP0403 |
| 71372 | 0 | 00000 | 0 | 06405 | 1721 | PZE | ---1 | | RDCP0404 |
| 71373 | 0 | 00000 | 0 | 06404 | 1722 | PZE | ---1 | | RDCP0405 |
| 71374 | -067777777777 | | | 1723 | 1724 | OCT | 467777777777 | | RDCP0406 |
| | | | | | | | ***** | | RDCP0407 |
| 71375 | 0 | 06402 | 0 | 07335 | 1725 | HH47 | PNAME,,--1 | P | RDCP0408 |
| 71376 | 0 | 00000 | 0 | 06401 | 1726 | PZE | ---1 | | RDCP0409 |
| 71377 | 0 | 00000 | 0 | 06400 | 1727 | PZE | ---1 | | RDCP0410 |
| 71400 | -077777777777 | | | 1728 | 1729 | OCT | 477777777777 | | RDCP0411 |
| | | | | | | | ***** | | RDCP0412 |
| 71401 | 0 | 06376 | 0 | 07335 | 1730 | HH50 | PNAME,,--1 | Q | RDCP0413 |
| 71402 | 0 | 00000 | 0 | 06375 | 1731 | PZE | ---1 | | RDCP0414 |
| 71403 | 0 | 00000 | 0 | 06374 | 1732 | PZE | ---1 | | RDCP0415 |
| 71404 | -107777777777 | | | 1733 | 1734 | OCT | 507777777777 | | RDCP0416 |
| | | | | | | | ***** | | RDCP0417 |
| 71405 | 0 | 06372 | 0 | 07335 | 1735 | HH51 | PNAME,,--1 | R | RDCP0418 |
| 71406 | 0 | 00000 | 0 | 06371 | 1736 | PZE | ---1 | | RDCP0419 |
| 71407 | 0 | 00000 | 0 | 06370 | 1737 | PZE | ---1 | | RDCP0420 |
| 71410 | -117777777777 | | | 1738 | 1739 | OCT | 517777777777 | | RDCP0421 |
| | | | | | | | ***** | | RDCP0422 |
| 71411 | 0 | 06366 | 0 | 07335 | 1740 | HH52 | PNAME,,--1 | -0 | RDCP0423 |
| 71412 | 0 | 00000 | 0 | 06365 | 1741 | PZE | ---1 | | RDCP0424 |
| 71413 | 0 | 00000 | 0 | 06364 | 1742 | PZE | ---1 | | RDCP0425 |
| 71414 | 533143050253 | | | 1743 | 1744 | BCD | 1\$1L52\$ | | RDCP0426 |
| | | | | | | | ***** | | RDCP0427 |
| 71415 | 0 | 06362 | 0 | 07335 | 1745 | HH53 | PNAME,,--1 | \$ | RDCP0428 |
| 71416 | 0 | 00000 | 0 | 06361 | 1746 | PZE | ---1 | | RDCP0429 |
| 71417 | 0 | 00000 | 0 | 06360 | 1747 | PZE | ---1 | | RDCP0430 |
| 71420 | -137777777777 | | | 1748 | 1749 | OCT | 537777777777 | | RDCP0431 |
| | | | | | | | ***** | | RDCP0432 |
| 71421 | 0 | 06356 | 0 | 07335 | 1750 | HH54 | PNAME,,--1 | * | RDCP0433 |
| 71422 | 0 | 06353 | 0 | 06355 | 1751 | PZE | ---1,,--3 | | |
| 71423 | 0 | 00000 | 0 | 06354 | 1752 | PZE | ---1 | | RDCP0435 |
| 71424 | -147777777777 | | | 1753 | 1754 | OCT | 547777777777 | | RDCP0436 |
| 71425 | 0 | 06352 | 0 | 06706 | 1754 | PZE | SYM,,--1 | | |
| 71426 | 0 | 00000 | 0 | 61272 | 1755 | PZE | -C\$STAR | | |
| | | | | 1756 | | | ***** | | RDCP0437 |
| 71427 | 0 | 06350 | 0 | 07335 | 1757 | HH55 | PNAME,,--1 | ILLEGAL | RDCP0438 |
| 71430 | 0 | 00000 | 0 | 06347 | 1758 | PZE | ---1 | | RDCP0439 |
| 71431 | 0 | 00000 | 0 | 06346 | 1759 | PZE | ---1 | | RDCP0440 |
| 71432 | 533143050553 | | | 1760 | 1761 | BCD | 1\$1L55\$ | | RDCP0441 |
| | | | | | | | ***** | | RDCP0442 |
| 71433 | 0 | 06344 | 0 | 07335 | 1762 | HH56 | PNAME,,--1 | ILLEGAL | RDCP0443 |
| 71434 | 0 | 00000 | 0 | 06343 | 1763 | PZE | ---1 | | RDCP0444 |
| 71435 | 0 | 00000 | 0 | 06342 | 1764 | PZE | ---1 | | RDCP0445 |

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|-------|-----------------|------|------|--------------|---------|----------|
| 71436 | 533143050653 | 1765 | BCD | 1\$IL56\$ | | RDCP0446 |
| | | 1766 | | ***** | | RDCP0447 |
| 71437 | 0 06340 0 07335 | 1767 | HH57 | PNAME,--1 | ILLEGAL | RDCP0448 |
| 71440 | 0 00000 0 06337 | 1768 | | PZE --1 | | RDCP0449 |
| 71441 | 0 00000 0 06336 | 1769 | | PZE --1 | | RDCP0450 |
| 71442 | 533143050753 | 1770 | BCD | 1\$IL57\$ | | RDCP0451 |
| | | 1771 | | ***** | | RDCP0452 |
| 71443 | 0 06334 0 07335 | 1772 | HH60 | PNAME,--1 | BLANK | RDCP0453 |
| 71444 | 0 00000 0 06333 | 1773 | | PZE --1 | | RDCP0454 |
| 71445 | 0 00000 0 06332 | 1774 | | PZE --1 | | RDCP0455 |
| 71446 | -207777777777 | 1775 | OCT | 607777777777 | | RDCP0456 |
| | | 1776 | | ***** | | RDCP0457 |
| 71447 | 0 06330 0 07335 | 1777 | HH61 | PNAME,--1 | / | RDCP0458 |
| 71450 | 0 00000 0 06327 | 1778 | | PZE --1 | | RDCP0459 |
| 71451 | 0 00000 0 06326 | 1779 | | PZE --1 | | RDCP0460 |
| 71452 | -217777777777 | 1780 | OCT | 617777777777 | | RDCP0461 |
| | | 1781 | | ***** | | RDCP0462 |
| 71453 | 0 06324 0 07335 | 1782 | HH62 | PNAME,--1 | S | RDCP0463 |
| 71454 | 0 00000 0 06323 | 1783 | | PZE --1 | | RDCP0464 |
| 71455 | 0 00000 0 06322 | 1784 | | PZE --1 | | RDCP0465 |
| 71456 | -227777777777 | 1785 | OCT | 627777777777 | | RDCP0466 |
| | | 1786 | | ***** | | RDCP0467 |
| 71457 | 0 06320 0 77777 | 1787 | HH63 | -1,--1 | T | RDCP0468 |
| 71460 | 0 06317 0 10742 | 1788 | | APVAL,--1 | | RDCP0469 |
| 71461 | 0 06315 0 06316 | 1789 | | --1,--2 | | RDCP0470 |
| 71462 | 0 00000 0 00001 | 1790 | | 1 | | RDCP0471 |
| 71463 | 0 06314 0 07335 | 1791 | | PNAME,--1 | | RDCP0472 |
| 71464 | 0 00000 0 06313 | 1792 | | PZE --1 | | RDCP0473 |
| 71465 | 0 00000 0 06312 | 1793 | | PZE --1 | | RDCP0474 |
| 71466 | -237777777777 | 1794 | OCT | 637777777777 | | RDCP0475 |
| | | 1795 | | ***** | | RDCP0476 |
| 71467 | 0 06310 0 07335 | 1796 | HH64 | PNAME,--1 | U | RDCP0477 |
| 71470 | 0 00000 0 06307 | 1797 | | PZE --1 | | RDCP0478 |
| 71471 | 0 00000 0 06306 | 1798 | | PZE --1 | | RDCP0479 |
| 71472 | -247777777777 | 1799 | OCT | 647777777777 | | RDCP0480 |
| | | 1800 | | ***** | | RDCP0481 |
| 71473 | 0 06304 0 07335 | 1801 | HH65 | PNAME,--1 | V | RDCP0482 |
| 71474 | 0 00000 0 06303 | 1802 | | PZE --1 | | RDCP0483 |
| 71475 | 0 00000 0 06302 | 1803 | | PZE --1 | | RDCP0484 |
| 71476 | -257777777777 | 1804 | OCT | 657777777777 | | RDCP0485 |
| | | 1805 | | ***** | | RDCP0486 |
| 71477 | 0 06300 0 07335 | 1806 | HH66 | PNAME,--1 | W | RDCP0487 |
| 71500 | 0 00000 0 06277 | 1807 | | PZE --1 | | RDCP0488 |
| 71501 | 0 00000 0 06276 | 1808 | | PZE --1 | | RDCP0489 |
| 71502 | -267777777777 | 1809 | OCT | 667777777777 | | RDCP0490 |
| | | 1810 | | ***** | | RDCP0491 |
| 71503 | 0 06274 0 07335 | 1811 | HH67 | PNAME,--1 | X | RDCP0492 |
| 71504 | 0 00000 0 06273 | 1812 | | PZE --1 | | RDCP0493 |
| 71505 | 0 00000 0 06272 | 1813 | | PZE --1 | | RDCP0494 |
| 71506 | -277777777777 | 1814 | OCT | 677777777777 | | RDCP0495 |
| | | 1815 | | ***** | | RDCP0496 |
| 71507 | 0 06270 0 07335 | 1816 | HH70 | PNAME,--1 | Y | RDCP0497 |
| 71510 | 0 00000 0 06267 | 1817 | | PZE --1 | | RDCP0498 |
| 71511 | 0 00000 0 06266 | 1818 | | PZE --1 | | RDCP0499 |

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|-------|-----------------|--------|------|-----------------|---------------|----------|
| 71512 | -3077777777 | 1819 | OCT | 7077777777 | | RDCP0500 |
| | | 1820 | | ***** | | RDCP0501 |
| 71513 | 0 06264 0 07335 | 1821 | HH71 | PNAME,,--1 | Z | RDCP0502 |
| 71514 | 0 00000 0 06263 | 1822 | | PZE --1 | | RDCP0503 |
| 71515 | 0 00000 0 06262 | 1823 | | PZE --1 | | RDCP0504 |
| 71516 | -3177777777 | 1824 | OCT | 7177777777 | | RDCP0505 |
| | | 1825 | | ***** | | RDCP0506 |
| 71517 | 0 06260 0 07335 | 1826 | HH72 | PNAME,,--1 | END OF RECORD | RDCP0507 |
| 71520 | 0 06255 0 06257 | 1827 | | PZE --1,,--3 | | RDCP0508 |
| 71521 | 0 00000 0 06256 | 1828 | | PZE --1 | | RDCP0509 |
| 71522 | -132546515377 | 1829 | OCT | 532546515377 | BCD \$EOR\$ | RDC80267 |
| 71523 | 0 06254 0 10742 | 1830 | | PZE APVAL1,,--1 | | RDCP0511 |
| 71524 | 0 00000 0 06253 | 1831 | | PZE --1 | | RDCP0512 |
| 71525 | 0 00000 0 06221 | 1832 | | PZE H72 | | RDCP0513 |
| | | 1833 | | ***** | | RDCP0514 |
| 71526 | 0 06251 0 07335 | 1834 | HH73 | PNAME,,--1 | | RDCP0515 |
| 71527 | 0 00000 0 06250 | 1835 | | PZE --1 | | RDCP0516 |
| 71530 | 0 00000 0 06247 | 1836 | | PZE --1 | | RDCP0517 |
| 71531 | -3377777777 | 1837 | OCT | 7377777777 | | RDCP0518 |
| | | 1838 | | ***** | | RDCP0519 |
| 71532 | 0 06245 0 07335 | 1839 | HH74 | PNAME,,--1 | (| RDCP0520 |
| 71533 | 0 00000 0 06244 | 1840 | | PZE --1 | | RDCP0521 |
| 71534 | 0 00000 0 06243 | 1841 | | PZE --1 | | RDCP0522 |
| 71535 | -3477777777 | 1842 | OCT | 7477777777 | | RDCP0523 |
| | | 1843 | | ***** | | RDCP0524 |
| 71536 | 0 06241 0 07335 | 1844 | HH75 | PNAME,,--1 | ILLEGAL | RDCP0525 |
| 71537 | 0 00000 0 06240 | 1845 | | PZE --1 | | RDCP0526 |
| 71540 | 0 00000 0 06237 | 1846 | | PZE --1 | | RDCP0527 |
| 71541 | 533143070553 | 1847 | BCD | 1\$IL75\$ | | RDCP0528 |
| | | 1848 | | ***** | | RDCP0529 |
| 71542 | 0 06235 0 07335 | 1849 | HH76 | PNAME,,--1 | ILLEGAL | RDCP0530 |
| 71543 | 0 00000 0 06234 | 1850 | | PZE --1 | | RDCP0531 |
| 71544 | 0 00000 0 06233 | 1851 | | PZE --1 | | RDCP0532 |
| 71545 | 533143070653 | 1852 | BCD | 1\$IL76\$ | | RDCP0533 |
| | | 1853 | | ***** | | RDCP0534 |
| 71546 | 0 06231 0 07335 | 1854 | HH77 | PNAME,,--1 | ILLEGAL | RDCP0535 |
| 71547 | 0 00000 0 06230 | 1855 | | PZE --1 | | RDCP0536 |
| 71550 | 0 00000 0 06227 | 1856 | | PZE --1 | | RDCP0537 |
| 71551 | 533143070753 | 1857 | BCD | 1\$IL77\$ | | RDCP0538 |
| | | 1858 * | | | | RDCP0539 |
| | | 1859 * | | | | RDCP0540 |
| 71552 | 0 06232 0 77777 | 1860 | H77 | -1,,--HH77 | | RDCP0541 |
| 71553 | 0 06236 0 77777 | 1861 | H76 | -1,,--HH76 | | RDCP0542 |
| 71554 | 0 06242 0 77777 | 1862 | H75 | -1,,--HH75 | | RDCP0543 |
| 71555 | 0 06246 0 77777 | 1863 | H74 | -1,,--HH74 | | RDCP0544 |
| 71556 | 0 06252 0 77777 | 1864 | H73 | -1,,--HH73 | | RDCP0545 |
| 71557 | 0 06261 0 77777 | 1865 | H72 | -1,,--HH72 | | RDCP0546 |
| 71560 | 0 06265 0 77777 | 1866 | H71 | -1,,--HH71 | | RDCP0547 |
| 71561 | 0 06271 0 77777 | 1867 | H70 | -1,,--HH70 | | RDCP0548 |
| 71562 | 0 06275 0 77777 | 1868 | H67 | -1,,--HH67 | | RDCP0549 |
| 71563 | 0 06301 0 77777 | 1869 | H66 | -1,,--HH66 | | RDCP0550 |
| 71564 | 0 06305 0 77777 | 1870 | H65 | -1,,--HH65 | | RDCP0551 |
| 71565 | 0 06311 0 77777 | 1871 | H64 | -1,,--HH64 | | RDCP0552 |
| 71566 | 0 06321 0 77777 | 1872 | H63 | -1,,--HH63 | | RDCP0553 |

| | | | | | | | | |
|-------|---|-------|---|-------|------|------------|------------|----------|
| 71567 | 0 | 06325 | 0 | 77777 | 1873 | H62 | -1,-HH62 | RDCP0554 |
| 71570 | 0 | 06331 | 0 | 77777 | 1874 | H61 | -1,-HH61 | RDCP0555 |
| 71571 | 0 | 06335 | 0 | 77777 | 1875 | H60 | -1,-HH60 | RDCP0556 |
| 71572 | 0 | 06341 | 0 | 77777 | 1876 | H57 | -1,-HH57 | RDCP0557 |
| 71573 | 0 | 06345 | 0 | 77777 | 1877 | H56 | -1,-HH56 | RDCP0558 |
| 71574 | 0 | 06351 | 0 | 77777 | 1878 | H55 | -1,-HH55 | RDCP0559 |
| 71575 | 0 | 06357 | 0 | 77777 | 1879 | H54 | -1,-HH54 | RDCP0560 |
| 71576 | 0 | 06363 | 0 | 77777 | 1880 | H53 | -1,-HH53 | RDCP0561 |
| 71577 | 0 | 06367 | 0 | 77777 | 1881 | H52 | -1,-HH52 | RDCP0562 |
| 71600 | 0 | 06373 | 0 | 77777 | 1882 | H51 | -1,-HH51 | RDCP0563 |
| 71601 | 0 | 06377 | 0 | 77777 | 1883 | H50 | -1,-HH50 | RDCP0564 |
| 71602 | 0 | 06403 | 0 | 77777 | 1884 | H47 | -1,-HH47 | RDCP0565 |
| 71603 | 0 | 06407 | 0 | 77777 | 1885 | H46 | -1,-HH46 | RDCP0566 |
| 71604 | 0 | 06413 | 0 | 77777 | 1886 | H45 | -1,-HH45 | RDCP0567 |
| 71605 | 0 | 06417 | 0 | 77777 | 1887 | H44 | -1,-HH44 | RDCP0568 |
| 71606 | 0 | 06423 | 0 | 77777 | 1888 | H43 | -1,-HH43 | RDCP0569 |
| 71607 | 0 | 06427 | 0 | 77777 | 1889 | H42 | -1,-HH42 | RDCP0570 |
| 71610 | 0 | 06433 | 0 | 77777 | 1890 | H41 | -1,-HH41 | RDCP0571 |
| 71611 | 0 | 06437 | 0 | 77777 | 1891 | H40 | -1,-HH40 | RDCP0572 |
| 71612 | 0 | 06443 | 0 | 77777 | 1892 | H37 | -1,-HH37 | RDCP0573 |
| 71613 | 0 | 06447 | 0 | 77777 | 1893 | H36 | -1,-HH36 | RDCP0574 |
| 71614 | 0 | 06453 | 0 | 77777 | 1894 | H35 | -1,-HH35 | RDCP0575 |
| 71615 | 0 | 06457 | 0 | 77777 | 1895 | H34 | -1,-HH34 | RDCP0576 |
| 71616 | 0 | 06463 | 0 | 77777 | 1896 | H33 | -1,-HH33 | RDCP0577 |
| 71617 | 0 | 06467 | 0 | 77777 | 1897 | H32 | -1,-HH32 | RDCP0578 |
| 71620 | 0 | 06473 | 0 | 77777 | 1898 | H31 | -1,-HH31 | RDCP0579 |
| 71621 | 0 | 06477 | 0 | 77777 | 1899 | H30 | -1,-HH30 | RDCP0580 |
| 71622 | 0 | 06503 | 0 | 77777 | 1900 | H27 | -1,-HH27 | RDCP0581 |
| 71623 | 0 | 06513 | 0 | 77777 | 1901 | H26 | -1,-HH26 | RDCP0582 |
| 71624 | 0 | 06517 | 0 | 77777 | 1902 | H25 | -1,-HH25 | RDCP0583 |
| 71625 | 0 | 06523 | 0 | 77777 | 1903 | H24 | -1,-HH24 | RDCP0584 |
| 71626 | 0 | 06527 | 0 | 77777 | 1904 | H23 | -1,-HH23 | RDCP0585 |
| 71627 | 0 | 06533 | 0 | 77777 | 1905 | H22 | -1,-HH22 | RDCP0586 |
| 71630 | 0 | 06537 | 0 | 77777 | 1906 | H21 | -1,-HH21 | RDCP0587 |
| 71631 | 0 | 06543 | 0 | 77777 | 1907 | H20 | -1,-HH20 | RDCP0588 |
| 71632 | 0 | 06547 | 0 | 77777 | 1908 | H17 | -1,-HH17 | RDCP0589 |
| 71633 | 0 | 06553 | 0 | 77777 | 1909 | H16 | -1,-HH16 | RDCP0590 |
| 71634 | 0 | 06557 | 0 | 77777 | 1910 | H15 | -1,-HH15 | RDCP0591 |
| 71635 | 0 | 06563 | 0 | 77777 | 1911 | H14 | -1,-HH14 | RDCP0592 |
| 71636 | 0 | 06567 | 0 | 77777 | 1912 | H13 | -1,-HH13 | RDCP0593 |
| 71637 | 0 | 06576 | 0 | 77777 | 1913 | H12 | -1,-HH12 | RDCP0594 |
| 71640 | 0 | 06577 | 1 | 77777 | 1914 | H11 | -1,1,-HH11 | |
| 71641 | 0 | 06600 | 1 | 77777 | 1915 | H10 | -1,1,-HH10 | |
| 71642 | 0 | 06601 | 1 | 77777 | 1916 | H07 | -1,1,-HH07 | |
| 71643 | 0 | 06602 | 1 | 77777 | 1917 | H06 | -1,1,-HH06 | |
| 71644 | 0 | 06603 | 1 | 77777 | 1918 | H05 | -1,1,-HH05 | |
| 71645 | 0 | 06604 | 1 | 77777 | 1919 | H04 | -1,1,-HH04 | |
| 71646 | 0 | 06605 | 1 | 77777 | 1920 | H03 | -1,1,-HH03 | |
| 71647 | 0 | 06606 | 1 | 77777 | 1921 | H02 | -1,1,-HH02 | |
| 71650 | 0 | 06607 | 1 | 77777 | 1922 | H01 | -1,1,-HH01 | |
| 71651 | 0 | 06610 | 1 | 77777 | 1923 | H00 | -1,1,-HH00 | |
| 71652 | | | | | 1924 | UPERML BSS | 0 | |

1925

EJECT

| | 1926 | EJECT | |
|-------|----------|---|----------|
| | 1927 | HEAD | 0 |
| | 1928 * | SYN CARDS CAUSE MANY SYMBOLS TO HAVE 0-HEADED EQUIVALENTS | |
| | 1929 * | | |
| 06127 | 1930 H00 | SYN -)H00 | RDC80471 |
| 06130 | 1931 H01 | SYN -)H01 | RDC80472 |
| 06131 | 1932 H02 | SYN -)H02 | RDC80473 |
| 06132 | 1933 H03 | SYN -)H03 | RDC80474 |
| 06133 | 1934 H04 | SYN -)H04 | RDC80475 |
| 06134 | 1935 H05 | SYN -)H05 | RDC80476 |
| 06135 | 1936 H06 | SYN -)H06 | RDC80477 |
| 06136 | 1937 H07 | SYN -)H07 | RDC80478 |
| 06137 | 1938 H10 | SYN -)H10 | RDC80479 |
| 06140 | 1939 H11 | SYN -)H11 | RDC80480 |
| 06141 | 1940 H12 | SYN -)H12 | RDC80481 |
| 06142 | 1941 H13 | SYN -)H13 | RDC80482 |
| 06143 | 1942 H14 | SYN -)H14 | RDC80483 |
| 06144 | 1943 H15 | SYN -)H15 | RDC80484 |
| 06145 | 1944 H16 | SYN -)H16 | RDC80485 |
| 06146 | 1945 H17 | SYN -)H17 | RDC80486 |
| 06147 | 1946 H20 | SYN -)H20 | RDC80487 |
| 06150 | 1947 H21 | SYN -)H21 | RDC80488 |
| 06151 | 1948 H22 | SYN -)H22 | RDC80489 |
| 06152 | 1949 H23 | SYN -)H23 | RDC80490 |
| 06153 | 1950 H24 | SYN -)H24 | RDC80491 |
| 06154 | 1951 H25 | SYN -)H25 | RDC80492 |
| 06155 | 1952 H26 | SYN -)H26 | RDC80493 |
| 06156 | 1953 H27 | SYN -)H27 | RDC80494 |
| 06157 | 1954 H30 | SYN -)H30 | RDC80495 |
| 06160 | 1955 H31 | SYN -)H31 | RDC80496 |
| 06161 | 1956 H32 | SYN -)H32 | RDC80497 |
| 06162 | 1957 H33 | SYN -)H33 | RDC80498 |
| 06163 | 1958 H34 | SYN -)H34 | RDC80499 |
| 06164 | 1959 H35 | SYN -)H35 | RDC80500 |
| 06165 | 1960 H36 | SYN -)H36 | RDC80501 |
| 06166 | 1961 H37 | SYN -)H37 | RDC80502 |
| 06167 | 1962 H40 | SYN -)H40 | RDC80503 |
| 06170 | 1963 H41 | SYN -)H41 | RDC80504 |
| 06171 | 1964 H42 | SYN -)H42 | RDC80505 |
| 06172 | 1965 H43 | SYN -)H43 | RDC80506 |
| 06173 | 1966 H44 | SYN -)H44 | RDC80507 |
| 06174 | 1967 H45 | SYN -)H45 | RDC80508 |
| 06175 | 1968 H46 | SYN -)H46 | RDC80509 |
| 06176 | 1969 H47 | SYN -)H47 | RDC80510 |
| 06177 | 1970 H50 | SYN -)H50 | RDC80511 |
| 06200 | 1971 H51 | SYN -)H51 | RDC80512 |
| 06201 | 1972 H52 | SYN -)H52 | RDC80513 |
| 06202 | 1973 H53 | SYN -)H53 | RDC80514 |
| 06203 | 1974 H54 | SYN -)H54 | RDC80515 |
| 06204 | 1975 H55 | SYN -)H55 | RDC80516 |
| 06205 | 1976 H56 | SYN -)H56 | RDC80517 |
| 06206 | 1977 H57 | SYN -)H57 | RDC80518 |
| 06207 | 1978 H60 | SYN -)H60 | RDC80519 |
| 06210 | 1979 H61 | SYN -)H61 | RDC80520 |

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|-------|------|--------|-----|---------|----------|
| 06211 | 1980 | H62 | SYN | -)H62 | RDC80521 |
| 06212 | 1981 | H63 | SYN | -)H63 | RDC80522 |
| 06213 | 1982 | H64 | SYN | -)H64 | RDC80523 |
| 06214 | 1983 | H65 | SYN | -)H65 | RDC80524 |
| 06215 | 1984 | H66 | SYN | -)H66 | RDC80525 |
| 06216 | 1985 | H67 | SYN | -)H67 | RDC80526 |
| 06217 | 1986 | H70 | SYN | -)H70 | RDC80527 |
| 06220 | 1987 | H71 | SYN | -)H71 | RDC80528 |
| 06221 | 1988 | H72 | SYN | -)H72 | RDC80529 |
| 06222 | 1989 | H73 | SYN | -)H73 | RDC80530 |
| 06223 | 1990 | H74 | SYN | -)H74 | RDC80531 |
| 06224 | 1991 | H75 | SYN | -)H75 | RDC80532 |
| 06225 | 1992 | H76 | SYN | -)H76 | RDC80533 |
| 06226 | 1993 | H77 | SYN | -)H77 | RDC80534 |
| 10772 | 1994 | AND | SYN | -)002 | LD137600 |
| 10762 | 1995 | F1 | SYN | -)003 | LD137700 |
| 10752 | 1996 | F18 | SYN | -)004 | LD137800 |
| 10742 | 1997 | APVAL | SYN | -)005 | LD137900 |
| 10742 | 1998 | APVAL1 | SYN | -)005 | |
| 10735 | 1999 | ARRAY | SYN | -)111 | |
| 10725 | 2000 | ATOM | SYN | -)007 | LD138100 |
| 10715 | 2001 | F29 | SYN | -)008 | LD138200 |
| 06155 | 2002 | F | SYN | H26 | RDCW0000 |
| 06212 | 2003 | T | SYN | H63 | RDCW0001 |
| 10675 | 2004 | CAR | SYN | -)011 | LD140000 |
| 10665 | 2005 | CDR | SYN | -)012 | LD140100 |
| 06222 | 2006 | COMMA | SYN | H73 | |
| 10460 | 2007 | COND | SYN | -)016 | LD140400 |
| 10450 | 2008 | CONSN | SYN | -)017 | LD140500 |
| 10323 | 2009 | DUMP | SYN | -)DMPOB | |
| 10440 | 2010 | F12 | SYN | -)019 | LD140700 |
| 10430 | 2011 | COPYN | SYN | -)020 | LD140800 |
| 10420 | 2012 | F35 | SYN | -)021 | LD140900 |
| 10261 | 2013 | EQ | SYN | -)030 | LD141100 |
| 10241 | 2014 | F8 | SYN | -)032 | LD141300 |
| 10231 | 2015 | F21 | SYN | -)034 | LD141400 |
| 10177 | 2016 | F19 | SYN | -)035 | LD141500 |
| 10167 | 2017 | EVLISL | SYN | -)036 | LD141600 |
| 10157 | 2018 | EXPR | SYN | -)037 | LD141700 |
| 10152 | 2019 | F32 | SYN | -)038 | LD141800 |
| 10142 | 2020 | FEXPR | SYN | -)040 | LD142000 |
| 10135 | 2021 | BIN | SYN | -)041 | 6D142100 |
| 10135 | 2022 | FIX | SYN | -)041 | LD142100 |
| 10120 | 2023 | FLOAT | SYN | -)042 | LD142200 |
| 10103 | 2024 | FSUBR | SYN | -)043 | LD142300 |
| 10076 | 2025 | FUNARG | SYN | -)044 | LD142400 |
| 10071 | 2026 | FUNCT | SYN | -)045 | LD142500 |
| 10057 | 2027 | SYMGEN | SYN | -)046 | LD142600 |
| 10047 | 2028 | CGET | SYN | -)231 | LD159000 |
| 10037 | 2029 | GO | SYN | -)047 | LD142700 |
| 10015 | 2030 | F16 | SYN | -)052 | LD143000 |
| 10005 | 2031 | LABEL | SYN | -)054 | LD143100 |
| 07775 | 2032 | LAMBDA | SYN | -)055 | LD143200 |
| 07770 | 2033 | LAP | SYN | -)LAP | |

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|-------|------|--------|-----|--------|----------|
| 07736 | 2034 | LIST | SYN | -)057 | LD143300 |
| 07716 | 2035 | LOADA | SYN | -)234A | |
| 07646 | 2036 | PMAPCA | SYN | -)065 | LD144000 |
| 07614 | 2037 | MAXP | SYN | -)117 | |
| 07574 | 2038 | MINUS | SYN | -)070 | LD144300 |
| 07604 | 2039 | MINP | SYN | -)118 | |
| 07544 | 2040 | F3 | SYN | -)071 | LD144400 |
| 00000 | 2041 | NIL | SYN | 0 | |
| 07534 | 2042 | NOT | SYN | -)074 | LD144800 |
| 07524 | 2043 | NULL | SYN | -)075 | LD144900 |
| 07472 | 2044 | OBLBA | SYN | -)079A | |
| 07435 | 2045 | OR | SYN | -)079 | LD145200 |
| 07415 | 2046 | F2 | SYN | -)080 | LD145300 |
| 07405 | 2047 | PAUSE | SYN | -)234C | LD145400 |
| 07365 | 2048 | PLB | SYN | -)234B | LD145600 |
| 07355 | 2049 | PLUS | SYN | -)081 | LD145700 |
| 07335 | 2050 | PNAME | SYN | -)083 | LD145800 |
| 07320 | 2051 | F4 | SYN | -)087 | LD146100 |
| 07300 | 2052 | PRQG | SYN | -)089 | LD146300 |
| 07260 | 2053 | PRUPO | SYN | -)090 | LD146400 |
| 07250 | 2054 | QUOTE | SYN | -)094 | LD146500 |
| 07226 | 2055 | F13 | SYN | -)096 | LD146600 |
| 07206 | 2056 | RCLAM | SYN | -)234D | LD146800 |
| 07140 | 2057 | PRPLCA | SYN | -)100 | LD146900 |
| 07130 | 2058 | PRPLCD | SYN | -)101 | LD147000 |
| 07150 | 2059 | RETATM | SYN | -)102 | |
| 07052 | 2060 | SASCO | SYN | -)106 | LD147400 |
| 07061 | 2061 | SLIST | SYN | -)11ST | |
| 07110 | 2062 | SPEAL | SYN | -)SPCL | |
| 07101 | 2063 | SMOVE | SYN | -)MCV | |
| 07072 | 2064 | SRETUR | SYN | -)RTRN | |
| 07042 | 2065 | SRCH | SYN | -)236 | LD147500 |
| 07032 | 2066 | SET | SYN | -)107 | LD147600 |
| 07022 | 2067 | SETQ | SYN | -)108 | LD147700 |
| 06772 | 2068 | STOP | SYN | -)111 | LD147800 |
| 07002 | 2069 | F34 | SYN | -)109 | LD147900 |
| 06733 | 2070 | SUBR | SYN | -)113 | LD148100 |
| 06726 | 2071 | F17 | SYN | -)114 | LD148200 |
| 06716 | 2072 | F30 | SYN | -)115 | LD148300 |
| 06671 | 2073 | F27 | SYN | -)122 | LD149000 |
| 06706 | 2074 | SYM | SYN | -)SYM | |
| 06657 | 2075 | TIMES | SYN | -)124 | LD149200 |
| 06647 | 2076 | TRACE | SYN | -)213 | |
| 06642 | 2077 | F36 | SYN | -)127 | LD149500 |
| 10655 | 2078 | CAAR | SYN | -)201 | LD156400 |
| 10645 | 2079 | CDAR | SYN | -)202 | LD156500 |
| 10635 | 2080 | CADR | SYN | -)203 | LD156600 |
| 10625 | 2081 | CDDR | SYN | -)204 | LD156700 |
| 10615 | 2082 | CAAR | SYN | -)205 | LD156800 |
| 10605 | 2083 | CAADR | SYN | -)206 | LD156900 |
| 10575 | 2084 | CADAR | SYN | -)207 | LD157000 |
| 10565 | 2085 | CADDR | SYN | -)208 | LD157100 |
| 10555 | 2086 | CDAAR | SYN | -)209 | LD157200 |
| 10545 | 2087 | CDADR | SYN | -)210 | LD157300 |

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|-------|------|--------|-----|----------|-----------|----------|
| 10535 | 2088 | CDDAR | SYN | -)211 | | LD157400 |
| 10525 | 2089 | CDDDR | SYN | -)212 | | LD157500 |
| 07162 | 2090 | REMP | SYN | -)250 | | LD159600 |
| 10410 | 2091 | PJ1 | SYN | -)PJ1 | | RDC80535 |
| 11013 | 2092 | PJ2 | SYN | -)PJ2 | | RDC80536 |
| 10221 | 2093 | PJ4 | SYN | -)PJ4 | | RDC80537 |
| 10251 | 2094 | PJ5 | SYN | -)PJ5 | | RDC80538 |
| 10470 | 2095 | PJ6 | SYN | -)PJ6 | | RDC80539 |
| 07656 | 2096 | PJ7 | SYN | -)PJ7 | | RDC80540 |
| 07120 | 2097 | PJ8 | SYN | -)PJ8 | | RDC80541 |
| 07375 | 2098 | PJ9 | SYN | -)PJ9 | | RDC80542 |
| 10333 | 2099 | PJ10 | SYN | -)PJ10 | | RDC80543 |
| 07345 | 2100 | PJ11 | SYN | -)PJ11 | | RDC80544 |
| 10705 | 2101 | PJ12 | SYN | -)PJ12 | | RDC80545 |
| 07012 | 2102 | PJ14 | SYN | -)PJ14 | | RDC80546 |
| 06765 | 2103 | PJ15 | SYN | -)PJ15 | | RDC80547 |
| 10375 | 2104 | PJ16 | SYN | -)PJ16 | | RDC80548 |
| 07726 | 2105 | PJ17 | SYN | -)PJ17 | | RDC80549 |
| 07445 | 2106 | PJ18 | SYN | -)PJ18 | | RDC80550 |
| 10353 | 2107 | PJ19 | SYN | -)PJ19 | | RDC80551 |
| 06755 | 2108 | PJ21 | SYN | -)PJ21 | | RDC80552 |
| 06701 | 2109 | PJ23 | SYN | -)PJ23 | | RDC80553 |
| 07425 | 2110 | PJ24 | SYN | -)PJ24 | | RDC80554 |
| 07502 | 2111 | PJ25 | SYN | -)PJ25 | | RDC80555 |
| 07554 | 2112 | PJ26 | SYN | -)PJ26 | | RDC80556 |
| 10502 | 2113 | PJ27 | SYN | -)PJ27 | | RDC80557 |
| 07462 | 2114 | PJ28 | SYN | -)PJ28 | | RDC80558 |
| 10313 | 2115 | PJ30 | SYN | -)PJ30 | | RDC80559 |
| 06630 | 2116 | PJ31 | SYN | -)PJ31 | | RDC80560 |
| 10515 | 2117 | PJ32 | SYN | -)PJ32 | | RDC80561 |
| 07330 | 2118 | PJ33 | SYN | -)PJ33 | | RDC80563 |
| 10301 | 2119 | PJ34 | SYN | -)PJ34 | | RDC80564 |
| 10271 | 2120 | PJ35 | SYN | -)PJ35 | | RDC80565 |
| 07676 | 2121 | PJ36 | SYN | -)PJ36 | | RDC80566 |
| 07706 | 2122 | PJ37 | SYN | -)PJ37 | | RDC80567 |
| 07666 | 2123 | PJ38 | SYN | -)PJ38 | | RDC80568 |
| 07310 | 2124 | PJ39 | SYN | -)PJ39 | | RDC80569 |
| 10211 | 2125 | ERSETO | SYN | -)PJ41 | | |
| 07760 | 2126 | PVW1 | SYN | -PVV1 | LEFTSHIFT | RDC70410 |
| 07462 | 2127 | OCT | SYN | PJ28 | | RDC80570 |
| 07216 | 2128 | RECIP | SYN | -)I18 | | RDC80572 |
| 14401 | 2129 | ADD1 | SYN | Q\$ADD1 | | RDCZ0015 |
| 14126 | 2130 | ADDP | SYN | Q\$ADDP | | |
| 15016 | 2131 | APP2 | SYN | A\$APP2 | | LD163600 |
| 14663 | 2132 | APPLY | SYN | A\$APPLY | | LD163500 |
| 10011 | 2133 | APROP | SYN | R\$PROP | | LD165600 |
| 15230 | 2134 | ATOMP | SYN | R\$ATOMP | | LD164000 |
| 15212 | 2135 | CARP | SYN | R\$CARP | | LD163800 |
| 15222 | 2136 | CDRP | SYN | R\$CCRP | | LD163900 |
| 06370 | 2137 | CELL | SYN | I\$CELL | | LD162600 |
| 12635 | 2138 | CHACT | SYN | F\$CHACT | | RDCZ0009 |
| 12201 | 2139 | CLEAR | SYN | F\$CLEAR | | RDCI0529 |
| 04345 | 2140 | COPY | SYN | R\$CCPY | | LD161600 |
| 07343 | 2141 | CP1 | SYN | C\$CP1 | | LD162900 |

| | | | | | |
|-------|------|-------|-----|----------|--------------------|
| 12634 | 2142 | CURC | SYN | F\$CURC | RDCZ0003 |
| 12633 | 2143 | CURC1 | SYN | F\$CURC1 | RDCZ0004 |
| 04111 | 2144 | DECON | SYN | E\$DECON | LD161200 |
| 12337 | 2145 | DIGIT | SYN | F\$DIGIT | RDCI0532 |
| 15445 | 2146 | EQP | SYN | R\$EQP | LD165100 |
| 04461 | 2147 | EQUAL | SYN | L\$EQUAL | LD161900 |
| 12346 | 2148 | EROR1 | SYN | F\$EROR1 | RDCI0534 |
| 15454 | 2149 | EVAL | SYN | A\$EVAL | LD165200 |
| 11310 | 2150 | EVALQ | SYN | S\$EVALQ | |
| 15370 | 2151 | EVAND | SYN | R\$EVAN | LD165000 |
| 15154 | 2152 | EVCON | SYN | A\$EVCON | LD163700 |
| 15774 | 2153 | EVLIS | SYN | A\$EVLIS | |
| 15416 | 2154 | EVOR | SYN | R\$EVRB | LD164900 |
| 13530 | 2155 | EXPT | SYN | Q\$EXPT | |
| 14466 | 2156 | FIXP | SYN | Q\$FIXP | RDCZ0016 |
| 00663 | 2157 | INPUT | SYN | B\$INPUT | |
| 16130 | 2158 | INTER | SYN | R\$INTER | LD165400 |
| 15264 | 2159 | LABP | SYN | R\$LABP | LD164400 |
| 15250 | 2160 | LAMP | SYN | R\$LAMP | LD164300 |
| 12321 | 2161 | LITER | SYN | F\$LITER | RDCI0536 |
| 12662 | 2162 | LOGOR | SYN | H\$LOGOR | RDCI0537 |
| 14150 | 2163 | MAX | SYN | Q\$MAX | RDCZ0017 |
| 07620 | 2164 | MAP | SYN | MAPCAR | LD163200 |
| 14142 | 2165 | MIN | SYN | Q\$MIN | RDCZ0018 |
| 12147 | 2166 | MKNAM | SYN | F\$MKNAM | RDCI0540 |
| 12636 | 2167 | MKNO | SYN | F\$MKNO | RDCI0541 |
| 14134 | 2168 | MULT | SYN | Q\$MULT | RDCZ0019 |
| 07675 | 2169 | NCONC | SYN | R\$NCONC | LD163300 |
| 10150 | 2170 | NOTS | SYN | R\$NOTS | LD166200 |
| 15243 | 2171 | NULLP | SYN | R\$NULLP | LD164100 |
| 06622 | 2172 | NUMBR | SYN | F\$NUMBR | RDCI0544 |
| 12071 | 2173 | NUMOB | SYN | F\$NUMOB | RDCI0543 |
| 06543 | 2174 | NUTRN | SYN | T\$NUTRN | LD162700 |
| 14533 | 2175 | ONEP | SYN | Q\$ONEP | RDCZ0020 |
| 10220 | 2176 | OVBGN | SYN | S\$OVBGN | OVERLORD BEGINNING |
| 12032 | 2177 | PACK | SYN | F\$PACK | RDCI0546 |
| 07562 | 2178 | PAIR | SYN | A\$PAIR | LD163100 |
| 13572 | 2179 | POWR | SYN | G\$POWR | LD166700 |
| 04620 | 2180 | PRINO | SYN | T\$PRINO | |
| 04703 | 2181 | PRIN1 | SYN | T\$PRIN1 | LD162000 |
| 05110 | 2182 | PRIN2 | SYN | T\$PRIN2 | |
| 04604 | 2183 | PRINT | SYN | T\$PRINT | LD161800 |
| 10011 | 2184 | PROP | SYN | R\$PROP | LD165700 |
| 05341 | 2185 | PUN2 | SYN | T\$PUN2 | |
| 05325 | 2186 | PUNCH | SYN | T\$PUNCH | |
| 06026 | 2187 | RD | SYN | I\$RC | LD162400 |
| 05732 | 2188 | READ | SYN | I\$READ | LD162200 |
| 05757 | 2189 | READ1 | SYN | I\$READ1 | LD162300 |
| 15346 | 2190 | SETP | SYN | R\$SETP | LD164700 |
| 15311 | 2191 | SETQP | SYN | R\$SETQP | |
| 02077 | 2192 | SETUP | SYN | E\$SETUP | |
| 14430 | 2193 | SUB1 | SYN | Q\$SUB1 | |
| 07367 | 2194 | SUBST | SYN | R\$SUBST | LD163000 |
| 14565 | 2195 | UNFIX | SYN | Q\$UNFIX | RDCZ0022 |

| | | | | | | | | | |
|-------|------|--------|------|----------|---------------------------|------------|----------------------------|--|----------|
| 06533 | 2196 | VALUE | SYN | I\$VALUE | | | | | LD162500 |
| 14507 | 2197 | ZEROP | SYN | Q\$ZEROP | | | | | RDC70023 |
| 10042 | 2198 | APSSOC | SYN | SASSOC | | | | | LD165800 |
| | | | DECK | | | | | BUTCH REGION AND END | |
| | | | 1 | HEAD | 0 | | | | |
| | | | 2 | * | | | | | LC893200 |
| | | | 3 | * | BUTCH, A HOME FOR PATCHES | | | | LC894000 |
| | | | 4 | * | | | | | LC894100 |
| 71652 | 0 | 00000 | 0 | 00000 | 5 | BUTCH | | | |
| | | 05766 | | | 6 | BUTCHL EQU | NILSXX-+1 | LENGTH OF BUTCH REGION | |
| | | | | | 7 | | | | LD167100 |
| | | 77724 | | | 8 | TCD | LOADER | GO TO RW TML FOR OCTAL CORRECTION CDS | |
| | | | | | 9 | * | | | |
| | | | | | 10 | * | | THE FOLLOWING PRODUCE A ROW BINARY TRANSFER CARD TO CONTIN | |
| | | | | | 11 | * | | | |
| | | | | | 12 | FUL | | | |
| 00000 | | | | | 13 | ORG | 0 | | |
| 00174 | | | | | 14 | AAAAA EQU | CONTIN | | |
| 00000 | | | | | 15 | BBBBB EQU | AAAAA-AAAAA/2*2 | | |
| 00000 | | | | | 16 | CCCCC EQU | AAAAA/2-AAAAA/4*2 | | |
| 00001 | | | | | 17 | DDDDD EQU | AAAAA/4-AAAAA/8*2 | | |
| 00001 | | | | | 18 | EEEE E EQU | AAAAA/8-AAAAA/16*2 | | |
| 00001 | | | | | 19 | FFFFF EQU | AAAAA/16-AAAAA/32*2 | | |
| 00001 | | | | | 20 | GGGGG EQU | AAAAA/32-AAAAA/64*2 | | |
| 00001 | | | | | 21 | HHHHH EQU | AAAAA/64-AAAAA/128*2 | | |
| 00000 | | | | | 22 | IIIII EQU | AAAAA/128-AAAAA/256*2 | | |
| 00000 | | | | | 23 | JJJJJ EQU | AAAAA/256-AAAAA/512*2 | | |
| 00000 | | | | | 24 | OCT | 0,0,0,0,0,0,0,0,0 | | |
| C0000 | | | | | | | | | |
| C0001 | | | | | | | | | |
| C0002 | | | | | | | | | |
| C0003 | | | | | | | | | |
| C0004 | | | | | | | | | |
| C0005 | | | | | | | | | |
| C0006 | | | | | | | | | |
| C0007 | | | | | | | | | |
| C0010 | | | | | | | | | |
| C0011 | 0 | 00000 | 0 | 00001 | 25 | PZE | HHHHH+4096*IIIII,,64*JJJJJ | | |
| C0012 | 0 | 00100 | 0 | 10001 | 26 | PZE | EEEE+4096*FFFFF,,64*GGGGG | | |
| C0013 | 0 | 00100 | 0 | 00000 | 27 | PZE | BBBBB+4096*CCCCC,,64*DDDDD | | |
| | | | | 00000 | 28 | ENDENC | END | 0 | |

77712 IS THE FIRST LOCATION NOT USED BY THIS PROGRAM
NO ERROR IN ABOVE ASSEMBLY

17
16
15
14
13
12
11
10
9
8
7
6
5
4

DUMPS FOR JOB LISP

77000 COREPM 0,00000,00013

AC CC + 000000 000000 +.00000000+00 MQ + 006060 606060 +.17912294-37 SI 000000 077712 OVFL ON DC OFF IOC OFF
IR1 00004 00004 IR2 77776 32766 IR4 05722 03026 SL 0000 SW 000000 EK +000000 000000

0 CC000 HTR 000006 074500 TCCA 006000 000001 TTR 002100 074435 HTR 000000 000000
0 CC004 +4 HTR 000000 000000 HTR 000000 000000 HTR 000000 000000 HTR 000000 000000
0 CC010 +8 TTR 002100 074502 HTR 000000 000000 HTR 000000 000000 TTR 002100 075024

ALL DUMPS COMPLETED

\$\$\$ JOB LISP 5/07 15.0498 15.1533 0.1035 B

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MACHINE 31