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1 * THIS IS A COPYRIGHTED PROGRAM, COPYRIGHT 1970 BY VARIAN DATA MACHINES 01 00001
2 * 01 00002
3 * V.D.M. PART NO. 92L0107-009E *****
4 * 01 00004
5 * RELEASED 06-13-74 01 00005
6 * 01 00006
7 * 620 PIM TEST 01 00007
8 * 01 00008
9 * 01 00009
10 * 01 00010
11 * 01 00011
12 * 01 00012
13 * ***** 620P/620I PRIORITY INTERRUPT MODULE (PIM) TEST ***** 01 00013
14 * 01 00014
15 * *****
16 * 01 00015
17 * RETURN TO EXECUTIVE *01 00016
18 * *01 00017
19 * 01 00018
20 * ***** 01 00019
21 * *01 00020
22 * 01 00021
23 * ORG 0 01 00022
24 * JMP EXECUTIVE 01 00023
25 * 01 00024
26 * 01 00025
27 * ***** 01 00026
28 * *01 00027
29 * POWER FAIL / RESTART *01 00028
30 * *01 00029
31 * ***** 01 00030
32 * 01 00031
33 * 01 00032
34 * 01 00033
35 * ORG 040 01 00034
36 * JMPM POWER DOWN ROUTINE 01 00035
37 * JMP POWER UP ROUTINE 01 00036
38 * 01 00037
39 * 01 00038
40 * ***** 01 00039
41 * *01 00040
42 * NOTE: THE TEST EXECUTIVE RESERVES LOCATIONS 0400 TO 0500 *01 00041
FOR A POINTER TABLE TO STANDARD ROUTINES, AND AS AN AREA *01 00042
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| | | | | | | | | |
|--------|---|-------|------|------|--|-----|-------|-------|
| 43 | * | | | | FOR EXECUTIVE DATA, ALL TEST PROGRAMS WORKING WITH THE | *01 | 00043 | |
| 44 | * | | | | EXECUTIVE MUST PRESERVE THIS BLOCK | *01 | 00044 | |
| 45 | * | | | | | 01 | 00045 | |
| 46 | * | ***** | | | | | 01 | 00046 |
| 47 | * | | | | | *01 | 00047 | |
| 48 | * | | | | | 01 | 00048 | |
| 000400 | | 49 | ORG | 0400 | | 01 | 00049 | |
| | | 50 | * | | | 01 | 00050 | |
| | | 51 | * | | POINTER TABLE FOR EXEC STANDARD ROUTINES AND DATA | 01 | 00051 | |
| | | 52 | * | | TEST PROGRAMS USING EXECUTIVE ROUTINES WILL CALL THEM | 01 | 00052 | |
| | | 53 | * | | INDIRECTLY THRU THIS TABLE | 01 | 00053 | |
| | | 54 | * | | | 01 | 00054 | |
| | | 55 | * | | | 01 | 00055 | |
| | | 56 | * | | | 01 | 00056 | |
| | | 57 | * | | | 01 | 00057 | |
| | | 58 | * | | | 01 | 00058 | |
| | | 59 | * | | | 01 | 00059 | |
| 000400 | | 60 | OUTA | BSS | 1 | 01 | 00060 | |
| 000401 | | 61 | OUTB | BSS | 1 | 01 | 00061 | |
| 000402 | | 62 | OUTC | BSS | 1 | 01 | 00062 | |
| 000403 | | 63 | OUTD | BSS | 1 | 01 | 00063 | |
| 000404 | | 64 | OUTE | BSS | 1 | 01 | 00064 | |
| 000405 | | 65 | OUTF | BSS | 1 | 01 | 00065 | |
| 000406 | | 66 | OUTG | BSS | 1 | 01 | 00066 | |
| 000407 | | 67 | OUTH | BSS | 1 | 01 | 00067 | |
| 000410 | | 68 | INPA | BSS | 1 | 01 | 00068 | |
| 000411 | | 69 | INPR | BSS | 1 | 01 | 00069 | |
| 000412 | | 70 | INPC | BSS | 1 | 01 | 00070 | |
| 000413 | | 71 | INPD | BSS | 1 | 01 | 00071 | |
| 000414 | | 72 | INPE | BSS | 1 | 01 | 00072 | |
| 000415 | | 73 | INPF | BSS | 1 | 01 | 00073 | |
| 000416 | | 74 | INPG | BSS | 1 | 01 | 00074 | |
| 000417 | | 75 | TOUT | BSS | 1 | 01 | 00075 | |
| 000420 | | 76 | TDLY | BSS | 1 | 01 | 00076 | |
| 000421 | | 77 | SSWT | BSS | 1 | 01 | 00077 | |
| 000422 | | 78 | ELDC | BSS | 1 | 01 | 00078 | |
| | | 79 | * | | | 01 | 00079 | |
| | | 80 | * | | | 01 | 00080 | |
| 000440 | | 81 | ORG | 0440 | | 01 | 00081 | |
| | | 82 | * | | | 01 | 00082 | |
| | | 83 | * | | EXECUTIVE DATA TABLE | 01 | 00083 | |
| | | 84 | * | | | 01 | 00084 | |

| | | | | | | | | | |
|--------|--------|--------|--|------|------|---|------|------------|-------|
| 000440 | | 85 | SPLG | BSS | 1 | LOOP ON ERROR FLAG, 0=DON'T LOOP 1=LOOP | 01 | 00085 | |
| 000441 | | 86 | MEM | BSS | 1 | MEMORY SIZE (HIGHEST AVAIL CORE) | 01 | 00086 | |
| 000442 | | 87 | SCON | BSS | 1 | 0=CONSOLE MODE 1=TTY MODE | 01 | 00087 | |
| 000443 | | 88 | | BSS | 22 | | 01 | 00088 | |
| 000471 | | 89 | TS04 | BSS | 1 | DIGIT COUNTER FOR INPG | 01 | 00089 | |
| | | 90 | * | | | | 01 | 00090 | |
| | | 91 | ***** | | | | | 01 | 00091 |
| | | 92 | * | | | | *01 | 00092 | |
| | | 93 | ***** | | | | | 01 | 00093 |
| | | 94 | * | | | | 01 | 00094 | |
| | | 95 | * | | | | 01 | 00095 | |
| | | 96 | * | | | | 01 | 00096 | |
| | | 97 | * 620F/620I PRIORITY INTERRUPT MODULE (PIM) TEST | | | | | 01 | 00097 |
| | | 98 | * | | | | 01 | 00098 | |
| | 000504 | A | 99 | IAOR | EQU | 0504 | | C 01 00099 | |
| | 000520 | A | 100 | LTOR | EQU | 0520 | | C 01 00100 | |
| | | | 101 | * | | | | 01 00101 | |
| | 000500 | | 102 | | ORG | 0500 | | 01 00102 | |
| | 000500 | 001000 | A | 103 | JMP | PINT | | 01 00103 | |
| | 000501 | 000500 | A | | | | | | |
| | 000502 | 001000 | A | 104 | JMP | PIMI | | 01 00104 | |
| | 000503 | 001021 | A | | | | | | |
| | | | 105 | * | | | | 01 00105 | |
| | 000500 | | 106 | | ORG | 0500 | | 01 00106 | |
| | | | 107 | * | | | | 01 00107 | |
| | 000500 | 010442 | A | 108 | PIMT | LDA | SCON | 01 00108 | |
| | 000501 | 001010 | A | 109 | | JAZ | PIMI | 01 00109 | |
| | 000502 | 001021 | A | | | | | | |
| | 000503 | 030000 | L | 110 | | LDX | #M81 | 01 00110 | |
| | 000504 | 000001 | A | 111 | | TZA | | 01 00111 | |
| | 000505 | 051701 | A | 112 | | STA | CC | 01 00112 | |
| | 000506 | 002000 | A | 113 | | CALL* | OUTD | 01 00113 | |
| | 000507 | 100403 | A | | | | | | |
| | 000510 | 011717 | A | 114 | | LOA | TPIM | C 01 00114 | |
| | 000511 | 001010 | A | 115 | | JAZ | *+4 | C 01 00115 | |
| | 000512 | 000515 | A | | | | | | |
| | 000513 | 001000 | A | 116 | | JMP | PIMA | C 01 00116 | |
| | 000514 | 000552 | A | | | | | | |
| | 000515 | 005030 | A | 117 | TTY1 | LDXI | M810 | C 01 00117 | |
| | 000516 | 002102 | A | | | | | | |
| | 000517 | 002000 | A | 118 | | CALL* | OUTD | C 01 00118 | |
| | 000520 | 100403 | A | | | | | | |

| | | | | | | | | | |
|--------|--------|---|-----|-------|------|----------------------------|---|----|-------|
| 000521 | 002000 | A | 119 | CALL* | INPG | GET TTY PIM | C | 01 | 00119 |
| 000522 | 100416 | A | | | | | | | |
| 000523 | 001000 | A | 120 | JMP | PIMT | TERMINATE | C | 01 | 00120 |
| 000524 | 000500 | A | | | | | | | |
| 000525 | 001000 | A | 121 | JMP | TTY1 | ABORT | C | 01 | 00121 |
| 000526 | 000515 | A | | | | | | | |
| 000527 | 001000 | A | 122 | JMP | *+2 | COMMA | C | 01 | 00122 |
| 000530 | 000531 | A | | | | | | | |
| 000531 | 051717 | A | 123 | STA | TPIM | PERIOD | C | 01 | 00123 |
| 000532 | 001010 | A | 124 | JAZ | PIMA | | C | 01 | 00124 |
| 000533 | 000562 | A | | | | | | | |
| 000534 | 002000 | A | 125 | CALL* | INPG | GET READ/WRITE INTERRUPT | C | 01 | 00127 |
| 000535 | 100416 | A | | | | | | | |
| 000536 | 001000 | A | 126 | JMP | PIMT | TERMINATE | C | 01 | 00128 |
| 000537 | 000500 | A | | | | | | | |
| 000540 | 001000 | A | 127 | JMP | TTY1 | ABORT | C | 01 | 00129 |
| 000541 | 000515 | A | | | | | | | |
| 000542 | 001000 | A | 128 | JMP | *+2 | COMMA | C | 01 | 00130 |
| 000543 | 000544 | A | | | | | | | |
| 000544 | 005110 | A | 129 | ORAI | 1 | PERIOD | C | 01 | 00131 |
| 000545 | 000001 | A | | | | | | | |
| 000546 | 051720 | A | 130 | STA | TYI1 | | C | 01 | 00132 |
| 000547 | 002000 | A | 131 | CALL* | INPG | GET WRITE/READ INTERRUPT | C | 01 | 00133 |
| 000550 | 100416 | A | | | | | | | |
| 000551 | 001000 | A | 132 | JMP | PIMT | TERMINATE | C | 01 | 00134 |
| 000552 | 000500 | A | | | | | | | |
| 000553 | 001000 | A | 133 | JMP | TTY1 | ABORT | C | 01 | 00135 |
| 000554 | 000515 | A | | | | | | | |
| 000555 | 001000 | A | 134 | JMP | *+2 | COMMA | C | 01 | 00136 |
| 000556 | 000537 | A | | | | | | | |
| 000557 | 005110 | A | 135 | ORAI | 1 | PERIOD | C | 01 | 00137 |
| 000560 | 000001 | A | | | | | | | |
| 000561 | 051721 | A | 136 | STA | TYI2 | | C | 01 | 00138 |
| 000562 | 001400 | A | 137 | PIMA | JSS3 | PIMH | | 01 | 00139 |
| 000563 | 001014 | A | | | | | | | |
| 000564 | 030000 | L | 138 | PIMB | L0X | #M82 | | 01 | 00140 |
| 000565 | 002000 | A | 139 | CALL* | OUTD | REQUEST PIM DEVICE ADDRESS | | 01 | 00141 |
| 000566 | 100403 | A | | | | | | | |
| 000567 | 002000 | A | 140 | CALL* | INPG | | | 01 | 00142 |
| 000570 | 100416 | A | | | | | | | |
| 000571 | 001000 | A | 141 | JMP | PIMT | TERMINATE | | 01 | 00143 |
| 000572 | 000500 | A | | | | | | | |

| PAGE | 5 | 06/05/74 | PINTST | VORTEX | DASMR | 1448 HOURS | | |
|--------|--------|----------|--------|--------|-------|------------|---|----------|
| 000673 | 001000 | A | 142 | | JMP | PIMB | ABORT | 01 00144 |
| 000674 | 000664 | A | | | | | | |
| 000675 | 001000 | A | 143 | | JMP | *+2 | | 01 00145 |
| 000676 | 000677 | A | | | | | | |
| 000677 | 051710 | A | 144 | | STA | PIM | | 01 00146 |
| 000700 | 002000 | A | 145 | | CALL* | OUTC | | 01 00147 |
| 000701 | 100402 | A | | | | | | |
| 000702 | 030000 | L | 146 | PIMC | LDX | #MS3 | | 01 00148 |
| 000703 | 002000 | A | 147 | | CALL* | OUTD | REQUEST ORIGIN OF TRAP ADDRESS | 01 00149 |
| 000704 | 100403 | A | | | | | | |
| 000705 | 002000 | A | 148 | | CALL* | INPG | | 01 00150 |
| 000706 | 100416 | A | | | | | | |
| 000707 | 001000 | A | 149 | | JMP | PIMT | TERMINATE | 01 00151 |
| 000710 | 000600 | A | | | | | | |
| 000711 | 001000 | A | 150 | | JMP | PIMC | ABORT | 01 00152 |
| 000712 | 000702 | A | | | | | | |
| 000713 | 001000 | A | 151 | | JMP | *+2 | | 01 00153 |
| 000714 | 000715 | A | | | | | | |
| 000715 | 051704 | A | 152 | | STA | PADR | | 01 00154 |
| 000716 | 002000 | A | 153 | | CALL* | OUTC | | 01 00155 |
| 000717 | 100402 | A | | | | | | |
| 000720 | 002000 | A | 154 | PIMD | CALL | FLOW | SAVE CONTENTS OF PART OF INTERRUPT AREA | 01 00156 |
| 000721 | 001425 | A | | | | | | |
| 000722 | 002000 | A | 155 | | CALL | PMOD | CONSTRUCT PIM I/O INSTRUCTIONS | 01 00157 |
| 000723 | 001477 | A | | | | | | |
| 000724 | 002000 | A | 156 | | CALL | POVL | MODIFY INTERRUPT ADDRESS LOCATIONS | 01 00158 |
| 000725 | 001435 | A | | | | | | |
| 000726 | 010442 | A | 157 | PIME | LDA | SCON | CONSOLE MODE? | 01 00159 |
| 000727 | 100500 | A | 158 | | EXC | 0500 | | 01 00160 |
| 000730 | 001010 | A | 159 | | JAZ | *+4 | | 01 00161 |
| 000731 | 000734 | A | | | | | | |
| 000732 | 001000 | A | 160 | | JMP | PIMF | NO | 01 00162 |
| 000733 | 000744 | A | | | | | | |
| 000734 | 005001 | A | 161 | | TZA | | | 01 00163 |
| 000735 | 005002 | A | 162 | | TZB | | | 01 00164 |
| 000736 | 005004 | A | 163 | | TZX | | | 01 00165 |
| 000737 | 000002 | A | 164 | | HLT | 02 | ENTER TEST NUMBER, CYCLE COUNT | 01 00166 |
| 000740 | 051716 | A | 165 | | STA | TCNT | | 01 00167 |
| 000741 | 051702 | A | 166 | | STB | CYCL | | 01 00168 |
| 000742 | 001000 | A | 167 | | JMP | PIMG | | 01 00169 |
| 000743 | 000762 | A | | | | | | |
| 000744 | 030000 | L | 168 | PIMF | LDX | #MS4 | | 01 00170 |

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|--------|--------|---|----------------|----------|--------|-------------------------------------|------|-------|
| 000745 | 002000 | A | 169 | CALL* | OUTD | PRINT CENTER TEST NUMBER | 01 | 00171 |
| 000746 | 100403 | A | | | | | | |
| 000747 | 002000 | A | 170 | CALL* | INPG | | 01 | 00172 |
| 000750 | 100416 | A | | | | | | |
| 000751 | 001000 | A | 171 | JMP | PTER | TERMINATE | 01 | 00173 |
| 000752 | 000777 | A | | | | | | |
| 000753 | 001000 | A | 172 | JMP | PIMF | ABORT | 01 | 00174 |
| 000754 | 000744 | A | | | | | | |
| 000755 | 001000 | A | 173 | JMP | **2 | | 01 | 00175 |
| 000756 | 000757 | A | | | | | | |
| 000757 | 051716 | A | 174 | STA | TCNT | | 01 | 00176 |
| 000758 | 002000 | A | 175 | CALL* | OUTC | | 01 | 00177 |
| 000759 | 100402 | A | | | | | | |
| 000762 | 011716 | A | 176 | PIMG LDA | TCNT | | 01 | 00178 |
| 000763 | 001004 | A | 177 | JAN | PIME | | 01 | 00179 |
| 000764 | 000726 | A | | | | | | |
| 000765 | 001010 | A | 178 | JAZ | PIME | | 01 | 00180 |
| 000766 | 000726 | A | | | | | | |
| 000767 | 006140 | A | 179 | SUBI | 7 | | C 01 | 00181 |
| 000770 | 000007 | A | | | | | | |
| 000771 | 001002 | A | 180 | JAP | PIME | | 01 | 00182 |
| 000772 | 000726 | A | | | | | | |
| 000773 | 005001 | A | 181 | TZA | | | 01 | 00183 |
| 000774 | 051703 | A | 182 | STA | IFLG | RESET INTERRUPT FLAG | 01 | 00184 |
| 000775 | 001000 | A | 183 | JMP | PIMJ | SELECT TEST | 01 | 00185 |
| 000776 | 001032 | A | | | | | | |
| | 184 | * | | | | | 01 | 00186 |
| | 185 | * | TERMINATE TEST | | | | 01 | 00187 |
| | 186 | * | | | | | 01 | 00188 |
| 000777 | 010000 | L | 187 | PTER LDA | #01000 | | 01 | 00189 |
| 001000 | 050000 | A | 188 | STA | 0 | | 01 | 00190 |
| 001001 | 050042 | A | 189 | STA | 042 | | 01 | 00191 |
| 001002 | 010000 | L | 190 | LDA | #02000 | RESTORE ORIGINAL CONSOLE INTERRUPT, | 01 | 00192 |
| 001003 | 050040 | A | 191 | STA | 040 | | 01 | 00193 |
| 001004 | 011705 | A | 192 | LDA | PD1 | POWER FAIL/RESTART TRANSFER VECTORS | 01 | 00194 |
| 001005 | 050001 | A | 193 | STA | 1 | | 01 | 00195 |
| 001006 | 011706 | A | 194 | LDA | PD41 | | 01 | 00196 |
| 001007 | 050041 | A | 195 | STA | 041 | | 01 | 00197 |
| 001010 | 011707 | A | 196 | LDA | PD43 | | 01 | 00198 |
| 001011 | 050043 | A | 197 | STA | 043 | | 01 | 00199 |
| 001012 | 001000 | A | 198 | JMP | PIMT | GO TO BEGINNING OF TEST | 01 | 00200 |
| 001013 | 000800 | A | | | | | | |

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|--------|--------|---|-----|------|----------------|------|---|----|----------|
| 001014 | 030000 | L | 199 | * | | | | 01 | 00201 |
| 001015 | 052000 | A | 200 | PIMH | LDX | BMS5 | | 01 | 00202 |
| 001016 | 100403 | A | 201 | | CALL* | OUTD | PRINT 'RESET SW3' | 01 | 00203 |
| 001017 | 001000 | A | 202 | | JMP | PIMA | | 01 | 00204 |
| 001020 | 000552 | A | | | | | | | |
| | | | 203 | * | | | | 01 | 00205 |
| | | | 204 | * | | | | 01 | 00206 |
| 001021 | 055001 | A | 205 | PIMY | TZA | | | 01 | 00207 |
| 001022 | 050442 | A | 206 | | STA | SCON | | 01 | 00208 |
| 001023 | 005002 | A | 207 | | TZB | | | 01 | 00209 |
| 001024 | 005004 | A | 208 | | TZX | | | 01 | 00210 |
| 001025 | 000001 | A | 209 | | HLT | 01 | ENTER DEVICE ADDRESS, INTERRUPT ADDRESS | 01 | 00211 |
| 001026 | 051710 | A | 210 | | STA | PIM | | 01 | 00212 |
| 001027 | 051704 | A | 211 | | STB | PADR | | 01 | 00213 |
| 001030 | 001000 | A | 212 | | JMP | PIMD | | 01 | 00214 |
| 001031 | 000720 | A | | | | | | | |
| | | | 213 | * | | | | 01 | 00215 |
| | | | 214 | * | | | | 01 | 00216 |
| | | | 215 | * | SELECT SUBTEST | | | 01 | 00217 |
| | | | 216 | * | | | | 01 | 00218 |
| 001032 | 011716 | A | 217 | PIMJ | LOA | TCNT | | 01 | 00219 |
| 001033 | 005311 | A | 218 | | DAR | | | 01 | 00220 |
| 001034 | 001010 | A | 219 | | JAZ | PIAA | | 01 | 00221 |
| 001035 | 001061 | A | | | | | | | |
| 001036 | 005311 | A | 220 | | DAR | | | 01 | 00222 |
| 001037 | 001010 | A | 221 | | JAZ | PIBA | | 01 | 00223 |
| 001040 | 001065 | A | | | | | | | |
| 001041 | 005311 | A | 222 | | DAR | | | 01 | 00224 |
| 001042 | 001010 | A | 223 | | JAZ | PICA | | 01 | 00225 |
| 001043 | 001123 | A | | | | | | | |
| 001044 | 005311 | A | 224 | | DAR | | | 01 | 00226 |
| 001045 | 001010 | A | 225 | | JAZ | PIDA | | 01 | 00227 |
| 001046 | 001130 | A | | | | | | | |
| 001047 | 005311 | A | 226 | | DAR | | | C | 01 00228 |
| 001050 | 001010 | A | 227 | | JAZ | PIEA | | C | 01 00229 |
| 001051 | 001140 | A | | | | | | | |
| 001052 | 005311 | A | 228 | | DAR | | | C | 01 00230 |
| 001053 | 001010 | A | 229 | | JAZ | PIFA | | C | 01 00231 |
| 001054 | 001146 | A | | | | | | | |
| 001055 | 001010 | A | 230 | | JAZ | PIFA | | C | 01 00232 |
| 001056 | 001146 | A | | | | | | | |

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|--------|--------|---|-----|-------|--------|-----------|----|----------|
| 001057 | 001000 | A | 231 | JMP | PIME | | 01 | 00233 |
| 001060 | 000726 | A | | | | | | |
| | | | 232 | * | | | 01 | 00234 |
| | | | 233 | * | TEST 1 | | 01 | 00235 |
| | | | 234 | * | | | 01 | 00236 |
| 001061 | 103000 | A | 235 | PIAA | DME | O,PIZZ | | 01 00237 |
| 001062 | 001712 | A | | | | | | |
| 001063 | 001000 | A | 236 | JMP | PIAB | | 01 | 00238 |
| 001064 | 001203 | A | | | | | | |
| | | | 237 | * | | | 01 | 00239 |
| | | | 238 | * | TEST 2 | | 01 | 00240 |
| | | | 239 | * | | | 01 | 00241 |
| 001065 | 103000 | A | 240 | PIBA | DME | O,PIZY | | 01 00242 |
| 001066 | 001711 | A | | | | | | |
| 001067 | 100500 | A | 241 | | EXC | 0500 | | 01 00243 |
| 001070 | 010442 | A | 242 | PIB2 | LDA | SCON | | 01 00244 |
| 001071 | 001010 | A | 243 | | JAZ | PIB3 | | 01 00245 |
| 001072 | 001120 | A | | | | | | |
| 001073 | 030000 | L | 244 | | LDX | #MSB | | 01 00246 |
| 001074 | 002000 | A | 245 | | CALL* | OUTD | | 01 00247 |
| 001075 | 100403 | A | | | | | | |
| 001076 | 002000 | A | 246 | | CALL* | INPG | | 01 00248 |
| 001077 | 100416 | A | | | | | | |
| 001100 | 001000 | A | 247 | JMP | PTER | TERMINATE | | 01 00249 |
| 001101 | 000777 | A | | | | | | |
| 001102 | 001000 | A | 248 | JMP | PIB2 | ABORT | | 01 00250 |
| 001103 | 001070 | A | | | | | | |
| 001104 | 001000 | A | 249 | JMP | **2 | | 01 | 00251 |
| 001105 | 001106 | A | | | | | | |
| 001106 | 001004 | A | 250 | JAN | PIB2 | | 01 | 00252 |
| 001107 | 001070 | A | | | | | | |
| 001110 | 001010 | A | 251 | JAZ | **4 | | 01 | 00253 |
| 001111 | 001114 | A | | | | | | |
| 001112 | 001000 | A | 252 | JMP | **3 | | 01 | 00254 |
| 001113 | 001115 | A | | | | | | |
| 001114 | 005211 | A | 253 | CPA | | | 01 | 00255 |
| 001115 | 051702 | A | 254 | STA | CYCL | | 01 | 00256 |
| 001116 | 002000 | A | 255 | CALL* | OUTC | | 01 | 00257 |
| 001117 | 100402 | A | | | | | | |
| 001120 | 100200 | A | 256 | PIB3 | EXC | 0200 | | 01 00258 |
| 001121 | 001000 | A | 257 | JMP | PIAD | | 01 | 00259 |
| 001122 | 001205 | A | | | | | | |

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|--------|--------|---|-----|------|-------|-------|---------------------------------|----|-------|
| 001231 | 010442 | A | 316 | PIAF | LDA | SCON | CONSOLE MODE? | 01 | 00318 |
| 001232 | 100500 | A | 317 | | EXC | 0500 | DISABLE PIM | E | ***** |
| 001233 | 001010 | A | 318 | | JAZ | PIAL | | 01 | 00319 |
| 001234 | 001251 | A | | | | | | | |
| 001235 | 011703 | A | 319 | | LDA | IFLG | INTERRUPT FLAG SET? | 01 | 00320 |
| 001236 | 001010 | A | 320 | | JAZ | PIAG | NO | 01 | 00321 |
| 001237 | 001242 | A | | | | | | | |
| 001240 | 001000 | A | 321 | | JMP | PIAH | | 01 | 00322 |
| 001241 | 001245 | A | | | | | | | |
| 001242 | 030000 | L | 322 | PIAG | LDX | #MS7 | | 01 | 00323 |
| 001243 | 002000 | A | 323 | | CALL* | OUTD | PRINT 'NO INTERRUPTS' | 01 | 00324 |
| 001244 | 100403 | A | | | | | | | |
| 001245 | 002000 | A | 324 | PIAH | CALL* | OUTC | | 01 | 00325 |
| 001246 | 100402 | A | | | | | | | |
| 001247 | 001000 | A | 325 | | JMP | PIME | | 01 | 00326 |
| 001250 | 000726 | A | | | | | | | |
| | | | 326 | * | | | | 01 | 00327 |
| 001251 | 011703 | A | 327 | PIAL | LDA | IFLG | DISPLAY STATE OF INTERRUPT FLAG | 01 | 00328 |
| 001252 | 000005 | A | 328 | | HLT | 05 | | 01 | 00329 |
| 001253 | 001000 | A | 329 | | JMP | PIME | | 01 | 00330 |
| 001254 | 000726 | A | | | | | | | |
| | | | 330 | * | | | | 01 | 00331 |
| 001255 | 002000 | A | 331 | PIAY | CALL* | SSWT | | 01 | 00332 |
| 001256 | 100421 | A | | | | | | | |
| 001257 | 005011 | A | 332 | | MERG | 011 | DO NOT HALT | 01 | 00333 |
| 001258 | 000000 | A | 333 | | DATA | 0 | NO MESSAGE | 01 | 00334 |
| 001259 | 000777 | A | 334 | | DATA | PTER | | 01 | 00335 |
| 001262 | 001263 | A | 335 | | DATA | #+1 | | 01 | 00336 |
| 001263 | 001000 | A | 336 | | JMP | PIAE | | 01 | 00337 |
| 001264 | 001207 | A | | | | | | | |
| | | | 337 | * | | | | 01 | 00338 |
| | | | 338 | * | | | | 01 | 00339 |
| | | | 339 | * | | | | 01 | 00340 |
| 001265 | 000000 | A | 340 | PIN1 | ENTR | | | 01 | 00341 |
| 001266 | 002000 | A | 341 | | CALL | PSAV | SAVE REGISTERS | 01 | 00342 |
| 001267 | 001611 | A | | | | | | | |
| 001270 | 010000 | L | 342 | | LDA | #0261 | | 01 | 00343 |
| 001271 | 002000 | A | 343 | | CALL | TT20 | PRINT LINE NUMBER | 01 | 00344 |
| 001272 | 001513 | A | | | | | | | |
| 001273 | 002000 | A | 344 | | CALL | PRES | RESTORE REGISTERS | 01 | 00345 |
| 001274 | 001617 | A | | | | | | | |
| 001275 | 041703 | A | 345 | | INR | IFLG | SET INTERRUPT FLAG | 01 | 00346 |

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|--------|--------|---|-------|------|-------|--------------------|----|-------|
| 001276 | 100200 | A | 346 | EXC | 0200 | ENABLE INTERRUPTS | 01 | 00347 |
| 001277 | 001000 | A | 347 | JMP* | PIN1 | | 01 | 00348 |
| 001300 | 101285 | A | | | | | | |
| | | | 348 * | | | | 01 | 00348 |
| 001301 | 000000 | A | 349 | ENTR | PIN2 | | 01 | 00350 |
| 001302 | 002000 | A | 350 | CALL | PSAV | SAVE REGISTERS | 01 | 00351 |
| 001303 | 001811 | A | | | | | | |
| 001304 | 010000 | L | 351 | LDA | #0262 | | 01 | 00352 |
| 001305 | 002000 | A | 352 | CALL | TT20 | PRINT LINE NUMBER | 01 | 00353 |
| 001306 | 001513 | A | | | | | | |
| 001307 | 002000 | A | 353 | CALL | PRES | RESTORE REGISTERS | 01 | 00354 |
| 001310 | 001817 | A | | | | | | |
| 001311 | 041703 | A | 354 | INR | IPL6 | SET INTERRUPT FLAG | 01 | 00355 |
| 001312 | 100200 | A | 355 | EXC | 0200 | ENABLE INTERRUPTS | 01 | 00356 |
| 001313 | 001000 | A | 356 | JMP* | PIN2 | RETURN | 01 | 00357 |
| 001314 | 101301 | A | | | | | | |
| | | | 357 * | | | | 01 | 00358 |
| 001315 | 000000 | A | 358 | ENTR | PIN3 | | 01 | 00359 |
| 001316 | 002000 | A | 359 | CALL | PSAV | SAVE REGISTERS | 01 | 00360 |
| 001317 | 001811 | A | | | | | | |
| 001320 | 010000 | L | 360 | LDA | #0263 | | 01 | 00361 |
| 001321 | 002000 | A | 361 | CALL | TT20 | PRINT LINE NUMBER | 01 | 00362 |
| 001322 | 001513 | A | | | | | | |
| 001323 | 002000 | A | 362 | CALL | PRES | RESTORE REGISTERS | 01 | 00363 |
| 001324 | 001817 | A | | | | | | |
| 001325 | 041703 | A | 363 | INR | IPL6 | SET INTERRUPT FLAG | 01 | 00364 |
| 001326 | 100200 | A | 364 | EXC | 0200 | ENABLE INTERRUPTS | 01 | 00365 |
| 001327 | 001000 | A | 365 | JMP* | PIN3 | | 01 | 00366 |
| 001330 | 101315 | A | | | | | | |
| | | | 366 * | | | | 01 | 00367 |
| 001331 | 000000 | A | 367 | ENTR | PIN4 | | 01 | 00368 |
| 001332 | 002000 | A | 368 | CALL | PSAV | SAVE REGISTERS | 01 | 00369 |
| 001333 | 001811 | A | | | | | | |
| 001334 | 010000 | L | 369 | LDA | #0264 | | 01 | 00370 |
| 001335 | 002000 | A | 370 | CALL | TT20 | PRINT LINE NUMBER | 01 | 00371 |
| 001336 | 001513 | A | | | | | | |
| 001337 | 002000 | A | 371 | CALL | PRES | RESTORE REGISTERS | 01 | 00372 |
| 001340 | 001817 | A | | | | | | |
| 001341 | 041703 | A | 372 | INR | IPL6 | SET INTERRUPT FLAG | 01 | 00373 |
| 001342 | 100200 | A | 373 | EXC | 0200 | ENABLE INTERRUPTS | 01 | 00374 |
| 001343 | 001000 | A | 374 | JMP* | PIN4 | | 01 | 00375 |
| 001344 | 101331 | A | | | | | | |

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|--------|--------|---|-----|------|------|-------|--------------------|--|----|-------|
| | | | 375 | * | | | | | 01 | 00376 |
| 001345 | 000000 | A | 376 | PIN5 | ENTR | | | | 01 | 00377 |
| 001346 | 002000 | A | 377 | | CALL | PSAV | SAVE REGISTERS | | 01 | 00378 |
| 001347 | 001611 | A | | | | | | | | |
| 001350 | 010000 | L | 378 | | LDA | #0265 | | | 01 | 00379 |
| 001351 | 002000 | A | 379 | | CALL | TT20 | PRINT LINE NUMBER | | 01 | 00380 |
| 001352 | 001513 | A | | | | | | | | |
| 001353 | 002000 | A | 380 | | CALL | PRES | RESTORE REGISTERS | | 01 | 00381 |
| 001354 | 001617 | A | | | | | | | | |
| 001355 | 041703 | A | 381 | | INR | IFLG | SET INTERRUPT FLAG | | 01 | 00382 |
| 001356 | 100200 | A | 382 | | EXC | 0200 | ENABLE INTERRUPTS | | 01 | 00383 |
| 001357 | 001000 | A | 383 | | JMP* | PIN5 | | | 01 | 00384 |
| 001360 | 101345 | A | | | | | | | | |
| | | | 384 | * | | | | | 01 | 00385 |
| 001361 | 000000 | A | 385 | PIN6 | ENTR | | | | 01 | 00386 |
| 001362 | 002000 | A | 386 | | CALL | PSAV | SAVE REGISTERS | | 01 | 00387 |
| 001363 | 001611 | A | | | | | | | | |
| 001364 | 010000 | L | 387 | | LDA | #0266 | | | 01 | 00388 |
| 001365 | 002000 | A | 388 | | CALL | TT20 | PRINT LINE NUMBER | | 01 | 00389 |
| 001366 | 001513 | A | | | | | | | | |
| 001367 | 002000 | A | 389 | | CALL | PRES | RESTORE REGISTERS | | 01 | 00390 |
| 001370 | 001617 | A | | | | | | | | |
| 001371 | 041703 | A | 390 | | INR | IFLG | SET INTERRUPT FLAG | | 01 | 00391 |
| 001372 | 100200 | A | 391 | | EXC | 0200 | ENABLE INTERRUPTS | | 01 | 00392 |
| 001373 | 001000 | A | 392 | | JMP* | PIN6 | | | 01 | 00393 |
| 001374 | 101361 | A | | | | | | | | |
| | | | 393 | * | | | | | 01 | 00394 |
| 001375 | 000000 | A | 394 | PIN7 | ENTR | | | | 01 | 00395 |
| 001376 | 002000 | A | 395 | | CALL | PSAV | SAVE REGISTERS | | 01 | 00396 |
| 001377 | 001611 | A | | | | | | | | |
| 001400 | 010000 | L | 396 | | LDA | #0267 | | | 01 | 00397 |
| 001401 | 002000 | A | 397 | | CALL | TT20 | PRINT LINE NUMBER | | 01 | 00398 |
| 001402 | 001513 | A | | | | | | | | |
| 001403 | 002000 | A | 398 | | CALL | PRES | RESTORE REGISTERS | | 01 | 00399 |
| 001404 | 001617 | A | | | | | | | | |
| 001405 | 041703 | A | 399 | | INR | IFLG | SET INTERRUPT FLAG | | 01 | 00400 |
| 001406 | 100200 | A | 400 | | EXC | 0200 | ENABLE INTERRUPTS | | 01 | 00401 |
| 001407 | 001000 | A | 401 | | JMP* | PIN7 | | | 01 | 00402 |
| 001410 | 101375 | A | | | | | | | | |
| | | | 402 | * | | | | | 01 | 00403 |
| 001411 | 000000 | A | 403 | PIN8 | ENTR | | | | 01 | 00404 |
| 001412 | 002000 | A | 404 | | CALL | PSAV | SAVE REGISTERS | | 01 | 00405 |

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|--------|--------|---|-----|------|--|-------------------------|--|----|-------|
| 001413 | 001611 | A | | | | | | | |
| 001414 | 010000 | L | 408 | LDA | #0270 | | | 01 | 00408 |
| 001415 | 002600 | A | 408 | CALL | TT20 | PRINT LINE NUMBER | | 01 | 00407 |
| 001416 | 001513 | A | | | | | | | |
| 001417 | 002000 | A | 407 | CALL | PRES | RESTORE REGISTERS | | 01 | 00408 |
| 001420 | 001617 | A | | | | | | | |
| 001421 | 041703 | A | 408 | INR | IPLG | SET INTERRUPT FLAG | | 01 | 00409 |
| 001422 | 100200 | A | 409 | EXC | 0200 | ENABLE INTERRUPTS | | 01 | 00410 |
| 001423 | 001000 | A | 410 | JMP* | PINS | | | 01 | 00411 |
| 001424 | 101411 | A | | | | | | | |
| | | | 411 | * | | | | 01 | 00412 |
| | | | 412 | * | | | | 01 | 00413 |
| | | | 413 | * | SAVE ORIGINAL TRANSFER VECTORS WHICH GET OVERLAID | | | 01 | 00414 |
| | | | 414 | * | | | | 01 | 00415 |
| 001425 | 000000 | A | 415 | PLDW | ENTR | | | 01 | 00416 |
| 001426 | 010001 | A | 416 | LDA | 1 | | | 01 | 00417 |
| 001427 | 051705 | A | 417 | STA | PD1 | SAVE CONSOLE INTERRUPT, | | 01 | 00418 |
| 001430 | 010041 | A | 418 | LDA | 041 | | | 01 | 00419 |
| 001431 | 051706 | A | 419 | STA | PD41 | POWER UP/DOWN ADDRESSES | | 01 | 00420 |
| 001432 | 010043 | A | 420 | LDA | 043 | | | 01 | 00421 |
| 001433 | 051707 | A | 421 | STA | PD43 | | | 01 | 00422 |
| 001434 | 001000 | A | 422 | JMP* | PLOW | | | 01 | 00423 |
| 001435 | 101425 | A | | | | | | | |
| | | | 423 | * | | | | 01 | 00424 |
| | | | 424 | * | | | | 01 | 00425 |
| | | | 425 | * | FILL INTERRUPT AREA WITH ENTRIES TO INTERRUPT ROUTINES | | | 01 | 00426 |
| | | | 426 | * | | | | 01 | 00427 |
| | | | 427 | * | | | | 01 | 00428 |
| 001436 | 000000 | A | 428 | POVL | ENTR | | | 01 | 00429 |
| 001437 | 005004 | A | 429 | YZX | | | | 01 | 00430 |
| 001440 | 020000 | L | 430 | LDB | #128 | | | 01 | 00431 |
| 001441 | 010000 | L | 431 | POV2 | #02000 | | | 01 | 00432 |
| 001442 | 055000 | A | 432 | STA | 0,1 | FILL INTERRUPT AREA | | 01 | 00433 |
| 001443 | 005144 | A | 433 | IXR | | WITH JUMP AND MARK TO | | 01 | 00434 |
| 001444 | 010000 | L | 434 | LDA | #PINX | ERROR ROUTINE | | 01 | 00435 |
| 001445 | 055000 | A | 435 | STA | 0,1 | | | 01 | 00436 |
| 001446 | 005144 | A | 436 | IXR | | | | 01 | 00437 |
| 001447 | 005322 | A | 437 | DBR | | | | 01 | 00438 |
| 001450 | 001020 | A | 438 | JBZ | POV3 | | | 01 | 00439 |
| 001451 | 001454 | A | | | | | | | |
| 001452 | 001000 | A | 439 | JMP | POV2 | | | 01 | 00440 |
| 001453 | 001441 | A | | | | | | | |

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| 001454 | 031704 | A | 440 | POV3 | LDX | PADR | | 01 00441 |
| 001455 | 020000 | L | 441 | | LDB | #PTAB | MOVE INTERRUPT TRANSFER VECTORS | 01 00442 |
| 001456 | 016000 | A | 442 | POV4 | LDA | 0,2 | | 01 00443 |
| 001457 | 001010 | A | 443 | | JAZ | POV5 | | C 01 00444 |
| 001458 | 001458 | A | | | | | | |
| 001459 | 055000 | A | 444 | | STA | 0,1 | TO ADDRESS BLOCK TO BE TESTED | 01 00445 |
| 001460 | 005122 | A | 445 | | IBR | | | 01 00446 |
| 001461 | 005144 | A | 446 | | IXR | | | 01 00447 |
| 001462 | 001000 | A | 447 | | JMP | POV4 | | 01 00448 |
| 001463 | 001458 | A | | | | | | |
| 001464 | 011717 | A | 448 | POV5 | LDA | TPIM | | C 01 00449 |
| 001465 | 001010 | A | 449 | | JAZ* | POVL | | C 01 00450 |
| 001466 | 101436 | A | | | | | | |
| 001467 | 006010 | A | 450 | | LDAI | TTYI | SET | C 01 00451 |
| 001468 | 001505 | A | | | | | | |
| 001469 | 057000 | I | 451 | | STA* | TYI1 | UP | C 01 00452 |
| 001470 | 057000 | I | 452 | | STA* | TYI2 | TTY | C 01 00453 |
| 001471 | 001000 | A | 453 | | JMP* | POVL | INTERRUPTS | C 01 00454 |
| 001472 | 101436 | A | | | | | | |
| | | | 454 * | | | | | 01 00455 |
| | | | 455 * | | | | | 01 00456 |
| | | | 456 * | ADD DEVICE ADDRESS TO PIM I/O INSTRUCTIONS | | | | 01 00457 |
| | | | 457 * | | | | | 01 00458 |
| 001477 | 000000 | A | 458 | PM00 | ENTR | | | 01 00459 |
| 001500 | 030000 | L | 459 | | LDX | #PPDP | | 01 00460 |
| 001501 | 025000 | A | 460 | PM02 | LDB | 0,1 | GET POINTER | 01 00461 |
| 001502 | 001020 | A | 461 | | JSZ* | PM00 | END OF TABLE | 01 00462 |
| 001503 | 101477 | A | | | | | | |
| 001504 | 016000 | A | 462 | | LDA | 0,2 | GET INSTRUCTION | 01 00463 |
| 001505 | 150000 | L | 463 | | ANA | #0177700 | | 01 00464 |
| 001506 | 111710 | A | 464 | | ORA | PIM | ADD PIM DEVICE ADDRESS | 01 00465 |
| 001507 | 056000 | A | 465 | | STA | 0,2 | | 01 00466 |
| 001510 | 005144 | A | 466 | | IXR | | | 01 00467 |
| 001511 | 001000 | A | 467 | | JMP | PM02 | | 01 00468 |
| 001512 | 001501 | A | | | | | | |
| | | | 468 * | | | | | 01 00469 |
| | | | 469 * | | | | | 01 00470 |
| 001513 | 000000 | A | 470 | TT20 | ENTR | | | 01 00471 |
| 001514 | 020442 | A | 471 | | LDB | #CON | CONSOLE MODE? | 01 00472 |
| 001515 | 001020 | A | 472 | | JBZ | *+4 | | 01 00473 |
| 001516 | 001521 | A | | | | | | |
| 001517 | 001000 | A | 473 | | JMP | TT21 | | 01 00474 |

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|--------|--------|---|-----|------|-------|------|-------------------------------|--|----------|
| 001520 | 001525 | A | | | | | | | |
| 001521 | 150000 | L | 474 | | ANA | #017 | YES | | 01 00475 |
| 001522 | 000000 | A | 475 | | HLT | 05 | DISPLAY INTERRUPT LINE NUMBER | | 01 00476 |
| 001523 | 001000 | A | 476 | | JMP* | TT20 | | | 01 00477 |
| 001524 | 101513 | A | | | | | | | |
| 001525 | 002000 | A | 477 | TT21 | CALL* | OUTA | | | 01 00478 |
| 001526 | 100400 | A | | | | | | | |
| 001527 | 041701 | A | 478 | | INR | CC | | | 01 00479 |
| 001530 | 011701 | A | 479 | | LDA | CC | | | 01 00480 |
| 001531 | 140000 | L | 480 | | SUB | #70 | CHAR COUNT EXCEEDED? | | 01 00481 |
| 001532 | 001004 | A | 481 | | JAN* | TT20 | NO | | 01 00482 |
| 001533 | 101513 | A | | | | | | | |
| 001534 | 002000 | A | 482 | | CALL* | OUTC | YES, PRINT CR/LF | | 01 00483 |
| 001535 | 100402 | A | | | | | | | |
| 001536 | 005001 | A | 483 | | TZA | | | | 01 00484 |
| 001537 | 051701 | A | 484 | | STA | CC | | | 01 00485 |
| 001540 | 001000 | A | 485 | | JMP* | TT20 | | | 01 00486 |
| 001541 | 101513 | A | | | | | | | |
| | | | 486 | * | | | | | 01 00487 |
| | | | 487 | * | | | | | 01 00488 |
| 001542 | 000000 | A | 488 | P10 | ENTR | | | | 01 00489 |
| 001543 | 010000 | L | 489 | | LDA | #1 | | | 01 00490 |
| 001544 | 051702 | A | 490 | | STA | CYCL | | | 01 00491 |
| 001545 | 010442 | A | 491 | | LDA | SCON | CONSOLE MODE? | | 01 00492 |
| 001546 | 001010 | A | 492 | | JAZ | P102 | YES | | 01 00493 |
| 001547 | 001553 | A | | | | | | | |
| 001550 | 030000 | L | 493 | | LDX | #MSB | | | 01 00494 |
| 001551 | 002000 | A | 494 | | CALL* | OUTD | PRINT 'SET INTERRUPTS' | | 01 00495 |
| 001552 | 100403 | A | | | | | | | |
| 001553 | 002000 | A | 495 | | CALL* | INPB | | | 01 00496 |
| 001554 | 100411 | A | | | | | | | |
| 001555 | 001000 | A | 496 | | JMP | PTER | TERMINATE | | 01 00497 |
| 001556 | 000777 | A | | | | | | | |
| 001557 | 002000 | A | 497 | | CALL* | OUTC | | | 01 00498 |
| 001558 | 100402 | A | | | | | | | |
| 001559 | 001000 | A | 498 | | JMP* | P10 | | | 01 00499 |
| 001562 | 101542 | A | | | | | | | |
| 001563 | 000003 | A | 499 | P102 | HLT | 03 | SET INTERRUPTS | | 01 00500 |
| 001564 | 001000 | A | 500 | | JMP* | P10 | | | 01 00501 |
| 001565 | 101542 | A | | | | | | | |
| | | | 501 | * | | | | | 01 00502 |
| | | | 502 | * | | | | | 01 00503 |

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|--------|--------|---|-----|------|--------------|-----------|-----------------------|----|----------|
| 001566 | 000000 | A | 503 | PINX | ENTR | | | 01 | 00504 |
| 001567 | 002000 | A | 504 | | CALL | PSAV | | 01 | 00505 |
| 001570 | 001511 | A | | | | | | | |
| 001571 | 002000 | A | 505 | | CALL* | SSWT | | 01 | 00506 |
| 001572 | 100421 | A | | | | | | | |
| 001573 | 000004 | A | 506 | | HLT | 04 | INVALID INTERRUPTS | 01 | 00507 |
| 001574 | 002057 | A | 507 | | DATA | MS9 | | 01 | 00508 |
| 001575 | 000777 | A | 508 | | DATA | PTER | | 01 | 00509 |
| 001576 | 001577 | A | 509 | | DATA | *+1 | | 01 | 00510 |
| 001577 | 002000 | A | 510 | | CALL | PRES | RESTORE REGISTERS | 01 | 00511 |
| 001580 | 001517 | A | | | | | | | |
| 001581 | 041703 | A | 511 | | INR | IPL0 | SET INTERRUPT FLAG | 01 | 00512 |
| 001582 | 100200 | A | 512 | PINI | EXC | 0200 | ENABLE INTERRUPTS | 01 | 00513 |
| 001583 | 001000 | A | 513 | | JMP* | PINX | | 01 | 00514 |
| 001584 | 101556 | A | | | | | | | |
| 001585 | 000000 | A | 514 | TTYI | ENTR | | TTY INTERRUPT | C | 01 00515 |
| 001586 | 100200 | A | 515 | PUT | EXC | 0200 | ENABLE PIN UNDER TEST | D | ***** |
| 001587 | 001000 | A | 516 | | JMP* | TTYI | | C | 01 00517 |
| 001588 | 101505 | A | | | | | | | |
| | | | 517 | * | | | | | 01 00518 |
| | | | 518 | * | | | | | 01 00519 |
| | | | 519 | * | SAVE/RESTORE | REGISTERS | | | 01 00520 |
| | | | 520 | * | | | | | 01 00521 |
| 001581 | 000000 | A | 521 | PSAV | ENTR | | | 01 | 00522 |
| 001582 | 051713 | A | 522 | | STA | SAVA | | 01 | 00523 |
| 001583 | 051714 | A | 523 | | STB | SAVB | | 01 | 00524 |
| 001584 | 071715 | A | 524 | | STX | SAVX | | 01 | 00525 |
| 001585 | 001000 | A | 525 | | JMP* | PSAV | | 01 | 00526 |
| 001586 | 101511 | A | | | | | | | |
| | | | 526 | * | | | | | 01 00527 |
| 001587 | 000000 | A | 527 | PRES | ENTR | | | 01 | 00528 |
| 001588 | 011713 | A | 528 | | LDA | SAVA | | 01 | 00529 |
| 001589 | 021714 | A | 529 | | LDB | SAVB | | 01 | 00530 |
| 001590 | 031715 | A | 530 | | LDX | SAVX | | 01 | 00531 |
| 001591 | 001000 | A | 531 | | JMP* | PRES | | 01 | 00532 |
| 001592 | 101517 | A | | | | | | | |
| | | | 532 | * | | | | | 01 00533 |
| | | | 533 | * | | | | | 01 00534 |
| | | | 534 | * | | | | | 01 00535 |
| 001595 | 002000 | A | 535 | PTAB | JMPH | PINI | | 01 | 00536 |
| 001596 | 001255 | A | | | | | | | |
| 001597 | 002000 | A | | | JMPH | PINI | | 01 | 00537 |

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|--------|--------|---|-----|------|--------|--|---|-------|-------|
| 001630 | 001301 | A | | | | | | | |
| 001631 | 002000 | A | 537 | JMPM | PIN3 | | | 01 | 00538 |
| 001632 | 001315 | A | | | | | | | |
| 001633 | 002000 | A | 538 | JMPM | PIN4 | | | 01 | 00539 |
| 001634 | 001331 | A | | | | | | | |
| 001635 | 002000 | A | 539 | JMPM | PIN5 | | | 01 | 00540 |
| 001636 | 001345 | A | | | | | | | |
| 001637 | 002000 | A | 540 | JMPM | PIN6 | | | 01 | 00541 |
| 001640 | 001351 | A | | | | | | | |
| 001641 | 002000 | A | 541 | JMPM | PIN7 | | | 01 | 00542 |
| 001642 | 001375 | A | | | | | | | |
| 001643 | 002000 | A | 542 | JMPM | PIN8 | | | 01 | 00543 |
| 001644 | 001411 | A | | | | | | | |
| 001645 | 000000 | A | 543 | DATA | 0 | | | 01 | 00544 |
| | | | 544 | | | | | 01 | 00545 |
| 001646 | 001061 | A | 545 | DATA | PIAA | | | 01 | 00546 |
| 001647 | 000727 | A | 546 | DATA | PIME+1 | | | 01 | 00547 |
| 001650 | 001123 | A | 547 | DATA | PICA | | | 01 | 00548 |
| 001651 | 001125 | A | 548 | DATA | PICA+2 | | | 01 | 00549 |
| 001652 | 001130 | A | 549 | DATA | PIDA | | | 01 | 00550 |
| 001653 | 001132 | A | 550 | DATA | PIDA+2 | | | 01 | 00551 |
| 001654 | 001135 | A | 551 | DATA | PIDA+3 | | | 01 | 00552 |
| 001655 | 001203 | A | 552 | DATA | PIAB | | | 01 | 00553 |
| 001656 | 001065 | A | 553 | DATA | PIBA | | | 01 | 00554 |
| 001657 | 001067 | A | 554 | DATA | PIBA+2 | | | 01 | 00555 |
| 001660 | 001120 | A | 555 | DATA | PIB3 | | | 01 | 00556 |
| 001661 | 001278 | A | 556 | DATA | PINI+9 | | | 01 | 00557 |
| 001662 | 001312 | A | 557 | DATA | PIN2+9 | | | 01 | 00558 |
| 001663 | 001326 | A | 558 | DATA | PIN3+9 | | | 01 | 00559 |
| 001664 | 001342 | A | 559 | DATA | PIN4+9 | | | 01 | 00560 |
| 001665 | 001356 | A | 560 | DATA | PIN5+9 | | | 01 | 00561 |
| 001666 | 001372 | A | 561 | DATA | PIN6+9 | | | 01 | 00562 |
| 001667 | 001406 | A | 562 | DATA | PIN7+9 | | | 01 | 00563 |
| 001670 | 001422 | A | 563 | DATA | PIN8+9 | | | 01 | 00564 |
| 001671 | 001602 | A | 564 | DATA | PINI | | | 01 | 00565 |
| 001672 | 001146 | A | 565 | DATA | PIEA | | C | 01 | 00566 |
| 001673 | 001142 | A | 566 | DATA | PIEA+2 | | C | 01 | 00567 |
| 001674 | 001146 | A | 567 | DATA | PIFA | | C | 01 | 00568 |
| 001675 | 001150 | A | 568 | DATA | PIFA+2 | | C | 01 | 00569 |
| 001676 | 001232 | A | 569 | DATA | PIAF+1 | | E | ***** | |
| 001677 | 001606 | A | 570 | DATA | PUT | | D | ***** | |
| 001700 | 000000 | A | 571 | DATA | 0 | | | 01 | 00570 |

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|--------|--------|---|---------|------|---|-----|--|----------|
| 001747 | 000000 | A | | | | | | |
| 001750 | 106612 | A | 596 MS3 | DATA | 0106612, ENTER ORIGIN OF TRAP ADDRESSES | 1,0 | | 01 00594 |
| 001751 | 142716 | A | | | | | | |
| 001752 | 152305 | A | | | | | | |
| 001753 | 151240 | A | | | | | | |
| 001754 | 147722 | A | | | | | | |
| 001755 | 144707 | A | | | | | | |
| 001756 | 144716 | A | | | | | | |
| 001757 | 120317 | A | | | | | | |
| 001760 | 143240 | A | | | | | | |
| 001761 | 152322 | A | | | | | | |
| 001762 | 140720 | A | | | | | | |
| 001763 | 120301 | A | | | | | | |
| 001764 | 142304 | A | | | | | | |
| 001765 | 151305 | A | | | | | | |
| 001766 | 151723 | A | | | | | | |
| 001767 | 142723 | A | | | | | | |
| 001770 | 120240 | A | | | | | | |
| 001771 | 000000 | A | | | | | | |
| 001772 | 106612 | A | 596 MS4 | DATA | 0106612, ENTER SUBTEST NUMBER | 1,0 | | 01 00596 |
| 001773 | 142716 | A | | | | | | |
| 001774 | 152305 | A | | | | | | |
| 001775 | 151240 | A | | | | | | |
| 001776 | 151723 | A | | | | | | |
| 001777 | 141324 | A | | | | | | |
| 002000 | 142723 | A | | | | | | |
| 002001 | 152240 | A | | | | | | |
| 002002 | 147325 | A | | | | | | |
| 002003 | 146702 | A | | | | | | |
| 002004 | 142722 | A | | | | | | |
| 002005 | 120240 | A | | | | | | |
| 002006 | 000000 | A | | | | | | |
| 002007 | 151305 | A | 597 MS5 | DATA | RESET SENSE SWITCH 31, 0106612, 0 | | | 01 00596 |
| 002010 | 151705 | A | | | | | | |
| 002011 | 152240 | A | | | | | | |
| 002012 | 151705 | A | | | | | | |
| 002013 | 147323 | A | | | | | | |
| 002014 | 142640 | A | | | | | | |
| 002015 | 151727 | A | | | | | | |
| 002016 | 144724 | A | | | | | | |
| 002017 | 141710 | A | | | | | | |
| 002020 | 120263 | A | | | | | | |

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|--------|--------|---|---------|------|--|----------|
| 002021 | 106612 | A | | | | |
| 002022 | 000000 | A | | | | |
| 002023 | 142718 | A | 598 M86 | DATA | 'ENTER NUMBER OF 5 SECOND INTERVALS',0 | 01 00597 |
| 002024 | 152305 | A | | | | |
| 002025 | 151240 | A | | | | |
| 002026 | 147325 | A | | | | |
| 002027 | 146702 | A | | | | |
| 002030 | 142722 | A | | | | |
| 002031 | 120317 | A | | | | |
| 002032 | 143240 | A | | | | |
| 002033 | 132640 | A | | | | |
| 002034 | 151705 | A | | | | |
| 002035 | 141717 | A | | | | |
| 002036 | 147304 | A | | | | |
| 002037 | 120311 | A | | | | |
| 002040 | 147324 | A | | | | |
| 002041 | 142722 | A | | | | |
| 002042 | 153301 | A | | | | |
| 002043 | 146323 | A | | | | |
| 002044 | 120240 | A | | | | |
| 002045 | 000000 | A | | | | |
| 002046 | 147317 | A | 599 M87 | DATA | 'NO INTERRUPTS',0 | 01 00598 |
| 002047 | 120311 | A | | | | |
| 002050 | 147324 | A | | | | |
| 002051 | 142722 | A | | | | |
| 002052 | 151325 | A | | | | |
| 002053 | 150324 | A | | | | |
| 002054 | 151640 | A | | | | |
| 002055 | 000000 | A | | | | |
| 002056 | 151705 | A | 600 M88 | DATA | 'SET INTERRUPTS',0 | 01 00599 |
| 002057 | 152240 | A | | | | |
| 002060 | 144718 | A | | | | |
| 002061 | 152305 | A | | | | |
| 002062 | 151322 | A | | | | |
| 002063 | 152720 | A | | | | |
| 002064 | 152323 | A | | | | |
| 002065 | 120240 | A | | | | |
| 002066 | 000000 | A | | | | |
| 002067 | 144718 | A | 601 M89 | DATA | 'INVALID INTERRUPT',0106612,0 | 01 00600 |
| 002070 | 153301 | A | | | | |
| 002071 | 146311 | A | | | | |
| 002072 | 142240 | A | | | | |

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002073 144716 A
002074 152308 A
002075 151322 A
002076 152720 A
002077 152240 A
002100 106612 A
002101 000000 A
002102 106612 A 502 MS10 DATA 0106612, ITTY INTERRUPT87 1,0 C 01 00601
002103 152324 A
002104 154640 A
002105 144716 A
002106 152308 A
002107 151322 A
002110 152720 A
002111 152323 A
002112 137640 A
002113 000000 A
000600 A 503 END PINT 01 00602

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ENTRY NAMES
EXTERNAL NAMES

SYMBOLS

| | | | |
|---------------|---------------|---------------|---------------|
| 000442 A SCON | 000440 A SFLG | 000441 A SMEM | 001701 A CC |
| 001702 A CYCL | 000422 A ELDC | 000504 A IADR | 001703 A IFLG |
| 000410 A INPA | 000411 A INPB | 000412 A INPC | 000413 A INPD |
| 000414 A INPE | 000415 A INPF | 000416 A INPG | 000820 A LTDR |
| 001722 A MS1 | 002102 A MS10 | 001731 A MS2 | 001750 A MS3 |
| 001772 A MS4 | 002007 A MS5 | 002023 A MS6 | 002046 A MS7 |
| 002056 A MS8 | 002067 A MS9 | 000400 A OUTA | 000401 A OUTB |
| 000402 A OUTC | 000403 A OUTD | 000404 A OUTE | 000405 A OUTF |
| 000406 A OUTG | 000407 A OUTH | 001704 A PADR | 001705 A PDI |
| 001706 A PD41 | 001707 A PD43 | 001061 A PIAA | 001203 A PIAB |
| 001204 A PIAC | 001206 A PIAD | 001207 A PIAE | 001231 A PIAF |
| 001242 A PIAG | 001245 A PIAH | 001255 A PIAI | 001210 A PIAJ |
| 001220 A PIAK | 001251 A PIAL | 001070 A PIB2 | 001120 A PIB3 |
| 001065 A PIBA | 001123 A PICA | 001130 A PIDA | 001140 A PIEA |
| 001151 A PIF2 | 001200 A PIFS | 001146 A PIFA | 001710 A PIN |
| 000662 A PIMA | 000664 A PIMB | 000702 A PIMC | 000720 A PIMD |
| 000726 A PIME | 000744 A PIMP | 000762 A PIMG | 001014 A PIMH |
| 001021 A PIMI | 001032 A PINJ | 000600 A PINT | 001265 A PINI |
| 001301 A PIN2 | 001315 A PIN3 | 001331 A PIN4 | 001345 A PIN5 |
| 001361 A PIN6 | 001375 A PIN7 | 001411 A PIN8 | 001602 A PINI |
| 001556 A PINX | 001542 A PID | 001563 A PIOR | 001711 A PIXY |

| | | | |
|---------------|---------------|---------------|----------------|
| 001712 A PIZZ | 001425 A PLOW | 001501 A PM02 | 001477 A PM0D |
| 001441 A PDV2 | 001454 A PDV3 | 001456 A PDV4 | 001466 A PDV5 |
| 001436 A PDVL | 001646 A PPOP | 001617 A PRES | 001611 A P SAV |
| 001625 A PTAB | 000777 A PTER | 001606 A PUT | 001713 A SAVA |
| 001714 A SAVB | 001715 A SAVX | 000421 A SSWT | 001716 A TCNT |
| 000420 A TDLY | 000417 A TDUT | 001717 A TPIM | 000471 A T804 |
| 001513 A TT20 | 001525 A TT21 | 000615 A TTY1 | 001605 A TTYI |
| 001720 A TYI1 | 001721 A TYI2 | | |

0 ERRORS ASSEMBLY COMPLETE