

***** 03-15-63 MASTER CONTROL PROGRAM INDEX *****

IPL PROGRAM

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MCP PROGRAM

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000040 |
|------|-----------|--------------------|----------|---|------------|----------|
| | 000040.00 | LOWER MEMCRY BOUND | | | | |
| | 236543.00 | UPPER MEMCRY BOUND | | | | |
| 1* | | | B PRCSA | IOD,DISK,CDICEX | 0001234354 | 10000003 |
| 2* | * | | B UNUSE1 | IOD,NOT USED,0,PULL THIS CARD BEFORE UPDATING | 0002000000 | 10000004 |
| 3* | * | | B UNAGN3 | IOD,RESERVED FOR UNASSIGN,0,PULL CARD BEFORE UPDATING | 0003000000 | 10000005 |
| 4* | * | | B VRTP | IOD,TAPE,VRTEXT,CH32 | 0004224133 | 10000006 |
| 5* | * | | B | REEL,NLBSCAN2 | 0004 | 10000007 |
| 6* | * | | B VCRD | IOD,READER,VCREXT | 0005224115 | 10000008 |
| 7* | * | | B VWTP | IOD,TAPE,VWTEXT,CH33 | 0006224124 | 10000009 |
| 8* | * | | B | REEL,NLBSCAN1 | 0006 | 10000010 |
| 9* | * | | B UNUSE2 | IOD,NOT USED,0,PULL THIS CARD BEFORE UPDATING | 0007000000 | 10000011 |
| 10* | * | | B JCICD | IOD,CONSOLE,JCFIX,CONS1 | 0010232723 | 10000012 |
| 11* | * | | B UNAGN9 | IOD,RESERVED FOR UNASSIGN,0,PULL CARD BEFORE UPDATING | 0011000000 | 10000013 |
| 12* | * | | B PCDEF2 | IOD,CONSOLE,PDBEX,CONS1 | 0012232653 | 10000014 |
| 13* | * | | B CT11 | IOD,TAPE,AXITA,CH34,UN0 | 0013222541 | 10000015 |
| 14* | * | | B | REEL,NLBOUTPT | 0013 | 10000016 |
| 15* | * | | B CT21 | IOD,TAPE,AXITB,CH34,UN1 | 0014222553 | 10000017 |
| 16* | * | | B | REEL,NLBOUTPT | 0014 | 10000018 |
| 17* | * | | | SEM,114,116,118,119,120 | | 10000019 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|----------|---------------|--------|---------------------------------|----------|
| 1* | | | | 03-15-63 IBM NEW VERSION OF MCP | |
| 2* | | | | ***** | 11000002 |
| 3* | | | PUNFUL | | 11000003 |

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EAC TAPE RECORD, IF START IS PUSHED, NEXT TAPE RECORD WILL BE READ.

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03-15-63 IBM NEW VERSION OF MCP
IBM 7030 MASTER CONTROL PROGRAM

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000040 |
|------|-----------|--------------------|----------|---|------------|----------|
| | CC0040.00 | LOWER MEMORY BOUND | | | | |
| | 236543.00 | UPPER MEMORY BOUND | | | | |
| 1* | | | B PROSA | IOD,DISK,CDICEX | 0001234354 | 10000003 |
| 2* | * | | B UNUSE1 | IOD,NOT USED,0,PULL THIS CARD BEFORE UPDATING | 0002000000 | 10000004 |
| 3* | * | | B UNAGN3 | IOD,RESERVED FOR UNASSIGN,C,PULL CARD BEFORE UPDATING | 0003000000 | 10000005 |
| 4* | * | | B VRTP | IOD,TAPE,VRTEXT,CH32 | 0004224133 | 10000006 |
| 5* | * | | B | REEL,NLBSCAN2 | 0004 | 10000007 |
| 6* | * | | B VCRD | IOD,READER,VCREXT | 0005224115 | 10000008 |
| 7* | * | | B VWTP | IOD,TAPE,VWTEXT,CH33 | 0006224124 | 10000009 |
| 8* | * | | B | REEL,NLBSCAN1 | 0006 | 10000010 |
| 9* | * | | B UNUSE2 | IOD,NOT USED,0,PULL THIS CARD BEFORE UPDATING | 0007000000 | 10000011 |
| 10* | * | | B JCIOD | IOD,CONSOLE,JCFIX,CONSI | 0010232723 | 10000012 |
| 11* | * | | B UNAGN9 | IOD,RESERVED FOR UNASSIGN,C,PULL CARD BEFORE UPDATING | 0011000000 | 10000013 |
| 12* | * | | B PCDEF2 | IOD,CONSOLE,PDBEX,CONSI | 0012232653 | 10000014 |
| 13* | * | | B CT11 | IOD,TAPE,AXITA,CH34,UNO | 0013222541 | 10000015 |
| 14* | * | | B | REEL,NLBOUTPT | 0013 | 10000016 |
| 15* | * | | B CT21 | IOD,TAPE,AXITB,CH34,UNI | 0014222553 | 10000017 |
| 16* | * | | B | REEL,NLBOUTPT | 0014 | 10000018 |
| 17* | * | | | SEM,114,116,118,119,120 | | 10000019 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|------|---|----------|
| 1* | | | | 03-15-63 IBM NEW VERSION OF MCP | |
| 2* | | | | ***** | 11000002 |
| 3* | | | | PUNFUL | 11000003 |
| 4* | 000041.00 | | | (CC*)DD(BU,,12),B HED,REP,11E11BSP,LOAD,, * | 11000004 |
| 5* | 000051.34 * | | | (CC*)DD(BU,,12), 11E11BSP* | 11000005 |
| 6* | | | | PUNCRG | 11000006 |
| 7* | | | | PUNID,11E11BSP | 11000007 |
| 8* | | | | RESEQ | 11000008 |
| 9* | | | | PRNS | 11000009 |
| 10* | | | | TAIL,(2)G | 11000010 |
| 11* | | | | - ***** | 11000011 |
| 12* | | | | - MCP INIALIZATION BOOTSTRAP | 11000012 |
| 13* | | | | - ***** | 11000013 |
| 14* | | | | - | 11000014 |
| 15* | 000040.00 | | | SLC,(8)40.0 | 11000015 |
| 16* | | | | - | 11000016 |
| 17* | 000040.00 | 000041.00+ 000 000560 000001 | | CW(CR),X IPL BS,X BS END-X IPL BS,1 | 11000017 |
| 18* | | | | -IPL CW FOR READING IN IPL BOOTSTRAP | 11000018 |
| 19* | | | | -RECORD FROM SOURCE TAPE | 11000019 |
| 20* | | | | -ONE IN REFILL FIELD IDENTIFIES IPLCW | 11000020 |
| 21* | | | | - | 11000021 |
| 22* | | | | *** CLEAR 7030 LOWER REGISTERS AND STORAGE *** | 11000022 |
| 23* | | | | - | 11000023 |
| 24* | 000041.00 | 000043.44 00 | | X IPL BS BD,X BEGIN -DISABLE AND START IPL | 11000024 |
| 25* | 000041.40 | 000000.00+ | | VF,0 -SLOT FOR TAPE CW | 11000025 |
| 26* | 000042.00 | 000000.00+ 000 000000 000000 | | XW,0 -SLOT FOR DISK CW | 11000026 |
| 27* | 000043.00 | | | X VERIFY (A*)DD(BU,32,8),0911* -SLOT FOR DATE OF SOURCE TAPE IN A-8 | 11000027 |
| 28* | 000043.40 | 000547.36 10 | | X BEGIN LX,\$15,XW SR - INITIALIZE TO CLEAR LOWER REGISTERS | 11000028 |
| 29* | 000044.00 | 000000.22 00 | | Z,0.0 | 11000029 |
| 30* | 000044.40 | 000002.22 0F | | X LOOP Z,2.0 (\$15) -CLEAR LOWER REGESTERS | 11000030 |
| 31* | 000045.00 | 000044.77 4C | | CBR+,\$15,X LOOP | 11000031 |
| 32* | 000045.40 | 000547.40 80 000000.20 50 | | L(BU),XW SR+.32 -DONE CLEAR C AND D REGISTERS | 11000032 |
| 33* | 000046.40 | 000047.00 46 | | X CL IND BMKZ,\$+.32 | 11000033 |
| 34* | 000047.00 | 000046.63 80 006000.22 BC | | M+1(BU,6),X CL IND+.19 -CLEAR NON MASKABLE INDICATORS | 11000034 |
| 35* | 000050.00 | 000046.76 48 | | CB,\$15,X CL IND | 11000035 |
| 36* | 000050.40 | 000000.22 0F | | X CLSTO Z,0.0(\$15) -CLEAR ONE WORD | 11000036 |
| 37* | 000051.00 | 000052.10 46 | | BADZ,\$+1.0 -IF DONE CLEARING STORAGE | 11000037 |
| 38* | 000051.40 | 000050.77 48 | | CB+,15,XCLSTO -ADVANCE AND RETURN | 11000038 |
| 39* | 000052.00 | 000546.37 30 | | SV,15,X S ROOF -TEMPORARILY SAVE 7030 SIZE | 11000039 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|---|----------|
| 1* | | | | - ***** | 11000041 |
| 2* | | | | -*** FIND IPL CHANNEL NUMBER *** | 11000042 |
| 3* | | | | - ***** | 11000043 |
| 4* | | | | - | 11000044 |
| 5* | 000052.40 * | 000053.40 80 | 023000.22 80 | X1 M+1(BU,19),X1 CCW - ADVANCE CHANNEL | 11000045 |
| 6* | 000053.40 | 000017.40 30 | 000041.21 00 | X1 CCW CCW,15.32,X IPL BS | 11000046 |
| 7* | 000054.40 | 000051.00 80 | | X ERR 00 SIC,X ERR AD | 11000047 |
| 8* | 000055.00 | 0000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR | 11000047 |
| 9* | 000055.40 | 000041.77 80 | 000052.74 00 | BZB,X IPL BS+.63,X1 -IS IT IPL CHANNEL | 11000048 |
| 10* | 000056.40 | 000053.77 80 | | LVE,15,X1 CCW - OBTAIN NUMBER OF IPL CHANNEL | 11000049 |
| 11* | 000057.00 | 000070.10 00 | | B,X8 -TO SPACE OVER TAPE MARK | 11000050 |
| 12* | | | | - | 11000051 |
| 13* | | | | -***** | 11000052 |
| 14* | | | | -*** IO TEST *** | 11000053 |
| 15* | | | | -***** | 11000054 |
| 16* | | | | - | 11000055 |
| 17* | 000057.40 | 000051.00 80 | | X7 1 SIC,X ERR AD | 11000056 |
| 18* | 000060.00 | 0000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR | 11000056 |
| 19* | 000060.40 | 000051.00 80 | | X ERR 02 SIC,X ERR AD | 11000057 |
| 20* | 000061.00 | 0000133.03 06 | | BUNRJZ,X ERROR -UNIT NOT READY REJECT | 11000057 |
| 21* | 000061.40 | 000051.00 80 | | X ERR 03 SIC,X ERR AD | 11000058 |
| 22* | 000062.00 | 0000133.04 46 | | BCBJZ,X ERROR -IF CHANNEL BUSY REJECT | 11000058 |
| 23* | 000062.40 | 000000.00 8F | 000041.21 00 | X7 1 CCW CCW,0(\$15),X IPL BS | 11000059 |
| 24* | 000063.40 | 000051.00 80 | | X ERR 04 SIC,X ERR AD | 11000060 |
| 25* | 000064.00 | 0000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR FOR CCW | 11000060 |
| 26* | 000064.40 | 000041.30 80 | 000062.74 02 | BB,X IPL BS+.24,X7 1 CCW -IO OPERATION COMPLETED | 11000061 |
| 27* | 000065.40 | 000041.23 80 | 005000.07 70 | CT0011(BU,5),X IPL BS+.19 | 11000062 |
| 28* | 000066.40 * | 000000.34 02 | | X7 3 BRZ,0.0 -SUCCESSFUL | 11000063 |
| 29* | 000067.00 | 000051.00 80 | | X ERR 05 SIC,X ERR AD | 11000064 |
| 30* | 000067.40 | 0000133.10 00 | | B,X ERROR -IO STATUS BIT ON | 11000064 |
| 31* | | | | - | 11000065 |
| 32* | | | | -***** | 11000066 |
| 33* | | | | -SPACE OVER TAPE MARK | 11000067 |
| 34* | | | | -***** | 11000068 |
| 35* | 000070.00 | 000000.00 8F | 000077.15 00 | X8 SPFL(SECP),0.0(\$15) -SPACE OVER TAPE MARK | 11000069 |
| 36* | 000071.00 | 000051.00 80 | | X ER 05A SIC,X ERR AD | 11000070 |
| 37* | 000071.40 | 0000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR | 11000070 |
| 38* | 000072.00 | 000051.00 80 | | X ER 05B SIC,X ERR AD | 11000071 |
| 39* | 000072.40 | 0000133.03 06 | | BUNRJZ,X ERROR -IF UNIT NOT READY REJECT | 11000071 |
| 40* | 000073.00 | 000051.00 80 | | X ER 05C SIC,X ERR AD | 11000072 |
| 41* | 000073.40 | 0000133.04 46 | | BCBJZ,X ERROR -IF CHANNEL BUSY REJECT | 11000072 |
| 42* | 000074.00 | 000000.00 8F | 000041.21 00 | X8 1 CCW,0(\$15),X IPL BS -GET STATUS BITS | 11000073 |
| 43* | 000075.00 | 000051.00 80 | | X ER 05D SIC,X ERR AD | 11000074 |
| 44* | 000075.40 | 0000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR | 11000074 |
| 45* | 000076.00 | 000041.30 80 | 000074.34 02 | BB,X IPL BS+.24,X 8 1 -IF SECP OFF | 11000075 |
| 46* | 000077.00 | 000041.25 80 | 000101.34 04 | BZBZ,X IPL BS+.21,XERO5E -OFF * IF EE ON | 11000076 |
| 47* | 000100.00 | 000041.23 80 | 000102.34 00 | BZB,X IPL BS+.19,X8 2 -YES*TEST FOR UK | 11000077 |
| 48* | 000101.00 | 000051.00 80 | | X ER 05E SIC,X ERR AD | 11000078 |
| 49* | 000101.40 | 0000133.10 00 | | B,X ERROR -ERROR IN SPACING | 11000078 |
| 50* | 000102.00 * | 000000.00 8F | 000000.33 00 | X8 2 REL(SECP),0.0(\$15) -CLEAR EE AND EOP STATUS BIT | 11000079 |
| 51* | 000103.00 | 000066.40 80 | | SIC,X7 3 | 11000080 |
| 52* | 000103.40 | 000057.50 00 | | B,X7 1 - TO IO TEST | 11000080 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|----------|--|----------|
| 1* | | | | - ***** | 11000082 |
| 2* | | | | - FETCH PROSA | 11000083 |
| 3* | | | | - ***** | 11000084 |
| 4* | | | | - | 11000085 |
| 5* | 000104.CC | 000000.00 8F 000552.11 00 | X9 A | RD(SEOP),C.C(\$15),X PROSA -FETCH PRCSA | 11000086 |
| 6* | 000105.00 | 000551.00 80 | X9 A 1 | SIC,XERRAD | 11000087 |
| 7* | 000105.40 | 000133.03 46 | | BEKJZ,X ERROR- EXCHANGE ERROR | 11000087 |
| 8* | 000106.00 | 000551.00 80 | X ERR 07 | SIC,X ERR AD | 11000088 |
| 9* | 000106.40 | 000133.03 C6 | | BUNRJZ,X ERROR -IF UNIT NOT READY REJECT | 11000088 |
| 10* | 000107.00 | 000551.00 80 | X ERR 08 | SIC,X ERR AD | 11000089 |
| 11* | 000107.40 | 000133.04 46 | | BCBJZ,X ERROR -IF CHANNEL BUSY REJECT | 11000089 |
| 12* | 000110.CC | 000000.00 8F 000041.21 00 | X9 A CCW | CCW,C(\$15),X IPL BS | 11000090 |
| 13* | 000111.00 | 000551.00 80 | X ERR 09 | SIC,X ERR AD | 11000091 |
| 14* | 000111.40 | 000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR FOR CCW | 11000091 |
| 15* | 000112.00 | 000041.30 80 000110.34 02 | | BB,X IPL BS+.24,X9ACCW -TRY AGAIN IF BUSY | 11000092 |
| 16* | 000113.00 | 000041.23 80 005000.07 70 | | CTOC11(BU,5),X IPL BS+.19 | 11000093 |
| 17* | 000114.00 | 000125.74 C0 | X9 A 3 | BZRZ,X DONE -SUCCESSFUL | 11000094 |
| 18* | 000114.40 | 000115.10 00 | X9 A 3A | B,X9A4 -RETURN AFTER IO TLST | 11000095 |
| 19* | 000115.00 | 011407.30 10 | X9 A 4 | LX,\$12,X BUFER+1.0 - GET DICTIONARY | 11000096 |
| 20* | 000115.40 * | 000034.31 50 | | SC,\$12,\$12 | 11000097 |
| 21* | 000116.00 | 011411.34 10 | | LX,\$14,X BUFER + 3.0 -GET INDEX | 11000098 |
| 22* | 000116.40 | 000036.35 50 | | SC,\$14,\$14 | 11000099 |
| 23* | 000117.00 | 000050.03 CB | | LVS,\$1,\$12,\$14 -WORDS PRECEEDING MCP | 11000100 |
| 24* | 000117.40 | 011413.26 10 | | LX,\$11,X BUFER+5.0 - GET IPL | 11000101 |
| 25* | 000120.00 | 000033.27 50 | | SC,\$11,\$11 | 11000102 |
| 26* | 000120.40 | 011415.24 10 | | LX,\$10,X BUFER+7.0 -GET MCP SIZE | 11000103 |
| 27* | 000121.00 | 000032.25 50 | | SC,\$10,\$10 | 11000104 |
| 28* | 000121.40 | 011406.00 81 000621.26 20 | X9 A 5 | T,\$11,X BUFER(\$1),X BS END -MOVE MCP IPL | 11000105 |
| 29* | 000122.40 | 000000.00 80 000000.33 00 | | REL(SECP),0.0(\$0) -RELEASE DISK | 11000106 |
| 30* | 000123.40 | 000631.03 C2 | | BUNRJ,X ERR 12 | 11000107 |
| 31* | 000124.00 | 377777.01 C2 | | LCI,0,(8)377777.0 | 11000108 |
| 32* | 000124.40 | 000124.40 48 | | CB,0,\$ | 11000109 |
| 33* | 000125.00 | 000622.10 00 | | B,X 10 -TO MCP IPL | 11000110 |
| 34* | 000125.40 | 000041.25 80 000127.74 02 | X DONE | BB,X IPL BS+.21,X DONE+2.0 | 11000111 |
| 35* | 000126.40 | 000551.00 80 | X ERR 10 | SIC,X ERR AD | 11000112 |
| 36* | 000127.00 | 000133.10 00 | | B,X ERRCR -OTHER STATUS BITS ON | 11000112 |
| 37* | 000127.40 | 000020.31 80 001000.36 F0 | | CM1111(BU,1),\$0 +.25 -END OF PROSA FILE | 11000113 |
| 38* | 000130.40 * | 000000.00 8F 000000.33 00 | | REL(SEOP),0.0(\$15) - CLEAR STATUS BITS | 11000114 |
| 39* | 000131.40 | 000066.40 80 | | SIC,X7 3 | 11000115 |
| 40* | 000132.00 | 000057.50 00 | | B,X7 1 - IO TEST | 11000115 |
| 41* | 000132.40 | 000114.50 00 | | B,X9 A 3A | 11000116 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|----------|--------------------------------------|----------|
| 1* | | | | -***** | 11000118 |
| 2* | | | | -ERROR ROUTINE | 11000119 |
| 3* | | | | -***** | 11000120 |
| 4* | | | | - | 11000121 |
| 5* | 000133.00 | 000245.04 10 | X ERROR | LX,\$2,X ERR IN | 11000122 |
| 6* | | | | -INITIALIZE WITH BASE AND SIZE OF | 11000123 |
| 7* | 000133.40 | 000551.02 30 | | -X ERR DD TABLE | 11000124 |
| 8* | 000134.00 | 000000.02 92 | X ERR SH | LV,\$1,X ERR AD | 11000125 |
| 9* | 000134.40 | 000136.32 C2 | | KV,\$1,0.0(\$2) | 11000126 |
| 10* | 000135.00 | 000134.05 48 | | -GET BIASED ERROR ADDRESS | 11000127 |
| 11* | 000135.40 | 000135.44 00 | | -TEST AGAINST TABLE CODE | 11000128 |
| 12* | 000136.00 | 000551.00 80 | X1 ERR | BXE,X 1 ERR | 11000129 |
| 13* | | | | -IF CODES ARE EQUAL | 11000130 |
| 14* | 000137.00 | 000000.44 32 | | CB+,\$2,X ERR SH | 11000131 |
| 15* | 000137.40 | 000000.20 82 | | -TC TEST NEXT CODE | 11000132 |
| 16* | | | | BD,\$ | 11000133 |
| 17* | 000140.40 | 000001.00 82 | | -IPL CONTAMINATED | 11000134 |
| 18* | 000141.40 | 000247.05 D0 | | LF(BU,21,3),X ERR AD,1 | 11000135 |
| 19* | 000142.00 | 002156.02 30 | | -BREAK ADDRESS INTO EIGHT | 11000136 |
| 20* | 000142.40 | 000157.31 40 | | -BIT BYTES | 11000137 |
| 21* | 000143.00 | 000020.03 01 | | LV,\$2,.32(\$2) | 11000138 |
| 22* | | | | -GET ADDRESS OF MESSAGE | 11000139 |
| 23* | 000143.40 | 000040.03 02 | | M+MG(BU,48,8),.8+.8(\$2),8 | 11000140 |
| 24* | | | | -SKIPPING OVER CONTROL CODESFORM | 11000141 |
| 25* | 000144.00 | 000175.40 80 | X1A ERR | -FULL WORD PORTION IN IQS | 11000142 |
| 26* | 000144.40 * | 000171.50 00 | | M+MG(BU,8,8),.8+.48+.8(\$2) | 11000143 |
| 27* | | | | -FORM HALF WORD PORTION | 11000144 |
| 28* | 000145.00 | 000000.00 81 | | SVA,\$2,XMSG CW | 11000145 |
| 29* | 000146.00 | 000166.43 42 | | -INITIALIZE CW | 11000146 |
| 30* | | | | LV,\$1,S YCOCH | 11000147 |
| 31* | 000146.40 | 000175.40 80 | | -GET CONSOLE CHANNEL SLOT CONTENT | 11000148 |
| 32* | 000147.00 | 000171.44 46 | | -IF CHANNEL NUMBER PRESENT | 11000149 |
| 33* | 000147.40 | 000166.03 C6 | | BZXVZ,X 2A ERR | 11000150 |
| 34* | 000150.00 | 000175.40 80 | | LVI,\$1,(8)20.0 | 11000151 |
| 35* | 000150.40 | 000171.50 00 | | -NO* ENTER FIRST CHANNEL OF | 11000152 |
| 36* | 000151.00 | 000000.00 81 | | -BASIC EXCHANGE | 11000153 |
| 37* | 000152.00 | 000166.43 42 | | -GET MAXIMUM SIZE OF BASIC | 11000154 |
| 38* | | | | -EXCHANGE | 11000155 |
| 39* | 000152.40 | 000000.00 81 | | SIC,X 1D ERR | 11000156 |
| 40* | 000153.40 | 000166.43 42 | | B,X 1B ERR | 11000157 |
| 41* | 000154.00 | 000253.30 80 | | -TO CLEAR OUT OLD CHANNEL | 11000158 |
| 42* | 000155.00 | 000253.23 80 | | -STATUS BITS | 11000159 |
| 43* | 000156.00 | 000175.40 80 | | CTL(SEOP),0.0(\$1),0.0 | 11000160 |
| 44* | 000156.40 | 000171.50 00 | | -ILLEGAL IO CONTROL CODE | 11000161 |
| 45* | 000157.00 | 000000.00 81 | | BEKJ,X6 ERR | 11000162 |
| 46* | 000160.00 * | 000166.43 42 | | -EXHAUSTED ALL CHANNELS OR EXCHANGE | 11000163 |
| 47* | 000160.40 | 000166.03 C6 | | - ERROR | 11000164 |
| 48* | 000161.00 | 000000.00 81 | | SIC,X1DERR | 11000165 |
| 49* | 000162.00 | 000166.43 42 | | BCBJZ,X 1B ERR -BUSY | 11000166 |
| 50* | 000162.40 | 000253.30 80 | | BUNRJZ,X5 ERR | 11000167 |
| 51* | 000163.40 | 000253.23 80 | | -CONTROL UNIT OR UNIT NOT READY | 11000168 |
| 52* | 000164.40 | 000000.00 81 | | SIC,X 1D ERR | 11000169 |
| 53* | 000165.40 | 000166.50 00 | | B,X1B ERR | 11000170 |
| 54* | 000166.00 | 000144.02 C8 | | - TO RELEASE STATUS BIT | 11000171 |
| 55* | | | | B,X1B ERR | 11000172 |
| 56* | 000166.40 | 000551.00 80 | X 1E ERR | LOC(SEOP),0.0(\$1),0.0 | 11000173 |
| | | | | -TEST IF TAPE CHANNEL | 11000174 |
| | | | | BEKJ,X6ERR | 11000175 |
| | | | | -EXHAUSTED ALL CHANNELS OR | 11000176 |
| | | | | EXCHANGE ERROR | 11000177 |
| | | | | - | 11000178 |
| | | | | CCW,0.0(\$1),XERR CW | 11000179 |
| | | | | -GET CW | 11000180 |
| | | | | BEKJ,X6 ERR | 11000181 |
| | | | | BB,X ERR CW+.24,X 2 ERR | 11000182 |
| | | | | -TEST SEOP BIT | 11000183 |
| | | | | BZB,X ERR CW+.19,X 5 ERR | 11000184 |
| | | | | -TEST IF TAPE UNIT * NO EPGK | 11000185 |
| | | | | SIC,X 1D ERR | 11000186 |
| | | | | B,X1B ERR | 11000187 |
| | | | | -NON TAPE *RELEASE STATUS BIT | 11000188 |
| | | | | GONG(SECP),0.0(\$1) | 11000189 |
| | | | | - ISSUE CONSOLE COMMAND | 11000190 |
| | | | | BEKJ,X 6 ERR | 11000191 |
| | | | | BUNRJZ,X 5 ERR | 11000192 |
| | | | | -REFERENCED UNIT NOT READY | 11000193 |
| | | | | CCW,0.0(\$1),X ERR CW | 11000194 |
| | | | | -GET GONG CW | 11000195 |
| | | | | BEKJ,X6ERR | 11000196 |
| | | | | -IF EXCHANGE ERROR | 11000197 |
| | | | | BB,X ERR CW+.24,X3 ERR | 11000198 |
| | | | | -TEST SEOP BIT | 11000199 |
| | | | | BB,X ERR CW+.19,X 5 ERR | 11000200 |
| | | | | -IF CONSOLE * NO EPGK | 11000201 |
| | | | | W(SEOP),0.0(\$1),X MS CW1 | 11000202 |
| | | | | -CONSOLE | 11000203 |
| | | | | B,X 6 ERR | 11000204 |
| | | | | - | 11000205 |
| | | | | CBH,\$1,X 1A ERR | 11000206 |
| | | | | -NOT DONE TESTING | 11000207 |
| | | | | - | 11000208 |
| | | | | TI,1,X ERR AD,\$R | 11000209 |
| | | | | -DISPLAY ERROR ADDRESS IN CE CONSOLE | 11000210 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000167 |
|------|-------------|---------------------------|---------|---|----------|----------|
| 1* | 000167.4C | 000167.44 00 | | BD,\$ -LOOP | | 11000170 |
| 2* | | | | | | 11000171 |
| 3* | 000170.00 | 000175.40 80 | X 7 ERR | SIC,X 1D ERR | | 11000172 |
| 4* | 000170.40 | 000171.50 00 | | B,X 1B ERR - TO RELEASE STATUS BIT | | 11000172 |
| 5* | 000171.00 | 000144.10 00 | | B,X 1A ERR -TO LOCATE AGAIN | | 11000173 |
| 6* | | | | | | 11000174 |
| 7* | 000171.40 | 000000.00 81 000000.33 00 | X1B ERR | REL(SECP),0.0(\$1) -CLEAR OUT OLD STATUS BITS | | 11000175 |
| 8* | 000172.40 | 000166.43 42 | | BEKJ,X6 ERR | | 11000176 |
| 9* | 000173.00 * | 000000.00 81 000253.21 00 | X1C ERR | CCW,0.0(\$1),X ERR CW | | 11000177 |
| 10* | 000174.00 | 000166.43 42 | | BEKJ,X6 ERR | | 11000178 |
| 11* | 000174.40 | 000253.30 80 000173.34 02 | | BB,X ERR CW+.24,X1C ERR -IF RELEASED | | 11000179 |
| 12* | 000175.40 | 000000.10 00 | X1D ERR | B,0.0 -YES*BACK | | 11000180 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|----------|---|----------|
| 1* | | | | CNOP | 11000182 |
| 2* | 000176.00 | 000055.40+ | X ERR DD | VF,X ERR 00+1.0 | 11000183 |
| 3* | 000176.40 | 000254.00+ | | VF,X MSG 00 -EKJ ON CCW OF IPL CW | 11000183 |
| 4* | 000177.00 | 000060.40+ | | VF,X ERR 01+1.0 | 11000184 |
| 5* | 000177.40 | 000260.00+ | | VF,X MSG 01 -EKJ DETECTED IN IO TEST ROUTINE | 11000184 |
| 6* | 000200.00 | 000061.40+ | | VF,X ERR 02+1.0 | 11000185 |
| 7* | 000200.40 | 000266.00+ | | VF,X MSG 02 -UNRJ DETECTED IN IO TEST ROUTINE | 11000185 |
| 8* | 000201.00 | 000062.40+ | | VF,X ERR 03+1.0 | 11000186 |
| 9* | 000201.40 | 000274.00+ | | VF,X MSG 03 -CBJ DETECTED IN IO TEST ROUTINE | 11000186 |
| 10* | 000202.00 | 000064.40+ | | VF,X ERR 04+1.0 | 11000187 |
| 11* | 000202.40 | 000302.00+ | | VF,X MSG 04 -EKJ ON CCW IN IO TEST ROUTINE | 11000187 |
| 12* | 000203.00 | 000070.00+ | | VF,X ERR 05+1.0 | 11000188 |
| 13* | 000203.40 | 000310.00+ | | VF,X MSG 05 -UNSUCCESSFUL COMPLETION | 11000188 |
| 14* | 000204.00 | 000072.00+ | | VF,X ER 05A+1.0 | 11000189 |
| 15* | 000204.40 | 000315.00+ | | VF,X MS 05A -EKJ IN SPACING OVER EOF | 11000189 |
| 16* | 000205.00 | 000073.00+ | | VF,X ER 05B+1.0 | 11000190 |
| 17* | 000205.40 | 000322.00+ | | VF,X MS 05B -UNRJ IN SPACING OVER EOF | 11000190 |
| 18* | 000206.00 | 000074.00+ | | VF,X ER 05C+1.0 | 11000191 |
| 19* | 000206.40 | 000327.00+ | | VF,X MS 05C -CBJ IN SPACING OVER EOF | 11000191 |
| 20* | 000207.00 | 000076.00+ | | VF,X ER 05D+1.0 | 11000192 |
| 21* | 000207.40 * | 000334.00+ | | VF,X MS 05D -EKJ OF CCW IN TEST OF SPACE FILE | 11000192 |
| 22* | 000210.00 | 000102.00+ | | VF,X ER 05E+1.0 | 11000193 |
| 23* | 000210.40 | 000342.00+ | | VF,X MS 05E -SPACE EOF OPERATION IN ERROR | 11000193 |
| 24* | 000211.00 | 000127.40+ | | VF,X ERR 10+1.0 | 11000194 |
| 25* | 000211.40 | 000374.00+ | | VF,X MSG 10 -UNSUCCESSFUL COMPLETION OF MCP | 11000194 |
| 26* | | | | -IPL READ | 11000195 |
| 27* | 000212.00 | 000106.00+ | | VF,X ERR 06+1.0 | 11000196 |
| 28* | 000212.40 | 000347.00+ | | VF,X MSG 06 -EKJ ON READ OF SOURCE TAPE | 11000196 |
| 29* | 000213.00 | 000107.00+ | | VF,X ERR 07+1.0 | 11000197 |
| 30* | 000213.40 | 000354.00+ | | VF,X MSG 07 -UNRJ ON READ OF SOURCE TAPE | 11000197 |
| 31* | 000214.00 | 000110.00+ | | VF,X ERR 08+1.0 | 11000198 |
| 32* | 000214.40 | 000361.00+ | | VF,X MSG 08 -CBJ ON READ OF SOURCE TAPE | 11000198 |
| 33* | 000215.00 | 000112.00+ | | VF,X ERR 09+1.0 | 11000199 |
| 34* | 000215.40 | 000366.00+ | | VF,X MSG 09 -EKJ ON CCW ON SOURCE TAPE | 11000199 |
| 35* | | | | -CHANNEL | 11000200 |
| 36* | 000216.00 | 000631.00+ | | VF,X ERR 11+1.0 | 11000201 |
| 37* | 000216.40 | 000403.00+ | | VF,X MSG 11 -EKJ ON DISK OPERATION | 11000201 |
| 38* | 000217.00 | 000632.00+ | | VF,X ERR 12+1.0 | 11000202 |
| 39* | 000217.40 | 000410.00+ | | VF,X MSG 12 -UNRJ ON DIST OPERATION | 11000202 |
| 40* | 000220.00 | 000633.00+ | | VF,X ERR 13+1.0 | 11000203 |
| 41* | 000220.40 | 000415.00+ | | VF,X MSG 13 -CBJ ON DISK OPERATION | 11000203 |
| 42* | 000221.00 | 000640.40+ | | VF,X ERR 14+1.0 | 11000204 |
| 43* | 000221.40 | 000424.00+ | | VF,X MSG 14 -EKJ ON CCW ON DISK WRITE OPERATION | 11000204 |
| 44* | 000222.00 | 000641.40+ | | VF,X ERR 15+1.0 | 11000205 |
| 45* | 000222.40 | 000432.00+ | | VF,X MSG 15 -CBJ ON CCW ON DISK WRITE OPERATION | 11000205 |
| 46* | 000223.00 * | 000642.40+ | | VF,X ERR 16+1.0 | 11000206 |
| 47* | 000223.40 | 000432.00+ | | VF,X MSG 16 -UNSUCCESSFUL COMPLETION OF DISK | 11000206 |
| 48* | | | | -LOCATE | 11000207 |
| 49* | 000224.00 | 000645.40+ | | VF,X ER 16A+1.0 | 11000208 |
| 50* | 000224.40 | 000432.00+ | | VF,X MS 16A -EKJ OF CCW IN TEST OF DISK WRITE | 11000208 |
| 51* | 000225.00 | 000646.40+ | | VF,X ER 16B+1.0 | 11000209 |
| 52* | 000225.40 | 000432.00+ | | VF,X MS 16B -WRITE DISK OPERATION IN ERROR | 11000209 |
| 53* | 000226.00 | 000662.40+ | | VF,X ER 16C+1.0 | 11000210 |
| 54* | 000226.40 | 000440.00+ | | VF,X MS 16C -NO IOCC CARD DETECTED | 11000210 |
| 55* | 000227.00 | 000707.40+ | | VF,X ERR 17+1.0 | 11000211 |
| 56* | 000227.40 | 000444.00+ | | VF,X MSG 17 -WRONG EQUIPMENT CODE | 11000211 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000230 |
|------|-------------|---------------|-------------------|---|-----------------------------------|----------|
| 1* | 000230.00 | 000723.40+ | | VF,X ERR 18+1.0 | | 11000212 |
| 2* | 000230.40 | 000451.00+ | | VF,X MSG 18 -IO CONFIGURATION DEFINED | | 11000212 |
| 3* | | | | -INCORRECTLY | | 11000213 |
| 4* | 000231.00 | 000760.40+ | | VF,X ERR 19+1.0 | | 11000214 |
| 5* | 000231.40 | 000460.00+ | | VF,X MSG 19 -INCORRECT CARD TYPE | | 11000214 |
| 6* | 000232.00 | 001006.40+ | | VF,X ERR 20+1.0 | | 11000215 |
| 7* | 000232.40 | 000464.00+ | | VF,X MSG 20 -NO CONSOLE DEFINED | | 11000215 |
| 8* | 000233.00 | 001010.00+ | | VF,X ERR 21+1.0 | | 11000216 |
| 9* | 000233.40 | 000501.00+ | | VF,X MSG 21 -NO CONSOLE AVAILABLE | | 11000216 |
| 10* | 000234.00 | 001157.40+ | | VF,X ER 21A+1.0 | | 11000217 |
| 11* | 000234.40 | 000464.00+ | | VF,X MS 21A -EKJ OF CCW IN IO STATUS REPORT | | 11000217 |
| 12* | | | | -ROUTINE | | 11000218 |
| 13* | 000235.00 | 001441.40+ | | VF,X ERR 22+1.0 | | 11000219 |
| 14* | 000235.40 | 000473.00+ | | VF,X MSG 22 -INCORRECT CARD TYPE WITHIN IO DS | | 11000219 |
| 15* | 000236.00 | 001453.00+ | | VF,X ERR 23+1.0 | | 11000220 |
| 16* | 000236.40 * | 000501.00+ | | VF,X MSG 23 -IO REQUIREMENTS REJECTED | | 11000220 |
| 17* | 000237.00 | 001471.40+ | | VF,X ERR 24+1.0 | | 11000221 |
| 18* | 000237.40 | 000506.00+ | | VF,X MSG 24 -IO ASSIGNMENTS CANNOT BE MADE | | 11000221 |
| 19* | 000240.00 | 001505.40+ | | VF,X ERR 25+1.0 | | 11000222 |
| 20* | 000240.40 | 000513.30+ | | VF,X MSG 25 -IO TABLES CANNOT BE FORMED | | 11000222 |
| 21* | 000241.00 | 001520.40+ | | VF,X ERR 26+1.0 | | 11000223 |
| 22* | 000241.40 | 000521.00+ | | VF,X MSG 26 -PROSA ARC COUNT INCORRECT | | 11000223 |
| 23* | 000242.00 | 001605.40+ | | VF,X ERR 27+1.0 | | 11000224 |
| 24* | 000242.40 | 000526.00+ | | VF,X MSG 27 -MCP PARAMETER INPUT MISSING | | 11000224 |
| 25* | 000243.00 | 001614.00+ | | VF,X ERR 28+1.0 | | 11000225 |
| 26* | 000243.40 | 000533.00+ | | VF,X MSG 28 -IMPOSSIBLE OPERATING MODE | | 11000225 |
| 27* | 000244.00 | 001647.40+ | | VF,X ERR 29+1.0 | | 11000226 |
| 28* | 000244.40 | 000540.00+ | | VF,X MSG 29 -SPCOL INPUT ASSIGNMENTS NOT | | 11000226 |
| 29* | | | | -MADE | | 11000227 |
| 30* | | | | CNOP | | 11000228 |
| 31* | 000047.00+ | -00000000 | B ,31 ,01 | X E DD K SYN,\$-X ERR DD | -SIZE OF ERROR TABLE | 11000229 |
| 32* | 000245.00 | 000176.00+ | 000 000050 000000 | X ERR IN XW,X ERR DD,X E DD K+1.0,0 | -XW FOR INITIALIZING ERROR | 11000230 |
| 33* | | | | | -SEARCH | 11000231 |
| 34* | 000246.00 | 001037.00+ | 100 000003 000247 | X MS CW1 CW,X ZEROS,3,X MSG CW(.25)1 | -CW FOR LOWER CONSOLE REGISTERS | 11000232 |
| 35* | 000247.00 | 000000.00+ | 000 000012 000000 | X MSG CW CW,0,10,C | -CW FOR ERROR MSG | 11000233 |
| 36* | 000250.00 * | 000003.00 | | X LR DR(BU,64),(3) | -ZERO WORDS FOR CONSOLE LR | 11000234 |
| 37* | 000253.00 | 000000.00+ | 000 000000 000000 | X ERR CW CW,0 | - SLOT FOR COPIED CW | 11000235 |
| 38* | | | | | -ERROR CODE ADDRESS EQUIVALENCIES | 11000236 |
| 39* | 000057.40+ | +00000000 | BU,40 ,10 | X ERR 01 SYN,X7 1 | | 11000237 |
| 40* | 001156.40+ | +00000000 | BU,40 ,10 | X ER 21A SYN,X IO AA | | 11000238 |
| 41* | 000105.00+ | +00000000 | BU,40 ,10 | X ERR 06 SYN,X9 A 1 | | 11000239 |
| 42* | 000630.00+ | +00000000 | BU,40 ,10 | X ERR 11 SYN,X10 5 | | 11000240 |
| 43* | 000706.40+ | +00000000 | BU,40 ,10 | X ERR 17 SYN,X13 5 | | 11000241 |
| 44* | 001440.40+ | +00000000 | BU,40 ,10 | X ERR 22 SYN,X22 3 | | 11000242 |
| 45* | 001452.00+ | +00000000 | BU,40 ,10 | X ERR 23 SYN,X23 4 | | 11000243 |
| 46* | 001604.40+ | +00000000 | BU,40 ,10 | X ERR 27 SYN,X32 2 | | 11000244 |
| 47* | 001613.00+ | +00000000 | BU,40 ,10 | X ERR 28 SYN,X323A | | 11000245 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|------|---|----------|
| 1* | | | | ***** | 11000247 |
| 2* | | | | AREA CONTAINING ERROR MESSAGES | 11000248 |
| 3* | | | | ***** | 11000249 |
| 4* | | | | | 11000250 |
| 5* | | | | CNOP | 11000251 |
| 6* | 000254.00+ | +00000000 | NULL | X MSG 00 SYN,\$ | 11000252 |
| 7* | 000254.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000253 |
| 8* | 000254.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000254 |
| 9* | 000254.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000255 |
| 10* | 000255.20 | | | (IQS*)DD(BU,64,8), EKJ ON CCW OF IPL CW* | 11000256 |
| 11* | 000257.70 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | 11000257 |
| 12* | | | | CNOP | 11000258 |
| 13* | 000260.00+ | +00000000 | NULL | X MSG 01 SYN,\$ | 11000259 |
| 14* | 000260.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000260 |
| 15* | 000260.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000261 |
| 16* | 000260.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000262 |
| 17* | 000261.20 | | | (IQS*)DD(BU,64,8), EKJ DETECTED IN IO TEST ROUTINE * | 11000263 |
| 18* | 000265.30 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000264 |
| 19* | 000265.40 | 000000.30 00 | | CNOP | 11000265 |
| 20* | 000266.00+ | +00000000 | NULL | X MSG 02 SYN,\$ | 11000266 |
| 21* | 000266.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000267 |
| 22* | 000266.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000268 |
| 23* | 000266.20 * | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000269 |
| 24* | 000267.20 | | | (IQS*)DD(BU,64,8), LNRJ DETECTED IN IO TEST ROUTINE* | 11000270 |
| 25* | 000273.30 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000271 |
| 26* | 000273.40 | 000000.30 00 | | CNOP | 11000272 |
| 27* | 000274.00+ | +00000000 | NULL | X MSG 03 SYN,\$ | 11000273 |
| 28* | 000274.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000274 |
| 29* | 000274.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000275 |
| 30* | 000274.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000276 |
| 31* | 000275.20 | | | (IQS*)DD(BU,64,8), CBJ DETECTED IN IO TEST ROUTINE * | 11000277 |
| 32* | 000301.30 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000278 |
| 33* | 000301.40 * | 000000.30 00 | | CNOP | 11000279 |
| 34* | 000302.00+ | +00000000 | NULL | X MSG 04 SYN,\$ | 11000280 |
| 35* | 000302.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000281 |
| 36* | 000302.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000282 |
| 37* | 000302.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000283 |
| 38* | 000303.20 | | | (IQS*)DD(BU,64,8), EKJ ON CCW IN IO TEST ROUTINE * | 11000284 |
| 39* | 000307.10 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000285 |
| 40* | 000307.40 | 000000.30 00 | | CNOP | 11000286 |
| 41* | 000310.00+ | +00000000 | NULL | X MSG 05 SYN,\$ | 11000287 |
| 42* | 000310.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000288 |
| 43* | 000310.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000289 |
| 44* | 000310.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000290 |
| 45* | 000311.20 | | | (IQS*)DD(BU,64,8), UNSUCCESSFUL COMPLETION * | 11000291 |
| 46* | 000314.30 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000292 |
| 47* | 000314.40 | 000000.30 00 | | CNOP | 11000293 |
| 48* | 000315.00+ | +00000000 | NULL | X MS 05A SYN,\$ | 11000294 |
| 49* | 000315.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000295 |
| 50* | 000315.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000296 |
| 51* | 000315.20 * | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | 11000297 |
| 52* | 000316.20 | | | (IQS*)DD(BU,64,8), EKJ IN SPACING OVER EOF* | 11000298 |
| 53* | 000321.20 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | 11000299 |
| 54* | 000321.40 | 000000.30 00 | | CNOP | 11000300 |
| 55* | 000322.00+ | +00000000 | NULL | X MS 05B SYN,\$ | 11000301 |
| 56* | 000322.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000302 |

| LINE | LOCATION | BINARY CUTPUT | NAME | STATEMENT | LOCATION | 000322 |
|------|-------------|---------------|------|--|----------|----------|
| 1* | 000322.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000303 |
| 2* | 000322.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000304 |
| 3* | 000323.20 | | | (IQS*)DD(BU,64,8), UNRJ IN SPACING OVER EOF* | | 11000305 |
| 4* | 000326.30 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000306 |
| 5* | 000326.40 | 000000.30 00 | | CNOP | | 11000307 |
| 6* | 000327.00+ | +00000000 | NULL | X MS 05C SYN,\$ | | 11000308 |
| 7* | 000327.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000309 |
| 8* | 000327.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000310 |
| 9* | 000327.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000311 |
| 10* | 000330.20 * | | | (IQS*)DD(BU,64,8), CBJ IN SPACING OVER EOF* | | 11000312 |
| 11* | 000333.20 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000313 |
| 12* | 000333.40 | 000000.30 00 | | CNOP | | 11000314 |
| 13* | 000334.00+ | +00000000 | NULL | X MS 05D SYN,\$ | | 11000315 |
| 14* | 000334.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000316 |
| 15* | 000334.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000317 |
| 16* | 000334.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000318 |
| 17* | 000335.20 | | | (IQS*)DD(BU,64,8), EKJ OF CCW IN TEST OF SPACE FILE* | | 11000319 |
| 18* | 000341.30 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000320 |
| 19* | 000341.40 | 000000.30 00 | | CNOP | | 11000321 |
| 20* | 000342.00+ | +00000000 | NULL | X MS 05E SYN,\$ * | | 11000322 |
| 21* | 000342.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000323 |
| 22* | 000342.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000324 |
| 23* | 000342.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000325 |
| 24* | 000343.20 * | | | (IQS*)DD(BU,64,8), SPACE EOF OPERATION IN ERROR* | | 11000326 |
| 25* | 000346.70 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000327 |
| 26* | | | | CNOP | | 11000328 |
| 27* | 000347.00+ | +00000000 | NULL | X MSG 06 SYN,\$ | | 11000329 |
| 28* | 000347.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000330 |
| 29* | 000347.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000331 |
| 30* | 000347.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000332 |
| 31* | 000350.20 | | | (IQS*)DD(BU,64,8), EKJ ON READ OF SOURCE TAPE * | | 11000333 |
| 32* | 000353.60 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000334 |
| 33* | | | | CNOP | | 11000335 |
| 34* | 000354.00+ | +00000000 | NULL | X MSG 07 SYN,\$ | | 11000336 |
| 35* | 000354.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000337 |
| 36* | 000354.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000338 |
| 37* | 000354.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000339 |
| 38* | 000355.20 * | | | (IQS*)DD(BU,64,8), UNRJ ON READ OF SOURCE TAPE * | | 11000340 |
| 39* | 000360.70 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000341 |
| 40* | | | | CNOP | | 11000342 |
| 41* | 000361.00+ | +00000000 | NULL | X MSG 08 SYN,\$ | | 11000343 |
| 42* | 000361.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000344 |
| 43* | 000361.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000345 |
| 44* | 000361.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000346 |
| 45* | 000362.20 | | | (IQS*)DD(BU,64,8), CBJ ON READ OF SOURCE TAPE * | | 11000347 |
| 46* | 000365.60 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000348 |
| 47* | | | | CNOP | | 11000349 |
| 48* | 000366.00+ | +00000000 | NULL | X MSG 09 SYN,\$ | | 11000350 |
| 49* | 000366.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000351 |
| 50* | 000366.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000352 |
| 51* | 000366.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000353 |
| 52* | 000367.20 * | | | (IQS*)DD(BU,64,8), EKJ ON CCW ON SOURCE TAPE CHANNEL * | | 11000354 |
| 53* | 000373.50 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000355 |
| 54* | | | | CNOP | | 11000356 |
| 55* | 000374.00+ | +00000000 | NULL | X MSG 10 SYN,\$ | | 11000357 |
| 56* | 000374.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000358 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000374 |
|------|-------------|---------------|------|---|----------|----------|
| 1* | 000374.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000359 |
| 2* | 000374.20 | | | (IQS*)DD(BU,64,8),0C0C0C.0* -SLOT FOR ERROR ADDRESS | | 11000360 |
| 3* | 000375.20 | | | (IQS*)DD(BU,64,8), UNSUCCESSFUL COMPLETION OF MCP IPL READ* | | 11000361 |
| 4* | 000402.20 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000362 |
| 5* | 000402.40 | 000000.30 00 | | CNOP | | 11000363 |
| 6* | 000403.00+ | +00000000 | NULL | X MSG 11 SYN,\$ | | 11000364 |
| 7* | 000403.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000365 |
| 8* | 000403.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000366 |
| 9* | 000403.20 | | | (IQS*)DD(BU,64,8),0C000C.0* -SLOT FOR ERROR ADDRESS | | 11000367 |
| 10* | 000404.20 * | | | (IQS*)DD(BU,64,8), EKJ ON DISK OPERATION * | | 11000368 |
| 11* | 000407.10 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000369 |
| 12* | 000407.40 | 000000.30 00 | | CNOP | | 11000370 |
| 13* | 000410.00+ | +00000000 | NULL | X MSG 12 SYN,\$ | | 11000371 |
| 14* | 000410.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000372 |
| 15* | 000410.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000373 |
| 16* | 000410.20 | | | (IQS*)DD(BU,64,8),0C0C0C.0* -SLOT FOR ERROR ADDRESS | | 11000374 |
| 17* | 000411.20 | | | (IQS*)DD(BU,64,8), UNRJ ON DISK OPERATION * | | 11000375 |
| 18* | 000414.20 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000376 |
| 19* | 000414.40 | 000000.30 00 | | CNOP | | 11000377 |
| 20* | 000415.00+ | +00000000 | NULL | X MSG 13 SYN,\$ | | 11000378 |
| 21* | 000415.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000379 |
| 22* | 000415.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000380 |
| 23* | 000415.20 | | | (IQS*)DD(BU,64,8),0C000C.0* -SLOT FOR ERROR ADDRESS | | 11000381 |
| 24* | 000416.20 * | | | (IQS*)DD(BU,64,8), UNSUCCESSFUL COMPLETION OF LOCATE TO DISK* | | 11000382 |
| 25* | 000423.40 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000383 |
| 26* | | | | CNOP | | 11000384 |
| 27* | 000424.00+ | +00000000 | NULL | X MSG 14 SYN,\$ | | 11000385 |
| 28* | 000424.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000386 |
| 29* | 000424.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000387 |
| 30* | 000424.20 | | | (IQS*)DD(BU,64,8),0C000C.0* -SLOT FOR ERROR ADDRESS | | 11000388 |
| 31* | 000425.20 | | | (IQS*)DD(BU,64,8), EKJ ON CCW ON DISK OPERATION * | | 11000389 |
| 32* | 000431.00 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000390 |
| 33* | 000431.40 | 000000.30 00 | | CNOP | | 11000391 |
| 34* | 000432.00+ | +00000000 | NULL | X MSG 15 SYN,\$ | | 11000392 |
| 35* | 000432.00+ | +00000000 | NULL | X MSG 16 SYN,\$ | | 11000393 |
| 36* | 000432.00+ | +00000000 | NULL | X MS 16A SYN,\$ | | 11000394 |
| 37* | 000432.00+ | +00000000 | NULL | X MS 16B SYN,\$ | | 11000395 |
| 38* | 000432.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000396 |
| 39* | 000432.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000397 |
| 40* | 000432.20 | | | (IQS*)DD(BU,64,8),0C000C.0* -SLOT FOR ERROR ADDRESS | | 11000398 |
| 41* | 000433.20 * | | | (IQS*)DD(BU,64,8), WRITE DISK OPERATION IN ERROR* | | 11000399 |
| 42* | 000437.00 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000400 |
| 43* | 000437.40 | 000000.30 00 | | CNOP | | 11000401 |
| 44* | 000440.00+ | +00000000 | NULL | X MS 16C SYN,\$ | | 11000402 |
| 45* | 000440.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000403 |
| 46* | 000440.10 | | | (IQS*)DD(BU,64,8),0C000C.0* -SLOT FOR ERROR ADDRESS | | 11000404 |
| 47* | 000441.10 | | | (IQS*)DD(BU,64,8), NO IOCD CARD DETECTED* | | 11000405 |
| 48* | 000443.70 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000406 |
| 49* | | | | CNOP | | 11000407 |
| 50* | 000444.00+ | +00000000 | NULL | X MSG 17 SYN,\$ | | 11000408 |
| 51* | 000444.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000409 |
| 52* | 000444.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000410 |
| 53* | 000444.20 | | | (IQS*)DD(BU,64,8),0C000C.0* -SLOT FOR ERROR ADDRESS | | 11000411 |
| 54* | 000445.20 | | | (IQS*)DD(BU,64,8), WRONG EQUIPMENT CODE * | | 11000412 |
| 55* | 000450.00 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000413 |
| 56* | 000450.40 | 000000.30 00 | | CNOP | | 11000414 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000451 |
|------|-------------|---------------|------|--|----------|----------|
| 1* | 000451.00+ | +00000000 | NULL | X MSG 18 SYN,\$ | | 11000415 |
| 2* | 000451.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000416 |
| 3* | 000451.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000417 |
| 4* | 000451.20 * | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000418 |
| 5* | 000452.20 | | | (IQS*)DD(BU,64,8), IO CONFIGURATION DEFINED INCORRECTLY * | | 11000419 |
| 6* | 000457.00 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000420 |
| 7* | 000457.40 | 000000.30 00 | | CNOP | | 11000421 |
| 8* | 000460.00+ | +00000000 | NULL | X MSG 19 SYN,\$ | | 11000422 |
| 9* | 000460.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000423 |
| 10* | 000460.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000424 |
| 11* | 000460.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000425 |
| 12* | 000461.20 | | | (IQS*)DD(BU,64,8), INCORRECT CARD TYPE * | | 11000426 |
| 13* | 000463.70 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000427 |
| 14* | | | | CNOP | | 11000428 |
| 15* | 000464.00+ | +00000000 | NULL | X MSG 20 SYN,\$ | | 11000429 |
| 16* | 000464.00+ | +00000000 | NULL | X MS 21A SYN,\$ | | 11000430 |
| 17* | 000464.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000431 |
| 18* | 000464.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000432 |
| 19* | 000464.20 * | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000433 |
| 20* | 000465.20 | | | (IQS*)DD(BU,64,8), EKJ OF CCW IN IO STATUS REPORT ROUTINE* | | 11000434 |
| 21* | 000472.10 | | 376 | DD(BU,8),(2)1111 1110 -CONTROL CODE * END OF MESSAGE | | 11000435 |
| 22* | 000472.40 | 000000.30 00 | | CNOP | | 11000436 |
| 23* | 000473.00+ | +00000000 | NULL | X MSG 22 SYN,\$ | | 11000437 |
| 24* | 000473.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000438 |
| 25* | 000473.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000439 |
| 26* | 000473.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000440 |
| 27* | 000474.20 | | | (IQS*)DD(BU,64,8), INCORRECT CARD TYPE WITHIN IODS * | | 11000441 |
| 28* | 000500.30 * | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000442 |
| 29* | 000500.40 | 000000.30 00 | | CNOP | | 11000443 |
| 30* | 000501.00+ | +00000000 | NULL | X MSG 21 SYN,\$ | | 11000444 |
| 31* | 000501.00+ | +00000000 | NULL | X MSG 23 SYN,\$ | | 11000445 |
| 32* | 000501.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000446 |
| 33* | 000501.10 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000447 |
| 34* | 000502.10 | | | (IQS*)DD(BU,64,8), IO REQUIREMENTS REJECTED * | | 11000448 |
| 35* | 000505.30 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000449 |
| 36* | 000505.40 | 000000.30 00 | | CNOP | | 11000450 |
| 37* | 000506.00+ | +00000000 | NULL | X MSG 24 SYN,\$ | | 11000451 |
| 38* | 000506.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000452 |
| 39* | 000506.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000453 |
| 40* | 000506.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000454 |
| 41* | 000507.20 | | | (IQS*)DD(BU,64,8), IO ASSIGNMENTS CAN NOT BE MADE * | | 11000455 |
| 42* | 000513.20 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000456 |
| 43* | 000513.30+ | +00000000 | NULL | X MSG 25 SYN,\$ | | 11000457 |
| 44* | 000513.40 * | 000000.30 00 | | CNOP | | 11000458 |
| 45* | 000514.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000459 |
| 46* | 000514.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000460 |
| 47* | 000514.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000461 |
| 48* | 000515.20 | | | (IQS*)DD(BU,64,8), IO TABLES CAN NOT BE FORMED * | | 11000462 |
| 49* | 000520.70 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000463 |
| 50* | | | | CNOP | | 11000464 |
| 51* | 000521.00+ | +00000000 | NULL | X MSG 26 SYN,\$ | | 11000465 |
| 52* | 000521.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | | 11000466 |
| 53* | 000521.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 11000467 |
| 54* | 000521.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FOR ERROR ADDRESS | | 11000468 |
| 55* | 000522.20 | | | (IQS*)DD(BU,64,8), PROSA ARC COUNT INCORRECT * | | 11000469 |
| 56* | 000525.50 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | | 11000470 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|---|----------|
| 1* | | | | CNOP | 11000471 |
| 2* | 000526.00+ | +00000000 | NULL | X MSG 27 SYN,\$ | 11000472 |
| 3* | 000526.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000473 |
| 4* | 000526.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000474 |
| 5* | 000526.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FCR ERROR ADDRESS | 11000475 |
| 6* | 000527.20 * | | | (IQS*)CC(BU,64,8), MCP PARAMETER INPUT MISSING * | 11000476 |
| 7* | 000532.70 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000477 |
| 8* | | | | CNOP | 11000478 |
| 9* | 000533.00+ | +00000000 | NULL | X MSG 28 SYN,\$ | 11000479 |
| 10* | 000533.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000480 |
| 11* | 000533.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000481 |
| 12* | 000533.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FCR ERROR ADDRESS | 11000482 |
| 13* | 000534.20 | | | (IQS*)DD(BU,64,8), IMPOSSIBLE OPERATING MODE* | 11000483 |
| 14* | 000537.40 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000484 |
| 15* | | | | CNOP | 11000485 |
| 16* | 000540.00+ | +00000000 | NULL | X MSG 29 SYN,\$ | 11000486 |
| 17* | 000540.00 | | 375 | DD(BU,8),(2)1111 1101 -CONTROL CODE * CARRIAGE RETURN | 11000487 |
| 18* | 000540.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 11000488 |
| 19* | 000540.20 | | | (IQS*)DD(BU,64,8),000000.0* -SLOT FCR ERROR ADDRESS | 11000489 |
| 20* | 000541.20 * | | | (IQS*)DD(BU,64,8), SPOOL INPUT ASSIGNMENTS NOT MADE * | 11000490 |
| 21* | 000545.40 | | 376 | DD(BU,8),(2) 1111 1110 -CONTROL CODE *END OF MESSAGE | 11000491 |
| 22* | | | | - ***** | 11000492 |
| 23* | | | | - BOOTSTRAP DEFINITIONS | 11000493 |
| 24* | | | | - ***** | 11000494 |
| 25* | | | | - | 11000495 |
| 26* | 000546.00 | 000000.00+ 000 000000 000000 | | X S ROOF XW,0 -TEMP STORE FOR SIZE OF 7030 | 11000496 |
| 27* | 000561.00+ | -00000000 | BU,40 ,10 | X IPL K SYN, 1.0 + X BS END - X IPLBS - SIZE OF BOOTSTRAP | 11000497 |
| 28* | 000000.00+ | +00000006 | BU,05 ,10 | X EE EGP SYN(BU,5),(2)00110 - EOF STATUS BITS | 11000498 |
| 29* | | | | - | 11000499 |
| 30* | | | | - ***** | 11000500 |
| 31* | | | | - IPL BOOTSTRAP PARAMETERS | 11000501 |
| 32* | | | | - ***** | 11000502 |
| 33* | | | | - | 11000503 |
| 34* | | | | CNOP | 11000504 |
| 35* | 000547.00 | 000000.00+ 000 000035 000550 | | XW SR XW,C.0,29,XW IND -XW FOR CLEARING LR AND TW | 11000505 |
| 36* | 000550.00 | 000622.00+ 000 000024 000000 | | XW IND XW,XIPLK+33.0,20.0 -XW FOR CLEARING NCN MASKABLE INDIC AND | 11000506 |
| 37* | 000551.00 | 000000.00+ | | X ERR AD VF,0 -LOCATION OF ERROR +1.0 | 11000507 |
| 38* | 011406.00+ | +00000000 | NULL | X BUFER SYN,X IN END+ 2000.0 - SLOTS LEFT FOR IOCD + ICDS | 11000508 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------------|--|----------|
| 1* | | | - ***** | | 11000510 |
| 2* | | | - PROSA CWS | | 11000511 |
| 3* | | | - ***** | | 11000512 |
| 4* | 000552.00 | 011406.00+ 110 001001 000553 | X PROSA | CW(CDSC),0 +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000513 |
| 5* | 000553.00 | 012406.00+ 110 001001 000554 | | CW(CDSC),512. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000514 |
| 6* | 000554.00 | 013406.00+ 110 001001 000555 | | CW(CDSC),1024. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000515 |
| 7* | 000555.00 | 014406.00+ 110 001001 000556 | | CW(CDSC),1536. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000516 |
| 8* | 000556.00 * | 015406.00+ 110 001001 000557 | | CW(CDSC),2048. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000517 |
| 9* | 000557.00 | 016406.00+ 110 001001 000560 | | CW(CDSC),2560. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000518 |
| 10* | 000560.00 | 017406.00+ 110 001001 000561 | | CW(CDSC),3072. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000519 |
| 11* | 000561.00 | 020406.00+ 110 001001 000562 | | CW(CDSC),3584. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000520 |
| 12* | 000562.00 | 021406.00+ 110 001001 000563 | | CW(CDSC),4096. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000521 |
| 13* | 000563.00 | 022406.00+ 110 001001 000564 | | CW(CDSC),4608. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000522 |
| 14* | 000564.00 | 023406.00+ 110 001001 000565 | | CW(CDSC),5120. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000523 |
| 15* | 000565.00 | 024406.00+ 110 001001 000566 | | CW(CDSC),5632. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000524 |
| 16* | 000566.00 | 025406.00+ 110 001001 000567 | | CW(CDSC),6144. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000525 |
| 17* | 000567.00 | 026406.00+ 110 001001 000570 | | CW(CDSC),6656. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000526 |
| 18* | 000570.00 | 027406.00+ 110 001001 000571 | | CW(CDSC),7168. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000527 |
| 19* | 000571.00 * | 030406.00+ 110 001001 000572 | | CW(CDSC),7680. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000528 |
| 20* | 000572.00 | 031406.00+ 110 001001 000573 | | CW(CDSC),8192. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000529 |
| 21* | 000573.00 | 032406.00+ 110 001001 000574 | | CW(CDSC),8704. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000530 |
| 22* | 000574.00 | 033406.00+ 110 001001 000575 | | CW(CDSC),9216. +X BUFER,513,\$+1.0 -FETCH ONE PROSA REXORD | 11000531 |
| 23* | 000575.00 | 034406.00+ 110 001001 000576 | | CW(CDSC),9728. +X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000532 |
| 24* | 000576.00 | 035406.00+ 110 001001 000577 | | CW(CDSC),10240.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000533 |
| 25* | 000577.00 | 036406.00+ 110 001001 000600 | | CW(CDSC),10752.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000534 |
| 26* | 000600.00 | 037406.00+ 110 001001 000601 | | CW(CDSC),11264.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000535 |
| 27* | 000601.00 | 040406.00+ 110 001001 000602 | | CW(CDSC),11776.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000536 |
| 28* | 000602.00 | 041406.00+ 110 001001 000603 | | CW(CDSC),12288.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000537 |
| 29* | 000603.00 | 042406.00+ 110 001001 000604 | | CW(CDSC),12800.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000538 |
| 30* | 000604.00 | 043406.00+ 110 001001 000605 | | CW(CDSC),13312.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000539 |
| 31* | 000605.00 * | 044406.00+ 110 001001 000606 | | CW(CDSC),13824.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000540 |
| 32* | 000606.00 | 045406.00+ 110 001001 000607 | | CW(CDSC),14336.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000541 |
| 33* | 000607.00 | 046406.00+ 110 001001 000610 | | CW(CDSC),14848.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000542 |
| 34* | 000610.00 | 047406.00+ 110 001001 000611 | | CW(CDSC),15360.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000543 |
| 35* | 000611.00 | 050406.00+ 110 001001 000612 | | CW(CDSC),15872.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000544 |
| 36* | 000612.00 | 051406.00+ 110 001001 000613 | | CW(CDSC),16384.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000545 |
| 37* | 000613.00 | 052406.00+ 110 001001 000614 | | CW(CDSC),16896.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000546 |
| 38* | 000614.00 | 053406.00+ 110 001001 000615 | | CW(CDSC),17408.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000547 |
| 39* | 000615.00 | 054406.00+ 110 001001 000616 | | CW(CDSC),17920.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000548 |
| 40* | 000616.00 | 055406.00+ 110 001001 000617 | | CW(CDSC),18432.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000549 |
| 41* | 000617.00 | 056406.00+ 110 001001 000620 | | CW(CDSC),18944.+X BUFER,513,\$+1.0 -FETCH ONE PROSA RECORD | 11000550 |
| 42* | 000620.00 * | 057406.00+ 000 001000 000621 | | CW(CR),19456.+X BUFER,512,\$+1.0 -FETCH ONE PROSA RECORD AND STO | 11000551 |
| 43* | 000621.00+ | +00000000 NULL | X BS END SYN,\$ | - END OF THE MCP IPL BS ROUTINE | 11000552 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|----------|--|----------|
| 1* | | | | PUNFUL | 12000001 |
| 2* | 000621.00 | | | (CC*)DD(BU,,12),B HED,REP,11C11IPL,LOAD,, * | 12000002 |
| 3* | 000631.34 * | | | (CC*)DD(BU,,12), 11C11IPL* | 12000003 |
| 4* | | | | PUNCRG | 12000004 |
| 5* | | | | PUNID,11C11IPL | 12000005 |
| 6* | | | | RESEQ | 12000006 |
| 7* | 000621.00 | | | SLC,X BS END | 12000007 |
| 8* | | | | ***** | 12000008 |
| 9* | | | | -MCP INITIALIZATION | 12000009 |
| 10* | | | | - | 12000010 |
| 11* | | | | -MOVE COMMUNICATION REGION TO IPL AREA AND POSITION DISK | 12000011 |
| 12* | | | | ***** | 12000012 |
| 13* | | | | - | 12000013 |
| 14* | | | | CNOP | 12000014 |
| 15** | 000621.00 | 004645.00 00 | X IN | BE,X IN END-X IN -SIZE OF IPL FOR UPDATE PROGRAM | 12000015 |
| 16* | 000621.40 | 000000.00 00 | X UPDAT | BE,0 -NUMBER OF PROSA ARCS | 12000016 |
| 17* | 000622.00 | 000150.23 08 | X10 | LVS,\$9,\$12,\$11,\$14 -COMPUTE NUMBER OF WORDS | 12000017 |
| 18* | | | | -PRECEDING MCP | 12000018 |
| 19* | 000622.40 | 011406.21 89 | | LVE,\$8,X BUFER(\$9) - GET (MCP) | 12000019 |
| 20* | 000623.00 | 011406.40 59 | X10 1 | LC,\$0, X BUFER +.32(\$9) -GET SIZE OF COMM REGION | 12000020 |
| 21* | 000623.40 | 011406.00 89 002150.00 20 | | T,\$0,X BUFER(\$9),S MCP -MOVE COMM REGION | 12000021 |
| 22* | 000624.40 | 000546.00 70 | | LR,\$0,X S ROOF | 12000022 |
| 23* | 000625.00 | 002162.01 70 | | SR,\$0,S ROOF -PLACE 7030 SIZE IN COMM REGION | 12000023 |
| 24* | 000625.40 | 011406.00 89 000000.24 28 | | T,\$10,X BUFER(\$9),0.0(\$8) -PLACE MCP IN STORAGE | 12000024 |
| 25* | 000626.40 | 000000.16 30 | | LV,7,0.0 -INITIALIZE FIRST TIME THROUGH | 12000025 |
| 26* | 000627.00 | 000000.00 80 000000.17 00 | X10 4 | LOC(SEOP),0.0,0.0 -POSITION TO ARC ZERO | 12000026 |
| 27* | | | | -DISK IO TEST | 12000027 |
| 28* | 000630.00 | 000551.00 80 | X10 5 | SIC,X ERR AD | 12000028 |
| 29* | 000630.40 | 000133.03 46 | | BEKJZ,X ERROR -IF EXCHANGE ERROR | 12000028 |
| 30* | 000631.00 | 000551.00 80 | X ERR 12 | SIC,X ERR AD | 12000029 |
| 31* | 000631.40 | 000133.03 06 | | BUNRJZ,X ERROR -IF DISK NOT READY | 12000029 |
| 32* | 000632.00 | 000551.00 80 | X ERR 13 | SIC,X ERR AD | 12000030 |
| 33* | 000632.40 | 000133.04 46 | | BCBJZ,X ERROR -IF DISK BUSY | 12000030 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|----------------------|---|----------|
| 1* | | | | -***** | 12000032 |
| 2* | | | | -WRITE PROSA ON DISK AND FETCH FROM MCPS TAPE | 12000033 |
| 3* | | | | -***** | 12000034 |
| 4* | | | | - | 12000035 |
| 5* | 000633.00 | 000041.14 30 | X11 | LV,\$6,X IPL BS -GET FWA OF LAST READ(BIASED BY UR BIT) | 12000036 |
| 6* | 000633.40 | 011406.15 0D | | V-I,\$6,X BUFER -COMPUTE NUMBER OF PROSA WORUS | 12000037 |
| 7* | | | | -TC BE WRITTEN | 12000038 |
| 8* | 000634.00 * | 000026.14 50 | | LC,\$6,\$6 | 12000039 |
| 9* | 000634.40 | 000653.30 42 | | BXCZ,X 11 3 | 12000040 |
| 10* | 000635.00 | 011406.15 01 | | LVI,\$6,X BUFER | 12000041 |
| 11* | 000635.40 | 001746.15 10 | | SX,\$6,X PRO WR -ASSEMBLED CW | 12000042 |
| 12* | 000636.00 | 000000.16 50 | | LC,\$7,C.0 -SET UP FOR TEST OF LOCATE | 12000043 |
| 13* | 000636.40 | 000000.00 80 | 001746.13 00 X11 1 | W(SEOP),C.0,X PRO WR -WRITE PROSA | 12000044 |
| 14* | 000637.40 | 000551.00 80 | X ERR 14 | SIC,X ERR AD | 12000045 |
| 15* | 000640.00 | 000133.03 46 | | BEKJZ,X ERROR -IF EKJ | 12000045 |
| 16* | 000640.40 | 000551.00 80 | X ERR 15 | SIC,X ERR AD | 12000046 |
| 17* | 000641.00 | 000133.03 06 | | BUNRJZ,X ERROR -IF LNRJ | 12000046 |
| 18* | 000641.40 | 000551.00 80 | X ERR 16 | SIC,X ERR AD | 12000047 |
| 19* | 000642.00 | 000133.16 4A | | CBZ,\$7,X ERROR -IF LOCATE NOT SUCCESSFUL | 12000047 |
| 20* | 000642.40 | 000636.44 46 | | BCBJZ,X11 1 -IF LOCATE DONE | 12000048 |
| 21* | 000643.00 | 000000.16 50 | | LC,\$7,C.0 -DONE * SET UP FOR TEST OF WRITE | 12000049 |
| 22* | 000643.40 | 000000.00 80 | 000042.21 00 X11 CCW | CCW,0.0,X IPL BS+1.0 -ATTEMPT TO GET CW | 12000050 |
| 23* | 000644.40 | 000551.00 80 | X ER 16A | SIC,X ERR AD | 12000051 |
| 24* | 000645.00 | 000133.03 46 | | BEKJZ,X ERROR -IF EKJ | 12000051 |
| 25* | 000645.40 | 000551.00 80 | X ER 16B | SIC,X ERR AD | 12000052 |
| 26* | 000646.00 | 000133.16 4A | | CBZ,\$7,X ERROR -IF WRITE NOT SUCCESSFUL | 12000052 |
| 27* | 000646.40 | 000643.44 46 | | BCBJZ,X11 CCW -IF WRITE DONE | 12000053 |
| 28* | 000647.00 | 000011.15 10 | X11 2 | SX,\$6,\$R -ENTER NUMBER OF ARCS JUST WRITTEN | 12000054 |
| 29* | 000647.40 * | 002157.11 80 | 011015.60 90 | M+(BU,9),S DK MCP+9,18+9 -ACCUMULATE NUMBER OF ARCS | 12000055 |
| 30* | 000650.40 | 000020.31 80 | 000653.34 02 | BB,\$0+.25,X11 3 -PROSA REFRESHED YES* OUT | 12000056 |
| 31* | 000651.40 | 000114.40 80 | | SIC,X9 A 3A | 12000057 |
| 32* | 000652.00 | 000104.10 00 | | B,X9 A -TO FETCH PROSA | 12000057 |
| 33* | 000652.40 | 000633.10 00 | | B,X11 | 12000058 |
| 34* | | | | -REWIND AND UNLOAD MCPS TAPE WHEN DONE | 12000059 |
| 35* | 000653.00 | 000000.00 8F | 000137.15 00 X11 3 | CTL(SEOP),0.0(\$15),(8)137 -REWIND AND UNLOAD MCPS TAPE | 12000060 |
| 36* | 000654.00 | 000066.40 80 | | SIC,X7 3 | 12000061 |
| 37* | 000654.40 | 000057.50 00 | | B,X7 1 -IO TEST | 12000061 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------------|---|----------|
| 1* | | | | | -***** | 12000063 |
| 2* | | | | | -PROCESS IOCD CARDS SETTING UP CST AND UST | 12000064 |
| 3* | | | | | -***** | 12000065 |
| 4* | | | | | - | 12000066 |
| 5* | 000655.00 | 001750.C3 | 02 | X13 | LCI,\$1,1000.0 -SIZE OF WORKING AREA TO BE USED | 12000067 |
| 6* | 000655.40 | 011406.22 | 00 | | Z,X BUFER -CLEAR FIRST WORD OF BUFFER | 12000068 |
| 7* | 000656.00 | 011406.CC | 80 | 011407.02 20 | T,\$1,X BUFER,X BUFER+1.0 -CLEAR 1000 WORDS | 12000069 |
| 8* | 000657.00 | 005466.11 | 01 | | LVI,\$4,X IN END -END OF ASSEMBLED AND MOVE MCP IPL | 12000070 |
| 9* | | | | | -NOTE THAT THIS REGION IS EQUAL TO OR | 12000071 |
| 10* | | | | | -LESS THAN FOURTEEN WORDS OF THE | 12000072 |
| 11* | | | | | -REGION CONTAINING THE IOCD CARDS | 12000073 |
| 12* | 000657.40 | 000016.11 | 02 | | LCI,\$4,14 -SET UP TO TEST 14 WORDS FOR FIRST IOCD | 12000074 |
| 13* | 000660.00 | 000001.54 | 84 | 000662.74 02 | X13 A A BB,1.44(\$4),X13 A A1 -IF ZONE BIT OF IOCD | 12000075 |
| 14* | 000661.00 | 000660.11 | 48 | | CB+,\$4,X13 A A -IF SEARCH FRUITLESS | 12000076 |
| 15* | 000661.40 | 000551.00 | 80 | X ER 16C | SIC,X ERR AD | 12000077 |
| 16* | 000662.00 | 000133.10 | 00 | | B,X ERROR -NO IOCD DETECTED | 12000077 |
| 17* | 000662.40 | 000024.32 | 30 | X13 A A1 | LV,\$13,\$4 | 12000078 |
| 18* | 000663.00 * | 011406.13 | 01 | | LVI,\$5,X BUFER | 12000079 |
| 19* | 000663.40 | 000025.36 | 30 | | LV,\$15,\$5 | 12000080 |
| 20* | 000664.00 | 000100.37 | 05 | | V+I,\$15,64.0 -BASE OF AREA CONTAINING UST | 12000081 |
| 21* | 000664.40 | 000037.34 | 30 | | LV,\$14,\$15 -SAVE BASE OF UST AREA | 12000082 |
| 22* | 000665.00 | 000077.C3 | 02 | | LCI,\$1,63.0 -INITIALIZE TO PRESET 64 WORDS | 12000083 |
| 23* | 000665.40 | 000000.31 | 85 | 001000.36 F0 | X13 A CM1111(BU,1),.25(\$5) -CHANNEL NOT AVAILABLE BIT TO ON | 12000084 |
| 24* | 000666.40 | 000000.35 | 85 | 001000.36 F0 | CM1111(BU,1),.29(\$5) -NOT ASSIGNED BIT ON IN CST | 12000085 |
| 25* | 000667.40 | 000000.00 | 85 | 000001.02 25 | T,\$1,C.0(\$5),1.0(\$5) -ALL CST ENTRIES TO NOT AVAILABLE | 12000086 |
| 26* | 000670.40 | 000001.54 | 84 | 110000.17 70 | X13 1 CT0111(V+I)(BU,8), 1.44(\$4) - ADVANCE TO NEX FIELD * CARD TYPE | 12000087 |
| 27* | | | | | -TO 1.44 | 12000088 |
| 28* | 000671.40 | 000000.62 | 84 | 160000.20 50 | X13 1A L(V+I)(BU,48),.48+.2(\$4) -ENTER COLUMN CONTAINING IOCD | 12000089 |
| 29* | | | | | -TC 2.30 | 12000090 |
| 30* | 000672.40 | 001747.60 | 80 | 060000.23 10 | KF(BU,48),X IOCD | 12000091 |
| 31* | 000673.40 | 000756.76 | C0 | | BZAE,X19 -NOT AN IOCD CARD | 12000092 |
| 32* | 000674.00 | 000000.14 | 84 | 107000.07 70 | X13 2 CT0011(V+I)(BU,7),.12(\$4) -TEST TENS POSITION OF CHANNEL | 12000093 |
| 33* | | | | | -TO 2.42 | 12000094 |
| 34* | 000675.00 | 000007.24 | 80 | 010427.24 30 | LCV(DU,8,4),\$LZC+.3,46 -CONVERT TO OCTAL NUMBER | 12000095 |
| 35* | 000676.00 * | 000000.26 | 84 | 120000.07 70 | X13 2 AA CT0C11(V+I)(BU,16),.22(\$4) -TEST UNITS POSITION * TO 2.52 | 12000096 |
| 36* | 000677.00 | 000007.24 | 80 | 004027.20 10 | +(BU,4),\$LZC+.3,46 -FORM CHANNEL NUMBER | 12000097 |
| 37* | 000700.00 | 000011.06 | 30 | | LV,\$3,\$R -CURRENT CHANNEL NUMBER FROM IOCD | 12000098 |
| 38* | 000700.40 | 000023.07 | 90 | | KC,\$3,\$3 | 12000099 |
| 39* | 000701.00 | 000702.32 | 40 | | BZXL,X132A -IF HIGEST CHANNEL YET | 12000100 |
| 40* | | | | | -ENCOUNTERED | 12000101 |
| 41* | 000701.40 | 000023.06 | 50 | | LC,\$3,\$3 -SAVE NEW HIGEST CHANNEL | 12000102 |
| 42* | 000702.00 | 000025.C6 | 80 | X13 2A | V+,\$3,\$5 -ENTRY IN CST | 12000103 |
| 43* | 000702.40 | 000000.14 | 84 | 000704.74 02 | X13 3 BB,.12(\$4),X13 4 -IS CHANNEL AVAILABLE | 12000104 |
| 44* | 000703.40 | 000000.31 | 83 | 001000.00 F0 | CM0000(BU,1),.25(\$3) -YES * CHANNEL AVAILABLE FLAG TO | 12000105 |
| 45* | | | | | -ON | 12000106 |
| 46* | 000704.40 | 000000.30 | 84 | 114000.20 50 | X13 4 L(V+I)(BU,12),.24(\$4) -SECOND LETTER OF HOLLERITH EQUIPMENT | 12000107 |
| 47* | 000705.40 | 001752.C3 | 01 | | LVI,\$1,X EQP T -BASE OF EQUIPMENT TABLE | 12000108 |
| 48* | 000706.00 | 000012.03 | C2 | | LCI,\$1,10.0 -SIZE OF EQUIPMENT TABLE +1 | 12000109 |
| 49* | 000706.40 | 000551.00 | 80 | X13 5 | SIC,X ERR AD | 12000110 |
| 50* | 000707.00 | 000133.02 | 4A | | CBZ,\$1,X ERROR -WRONG EQUIPMENT CODE | 12000110 |
| 51* | 000707.40 | 000000.35 | 81 | 130000.23 10 | KF(V+I)(BU,24),.29(\$1) -MATCH * ADVANCE TO NEXT SLOT | 12000111 |
| 52* | 000710.40 | 000706.76 | C0 | | BZAE,X 13 5 | 12000112 |
| 53* | 000711.00 | 777777.73 | 81 | 004000.20 50 | X13 6 L(BU,4),-.5(\$1) -ENTER EQUIPMENT CODE FROM TABLE | 12000113 |
| 54* | 000712.00 * | 000000.64 | 83 | 004000.20 D0 | ST(BU,4),.52(\$3) -INSERT IN CST ENTRY | 12000114 |
| 55* | | | | | - | 12000115 |
| 56* | | | | | -***** | 12000116 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|-----------------|---------|---|----------|
| 1* | | | | | | 12000117 |
| 2* | 000713.00 | 777777.77 | 81 000740.74 00 | | BZB,-.1(\$1),X18 -TAPE EQUIPMENT TYPE | 12000118 |
| 3* | | | | | -ENTRY | 12000119 |
| 4* | 000714.00 | 000010.37 | 02 | X14 1 | LCI,\$15,8.0 -UST ENTRY COUNTER | 12000120 |
| 5* | 000714.40 | 000000.37 | 33 | | SV,\$15,0.0(\$3) -INSERT UNIT STATUS TABLE ADDRESS | 12000121 |
| 6* | | | | | -IN CST | 12000122 |
| 7* | 000715.00 | 000000.35 | 83 001000.00 FO | | CM0000(BU,1),.29(\$3) -TURN OFF MEANINGLESS ASSIGN BIT IN | 12000123 |
| 8* | | | | | -CST | 12000124 |
| 9* | 000716.00 | 000000.33 | 83 001000.36 FO | | CM1111(BU,1),.27(\$3) -YES * MULTI BIT TO ON IN CST | 12000125 |
| 10* | | | | | | 12000126 |
| 11* | | | | | - ***** | 12000127 |
| 12* | | | | | | 12000128 |
| 13* | 000717.00 | 000000.14 | 84 114000.07 70 | X15 | CT0C11(V+I)(BU,12),.12(\$4) -TEST UNIT AVAILABLE FIELD | 12000129 |
| 14* | 000720.00 | 000731.74 | C2 | | BRZ,X 16 1 -IF NULL THEN DONE WITH | 12000130 |
| 15* | | | | | -MULTI-UNIT IOCD | 12000131 |
| 16* | 000720.40 | 777777.66 | 84 000724.74 02 | | BB,C.0-.10(\$4),X152 -UNIT AVAILABLE | 12000132 |
| 17* | 000721.40 | 777777.64 | 84 000723.74 02 | | BB,C.0-.12(\$4),X151 -IF UNIT NOT AVAILABLE SET IT NOT | 12000133 |
| 18* | | | | | -AVAILABLE BIT | 12000134 |
| 19* | 000722.40 | 000551.00 | 80 | XERR 18 | SIC,XERRAD | 12000135 |
| 20* | 000723.00 | 000133.10 | 00 | | B,X ERROR -IOCD PUNCHED INCORRECTLY | 12000135 |
| 21* | 000723.40 | 000000.34 | 8F 001000.36 FO | X15 1 | CM1111(BU,1),.28(\$15) -UNIT AVAILABLE BIT TO ON | 12000136 |
| 22* | 000724.40 | 000000.35 | 8F 001000.36 FO | X15 2 | CM1111(BU,1),.29(\$15) -UNIT NOT ASSIGNED BIT TO ON | 12000137 |
| 23* | 000725.40 * | 000000.33 | 8F 001000.36 FO | | CM1111(BU,1),.27(\$15) -TAPE DISPOSITION BIT TO ON | 12000138 |
| 24* | 000726.40 | 000000.47 | 8F 001000.36 FO | | CM1111(BU,1),.39(\$15) -SELECT STATUS ON | 12000139 |
| 25* | | | | | | 12000140 |
| 26* | | | | | - ***** | 12000141 |
| 27* | | | | | | 12000142 |
| 28* | 000727.40 | 000717.37 | 48 | X16 | CB+,\$15,X15 -IF PROCESSED EIGHT UNITS | 12000143 |
| 29* | | | | | -*ADVANCE UST ENTRY | 12000144 |
| 30* | 000730.00 | 000000.73 | 83 001000.36 FO | | CM1111(BU,1),.59(\$3) -UNIT COUNT IN CST TO 8 | 12000145 |
| 31* | 000731.00 | 000737.10 | 00 | | B,X17 1 -TO SET UP FOR NEXT CARD | 12000146 |
| 32* | 000731.40 | 000010.37 | 0A | X16 1 | KCI,\$15,8.0 | 12000147 |
| 33* | 000732.00 | 000736.32 | C2 | | BXE,X 17 -NO UNITS AT ALL ON MULTI CHANNEL | 12000148 |
| 34* | 000732.40 | 000010.00 | 80 422000.06 70 | | LFI(BU,18),8.0 | 12000149 |
| 35* | 000733.40 | 000037.34 | 80 022000.30 10 | | -(BU,18),\$15+.28 -COMPUTE THE NUMBER OF UNITS | 12000150 |
| 36* | | | | | -IN UST | 12000151 |
| 37* | 000734.40 | 000000.73 | 83 004000.20 DO | | ST(BU,4),.59(\$3) -INSERT NUMBER OF UNITS | 12000152 |
| 38* | 000735.40 | 000737.10 | 00 | | B,X17 1 -TO SET UP FOR NEXT CARD | 12000153 |
| 39* | | | | | | 12000154 |
| 40* | | | | | - ***** | 12000155 |
| 41* | | | | | | 12000156 |
| 42* | 000736.00 | 000000.00 | 83 021000.00 FO | X 17 | CM0000(BU,17),0.0(\$3) -CLEAR CST ADDRESS IN SCT ENTRY | 12000157 |
| 43* | 000737.00 | 000017.33 | 05 | X 17 1 | V+I,\$13,15.0 | 12000158 |
| 44* | 000737.40 | 000035.10 | 30 | | LV,\$4,\$13 -ENTER ADDRESS OF NEXT CARD | 12000159 |
| 45* | 000740.00 | 000670.50 | 00 | | B,X13 1 -PROCESS NEXT CARD | 12000160 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|--|----------|
| 1* | | | | - ***** | 12000162 |
| 2* | 000740.40 * | 777777.43 81 | 030000.07 70 | X18 CT0C11(BU,24),-.29(\$1) | 12000163 |
| 3* | 000741.40 | 000737.34 C2 | | BRZ,X17 1 | 12000164 |
| 4* | 000742.00 | 000006.C3 CA | | X18 1 KCI,\$1,6.0 | 12000165 |
| 5* | | | | -LOGICAL MULTI UNIT * DISK | 12000166 |
| 6* | 000742.40 | 000753.33 40 | | -OR CONSOL | 12000167 |
| 7* | 000743.00 | 000002.37 02 | | BZXF,X 18 4 | 12000168 |
| 8* | 000743.40 | 000000.37 33 | | LCI,\$15,2.0 | 12000169 |
| 9* | 000744.00 | 000000.75 83 | 001000.36 FO | SV,\$15,C.0(\$3) | 12000170 |
| 10* | 000745.00 | 000000.33 83 | 001000.36 FO | CM1111(BU,1),.61(\$3) | 12000171 |
| 11* | 000746.00 | 000000.35 83 | 001000.00 FO | -SET UNIT COUNT TO TWO | 12000172 |
| 12* | 000747.00 | 000000.31 83 | 000751.34 00 | CM1111(BU,1),.27(\$3) | 12000173 |
| 13* | 000750.00 | 000000.34 8F | 001000.36 FO | -MULTI BIT ON IN CST | 12000174 |
| 14* | 000751.00 | 000000.35 8F | 001000.36 FO | CM0C00(BU,1),.29(\$3) | 12000175 |
| 15* | | | | -MEANINGLESS ASG BIT OFF | 12000176 |
| 16* | 000752.00 | 000747.37 48 | | X18 2 BZB,.25(\$3),X18 3 | 12000177 |
| 17* | 000752.40 | 000737.10 00 | | -IF CHANNEL AVAILABLE | 12000178 |
| 18* | 000753.00 | 000000.31 83 | 000755.34 00 | X18 4 BZB,.25(\$3),X18 5 | 12000179 |
| 19* | 000754.00 * | 000000.34 83 | 001000.36 FO | CM1111(BU,1),.28(\$15) | 12000180 |
| 20* | | | | -NO * THEN UNIT NOT AVAILABLE | 12000181 |
| 21* | 000755.00 | 000000.35 83 | 001000.36 FO | X18 3 CM1111(BU,1),.29(\$15) | 12000182 |
| 22* | 000756.00 | 000737.10 00 | | -YES * UNIT STATUS TO NOT | 12000183 |
| 23* | 000756.40 | 001750.40 80 | 044006.23 10 | X19 KF(BU,36),X10D,12 | 12000184 |
| 24* | 000757.40 | 000551.00 80 | | X ERR 19 SIC,X ERR AD | 12000185 |
| 25* | 000760.00 | 000133.36 C4 | | BZAEZ,X ERROR -NOT AN IOU CARD EITHER | 12000186 |
| 26* | | | | -ICD* | 12000187 |
| 27* | 000760.40 | 002155.37 30 | | SV,\$15,S LR BU | 12000188 |
| 28* | | | | -SAVE BASE OF IO ASSIGNMENT TABLES FOR | 12000189 |
| 29* | 000761.00 | 000037.34 50 | | X 191 LC,\$14,\$15 - ENTER CURRENT UST TESTING ADDRESS IN CF | 12000190 |
| 30* | 000761.40 | 000762.35 D0 | | SVA,\$14,\$+.32 | 12000191 |
| 31* | 000762.00 | 000000.35 08 | | C-I,\$14,0.0 | 12000192 |
| 32* | 000762.40 | 000035.21 30 | | SV,\$8,\$13 | 12000193 |
| 33* | 000763.00 | 000034.35 50 | | SC,\$14,\$12 | 12000194 |
| 34* | 000763.40 | 000764.31 D0 | | SVA,\$12,\$+.32 | 12000195 |
| 35* | 000764.00 | 000000.33 0D | | V-I,\$13,0.0 | 12000196 |
| 36* | 000764.40 | 000000.00 8E | 000000.34 2D | X19 2 T,\$14,C.0(\$14),0.0(\$13) | 12000197 |
| 37* | 000765.40 | 000033.07 50 | | SC,\$3,\$11 | 12000198 |
| 38* | 000766.00 | 000025.26 80 | | V+,\$11,\$5 | 12000199 |
| 39* | 000766.40 | 000001.33 0D | | V-I,\$13,1.0 | 12000200 |
| 40* | 000767.00 | 000001.07 00 | | C+I,\$3,1.0 | 12000201 |
| 41* | 000767.40 * | 000000.00 8B | 000000.07 2D | X20 TB,\$3,C.0(\$11),0.0(\$13) | 12000202 |
| 42* | 000770.40 | 000023.24 10 | | LX,\$10,\$3 | 12000203 |
| 43* | 000771.00 | 002150.24 30 | | LV,\$10,SMCP | 12000204 |
| 44* | 000771.40 | 001726.25 D0 | | SVA,\$10,X37 8 | 12000205 |
| 45* | 000772.00 | 000035.24 30 | | LV,\$10,\$13 | 12000206 |
| 46* | 000772.40 | 000000.33 8A | 000776.74 00 | X20 1 BZB,.27(\$10),X20 2 | 12000207 |
| 47* | 000773.40 | 000000.22 3A | | LV,\$9,C.0(\$10) | 12000208 |
| 48* | 000774.00 | 000774.75 D0 | | SVA,\$14,\$+.32 | 12000209 |
| 49* | 000774.40 | 000000.23 0D | | V-I,\$9,0.0 | 12000210 |
| 50* | 000775.00 | 000035.22 80 | | V+,\$9,\$13 | 12000211 |
| 51* | 000775.40 | 000001.23 05 | | V+I,\$9,1.0 | 12000212 |
| 52* | 000776.00 | 000000.23 3A | | SV,\$9,C.0(\$10) | 12000213 |
| 53* | 000776.40 | 000772.65 C8 | | X20 2 CB-,\$10,X20 1 | |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|----------|---|----------|
| 1* | | | | -***** | 12000215 |
| 2* | | | | -ENTRIES IN COMMUNICATION REGION | 12000216 |
| 3* | | | | -*S X CHAN*S MCP*S Y CO CH* | 12000217 |
| 4* | | | | -***** | 12000218 |
| 5* | | | | - | 12000219 |
| 6* | 00C777.CC | 000011.07 50 | X20A | SC,\$3,\$R -RESTORE SIZE OF CST | 12000220 |
| 7* | 000777.40 | 000011.24 50 | | LC,\$10,\$R | 12000221 |
| 8* | 001000.CC | 000001.25 05 | | V+I,\$10,1.0 | 12000222 |
| 9* | 001000.40 | 002152.25 10 | | SX,\$10,S X CHAN -SAVE BASE OF CST AND SIZE IN COMM REGIN | 12000223 |
| 10* | 001001.CC | 000037.25 08 | | C-I,\$10,32.0-1.0 -GET SIZE OF BASIC EXCHG CST | 12000224 |
| 11* | 001001.40 | 002150.25 30 | X20 A 1 | SV,\$10,S MCP -SET BASE OF MCP IN COMM REGION | 12000225 |
| 12* | 001002.00 | 000040.25 05 | | V+I,\$10,32.0 -COMP LOC OF FIRST BASIC EACH CHG CHANL | 12000226 |
| 13* | | | | -*** SEARCH FOR CONSOLE CHANNEL IN CST *** | 12000227 |
| 14* | 001002.40 | 100000.00 80 404000.06 70 | | LFI(BU,4),(8)2 -ENTER CONSOLE EQUIPMENT CODE | 12000228 |
| 15* | 001003.40 * | 000000.64 8A 004000.23 10 | X20 A 2 | KF(BU,4),.52(\$10) -TEST AGAINST EQUIPMENT FIELD | 12000229 |
| 16* | 001004.40 | 001006.36 C2 | X20 A 3 | BAE,X20A4 -IF CONSOLE PRESENT | 12000230 |
| 17* | 001005.00 | 001003.65 48 | | CB+,\$10,X20 A2 -IF TESTED ALL CHANNELS | 12000231 |
| 18* | 001005.40 | 001005.44 C0 | XERR 20 | BD,\$ -YES *ERROR* NO CONSOLE | 12000232 |
| 19* | 001006.00 | 000000.31 8A 001007.74 00 | X 20 A 4 | BZB,+.25(\$10),X20A5 -IF CONSOL AVAILABLE | 12000233 |
| 20* | 001007.00 | 001007.04 00 | XERR21 | BD,\$ -NO\$ERROR * CONSOLE NOT AVAILABLE | 12000234 |
| 21* | 001007.40 | 000011.25 10 | X20 A 5 | SX,\$10,\$R -CONSOLE CST ENTRY | 12000235 |
| 22* | 001010.CC | 002152.00 80 023026.70 10 | | -(BU,19),SXCHAN,45 -LESS BASE OF CST | 12000236 |
| 23* | 001011.00 | 002156.00 80 023027.20 D0 | | ST(BU,19),SYCOCH,46 -CONSLOE CHANNEL NUMBER TO | 12000237 |
| 24* | | | | -COMM REGION | 12000238 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|--------------|--|----------|
| 1* | | | | ***** | 12000240 |
| 2* | | | | - MCP SOURCE TAPE VERIFICATION | 12000241 |
| 3* | | | | ***** | 12000242 |
| 4* | | | | - | 12000243 |
| 5* | 001012.CC | 002156.36 30 | X DATE | LV,\$15,SY CO CH -GET CONSOLE CHANNEL | 12000244 |
| 6* | 001012.4C | 000043.00 80 040000.20 50 | | L(BU,32),X VERFY | 12000245 |
| 7* | 001013.40 | 000011.44 80 001015.74 00 | | BZB,\$R+.36,X DATE 2 -IF A-8 ZERO | 12000246 |
| 8* | 001014.40 | 000011.44 80 004000.00 F0 | | CMOC00(BU,4),\$R+.36 -YES * CLEAR TENS DIGIT OF MONTH | 12000247 |
| 9* | 001015.40 | 000011.54 80 001020.74 00 | X DATE 2 | BZB,\$R+.44,X DATE 3 -IF A-8 ZERO, EIGHT, OR NINE | 12000248 |
| 10* | 001016.40 * | 000011.56 80 001020.74 00 | | BZB,\$R+.46,X DATE 3 -YES * IF A-8 ZERO | 12000249 |
| 11* | 001017.40 | 000011.54 80 004000.00 F0 | | CMOC00(BU,4),\$R+.44 -YES*CLEAR UNITS DIGIT OF MONTH | 12000250 |
| 12* | 001020.40 | 000011.64 80 001022.74 04 | X DATE 3 | BZB,\$R+.52,X DATE 4 -IF A-8 ZERO | 12000251 |
| 13* | 001021.40 | 000011.64 80 004000.00 F0 | | CMOC00(BU,4),\$R+.52 -YES * CLEAR TENS DIGIT OF DAY | 12000252 |
| 14* | 001022.40 | 000011.74 80 001025.74 00 | X DATE 4 | BZB,\$R+.60,X DATE 5 -IF A-8 ZERO, EIGHT, OR NINE | 12000253 |
| 15* | 001023.40 | 000011.76 80 001025.74 00 | | BZB,\$R+.62,X DATE 5 -YES * IF A-8 ZERO | 12000254 |
| 16* | 001024.40 | 000011.74 80 004000.00 F0 | | CMOC00(BU,4),\$R+.60 -CLEAR UNITS DIGIT OF DAY | 12000255 |
| 17* | 001025.40 | 001047.53 80 004014.22 90 | X DATE 5 | M+MG(BU,4),X MONTH+.3,24 -GET TENS DIGIT | 12000256 |
| 18* | 001026.40 | 001047.63 80 004010.22 90 | | M+MG(BU,4),X MONTH+.8+.3,16 -GET UNITS DIGIT | 12000257 |
| 19* | 001027.40 | 001050.63 80 004004.22 90 | | M+MG(BU,4),X DAY+.3,8 -GET TENS DIGIT | 12000258 |
| 20* | 001030.40 | 001050.73 80 004000.22 90 | | M+MG(BU,4),X DAY+.8+.3 -GET UNITS DIGIT | 12000259 |
| 21* | 001031.40 | 000000.00 8F 001042.13 00 | | W(SEOP),0.0(\$15),X D CW -IDENTIFY DATE OF SOURCE TAPE | 12000260 |
| 22* | 001032.40 * | 000066.40 80 | | SIC,X7 3 | 12000261 |
| 23* | 001033.00 | 000057.50 C0 | | B,X7 1 -IO TEST | 12000261 |
| 24* | 001033.40 | 001052.10 C0 | | B,XIO -TO IO STATUS REPORT | 12000262 |
| 25* | | | | CNOP | 12000263 |
| 26* | 001034.00 * | 000003.00 | X LR IN | DR(BU),(3) -BUFFER FOR LOWER REGISTERS FOR | 12000264 |
| 27* | | | | -READ | 12000265 |
| 28* | 001037.00 | 000003.00 | X ZEROS | DR(BU),(3) -ZERO WORDS FOR LOWER REGISTERS | 12000266 |
| 29* | 001042.00 | 001037.00+ 1C0 000003 001043 | X D CW | CW,X ZEROS,3,X D CW 1(.25)1 | 12000267 |
| 30* | 001043.00 | 001045.00+ 0C0 000005 000000 | X D CW 1 | CW,XDATE1,XDATEK,0 -CW USED TO STATE DATE | 12000268 |
| 31* | 001044.00 | 001034.00+ 000 000003 000000 | X D CW 2 | CW,X LR IN,3,0 -CW USED TO GET IPL OPTIONS | 12000269 |
| 32* | | | | CNOP | 12000270 |
| 33* | 001045.00 | | 375 X DATE 1 | DD(BU,8),(2)1111 1101 -INITIAL CARRIAGE RETURN | 12000271 |
| 34* | 001045.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 12000272 |
| 35* | 001045.20 | | | (IQS*)CC(BU,64,8), DATE OF IPL TAPE * | 12000273 |
| 36* | 001047.40 | | 375 | DD(BU,8),(2)1111 1101 -CARRIAGE RETURN FOR FIRST LINE | 12000274 |
| 37* | 001047.50 | | X MONTH | (IQS*)DD(BU,64,8),00 MONTH * | 12000275 |
| 38* | 001050.60 | | X DAY | (IQS*)DD(BU,64,8),00 DAY * | 12000276 |
| 39* | 001051.60 | | 375 | DD(BU,8),(2)1111 1101 -CARRIAGE RETURN FOR SECOND LINE | 12000277 |
| 40* | 001051.70 | | 376 | DD(BU,8),(2) 1111 1110 -END OF MSG | 12000278 |
| 41* | | | | CNOP -ROUND TO FULL WORD | 12000279 |
| 42* | 000005.00+ | -00000000 BU,10 ,10 | X DATE K | SYN,\$-X DATE 1 -SIZE OF MSG | 12000280 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------------|--|----------|
| 1* | | | | | ----- | 12000282 |
| 2* | | | | | - OPERATOR STATUS REPORT FOR IO | 12000283 |
| 3* | | | | | ----- | 12000284 |
| 4* | | | | | - | 12000285 |
| 5* | 001052.00 | C00000.00 | 8F | 001044.11 00 | X IO RD(SEOP),C.C(\$15),X D CW2 -GET IPL OPTICNS | 12000286 |
| 6* | 001053.00 | C00066.40 | 80 | | SIC,X7 3 | 12000287 |
| 7* | 001053.40 | C00057.50 | 00 | | B,X7 1 -IO TLST | 12000287 |
| 8* | | | | | - ***** IPL TIME CONSTANT ***** | 12000288 |
| 9* | 001054.00 | C00006.07 | 02 | | LCI,\$3,6.0 | 12000289 |
| 10* | 001054.40 | 001034.03 | 01 | | LVI,\$1,XLRIN | 12000290 |
| 11* | 001055.00 * | C01034.00 | 80 | 000000.20 50 | L(BU,64),XLRIN | 12000291 |
| 12* | 001056.00 | 000000.00 | 80 | 430024.23 10 | KFI(BU,24),0,40 -NO TIME ENTERED | 12000292 |
| 13* | 001057.00 | C01211.76 | C2 | | BAE,XVNCTM | 12000293 |
| 14* | 001057.40 | C00000.04 | 81 | 104000.20 50 | XVLOOP L(BU,4)(V+I),.4(\$1) -TEST FOR VALID CHARACTER. | 12000294 |
| 15* | 001060.40 | 440000.00 | 80 | 404000.23 10 | KFI(BU,4),9 | 12000295 |
| 16* | 001061.40 | C01225.77 | 42 | | BAH,XVTDER | 12000296 |
| 17* | 001062.00 | C01057.46 | 48 | | CB,3,XVLOOP | 12000297 |
| 18* | 001062.40 | C01034.03 | 01 | | LVI,\$1,XLRIN | 12000298 |
| 19* | 001063.00 | 000000.10 | 81 | 110000.20 50 | L(BU,8)(V+I),.8(\$1) -TEST FOR VALID COMBINATIONS. | 12000299 |
| 20* | 001064.00 | 110000.00 | 80 | 410000.23 10 | KFI(BU,8),(16)24 | 12000300 |
| 21* | 001065.00 | C01225.76 | 40 | | BZAL,XVTDER | 12000301 |
| 22* | 001065.40 | C00000.10 | 81 | 110000.20 50 | L(BU,8)(V+I),.8(\$1) | 12000302 |
| 23* | 001066.40 | 300000.00 | 80 | 410000.23 10 | KFI(BU,8),(16)60 | 12000303 |
| 24* | 001067.40 | C01225.76 | 40 | | BZAL,XVTDER | 12000304 |
| 25* | 001070.00 * | C00000.10 | 81 | 110000.20 50 | L(BU,8)(V+I),.8(\$1) | 12000305 |
| 26* | 001071.00 | 300000.00 | 80 | 410000.23 10 | KFI(BU,8),(16)60 | 12000306 |
| 27* | 001072.00 | C01225.76 | 40 | | BZAL,XVTDER | 12000307 |
| 28* | 001072.40 | C01034.03 | 01 | | XVBACK LVI,\$1,XLRIN | 12000308 |
| 29* | 001073.00 | C00006.07 | 02 | | LCI,\$3,6.0 | 12000309 |
| 30* | 001073.40 | C00000.04 | 81 | 104000.20 50 | XVLOP2 L(BU,4)(V+I),.4(\$1) | 12000310 |
| 31* | 001074.40 | 000000.00 | 80 | 404000.23 10 | KFI(BU,4),0 | 12000311 |
| 32* | 001075.40 | C01204.76 | C2 | | BAE,XVZER -REPLACE WITH BCD ZERO | 12000312 |
| 33* | 001076.00 | C01073.46 | 48 | | XVCONS CB,\$3,XVLOP2 | 12000313 |
| 34* | 001076.40 | C01034.03 | 01 | | LVI,\$1,XLRIN | 12000314 |
| 35* | 001077.00 | C01242.02 | 80 | 430024.20 50 | LI(BU,24),XVTIME,40 | 12000315 |
| 36* | 001100.00 | C00011.04 | 30 | | LV,\$2,\$R | 12000316 |
| 37* | 001100.40 | C00000.02 | 82 | 101000.20 50 | L(BU,1)(V+I),.2(\$2) | 12000317 |
| 38* | 001101.40 | 000000.04 | 81 | 104000.20 50 | L(BU,4)(V+I),.4(\$1) | 12000318 |
| 39* | 001102.40 | 000000.06 | 82 | 104000.20 00 | ST(BU,4)(V+I),.6(\$2) - STORE IN TIME SLOT | 12000319 |
| 40* | 001103.40 * | C00000.04 | 81 | 104000.20 50 | L(BU,4)(V+I),.4(\$1) | 12000320 |
| 41* | 001104.40 | C00000.14 | 82 | 104000.20 00 | ST(BU,4)(V+I),.12(\$2) | 12000321 |
| 42* | 001105.40 | 000000.04 | 81 | 104000.20 50 | L(BU,4)(V+I),.4(\$1) | 12000322 |
| 43* | 001106.40 | 000000.06 | 82 | 104000.20 00 | ST(BU,4)(V+I),.6(\$2) | 12000323 |
| 44* | 001107.40 | C00000.04 | 81 | 104000.20 50 | L(BU,4)(V+I),.4(\$1) | 12000324 |
| 45* | 001110.40 | C00000.14 | 82 | 104000.20 00 | ST(BU,4)(V+I),.12(\$2) | 12000325 |
| 46* | 001111.40 | 000000.04 | 81 | 104000.20 50 | L(BU,4)(V+I),.4(\$1) | 12000326 |
| 47* | 001112.40 | C00000.06 | 82 | 104000.20 00 | ST(BU,4)(V+I),.6(\$2) | 12000327 |
| 48* | 001113.40 | C00000.04 | 81 | 104000.20 50 | L(BU,4)(V+I),.4(\$1) | 12000328 |
| 49* | 001114.40 | C00000.06 | 82 | 104000.20 00 | ST(BU,4)(V+I),.6(\$2) | 12000329 |
| 50* | | | | | - ***** IPL DATE CONSTANT ***** | 12000330 |
| 51* | 001115.40 | 000006.07 | 02 | | LCI,\$3,6.0 | 12000331 |
| 52* | 001116.00 | C01034.43 | 01 | | LVI,\$1,XLRIN+.32 | 12000332 |
| 53* | 001116.40 | C00000.04 | 81 | 104000.20 50 | XVLOPS L(BU,4)(V+I),.4(\$1) - TESTS FOR VALID CHARACTERS | 12000333 |
| 54* | 001117.40 * | 440000.00 | 80 | 404000.23 10 | KFI(BU,4),9 | 12000334 |
| 55* | 001120.40 | C01225.77 | 42 | | BAH,XVTDER | 12000335 |
| 56* | 001121.00 | C01116.46 | 48 | | CB,\$3,XVLOPS | 12000336 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 001121 |
|------|-------------|-----------|--------|-----------|------------------------------------|--|----------|
| 1* | 001121.40 | C01034.43 | 01 | | LVI,\$1,XLRIN+.32 | | 12000337 |
| 2* | 001122.00 | C00000.10 | 81 | 110000.20 | 50 | L(BU,8)(V+I),.8(\$1) - TESTS FOR VALID COMBINATIONS | 12000338 |
| 3* | 001123.00 | 046000.00 | 80 | 410000.23 | 10 | KFI(BU,8),(16)13 | 12000339 |
| 4* | 001124.00 | 001225.76 | 40 | | BZAL,XVTDER | | 12000340 |
| 5* | 001124.40 | C00000.10 | 81 | 110000.20 | 50 | L(BU,8)(V+I),.8(\$1) | 12000341 |
| 6* | 001125.40 | 144000.00 | 80 | 410000.23 | 10 | KFI(BU,8),(16)32 | 12000342 |
| 7* | 001126.40 | 001225.76 | 40 | | BZAL,XVTDER | | 12000343 |
| 8* | 001127.00 | 001034.43 | 01 | | LVI,\$1,XLRIN+.32 | | 12000344 |
| 9* | 001127.40 | C00006.07 | 02 | | LCI,\$3,6.0 | | 12000345 |
| 10* | 001130.00 | C00000.04 | 81 | 104000.20 | 50 | XVLP L(BU,4)(V+I),.4(\$1) | 12000346 |
| 11* | 001131.00 | C00000.00 | 80 | 404000.23 | 10 | KFI(BU,4),0 | 12000347 |
| 12* | 001132.00 | 001207.36 | C2 | | BAE,XVZER1 - REPLACE WITH BCD ZERO | | 12000348 |
| 13* | 001132.40 | 001130.06 | 48 | | XVCONT CB,\$3,XVLP | | 12000349 |
| 14* | 001133.00 * | 001034.43 | 01 | | LVI,\$1,XLRIN+.32 | | 12000350 |
| 15* | 001133.40 | 001242.70 | 80 | 430024.20 | 50 | LI(BU,24),XVDATE,40 | 12000351 |
| 16* | 001134.40 | C00011.04 | 30 | | LV,\$2,\$R | | 12000352 |
| 17* | 001135.00 | C00000.02 | 82 | 101000.20 | 50 | L(BU,1)(V+I),.2(\$2) | 12000353 |
| 18* | 001136.00 | C00000.04 | 81 | 104000.20 | 50 | L(BU,4)(V+I),.4(\$1) | 12000354 |
| 19* | 001137.00 | C00000.06 | 82 | 104000.20 | D0 | ST(BU,4)(V+I),.6(\$2) -STORE IN DATE SLOT | 12000355 |
| 20* | 001140.00 | C00000.04 | 81 | 104000.20 | 50 | L(BU,4)(V+I),.4(\$1) | 12000356 |
| 21* | 001141.00 | C00000.14 | 82 | 104000.20 | D0 | ST(BU,4)(V+I),.12(\$2) | 12000357 |
| 22* | 001142.00 | C00000.04 | 81 | 104000.20 | 50 | L(BU,4)(V+I),.4(\$1) | 12000358 |
| 23* | 001143.00 | C00000.06 | 82 | 104000.20 | D0 | ST(BU,4)(V+I),.6(\$2) | 12000359 |
| 24* | 001144.00 | C00000.04 | 81 | 104000.20 | 50 | L(BU,4)(V+I),.4(\$1) | 12000360 |
| 25* | 001145.00 | C00000.14 | 82 | 104000.20 | D0 | ST(BU,4)(V+I),.12(\$2) | 12000361 |
| 26* | 001146.00 * | C00000.04 | 81 | 104000.20 | 50 | L(BU,4)(V+I),.4(\$1) | 12000362 |
| 27* | 001147.00 | C00000.06 | 82 | 104000.20 | D0 | ST(BU,4)(V+I),.6(\$2) | 12000363 |
| 28* | 001150.00 | C00000.04 | 81 | 104000.20 | 50 | L(BU,4)(V+I),.4(\$1) | 12000364 |
| 29* | 001151.00 | C00000.06 | 82 | 104000.20 | D0 | ST(BU,4)(V+I),.6(\$2) | 12000365 |
| 30* | 001152.00 | C01034.35 | 80 | 001417.34 | 00 | XVICRP BZB,X LR IN+.29,X 20B - IF I/O STATUS REPORT DESIRED | 12000366 |
| 31* | 001153.00 | 001166.10 | 00 | | B,X IO 2A - YES TO CHANGE TABLES | | 12000367 |
| 32* | 001153.40 | C00000.00 | 8F | 001410.13 | 00 | XIO 1 W(SEOP),0.0(\$15),X IO CW -YES*REQUEST NEXT IO STATUS REPORT | 12000368 |
| 33* | | | | | | -REPORT | 12000369 |
| 34* | 001154.40 | C00066.40 | 80 | | SIC,X7 3 | | 12000370 |
| 35* | 001155.00 | C00057.50 | C0 | | B,X7 1 -TC IO TEST | | 12000370 |
| 36* | 001155.40 | C00000.00 | 8F | 000041.21 | 00 | XIC A CCW,0.C(\$15),X IPL BS -GET STATUS BITS | 12000371 |
| 37* | 001156.40 | 000551.00 | 80 | | XIO AA SIC,X ERR AD | | 12000372 |
| 38* | 001157.00 | 000133.03 | 46 | | BEKJZ,X ERROR -IF EKJ | | 12000372 |
| 39* | 001157.40 | C00041.27 | 80 | 001155.74 | 00 | BZB,X IPL BS+.23,X IO A | 12000373 |
| 40* | 001160.40 | C00000.00 | 8F | 000000.33 | 00 | REL(SEOP),0.0(\$15) - CLEAR CS STATUS BIT | 12000374 |
| 41* | 001161.40 | 000066.40 | 80 | | SIC, X7 3 | | 12000375 |
| 42* | 001162.00 * | C00057.50 | C0 | | B,X7 1 - IO TEST | | 12000375 |
| 43* | 001162.40 | 001163.10 | C0 | | XIC B B,XIO 2 | | 12000376 |
| 44* | 001163.00 | C00000.00 | 8F | 001044.11 | 00 | X IO 2 RD(SEOP),0.0(\$15),X D CW2 -GET CHANNEL AND UNIT NOT | 12000377 |
| 45* | | | | | | -AVAILABLE | 12000378 |
| 46* | 001164.00 | C00066.40 | 80 | | SIC,X7 3 | | 12000379 |
| 47* | 001164.40 | C00057.50 | C0 | | B,X7 1 -TC IO TEST | | 12000379 |
| 48* | 001165.00 | C01034.35 | 80 | 001417.34 | 00 | BZB,X LR IN+.29,X20B - IF DONE OUT | 12000380 |
| 49* | 001166.00 | 001035.30 | 80 | 010427.24 | 30 | XIO 2A LCV(DU,8),X LR IN+1.24,46 -CONVERT CHANNEL NUMBER | 12000381 |
| 50* | 001167.00 | C00011.34 | 30 | | LV,\$14,\$R -GET CHANNEL NUMBER | | 12000382 |
| 51* | 001167.40 | C02152.34 | 80 | | V+,\$14,SXCHAN -GET CST SLOT | | 12000383 |
| 52* | 001170.00 | C00000.33 | 8E | 001176.34 | 00 | BZB,.27(\$14),X IO 4 -IF MULTI UNIT CHANNEL | 12000384 |
| 53* | 001171.00 | 001035.74 | 80 | 001177.74 | 02 | BB,X LR IN +1.60,XIO5 -YES* IF ENTIRE CHANNEL DOWN | 12000385 |
| 54* | 001172.00 | C00000.34 | 3E | | LV,\$14,C.C(\$14) -GET UST BASE | | 12000386 |
| 55* | 001172.40 | C01035.75 | 80 | 003000.20 | 50 | L(BU,3),XLRIN+1.61 -ENTER UNIT NUMBER | 12000387 |
| 56* | 001173.40 | C00036.00 | 80 | 022000.22 | 90 | M+MG(BU,18),\$14 -COMPUTE UST ENTRY ADDRESS | 12000388 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 001174 |
|------|-------------|------------|-------------------|--------------|---|----------|----------|
| 1* | 001174.40 | CCCC00.34 | 8E 001000.36 | FO X IC 3 | CM1111(BU,1),.28(\$14) -UNIT TO NOT AVAILABLE | | 12000389 |
| 2* | 001175.40 * | 001153.50 | 00 | | B,XI01 | | 12000390 |
| 3* | 001176.00 | CCCC00.34 | 8E 001000.36 | FO X IC 4 | CM1111(BU,1),.28(\$14) -UNIT NOT AVAILABLE | | 12000391 |
| 4* | 001177.00 | 001153.50 | 00 | | B,XI01 | | 12000392 |
| 5* | 001177.40 | CCCC00.73 | 8E 004027.20 | 50 X IC 5 | L(RU,4),.59(\$14),46- GET UNIT COUNT | | 12000393 |
| 6* | 001200.40 | C0CC11.24 | 50 | | LC,\$10,\$R | | 12000394 |
| 7* | 001201.00 | 001153.70 | 42 | | BXCZ,X IC 1- IF NO UNITS ON CHANNEL (DEAD CHANNEL) | | 12000395 |
| 8* | 001201.40 | 000000.34 | 3E | | LV,\$14,0.0(\$14) -GET UST BASE | | 12000396 |
| 9* | 001202.00 | C0CC00.34 | 8E 001000.36 | FO X IC 6 | CM1111(BU,1),.28(\$14) -UNIT TO NOT AVAILABLE | | 12000397 |
| 10* | 001203.00 | C0CC01.35 | 05 | | V+I,\$14,1.0- | | 12000398 |
| 11* | 001203.40 | 001202.24 | 48 | | CB,\$10,X 106 -IF ALL UNITS KILLED | | 12000399 |
| 12* | 001204.00 | 001153.50 | 00 | | B,X IC 1- RETURN FOR MORE OPTIONS | | 12000400 |
| 13* | 001204.40 | 500000.00 | 80 404027.06 | 70 XVZER | LFI(BU,4),(2)1010,46 - BCD ZERO | | 12000401 |
| 14* | 001205.40 | 777777.74 | 81 004027.20 | 00 | ST(BU,4),-.4(\$1),46 | | 12000402 |
| 15* | 001206.40 | 001076.10 | 00 | | B,XVCONS | | 12000403 |
| 16* | 001207.00 | 50CC00.00 | 80 404027.06 | 70 XVZER1 | LFI(BU,4),(2)1010,46 - BCD ZERO | | 12000404 |
| 17* | 001210.00 | 777777.74 | 81 004027.20 | 00 | ST(BU,4),-.4(\$1),46 | | 12000405 |
| 18* | 001211.00 * | 001132.50 | 00 | | B,XVCONT | | 12000406 |
| 19* | 001211.40 | C0CC01.34 | 80 032042.20 | 50 XV NOTM | L(BU,26),\$TC,-60 - GET TIME | | 12000407 |
| 20* | 001212.40 | C01243.43 | 01 | | LVI,\$1,XVSTOR | | 12000408 |
| 21* | 001213.00 | 740000.00 | 80 406042.21 | 00 | /I(BU,6),60,-60 | | 12000409 |
| 22* | 001214.00 | C0CC15.66 | 80 006000.06 | 70 | CO011(BU,6),\$RM+.54 -SECONDS IN RM IN BINARY | | 12000410 |
| 23* | 001215.00 | C0CC00.30 | 81 006000.12 | 00 | CM0101(BU,6),0.24(\$1) - SAVE BINARY SECONDS | | 12000411 |
| 24* | 001216.00 | 740000.00 | 80 406042.21 | 00 | /I(BU,6),60,-60 -COMPUTE HOUR AND MINUTES | | 12000412 |
| 25* | 001217.00 | 000010.00 | 80 000010.21 | 00 | CV(BU),\$L,16 -CONVERT HOURS TO DECIMAL | | 12000413 |
| 26* | 001220.00 | 00CC15.66 | 80 006000.22 | 30 | LTRCV(BU,6),\$RM+.54 - CONVERT MINUTES TO DECIMAL | | 12000414 |
| 27* | 001221.00 | 00CC17.64 | 80 010004.06 | 70 | CO011(BU,8),\$TR+.52,8 | | 12000415 |
| 28* | 001222.00 | C0CC00.30 | 81 006000.22 | 30 | LTRCV(BU,6),0.24(\$1) -CONVERT SECONDS | | 12000416 |
| 29* | 001223.00 | C0CC17.64 | 80 010000.06 | 70 | CO011(BU,8),\$TR+.52 | | 12000417 |
| 30* | 001224.00 * | 001034.00 | 80 030000.20 | 00 | ST(BU,24),XLRIN | | 12000418 |
| 31* | 001225.00 | 001072.50 | 00 | | B,XVBACK | | 12000419 |
| 32* | 001225.40 | 000000.00 | 8F 001237.13 | 00 XVTDER | W(SEOP),0.0(\$15),XVTMCW -WRITE OUT ERROR MESSAGE. | | 12000420 |
| 33* | 001226.40 | 000066.40 | 80 | | SIC,X73 | | 12000421 |
| 34* | 001227.00 | C0CC57.50 | 00 | | B,X 71 - I/O TEST | | 12000421 |
| 35* | 001227.40 | 001672.23 | 80 001000.00 | 00 | CM0000(BU,1),XVSWCH.19 | | 12000422 |
| 36* | 001230.40 | 001152.10 | 00 | | B,XV IORP | | 12000423 |
| 37* | | | | | CNOP | | 12000424 |
| 38* | 001231.00 | | | 375 XVMESS | DD(BU,8),(2)1111 1101 -CONTROL CODE FOR CARRIAGE RETURN | | 12000425 |
| 39* | 001231.10 | | | 002 | DD(BU,8),(2)00000010 -RED \$ | | 12000426 |
| 40* | 001231.20 | | | | (IQS*)DD(BU,64,8),DATE/TIME INVALID RETRY * | | 12000427 |
| 41* | 001234.20 | | | | (IQS*)DD(BU,64,8),VIA CCMD, CLOCK * | | 12000428 |
| 42* | 001236.20 | | | 375 | DD(BU,8),(2) 1111 1101 -CARRIAGE RETURN | | 12000429 |
| 43* | 001236.30 | | | 376 | DD(BU,8),(2) 1111 1110 -END OF MESSAGE | | 12000430 |
| 44* | 001236.40 | 000000.30 | 00 | | CNOP | | 12000431 |
| 45* | 000006.00+ | -00000000 | BU,10 ,10 | XVTMST | SYN,\$-XVMESS | | 12000432 |
| 46* | 001237.00 | 001034.00+ | 100 000003 001240 | XVTMCW | CW,XLRIN,3,XVTCW(.25)1 | | 12000433 |
| 47* | 001240.00 * | 001231.00+ | 000 000006 000000 | XVTCW | CW,XVMESS,XVTMST | | 12000434 |
| 48* | | | | | CNOP | | 12000435 |
| 49* | 001241.00 | | | XVCLOK | (A*)DD(BU,,6),CMD,CLOCK,* | | 12000436 |
| 50* | 001242.02 | | | XVTIME | (A*)DD(BU,,6),00,00,00,* | | 12000437 |
| 51* | 001242.70 | | | XVDATE | (A*)DD(BU,,6),00/00/00* | | 12000438 |
| 52* | 001243.50 * | 000144.00 | | XVSTOR | DRZ(BU),100 - TEMPORARY STORAGE | | 12000439 |
| 53* | 001410.00 | 001034.00+ | 100 000003 001411 | XICCW | CW,XLRIN,3,XI0CW1(.25)1 | | 12000440 |
| 54* | 001411.00 | 001412.00+ | 000 000005 000000 | X IC CW1 | CW,X IC STA,X IC STK -CW USED TO REQUEST IO STATUS | | 12000441 |
| 55* | | | | | CNOP | | 12000442 |
| 56* | 001412.00 | | | 375 X IO STA | DD(BU,8),(2)1111 1101 -CONTRCL CODE CARRIAGE RETURN | | 12000443 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 001412 |
|------|-------------|----------------|---------------|--|----------|----------|
| 1* | 001412.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | | 12000444 |
| 2* | 001412.20 | | | (IQS*)DD(BU,64,8), MAKE YOUR IO STATUS REPORT IF ANY* | | 12000445 |
| 3* | 001416.40 | | 375 | DD(BU,8),(2) 1111 1101 -CARRIAGE RETURN | | 12000446 |
| 4* | 001416.50 | | 376 | DD(BU,8),(2) 1111 1110 -END OF MSG | | 12000447 |
| 5* | | | | CNOP | | 12000448 |
| 6* | 000005.00+ | -00000000 | BU,10 ,10 | X IC STK SYN,1-X IC STA -SIZE CF MSG | | 12000449 |
| 7* | | | | ***** | | 12000450 |
| 8* | | | | -ENTRIES IN COMMUNICATION REGION | | 12000451 |
| 9* | | | | -*S Y PR CH*S SYRF T | | 12000452 |
| 10* | | | | ***** | | 12000453 |
| 11* | | | | - | | 12000454 |
| 12* | 001417.00 | 002152.24 10 | X20 B | LX,\$10,S X CHAN -INITIALIZE FOR PRINTER CHANNEL SEARCH | | 12000455 |
| 13* | 001417.40 | 000040.25 05 | | V+I,\$10,32.0 -COMPUTE FIRST CST ENTRY FOR BASIC CHG | | 12000456 |
| 14* | | | | *** SEARCH FOR PRINTER CHANNEL IN CST *** | | 12000457 |
| 15* | 001420.00 | 000037.25 08 | | C-I,\$10,31.0 -COMPUT NUMBER OF CHANNEL | | 12000458 |
| 16* | | | | -IN BASIC EXCHANGE | | 12000459 |
| 17* | 001420.40 | 240000.00 80 | 404000.06 70 | LFI(BU,4),(8)5 -ENTER PRINTER EQUIPMENT CCDE | | 12000460 |
| 18* | 001421.40 | 000000.64 8A | 004000.23 10 | X20 B 1A KF(BU,4),.52(\$10) -TEST AGAINST EQUIPMENT FIELD | | 12000461 |
| 19* | 001422.40 | 001424.36 C2 | | BAE,X20 B3 -IF PRINTER PRESENT | | 12000462 |
| 20* | 001423.00 * | 001427.25 4A | X20 B 1 | CBZ+,\$10,X20 B 2 -IF NO PRINTER | | 12000463 |
| 21* | 001423.40 | 001421.50 00 | | B,X20 B 1A | | 12000464 |
| 22* | 001424.00 | 000011.25 10 | X20 B 3 | SX,\$10,\$R -PRINTER CST ENTRY | | 12000465 |
| 23* | 001424.40 | 002152.00 80 | 023026.70 10 | -(BU,19),S X CHAN,45 -LESS BASE CF CST | | 12000466 |
| 24* | 001425.40 | 002156.40 80 | 023000.20 00 | ST(BU,19),SY PR CH -PRINTER CHANN NUM TO COMM RIGON | | 12000467 |
| 25* | 001426.40 | 001430.50 00 | X20 B4 | B,X22 | | 12000468 |
| 26* | 001427.00 | 002156.40 80 | 023000.37 70 | X20 B 2 CT1111(BU,19),SY PR CH -ILLEGAL CHANN NUM IN COMM REGION | | 12000469 |
| 27* | 001430.00 | 001426.50 C0 | | B,X20B4 | | 12000470 |
| 28* | | | | - ***** | | 12000471 |
| 29* | | | | **** TO UNCODE **** | | 12000472 |
| 30* | | | | - ***** | | 12000473 |
| 31* | | | | - | | 12000474 |
| 32* | 001430.40 | 000002.36 84 | 510000.07 70 | X22 CTC011(V-I)(BU,8),+2.30(\$4) -COMPUTE BASE OF AREA | | 12000475 |
| 33* | 001431.40 | 002201.25 80 | 001000.36 F0 | CM1111(BU,1),YIPL1+.21 | | 12000476 |
| 34* | 001432.40 | 000024.16 30 | | LV,\$7,\$4 -CONTAINING IOD AND REEL CARDS | | 12000477 |
| 35* | 001433.00 | 001435.35 C1 | X22 1 | LVI,\$14,X22 2 A -ENTER RETURNED PARAMETER SLOT | | 12000478 |
| 36* | 001433.40 | 002166.10 C0 | X22 2 | B,YUNCOD -TC UNCODE ROUTINE | | 12000479 |
| 37* | | | | CNOP | | 12000480 |
| 38* | 001434.00 | | X22 2AA | (AQ)DD(BU,42,6),MCP IPLQ -PROGRAM NAME | | 12000481 |
| 39* | 001435.00 | 000000.00+ 000 | 000000 000000 | X22 2 A XW,C -FOR TOE, FIELD COUNT, IO REF | | 12000482 |
| 40* | | | | -NUMBER | | 12000483 |
| 41* | 001436.00 | 000004.00+ | | VF,4.0 -EXPECT IOD AND REEL CARDS | | 12000484 |
| 42* | 001436.40 * | 000000.00 87 | | ,0.0(\$7) -GET CARD AT | | 12000485 |
| 43* | 001437.00 | 000002.00 87 | | ,2.0(\$7) -PUT TABLE AT | | 12000486 |
| 44* | 001437.40 | 001440.50 00 | | B,X22 3 -NOT IOD CR REEL CARD | | 12000487 |
| 45* | 001440.00 | 001441.50 00 | | B,X22 4 -NORMAL | | 12000488 |
| 46* | 001440.40 | 000551.00 80 | X22 3 | SIC,XERRAD | | 12000489 |
| 47* | 001441.00 | 000133.10 C0 | | B,X ERRCR -ERROR IN UNCODE | | 12000489 |
| 48* | 001441.40 | 777777.00 8E | 000000.04 A7 | X22 4 TI,2,-1.0(\$14),C.0(\$7) -SAVE RETURNED PARAMETER IN | | 12000490 |
| 49* | | | | -TABLE | | 12000491 |
| 50* | 001442.40 | 000017.17 05 | | V+I,\$7,15.0 | | 12000492 |
| 51* | 001443.00 | 000002.04 87 | 001433.74 02 | BB,2.04(\$7),X22 2 -IF PROCESSED LAST CARD | | 12000493 |
| 52* | | | | -TEST 12 ZONE OF THIRD LETTER | | 12000494 |
| 53* | | | | -IN IOD,REEL OR MCPP TYPE FIELD | | 12000495 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|--------|-------------------------------------|----------|
| 1* | | | | - ***** | 12000497 |
| 2* | | | | -**** TO DECODE **** | 12000498 |
| 3* | | | | - ***** | 12000499 |
| 4* | | | | - | 12000500 |
| 5* | 001444.00 | CCCC24.34 30 | X23 | LV,\$14,\$4 | 12000501 |
| 6* | | | | -GET BASE OF AREA CONTAINING IOD | 12000502 |
| 7* | 001444.40 | 001447.77 01 | X23 1 | LVI,\$15,X23 3 | 12000503 |
| 8* | | | | -AND REEL CARDS BROKEN OUT | 12000504 |
| 9* | 001445.00 | 002201.25 80 001000.36 F0 | | -ENTER DECODE LINKAGE PARAMETER | 12000505 |
| 10* | 001446.00 | 000001.35 05 | X23 2 | CM1111(BU,1),Y IPL 1+.21 | 12000506 |
| 11* | | | | -LOCATION | 12000507 |
| 12* | 001446.40 | 001447.75 00 | | -MAKE BE IN UNCODE INTO BD | 12000508 |
| 13* | 001447.00 | 002737.10 00 | X23 2A | V+I,\$14,1.0 | 12000509 |
| 14* | 001447.40 | 000000.00+ | X23 3 | -ADVANCE POINTER TO SECONDR WORD IN | 12000510 |
| 15* | | | | -TABLE | 12000511 |
| 16* | 001450.00 | 000001 | | SVA,\$14,X23 3 | 12000512 |
| 17* | 001450.40 | 000000.00+ | | B,LDECCD | 12000513 |
| 18* | 001451.00 | 001452.10 00 | | -TO DECODE ROUTINE | 12000514 |
| 19* | 001451.40 | 001453.10 00 | X23 N | VF,C.0 | 12000515 |
| 20* | 001452.00 * | 000551.00 80 | X23 4 | -LOCATION OF TABLE TO BE | 12000516 |
| 21* | 001452.40 | 000133.10 00 | | -PROCESSED (ALPHA) | 12000517 |
| 22* | 001453.00 | 000016.35 05 | | -NON ZERO FOR BYPASS MCDE | 12000518 |
| 23* | 001453.40 | 000027.34 90 | X23 5 | -ERROR DISPOSITION | 12000519 |
| 24* | | | | -ERROR RETURN | 12000520 |
| 25* | 001454.00 | 001446.32 42 | | B,X23 4 | 12000521 |
| 26* | 001454.40 | 001434.00 80 001461.02 AC | X23 6 | B,X23 5 | 12000522 |
| 27* | 001455.40 | 000037.00 80 | | -NORMAL | 12000523 |
| 28* | 001456.00 | 002737.10 00 | | SIC,X ERR AD | 12000524 |
| 29* | 001456.40 | 001462.00+ | | B,X ERROR -IO REQUIREMENTS REJECTED | 12000525 |
| 30* | 001457.00 | 000001 | | V+I,\$14,14. | 12000526 |
| 31* | 001457.40 | 000000.00+ | | KV,\$14,\$7 | 12000527 |
| 32* | 001460.00 | 001452.10 00 | | -ADVANCE TO NEXT TABLE | 12000528 |
| 33* | 001460.40 | 001464.10 00 | | -TEST NEXT TABLE ADDRESS FOR | 12000529 |
| 34* | 001461.00 | 000000.00+ 000 000000 000000 | | -ADDRESS OF MCPP CARD | 12000530 |
| 35* | 001462.00 | 000000.00+ 000 000000 000000 | X LAST | -IF PROCESSED LAST TABLE | |
| 36* | 001463.00 | 000000.00+ 000 000000 000000 | | -ENTER NAME AT ALPHA-1.0 | |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|----------|---|----------|
| 1* | | | | - ***** | 12000532 |
| 2* | | | | -**** TO ASSIGN **** | 12000533 |
| 3* | | | | - ***** | 12000534 |
| 4* | | | | - | 12000535 |
| 5* | 001464.00 | 001467.37 01 | X24 | LVI,\$15,X24 2 -ENTER PARAMETER LOCATION | 12000536 |
| 6* | 001464.40 | 004474.25 80 001000.36 F0 | | CM1111(BU,1),T IPLB1+.21 -CONVERT BE IN ASSIGN TO BD | 12000537 |
| 7* | 001465.40 * | 004540.65 80 001000.36 F0 | | CM1111(BU,1),T IPLB2+.21 -CONVERT BE IN ASSIGN TO BD | 12000538 |
| 8* | 001466.40 | C03701.10 C0 | X24 1 | B,TASIGN | 12000539 |
| 9* | 001467.00 | CC0000.01- 1C0 000000 000000 | X24 2 | XW,-1,0,0,4 | 12000540 |
| 10* | | | | -MODE | 12000541 |
| 11* | 001470.00 | 001467.00 10 | | LX,\$0,X24 2 -INITIALIZE \$IND | 12000542 |
| 12* | 001470.40 | CC0551.00 80 | X ERR 24 | SIC,X ERR AD | 12000543 |
| 13* | 001471.00 | 000133.30 40 | | BZXCZ,X ERROR -IF ASSIGNMENT ERROR | 12000543 |
| 14* | 001471.40 | 001500.10 00 | | B,X25 | 12000544 |
| 15* | | | | - | 12000545 |
| 16* | | | | - ***** | 12000546 |
| 17* | | | | -ENTER TAPE MOUNTING MESSAGE IN MESSAGE BLOCK | 12000547 |
| 18* | | | | - ***** | 12000548 |
| 19* | | | | - | 12000549 |
| 20* | 001472.00 | 004455.01 80 004570.74 00 | X24 A | BZB,TSBHDI,TPENY -IF PASSED OVER FIRST TWO WRITE REQUESTS | 12000550 |
| 21* | 001473.00 | 004432.00 80 002000.20 A0 | X24 A 2 | TI,8,TBUFBI,X MSG BK -SAVE CURRENT MOUNTING MESSAGE | 12000551 |
| 22* | 001474.00 | 001473.71 80 | | LVE,\$12,X24A2+.32 -GET CURRENT MESSAGE LOCATION | 12000552 |
| 23* | 001474.40 | 001773.00 80 000000.02 AC | X24 A 3 | TI,1,X MSG,C.0(\$12) -REPLACE MSG PREFIX | 12000553 |
| 24* | 001475.40 | 001774.00 80 000011.02 AC | | TI,1,X MSG CR,9.0(\$12) -INSERT CARRIAGE RETURN | 12000554 |
| 25* | 001476.40 | C00012.31 05 | | V+I,\$12,10.0 | 12000555 |
| 26* | 001477.00 | 001473.71 D0 | | SVA,\$12,X24A2+.32 -NEXT AVAILABLE MESSAGE SLOT | 12000556 |
| 27* | 001477.40 | 004575.50 00 | | B,TP3 | 12000557 |
| 28* | | | | - ***** | 12000558 |
| 29* | | | | -**** TO MOVE **** | 12000559 |
| 30* | | | | - ***** | 12000560 |
| 31* | | | | - | 12000561 |
| 32* | 001500.00 | 000024.34 30 | X25 | LV,\$14,\$4 -GET THE BASE OF AREA CONTAINING | 12000562 |
| 33* | | | | -ICD | 12000563 |
| 34* | | | | -TABLES | 12000564 |
| 35* | 001500.40 | 000001.35 05 | | V+I,\$14,1.0 -ADVANCE TO ALPHA +1.0 | 12000565 |
| 36* | 001501.00 * | 001503.37 01 | X25 1 | LVI,\$15,X25 3 -ENTER MOVE LINKAGE PARAMETER | 12000566 |
| 37* | 001501.40 | 001503.35 D0 | | SVA,\$14,X25 3 -INITIAL ENTRY WITH NEGATIVE VF | 12000567 |
| 38* | | | | -IN X25 3 | 12000568 |
| 39* | 001502.00 | 005014.10 00 | X25 2 | B,TMOVE | 12000569 |
| 40* | 001503.00 | 000001.00- 110 000000 000000 | X25 3 | XW,-1.0,0,0,6 -ICD TABLE LOCATION/EXIT DISP/ | 12000570 |
| 41* | | | | -ENTRY DISP/BYPASS/MCP | 12000571 |
| 42* | 001504.00 | 001503.00 10 | | LX,\$0,X25 3 -SET UP TO TEST ERROR | 12000572 |
| 43* | 001504.40 | 000551.00 80 | X ERR 25 | SIC,X ERR AD | 12000573 |
| 44* | 001505.00 | 000133.30 40 | | BZXCZ,X ERROR -IF MOVE ERROR | 12000573 |
| 45* | 001505.40 | 000017.35 05 | | V+I,\$14,15.0 -ADVANCE TO NEXT TABLE | 12000574 |
| 46* | 001506.00 | 000027.34 90 | | KV,\$14,\$7 -TEST CURRENT TABLE ADDRESS | 12000575 |
| 47* | 001506.40 | 001503.35 30 | | SV,\$14,X25 3 | 12000576 |
| 48* | 001507.00 | 001502.32 42 | | BXL,X25 2 -IF PROCESSED LAST TABLE | 12000577 |

| LINE | LOCATICN | BINARY CUTPUT | NAME | STATEMENT | LOCATION | | |
|------|-------------|---------------|--------------|---|--|-----------------------------|----------|
| 1* | | | | ----- | 12000579 | | |
| 2* | | | | -COMPUTE BASE OF MCP AND MCP IO LOCATION TABLE AND RELOCATION | 12000580 | | |
| 3* | | | | ----- | 12000581 | | |
| 4* | | | | - | 12000582 | | |
| 5* | 001507.4C | 002162.4C 80 | 022027.20 50 | X26 1 L(BU,18),SMARK,46 | -UPPER BOUND OF TABLES PREP BY IO ASSIGN | 12000583 | |
| 6* | 001510.4C | 002155.00 80 | 022027.30 10 | | -LESS LOWER BOUND | 12000584 | |
| 7* | 001511.40 | 000011.26 50 | | LC,\$11,\$R | -SIZE OF TABLE | 12000585 | |
| 8* | 001512.00 | 002152.00 80 | 022027.20 50 | X26 2 L(BU,18),S X CHAN,46 | -BASE OF CST | 12000586 | |
| 9* | 001513.00 | 000033.34 80 | 022027.30 10 | | -LESS SIZE OF ASSIGNMENT TABLES | 12000587 | |
| 10* | 001514.00 | 000011.30 30 | | X26 3 LV,\$12,\$R | -BASE OF MCP | 12000588 | |
| 11* | 001514.40 * | 002150.31 30 | | X26 4 SV,\$12,SMCP | -SAVE BASE OF MCP IN COM REGION | 12000589 | |
| 12* | 001515.00 | 002153.31 30 | | X26 5 SV,\$12,SBAMCP | -SAVE BASE OF MCP IO LOCATION TABLE | 12000590 | |
| 13* | 001515.40 | 002155.00 80 | 022027.30 10 | | -(BU,18),S LR BU,46 | -BIAS FACTOR FOR RELOCATION | 12000591 |
| 14* | | | | - | | 12000592 | |
| 15* | | | | ----- | 12000593 | | |
| 16* | | | | -TEST FOR CORRECT SIZE OF PROSA | 12000594 | | |
| 17* | | | | ----- | 12000595 | | |
| 18* | 001516.40 | 002157.00 30 | | LV,\$0,S DK MCP | -GET COUNT OF PROSA ARCS | 12000596 | |
| 19* | 001517.00 | 000621.40 90 | | KV,\$0,X UPDAT | -TEST AGAINST COUNT OF | 12000597 | |
| 20* | | | | | -PROSA RECORDS ON TAPE | 12000598 | |
| 21* | 001517.40 | 000551.00 80 | | XERR 26 SIC,X ERR AD | | 12000599 | |
| 22* | 001520.00 | 000133.32 00 | | BZXE,X ERROR-IF PROSA ARC COUNT EQUALS | | 12000599 | |
| 23* | | | | | -ARCS ASSIGNED | 12000600 | |
| 24* | 001520.40 | 000007.01 05 | | V+I,\$0,(8)7.0 | -ROUND TO NUMBER OF TRACKS | 12000601 | |
| 25* | 001521.00 | 000020.17 80 | 003000.00 F0 | CMOC00(BU,3),\$0+.15 | | 12000602 | |
| 26* | 001522.00 | 002157.01 30 | | SV,\$0,S DK MCP | -SAVE TRACK ADDRESS | 12000603 | |
| 27* | 001522.40 | 002157.41 30 | | SV,\$0,S SYRFT | -SAVE TRACK ADDRESS | 12000604 | |
| 28* | | | | - | | 12000605 | |
| 29* | | | | ----- | 12000606 | | |
| 30* | | | | -COMPUTE SIZE OF MCP IO LOCATION TABLE | 12000607 | | |
| 31* | | | | ----- | 12000608 | | |
| 32* | | | | - | 12000609 | | |
| 33* | 001523.00 | 000034.00 80 | 022000.06 70 | X28 LF(BU,18),\$12 | -ENTER BASE OF MCP | 12000610 | |
| 34* | 001524.00 | 002155.70 50 | | LC,\$12,S MAX RN | -GET SIZED IO LOCATION TABLE | 12000611 | |
| 35* | 001524.40 | 002155.30 30 | | LV,\$12,S LR BU | -GET LOCATION OF IO LOCATION TABLE | 12000612 | |
| 36* | 001525.00 | 000001.31 00 | | C+I,\$12,1.0 | -ADD ONE TO MAXIMUM REFERENCE | 12000613 | |
| 37* | | | | | -NUMBER TO GET TABLE SIZE | 12000614 | |
| 38* | | | | - | | 12000615 | |
| 39* | | | | ----- | 12000616 | | |
| 40* | | | | -BEGIN RELOCATION | 12000617 | | |
| 41* | | | | -*FILE AREA ACTUATED ENTRY | 12000618 | | |
| 42* | | | | ----- | 12000619 | | |
| 43* | 001525.40 | 001551.71 4A | | X29 CBZ+,\$12,X31 2 | -GET THE CURRENT FAT ADDRESS FROM | 12000620 | |
| 44* | | | | | -IO LOCATION TABLE | 12000621 | |
| 45* | 001526.00 | 000000.26 3C | | LV,\$11,0.0(\$12) | -GET UAT ADDRESS | 12000622 | |
| 46* | 001526.40 | 001525.71 42 | | BXVZ,X29 | - IF ZERC TABLE ELEMENT | 12000623 | |
| 47* | 001527.00 | 000003.00 8B | 022000.23 10 | X29 2 KF(BU,18),3.0(\$11) | | 12000624 | |
| 48* | 001530.00 * | 001547.36 42 | | BAL,X 31 | | 12000625 | |
| 49* | 001530.40 | 000003.00 8B | 022027.22 90 | M+MG(BU,18),3.0(\$11),46 | -BIAS FAT LAST ACTIVATED ENTRY | 12000626 | |
| 50* | 001531.40 | 000010.22 1B | | X29 5 LX,\$9,8.0(\$11) | -GET UAT REEL ENTRIES | 12000627 | |
| 51* | 001532.00 | 001537.71 42 | | BXVZ,X304 | -IF TAPE * NO TO BIAS UAT | 12000628 | |
| 52* | | | | | -ADDRESS IN CST OR UST | 12000629 | |
| 53* | | | | | -YES* | 12000630 | |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------|---|----------|
| 1* | | | | -***** | 12000632 |
| 2* | | | | -RELOCATION | 12000633 |
| 3* | | | | -FIRST NEXT AND CURRENT REEL ADDRESSES | 12000634 |
| 4* | | | | -***** | 12000635 |
| 5* | | | | - | 12000636 |
| 6* | 001532.40 | CCCC00.24 39 | X30 | LV,\$10,C.0(\$9) -GET NEXT REEL ADDR ENTRY | 12000637 |
| 7* | 001533.00 | 001535.71 42 | X30 1 | BXVZ,X30 3 -IF NEXT REEL ADDRESS ZERO | 12000638 |
| 8* | 001533.40 | CCCC00.00 89 | X30 2 | M+MG(BU,18),C.0(\$9) -BIAS NEXT REEL ADDRESS ENTRY | 12000639 |
| 9* | 001534.40 | CCCC00.22 3A | | LV,\$9,0.0(\$10) -SET UP FOR NEXT BIASING | 12000640 |
| 10* | 001535.00 | 001532.50 00 | | B,X30 -MORE BIASING TO BE DONE | 12000641 |
| 11* | 001535.40 | CCCC10.00 8B | X30 3 | M+MG(BU,18),8.0(\$11),46 -BIAS FIRST REEL ADDR ENTRY | 12000642 |
| 12* | 001536.40 | CCCC10.40 8B | | M+MG(BU,18),8.32(\$11),46 -BIAS CURRENT REEL ADDR ENTRY | 12000643 |
| 13* | | | | - | 12000644 |
| 14* | | | | -***** | 12000645 |
| 15* | | | | -RELOCATION AND TRANSFER OF TABLES | 12000646 |
| 16* | | | | -FILE AND UNIT AREA TABLE ADDRESS | 12000647 |
| 17* | | | | -***** | 12000648 |
| 18* | | | | - | 12000649 |
| 19* | | | | -BIAS UAT ADDRESS IN CST OR UST | 12000650 |
| 20* | | | | - | 12000651 |
| 21* | 001537.40 | CCCC33.32 30 | X30 4 | LV,\$13,\$11 -GET COPY OF UAT ADDRESS | 12000652 |
| 22* | 001540.00 | CCCC00.34 3D | | LV,\$14,C.0(\$13) -GET CHANNEL | 12000653 |
| 23* | 001540.40 | CCCC36.34 80 | | V+,\$14,\$14 -DOUBLE IT | 12000654 |
| 24* | 001541.00 | 002152.34 80 | | V+,\$14,SXCHAN -GET CST ENTRY | 12000655 |
| 25* | 001541.40 | CCCC00.33 8E | X30 5 | BB,.27(\$14),X30 6 -IF MULTI UNIT CHANNEL | 12000656 |
| 26* | 001542.40 | CCCC00.00 8E | X30 5 A | M+MG(BU,18),0.0(\$14),46 -FORM BIASED UAT ADDRESS | 12000657 |
| 27* | 001543.40 * | 001547.10 00 | | B,X31 -GO TO BIAS IO LOC TABLE | 12000658 |
| 28* | 001544.00 | CCCC00.34 3E | X30 6 | LV,\$14,C.0(\$14) -GET BASE OF UST | 12000659 |
| 29* | 001544.40 | CCCC00.74 8D | | V+,\$14,.32(\$13) -GET UST ENTRY | 12000660 |
| 30* | 001545.00 | CCCC00.00 8E | | KF(BU,18),0.0(\$14) | 12000661 |
| 31* | 001546.00 | 001547.36 42 | | BAL,X31 -IF NO BIASING | 12000662 |
| 32* | 001546.40 | 001542.50 00 | | B,X30 5 A -GO TO BIAS UAT | 12000663 |
| 33* | 001547.00 | CCCC00.00 8C | X31 | M+MG(BU,18),0.0(\$12),46 -BIAS UAT | 12000664 |
| 34* | 001550.00 | CCCC00.40 8C | | M+MG(BU,18),.32(\$12),46 -BIAS FAT | 12000665 |
| 35* | 001551.00 | 001525.50 00 | X31 1 | B,X29 -PROCESS NEXT IO LOCATION TBL ENTRY | 12000666 |
| 36* | 001551.40 | 002150.34 30 | X31 2 | LV,\$14,S MCP -GET BASE OF MCP | 12000667 |
| 37* | 001552.00 | 002155.32 30 | | LV,\$13,S LR BU -GET BASE OF DEBIASED TABLES | 12000668 |
| 38* | 001552.40 | CCCC00.00 8D | | T,\$11,C.0(\$13),0.0(\$14) -MOVE THE RELOCATED TABLES TO MCP AREA | 12000669 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|------------|---|----------|
| 1* | | | | ----- | 12000671 |
| 2* | | | | -MCP IPL REJECT REPORT | 12000672 |
| 3* | | | | ----- | 12000673 |
| 4* | | | | - | 12000674 |
| 5* | 001553.4C | 002156.36 30 | X REJ 1 | LV,\$15,SYGOCH -GET CONSOLE CHANNEL NUMBER | 12000675 |
| 6* | 001554.00 | 001034.36 80 001564.34 00 | | BZB,X LR IN+.30,X MODE 1 - IF JOBS ARE TO BE REJECTED | 12000676 |
| 7* | 001555.00 | 001035.44 80 004000.31 70 | | CT1100(BU,4),X LR IN+1.36 | 12000677 |
| 8* | 001556.00 | 001557.74 C0 | | BZRZ,XREJ2 | 12000678 |
| 9* | 001556.40 * | 001035.44 80 004000.00 F0 | | CMOCOC(BU,4),X LR IN+1.36 | 12000679 |
| 10* | 001557.40 | 001035.50 80 004000.31 70 | XREJ2 | CT1100(BU,4),X LR IN+1.40 | 12000680 |
| 11* | 001560.40 | 001562.34 C0 | | BZRZ,XREJ3 | 12000681 |
| 12* | 001561.00 | 001035.50 80 004000.00 F0 | | CMOCOC(BU,4),X LR IN+1.40 | 12000682 |
| 13* | 001562.00 | 001035.44 80 010400.24 30 | XREJ3 | LCV(DU,8,4),X LR IN+1.36 -CONVERT NUMBER OF JOBS REJECTED | 12000683 |
| 14* | 001563.00 | 002161.40 80 022000.20 D0 | | ST(BU,18),SREJ JB -SAVE COUNT | 12000684 |
| 15* | | | | ----- | 12000685 |
| 16* | | | | -MCP MODE REPORT | 12000686 |
| 17* | | | | ----- | 12000687 |
| 18* | | | | - | 12000688 |
| 19* | 001564.00 | 001034.37 80 001601.34 00 | X MODE1 | BZB,X LR IN+.31,X 32 - IF NON-INSTALLATION MCP MODE | 12000689 |
| 20* | 001565.00 | 001035.62 80 002000.06 70 | | LF(BU,2),X LRIN+1.50 | 12000690 |
| 21* | 001566.00 | 400000.00 80 402000.23 10 | | KFI(BU,2),(2)10 | 12000691 |
| 22* | 001567.00 | 001601.37 42 | | BAH,X32 | 12000692 |
| 23* | 001567.40 | 002151.10 80 002000.20 D0 | | ST(BU,2),S COM RG+.8 - ENTER MODE IN COM REG | 12000693 |
| 24* | 001570.40 | 002151.11 80 001661.74 02 | X MODE 3 | BB,S COM RG+.9,X36 -IF OFFLINE MODE | 12000694 |
| 25* | 001571.40 | 002151.10 80 001617.34 02 | | BB,S COM RG+.8,X33AA -NO*IF BYPASS | 12000695 |
| 26* | 001572.40 * | 001647.50 00 | | B,X35 -OVERLAPPED MODE ON LINE | 12000696 |
| 27* | 001573.00 | 001037.00+ 100 000003 001574 | X MD CW | CW,X ZEROS,3,X MD CW1(.25)1 | 12000697 |
| 28* | 001574.00 | 001575.00+ 000 000004 000000 | X MD CW1 | CW,X MODE,X MODE K -CW USED TO REQUEST OPERATING | 12000698 |
| 29* | | | | -MODE | 12000699 |
| 30* | | | | CNOP | 12000700 |
| 31* | 001575.00 | | 375 X MODE | DD(BU,8),(2)1111 1101 -CONTRCL CODE CARRIAGE RETURN | 12000701 |
| 32* | 001575.10 | | | (IQS*)DD(BU,64,8), SPECIFY MCP OPERATING MODE * | 12000702 |
| 33* | 001600.50 | | 375 | DD(BU,8),(2) 1111 1101 -CARRIAGE RETURN | 12000703 |
| 34* | 001600.60 | | 376 | DD(BU,8),(2) 1111 1110 -END OF MSG | 12000704 |
| 35* | | | | CNOP | 12000705 |
| 36* | 000004.00+ | -00000000 BU,10 ,10 | X MODE K | SYN,\$-X MODE -SIZE OF MSG | 12000706 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
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| 1* | | | | | ***** | 12000708 |
| 2* | | | | - FROM MCPP CARD DETERMINE INSTALLATION MCP OPERATING MODE | | 12000709 |
| 3* | | | | | ***** | 12000710 |
| 4* | | | | | | 12000711 |
| 5* | 001601.CC | 000027.10 | 30 | X32 | LV,\$4,\$7 | 12000712 |
| 6* | 001601.4C | 000001.54 | 84 | | CTOC00(V+I)(BU,8),+1.44(\$4) -ADVANCE TO CARD TYPE FIELD | 12000713 |
| 7* | 001602.40 | 000000.60 | 84 | | L(V+I)(BU,48),.48(\$4) -ENTER CARD TYPE FIELD | 12000714 |
| 8* | 001603.4C | 001747.CC | 80 | | KF(BU,48),X MCPP | 12000715 |
| 9* | 001604.4C | 000551.CC | 80 | X32 2 | SIC,X ERR AD | 12000716 |
| 10* | 001605.CC | 000133.36 | C0 | | BZAE,X ERROR - IF MCPP CARD | 12000716 |
| 11* | 001605.40 * | 000000.00 | 84 | X32 3 | L(BU,24),0.0(\$4) -GET MCP INSTALATION MODE FIELD | 12000717 |
| 12* | 001606.4C | 002144.CC | 80 | | KF(BU,24),X ONOV | 12000718 |
| 13* | 001607.4C | 001647.76 | C2 | | BAE,X35 -IF ON LINE OVERLAPPED | 12000719 |
| 14* | 001610.00 | 002145.00 | 80 | | KF(BU,24),X OFOV | 12000720 |
| 15* | 001611.00 | 001614.36 | C2 | | BAE,X 32 3 B -IF OFF LINE OVERLAPPED | 12000721 |
| 16* | 001611.4C | 002146.CC | 80 | | KF(BU,24),X BYPS | 12000722 |
| 17* | 001612.4C | 001615.36 | C2 | | BAE,X32 3C - IF BYPASS | 12000723 |
| 18* | 001613.00 | 000551.00 | 80 | X32 3 A | SIC,X ERR AD | 12000724 |
| 19* | 001613.40 | 000133.10 | 00 | | B,X ERRCR -INCORRECT MODE ENTRY | 12000724 |
| 20* | | | | | -MODE CODES FOR S COM RG | 12000725 |
| 21* | | | | | - OVERLAPPED ON LINE 0C | 12000726 |
| 22* | | | | | - OVERLAPPED OFF LINE 01 | 12000727 |
| 23* | | | | | - BYPASS OFF LINE 10 | 12000728 |
| 24* | 001614.00 | 002151.11 | 80 | X32 3B | HZB1,S COM RG+.9,X36 -MODE CODE TO 01 | 12000729 |
| 25* | 001615.00 | 002151.10 | 80 | X32 3C | CM1111(BU,1),S COM RG+.8 -MODE CODE TO 10 | 12000730 |
| 26* | | | | | | 12000731 |
| 27* | | | | | ***** | 12000732 |
| 28* | | | | | -IF BYPASS MODE DELETE SPOOL INPUT TAPE MESSAGES | 12000733 |
| 29* | | | | | -AND UNASSIGN THE UNITS | 12000734 |
| 30* | | | | | ***** | 12000735 |
| 31* | | | | | | 12000736 |
| 32* | 001616.00 | 002151.10 | 80 | X33 | BZB,S COM RG+.8,X35A -IF BYPASS | 12000737 |
| 33* | 001617.00 | 000002.01 | 02 | X33 A A | LCI,\$0,2 -YES*SET UP TO DELETE 2 MSG | 12000738 |
| 34* | 001617.40 | 002153.74 | 30 | X 33 1 | LV,\$14,S R TAPE -BYPASS GET SPOOL REAL TYPE IOO NUMBER | 12000739 |
| 35* | 001620.CC | 002153.34 | 80 | X33 1 A | V+,\$14,S BA MCP -SPOOL TAPE ENTRY IN IO LOC TABLE | 12000740 |
| 36* | 001620.4C | 000000.30 | 1E | X33 2 | LX,\$12,C.0(\$14) -GET UAT ADD FOR DELET OF MOUNT MSG | 12000741 |
| 37* | 001621.00 | 000000.34 | 1E | | LX,\$14,0.0(\$14) -GET UAT ADDRESS IN DUPLICATE | 12000742 |
| 38* | 001621.40 * | 000000.32 | 1E | | LX,\$13,0.0(\$14) -GET CHANNEL NUMBER | 12000743 |
| 39* | 001622.00 | 000035.32 | 80 | | V+,\$13,\$13 -DOUBLE CHANNEL = | 12000744 |
| 40* | 001622.4C | 000000.74 | 3E | | LV,\$14,.32(\$14) -GET UNIT NUMBER | 12000745 |
| 41* | 001623.00 | 002152.32 | 80 | | V+,\$13,S X CHAN -CST ENTRY | 12000746 |
| 42* | 001623.40 | 000000.32 | 3D | X33 4 | LV,\$13,C.0(\$13) -GET UST ENTRY | 12000747 |
| 43* | 001624.00 | 000036.32 | 80 | | V+,\$13,\$14 -UST ENTRY | 12000748 |
| 44* | 001624.40 | 000000.35 | 8D | X33 5 | CM1111(BU,1),.29(\$13) -ASSIGNED BIT OFF | 12000749 |
| 45* | 001625.40 | 000000.40 | 8D | | CM000(BU,1),.32(\$13) -OWNERSHIP BIT OFF | 12000750 |
| 46* | 001626.40 | 000000.63 | 8D | | CM000(BU,1),.51(\$13) -MOUNT BIT OFF | 12000751 |
| 47* | 001627.40 | 000000.65 | 8D | | CM000(BU,1),.53(\$13) -SI MMT OFF | 12000752 |
| 48* | 001630.4C | 000000.32 | 8D | | CM000(BU,1),.26(\$13) -STATI OFF | 12000753 |
| 49* | 001631.40 | 000000.33 | 8D | | CM1111(BU,1),.27(\$13) -DISP TO 1 | 12000754 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------------------|---|----------|
| 1* | | | | | ***** | 12000756 |
| 2* | | | | | -MESSAGE DELETION PROCESS CONTINUED | 12000757 |
| 3* | | | | | ***** | 12000758 |
| 4* | 001632.40 | 000000.32 | 1C | X34 | LX,\$13,0.0(\$12) -GET CHANNEL = | 12000759 |
| 5* | 001633.00 | 000035.32 | 80 | | V+,\$13,\$13 -DOUBLE IT | 12000760 |
| 6* | 001633.40 | 000035.00 | 80 | 022000.20 30 | LCV(BU,18),\$13 -CONVERT CHANNEL TO DECIMAL | 12000761 |
| 7* | 001634.40 | 002000.31 | 01 | | LVI,\$12,X MSG BK -INITIALIZE FOR MESSAGE BLOCK | 12000762 |
| 8* | 001635.00 * | 000006.33 | 8C | 004000.23 10 X34 1 | KF(BU,4),6.27(\$12) | 12000763 |
| 9* | | | | | -BIT POSITIONS 4,5,6,AND 7 OF LOW ORDER 8 BIT CHANNEL DIGIT TES | 12000764 |
| 10* | 001636.00 | 001644.36 | 00 | | BZAE,X34 2 -IF TESTS SHOULD CONTINUE | 12000765 |
| 11* | 001636.40 | 000006.23 | 8C | 004002.23 10 | KF(BU,4),6.19(\$12),4 -YES | 12000766 |
| 12* | | | | | -BIT POSITIONS 4,5,6,AND 7 OF 8 BIT TENS DIGIT CHANNEL CODE TES | 12000767 |
| 13* | 001637.40 | 001644.36 | 00 | | BZAE,X34 2 -IF TEST SHOULD CONTINUE | 12000768 |
| 14* | 001640.00 | 000011.35 | 30 | | SV,\$14,\$R -GET UNIT NUMBER | 12000769 |
| 15* | 001640.40 | 000007.23 | 8C | 004027.23 10 | KF(BU,4),7.19(\$12),46 | 12000770 |
| 16* | | | | | -BIT POSITIONS 4,5,6 AND 7 OF 8 BIT UNIT NUMBER CODE | 12000771 |
| 17* | 001641.40 | 001644.36 | 00 | | BZAE,X34 2 -IF CHANNEL FOR WHICH SEARCHED | 12000772 |
| 18* | 001642.00 | 000000.22 | 00 | | Z,0.0(\$12) -CLEAR FIRST WORD OF MESSAGE AS MARKER | 12000773 |
| 19* | | | | | -FOR LATER SKIPPING OF MSG | 12000774 |
| 20* | 001642.40 | 001647.40 | 4A | | CBZ,\$0,X35 -IF FOUND TWO MESSAGE | 12000775 |
| 21* | 001643.00 | 002154.34 | 10 | | LX,\$14,S W TAPE -NO* GET F | 12000776 |
| 22* | 001643.40 | 001620.10 | 00 | X34 1 A | B,X33 1A -FIND SECCND MESSAGE | 12000777 |
| 23* | 001644.00 | 000012.31 | 05 | X34 2 | V+I,\$12,10.0 -ADVANCE TO NEXT MESSAGE | 12000778 |
| 24* | 001644.40 | 001473.40 | 80 | 022027.06 70 | LF(BU,18),X24 A2+.32,46 -GET NEXT ADDRESS AVAILABLE | 12000779 |
| 25* | | | | | -IN MSG BUFFER | 12000780 |
| 26* | 001645.40 | 000011.30 | 90 | | KV,\$12,\$R | 12000781 |
| 27* | 001646.00 | 001635.32 | 42 | | BXL,X34 1 -IF EXHAUSTED ALL MSG | 12000782 |
| 28* | 001646.40 | 000551.00 | 80 | XERR 29 | SIC,XERRAD | 12000783 |
| 29* | 001647.00 | 000133.10 | 00 | | B,XERROR -BOTH MESSAGES NOT FOUND | 12000783 |
| 30* | | | | | | 12000784 |
| 31* | | | | | ***** | 12000785 |
| 32* | | | | | -BUILD MSG SPECIFYING INPUT CHANNEL FOR | 12000786 |
| 33* | | | | | -SPCOL BYPASS AND ON LINE OVERLAPPED READER | 12000787 |
| 34* | | | | | ***** | 12000788 |
| 35* | | | | | | 12000789 |
| 36* | 001647.40 | 002154.74 | 30 | X35 | LV,\$14,S READ R -GET SPOOL CARD READER IODR F | 12000790 |
| 37* | 001650.00 | 002153.34 | 80 | | V+,\$14,S BA MCP -SPOOL READER FILE ENTRY IN IO LOCATION | 12000791 |
| 38* | 001650.40 * | 000000.34 | 1E | X35 1 | LX,\$14,0.0(\$14) -GET UAT | 12000792 |
| 39* | 001651.00 | 000000.34 | 1E | | LX,\$14,0.0(\$14) -GET CHANNEL NUMBER | 12000793 |
| 40* | 001651.40 | 000036.34 | 80 | | V+,\$14,\$14 -DOUBLE IT | 12000794 |
| 41* | 001652.00 | 000036.00 | 80 | 022000.20 30 | LCV(BU,18),\$14 -CONVERT TO DECIMAL | 12000795 |
| 42* | 001653.00 | 001771.53 | 80 | 004402.22 90 X35 3 | M+MG(BU,4,4),X RDR CR+.3,4-ADD CHANNEL TO MSG IN IQS | 12000796 |
| 43* | 001654.00 | 001771.63 | 80 | 004400.22 90 | M+MG(BU,4,4),X RDR CR+.8+.3 -ADD CHANNEL TO MSG IN IQS | 12000797 |
| 44* | 001655.00 | 001473.75 | 80 | | LVE,\$14,X 24 A2 +.32 -GET CURRENT MESS BLOCK LOCATION | 12000798 |
| 45* | | | | | -UNITS POSITION | 12000799 |
| 46* | 001655.40 | 001765.00 | 80 | 000000.24 AE | TI,\$10,X RDR MG,0.0(\$14) -MOVE MSG TO MSG BLOCCK | 12000800 |
| 47* | 001656.40 | 000012.35 | 05 | | V+I,\$14,10.0 -ADVANCE TO NEXT AVAILABLE MESSAGE BLOCCK | 12000801 |
| 48* | 001657.00 | 001473.75 | 00 | | SVA,\$14,X24 A2 +.32 -SAVE MESS BLOCCK LOC | 12000802 |
| 49* | 001657.40 | 001666.50 | 00 | | B,X37 | 12000803 |
| 50* | | | | | ***** | 12000804 |
| 51* | 001660.00 | 002151.11 | 80 | 001661.74 02 X35 A | BB,S CCM RG+.9,X36 -IF OVERLAPPED ON LINE | 12000805 |
| 52* | 001661.00 | 001647.50 | 00 | | B,X35 -YES*SPECIFY READER CHANNEL | 12000806 |
| 53* | 001666.40+ | +00000000 | | BU,40 ,10 X37A | SYN,X37 | 12000807 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------------------|--|----------|
| 1* | | | | -***** | 12000809 |
| 2* | | | | -OFFLINE OVERLAPPED * UNASSIGN SPOOL READER | 12000810 |
| 3* | | | | -***** | 12000811 |
| 4* | | | | - | 12000812 |
| 5* | 001661.4C | 002154.74 30 | X36 | LV,\$14,S READ R -GET SPOOL READER IOP REFERENCE NUMBERS | 12000813 |
| 6* | 001662.00 | 002153.34 80 | | V+,\$14,S BA MCP -SPOOL READ ENTRY IN IC LOCATION TABLE | 12000814 |
| 7* | 001662.40 | 000000.34 1E | | LX,\$14,C.0(\$14) -GET UAT | 12000815 |
| 8* | 001663.00 | 000000.34 1E | X36 3 | LX,\$14,C.0(\$14) -GET CHANNEL NUMBER | 12000816 |
| 9* | 001663.40 | 000036.34 80 | | V+,\$14,\$14 -DOUBLE IT | 12000817 |
| 10* | 001664.00 * | 002152.34 80 | | V+,\$14,S X CHAN -GET CST ENTRY | 12000818 |
| 11* | 001664.40 | 000000.35 8E | 001000.36 FO X36 4 | CM1111(BU,1),.29(\$14) -UNIT STATUS TO NOT ASSIGNED | 12000819 |
| 12* | 001665.40 | 000000.40 8E | 001000.00 FO | CM0000(BU,1),.32(\$14) -OWNERSHIP STATUS TO PP | 12000820 |
| 13* | | | | | 12000821 |
| 14* | | | | | 12000822 |
| 15* | | | | -***** | 12000823 |
| 16* | | | | - | 12000824 |
| 17* | 001666.40 | 002160.72 30 | X37 | LV,\$13,S PR OUT -SAVED RETURN ADDRESS FOR PRIME | 12000825 |
| 18* | 001667.00 | 002160.30 30 | | LV,\$12,S PR IN -ENTRY TO PRIME ROUTINE | 12000826 |
| 19* | 001667.40 | 002151.10 80 | 001707.34 02 X37 1 | BB,S COM RG+.8,X371B -IF BYPS | 12000827 |
| 20* | 001670.40 | 002151.11 80 | 001706.34 02 | BB,S COM RG+.9,X371A -NO * IF ON LINE MODE | 12000828 |
| 21* | 001671.40 | 001761.35 01 | X37 4 | LVI,\$14,X ON LIN -ON LINE | 12000829 |
| 22* | 001672.00 | 001677.70 00 | XVSWCH | NOP,XVNCGO | 12000830 |
| 23* | 001672.40 | 001677.35 00 | | SVA,\$14,XVPRIM | 12000831 |
| 24* | 001673.00 | 001241.35 01 | | LVI,\$14,XVCLOK | 12000832 |
| 25* | 001673.40 | 000000.00 8D | | SIC,0.0(\$13) | 12000833 |
| 26* | 001674.00 | 000000.04 0C | | BD,C.0(\$12) | 12000833 |
| 27* | 001674.40 | 000120.00 80 | | ,S COMD | 12000834 |
| 28* | 001675.00 | 000004.00 80 | | ,4.C | 12000834 |
| 29* | 001675.40 | 000000.00 8E | | ,0.C(\$14) | 12000834 |
| 30* | 001676.00 | 000034.00 80 | | ,28.0 | 12000835 |
| 31* | 001676.40 | 000000.00 80 | | ,0.C | 12000835 |
| 32* | 001677.00 | 001677.35 01 | XVPRIM | LVI,\$14,\$ | 12000836 |
| 33* | 001677.40 * | 001672.23 80 | 001700.74 0C XVNGGO | BZB1,XVSWCH.19,X374A | 12000837 |
| 34* | 001700.40 | 000000.00 8D | X37 4 A | SIC,0.C(\$13) | 12000838 |
| 35* | 001701.00 | 000000.04 0C | | BD,C.0(\$12) -PRIME SYSTEM COMMAND ROUTINE | 12000838 |
| 36* | 001701.40 | 000120.00 80 | | ,S COMD | 12000839 |
| 37* | 001702.00 | 000004.00 80 | | ,4.C -IPL INDICATOR AS SENDER OF COMMAND | 12000840 |
| 38* | 001702.40 | 000000.00 8E | | ,0.C(\$14) -LOCATION OF COMMAND IN BCD | 12000841 |
| 39* | 001703.00 | 000014.00 80 | | ,12.0 | 12000842 |
| 40* | 001703.40 | 000000.00 80 | | ,0.0 -ERROR RETURN | 12000843 |
| 41* | 001704.00 | 000000.00 8D | X37 6 | SIC,0.0(\$13) | 12000844 |
| 42* | 001704.40 | 000000.04 0C | | BD,C.0(\$12) -PRIME JOB CONTROL 4 | 12000844 |
| 43* | 001705.00 | 000116.40 80 | | ,SJC4 | 12000845 |
| 44* | 001705.40 | 001710.10 00 | | B,X37 7 | 12000846 |
| 45* | 001706.00 | 001763.35 01 | X37 1A | LVI,\$14,X OF LIN -OFF LINE | 12000847 |
| 46* | 001706.40 | 001672.10 00 | | B,XVSWCH | 12000848 |
| 47* | 001707.00 | 001757.35 01 | X37 1 B | LVI,\$14,X BYPAS - PRIME SYSTEM COMM FOR BYPASS MODE | 12000849 |
| 48* | 001707.40 | 001672.10 00 | | B,XVSWCH | 12000850 |
| 49* | 001710.00 | 002163.34 30 | X37 7 | LV,\$14,S IA -GET \$IA | 12000851 |
| 50* | 001710.40 | 000002.35 30 | | SV,\$14,\$IA | 12000852 |
| 51* | 001711.00 | 001777.42 60 | | LWF(U),X BOUND -GET MCP BOUNDS | 12000853 |
| 52* | 001711.40 | 000003.00 80 | 000040.20 00 | ST(BU),\$UB,64 | 12000854 |
| 53* | 001712.40 * | 001034.34 80 | 001726.34 02 | BB,X LR IN+.28,X 37 8 - BRANCH IF SUPPRESS MESSAGES | 12000855 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-------------------------------|----------|---|----------|
| 1* | | | | - ***** | 12000857 |
| 2* | | | | - PRINT CONTENTS OF X MSG BK | 12000858 |
| 3* | | | | - ***** | 12000859 |
| 4* | | | | - | 12000860 |
| 5* | 001713.40 | C01473.42 50 | | LC,\$1,X 24 A2+.32 -DRCP OUT BIAS | 12000861 |
| 6* | 001714.00 | C00021.03 50 | | SC,\$1,\$1 | 12000862 |
| 7* | 001714.40 | C02000.35 01 | X37 7A | LVI,\$14,XMSGBK -GET BASE OF MSG BLOCK | 12000863 |
| 8* | 001715.00 | C00000.00 8E 000000.07 70 | X37 7B | CT0011(BU,64),0.C(\$14) -TEST IF MSG TO BE PRINTED | 12000864 |
| 9* | 001716.00 | C01721.74 C2 | | BRZ,X37 7C | 12000865 |
| 10* | 001716.40 | C01725.35 D0 | | SVA,\$14,X MSG W2 -NO * FIX CW | 12000866 |
| 11* | 001717.00 | C02156.36 30 | | LV,\$15,S Y CO CH -GET CONSOLE CHANNEL | 12000867 |
| 12* | 001717.40 | C00000.00 8F 001724.13 00 | X 37 7C | W(SEOP),0.0(\$15),X MSG W -WRITE ONE MSG | 12000868 |
| 13* | 001720.40 | C00066.40 80 | | SIC,X7 3 | 12000869 |
| 14* | 001721.00 | C00057.50 C0 | | B,X7 1 -IO TEST | 12000869 |
| 15* | 001721.40 | C00012.35 05 | X37 7 D | V+I,\$14,10.0 -ADVANCE TO NEXT MSG | 12000870 |
| 16* | 001722.00 | C00021.34 90 | | KV,\$14,\$1 | 12000871 |
| 17* | 001722.40 | C01715.32 42 | | BXL,X377P -IF PRINTED LAST MSG | 12000871 |
| 18* | 001723.00 | C01726.10 C0 | | B,X37 8 | 12000872 |
| 19* | 001724.00 | C001037.00+ 100 000003 001725 | X MSG W | CW,X ZERDS,3,X MSG W2(.25)1 | 12000873 |
| 20* | 001725.00 | C00000.00+ 000 000012 000000 | X MSG W2 | CW,0.0,10,0 -TYPE ONE MSG | 12000874 |
| 21* | 001726.00 | C00000.35 01 | X37 8 | LVI,\$14,0.0 -GET BASE OF MCP COMMUNICATION REGION | 12000875 |
| 22* | 001726.40 * | C02151.10 80 002000.36 F0 | | CM1111(BU,2),S COM RG+.8 -SET MODE BITS TO IPL CODE | 12000876 |
| 23* | 001727.40 | C00040.22 00 | | Z,32.0 -CLEAR WORD 32.0 | 12000877 |
| 24* | 001730.00 | C02161.00 30 | | LV,\$0,S IF DMP -GET IF TRAP INSTRUCTION FROM COM RG. | 12000878 |
| 25* | 001730.40 | C00040.01 30 | | SV,\$0,32.0 -INSERT FIRST TRAP INSTRUCTION | 12000879 |
| 26* | 001731.00 | C00040.41 30 | | SV,\$0,32.32 -INSERT DUPLICATE OF IF TRAP INSTR | 12000880 |
| 27* | 001731.40 | C00000.03 01 | | LVI,\$1,0.0 | 12000881 |
| 28* | 001732.00 | C02155.43 30 | | SV,1,S MAXRN -CLEAR S MAXRN | 12000882 |
| 29* | 001732.40 | C02150.74 50 | | LC,\$14,SCOMSZ -GET SIZE OF MCP COMMUNIZIATION REGION | 12000883 |
| 30* | 001733.00 | C02150.00 80 000000.34 2E | | T,\$14,SMCP,0.0(\$14) -MOVE DUMMY COMMUNICATION REGION TO MCP | 12000884 |
| 31* | 001734.00 | C00014.25 80 001000.36 F0 | | CM1111(BU,1),\$MASK+.21 -SET IF MASK BIT ON | 12000885 |
| 32* | 001735.00 | C02152.34 10 | | LX,14,SXCHAN -GET BASE OF CST | 12000886 |
| 33* | 001735.40 | C00000.44 8E 001000.36 F0 | | CM1111(BU,1),.36(\$14) -FORCE LOCATE TO ZERO ON DISK | 12000887 |
| 34* | 001736.40 | C00040.35 05 | | V+I,14,32.0 | 12000888 |
| 35* | 001737.00 | C00040.35 08 | | C-I,14,32. | 12000889 |
| 36* | 001737.40 | C00020.37 01 | | LVI,15,16.0 | 12000890 |
| 37* | 001740.00 | C00000.31 8E 001744.34 02 | X HERE | BB,.25(\$14),X GOON | 12000891 |
| 38* | 001741.00 | C00000.64 8E 001744.34 00 | | BZB,.52(\$14),X GOON | 12000892 |
| 39* | 001742.00 * | C00000.00 8F 000000.17 00 | | LOC(SEOP),0.0(\$15),0.0 | 12000893 |
| 40* | 001743.00 | C00066.40 80 | | SIC,X7 3 | 12000894 |
| 41* | 001743.40 | C00057.50 00 | | B,X7 1 -IO TEST | 12000894 |
| 42* | 001744.00 | C00000.77 05 | X GOON | V+I,15,.32 | 12000895 |
| 43* | 001744.40 | C001740.35 48 | | CB+,14,X HERE | 12000896 |
| 44* | 001745.00 | C00040.00 00 | X37 9 | BE,32.0 | 12000897 |
| 45* | 001745.40 | C00041.00 80 | | ,DRET | 12000898 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|--|----------|
| 1* | | | | ***** | 12000900 |
| 2* | | | | -MCP IPL DEFINITIONS | 12000901 |
| 3* | | | | ***** | 12000902 |
| 4* | | | | - | 12000903 |
| 5* | 001746.00 | CC0000.00+ C00 C00000 000000 | X PRGWR | XW,C -COMPUTED DISK WRITE CW | 12000904 |
| 6* | | | | -CARDS | 12000905 |
| 7* | | | | ***** | 12000906 |
| 8* | 001747.00 | 2040410020042004 | X MCPP | DD(BU,48),(8)2040410020042004 -MCP IN HOLLERITH | 12000907 |
| 9* | 001747.60 | 4001201041004040 | X ICCD | DD(BU,48),(8)4001201041004040 -ICCD IN HOLLERITH | 12000908 |
| 10* | 001750.40 | 400120104040 | X ICD | DD(BU,36),(8)400120104040 -ICD IN HOLLERITH | 12000909 |
| 11* | | | | ***** | 12000910 |
| 12* | 001751.40 | 000000.30 00 | | CNOP -START XEGPT AT FULL WORD | 12000911 |
| 13* | | | | -BCUNDARY | 12000912 |
| 14* | 001752.00 | 00000000 | X EQP T | DD(BU,24),(8)0000 | 12000913 |
| 15* | 001752.30 | 00 | | DD(BU,4),(8)0 -NG EQUIPMENT | 12000913 |
| 16* | 001752.34 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000914 |
| 17* | 001752.35 | 00002200 | | DD(BU,24),(8)2200 | 12000915 |
| 18* | 001752.65 | 01 | | DD(BU,4),(8)1 -DISK * DK | 12000915 |
| 19* | 001752.71 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000916 |
| 20* | 001752.72 | 00002020 | | DD(BU,24),(8)2020 | 12000917 |
| 21* | 001753.22 | 02 | | DD(BU,4),(8)2 -CONSOLE *CN | 12000917 |
| 22* | 001753.26 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000918 |
| 23* | 001753.27 | 00004040 | | DD(BU,24),(8)4040 | 12000919 |
| 24* | 001753.57 | 03 | | DD(BU,4),(8)3 -READER * RD | 12000919 |
| 25* | 001753.63 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000920 |
| 26* | 001753.64 | 00001040 | | DD(BU,24),(8)1040 | 12000921 |
| 27* | 001754.14 | 04 | | DD(BU,4),(8)4 -PUNCH *PU | 12000921 |
| 28* | 001754.20 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000922 |
| 29* | 001754.21 | 00002001 | | DD(BU,24),(8)2001 | 12000923 |
| 30* | 001754.51 | 05 | | DD(BU,4),(8)5 -PRINTER * PR | 12000923 |
| 31* | 001754.55 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000924 |
| 32* | 001754.56 | 00000000 | | DD(BU,24),(8)0 | 12000925 |
| 33* | 001755.06 | 00 | | DD(BU,4),(8)0 -UNUSED | 12000925 |
| 34* | 001755.12 | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000926 |
| 35* | 001755.13 | 00000000 | | DD(BU,24),(8)0 | 12000927 |
| 36* | 001755.43 | 00 | | DD(BU,4),(8)0 -UNUSED | 12000927 |
| 37* | 001755.47 * | 0 | | DD(BU,1),0 -SINGLE UNIT CHANNEL | 12000928 |
| 38* | 001755.50 | 00002004 | | DD(BU,24),(8)2004 | 12000929 |
| 39* | 001756.00 | 10 | | DD(BU,4),(8)10 -TAPE MULTI * TP | 12000929 |
| 40* | 001756.04 | 1 | | DD(BU,1),1 -MULTI UNIT CHANNEL | 12000930 |
| 41* | | | | ***** | 12000931 |
| 42* | | | | -MCP PSEUDO OP CODES | 12000932 |
| 43* | | | | ***** | 12000933 |
| 44* | 001472.00+ | +00000000 | BU,100,10 | D MCP SYN,X24A | 12000934 |
| 45* | 000041.00+ | +00000000 | NULL | D RET SYN,33.0 | 12000935 |
| 46* | 000043.40+ | +00000000 | NULL | D COMM SYN,35.32 | 12000936 |
| 47* | 000116.40+ | +00000000 | NULL | SJC4 SYN,78.32 | 12000937 |
| 48* | 000120.00+ | +00000000 | NULL | S COMD SYN,80.0 | 12000938 |

| LINE | LCCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------|--------------------|--|----------|
| 1* | | | | ----- | 12000940 |
| 2* | | | | -SYSTEM COMMAND OPS FOR STARTING MODE | 12000941 |
| 3* | | | | ----- | 12000942 |
| 4* | 001756.40 | COCC00.30 00 | | CNOP | 12000943 |
| 5* | 001757.00 | | XBYPAS | (A*)DD(BU,,6),CMD,BYPASS * | 12000944 |
| 6* | 001760.40 | COCC00.30 00 | | CNOP | 12000945 |
| 7* | 001761.00 | | X ONLIN | (A*)DD(BU,,6),CMD,ONLINE * | 12000946 |
| 8* | 001762.40 | COCC00.30 00 | | CNOP | 12000947 |
| 9* | 001763.00 | | X OFFLIN | (A*)DD(BU,,6),CMD,OFFLINE* | 12000948 |
| 10* | | | | ----- | 12000949 |
| 11* | 001764.40 | COCC00.30 00 | | CNOP | 12000950 |
| 12* | 001765.00 | | 375 X RDR MG | DD(BU,8),(2)1111 1101 -CARRIAGE RETURN | 12000951 |
| 13* | 001765.10 | | 002 | DD(BU,8),(2)00000010 -RED\$ | 12000952 |
| 14* | 001765.20 * | | | (IQS*)DD(BU,64,8), READER IS INPUT SOURCE ON CHANNEL * | 12000953 |
| 15* | | | | -MSG SPECIFIES READER CHANNEL | 12000954 |
| 16* | 001771.50 | | 140 X RDR CR | DD(BU,8,8),(2)01100000,(2)01100000,(2)11111101,(2)11111110 | 12000955 |
| 17* | 001771.60 | | 140 | | 12000955 |
| 18* | 001771.70 | | 375 | | 12000955 |
| 19* | 001772.00 | | 376 | | 12000955 |
| 20* | | | | -DUMMY IQS SLOTS,CR,END CODE | 12000956 |
| 21* | | | | - | 12000957 |
| 22* | 001772.40 | COCC00.30 00 | | CNOP | 12000958 |
| 23* | 001773.00 | | 002 X MSG | DD(BU,8),(2)00000010 -RED \$ | 12000959 |
| 24* | 001773.10 | | | (IQSX)DD(BU,56,8),MCPIPL*X -MESSAGE PREFIX | 12000960 |
| 25* | | | | CNOP | 12000961 |
| 26* | 001774.00 | 0000000000000000176776 | X MSG CR | DD(BU,64,8),(2)1111110111111110 -MSL CR AND END RETURN | 12000962 |
| 27* | | | | ----- | 12000963 |
| 28* | | | | - **** MODIFICATION TO IOC PROCESSING ROUTINES **** | 12000964 |
| 29* | | | | ----- | 12000965 |
| 30* | 001775.00 | | 0 YTBIT | DD(BU,1),0 -FLAG USED BY THE UNCODE ROUTINE | 12000966 |
| 31* | 001775.40 | 000000.00+ | YNLST | VF - NOT USED IN UNCODE FOR IPL | 12000967 |
| 32* | 001775.40+ | +00000000 | B ,31 ,01 | YNOPUN SYN,YNLST - NOT USED IN UNCODE FOR IPL | 12000968 |
| 33* | 000000.00+ | +00000000 | NULL | S IO LOC SYN,0 | 12000969 |
| 34* | 002155.00+ | +00000000 | B ,31 ,01 | S LR BU SYN, S BA PP - SAME AS FIRST SLOT OF IO LOC TABLE | 12000970 |
| 35* | | | | ----- | 12000971 |
| 36* | 001776.00 | 000000.00+ | X ARC K | VF,C.0 -ACCUMULATED PROSA ARCS | 12000972 |
| 37* | 001776.40 | 00CC00.30 00 | | CNOP | 12000973 |
| 38* | | | | CNOP | 12000974 |
| 39* | 001777.00 | 000041.00+ | X BOUND | VF,33.0 | 12000975 |
| 40* | 001777.40 | 000040.00+ | | VF,32.0 -BOUNDS AND BOUNDARY CONTROL BIT | 12000975 |
| 41* | | | | CNOP | 12000976 |
| 42* | 002000.00 * | CO0144.00 | X MSG BK | DR(BU),(100) - MESSAGE BLOCK FOR IPL | 12000977 |
| 43* | | | | - OPERATING MODES | 12000978 |
| 44* | | | | CNOP | 12000979 |
| 45* | 002144.00 | | 20102020 X ON OV | DD(BU,24),(8)20102020 -ON IN CARD CODE | 12000980 |
| 46* | 002144.40 | COCC00.30 00 | | CNOP | 12000981 |
| 47* | 002145.00 | | 20104010 X CF OV | DD(BU,24),(8)20104010 -OF IN CARD CODE | 12000982 |
| 48* | 002145.40 | COCC00.30 00 | | CNOP | 12000983 |
| 49* | 002146.00 | | 42001002 X BYPS | DD(BU,24),(8)42001002 -BY IN CARD CODE | 12000984 |
| 50* | 002146.30 | | 202020102001 X NOR | DD(BU,36),(8)202020102001 - UPL MODE * NORMAL | 12000985 |
| 51* | 002146.74 | | 440042002020 X ABN | DD(BU,36),(8)440042002020 - IPL MODE * ABNORMAL | 12000986 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|----------|--|----------|
| 1* | | | - | ***** | 13000001 |
| 2* | | | - | ***** THE COMMUNICATION REGION FOR MCP ***** | 13000002 |
| 3* | | | - | ***** | 13000003 |
| 4* | | | - | | 13000004 |
| 5* | | | - | | 13000005 |
| 6* | 002147.40 | 000000.30 00 | | CNOP | 13000006 |
| 7* | 002150.00 | 000000.00+ | S MCP | VF,C -SLOT FOR BASE ADDRESS OF MCP | 13000007 |
| 8* | | | | | 13000008 |
| 9* | 002150.40 | 000016.00+ | S COM SZ | VF,S END CM-S MCP -SIZE OF COMMUNICATION REGION | 13000009 |
| 10* | | | | | 13000010 |
| 11* | 002151.00 | 100000.00+ 000 000000 000000 | S COM RG | XW,(8)100000.0, -THE SYSTEM WORD FLAG | 13000011 |
| 12* | | | | | 13000012 |
| 13* | 002152.00 | 000000.00+ 000 000050 000000 | S XCHAN | XW,C,40,C -BASE ADDRESS OF CHAN STATUS TABLE | 13000013 |
| 14* | 002152.34+ | +00000000 | S CHANK | SYN,SXCHAN+.28 -THE NUMBER OF CHANNELS CONNECTED | 13000014 |
| 15* | 002152.00+ | +00000000 | S CHANS | SYN,SXCHAN | 13000015 |
| 16* | | | | | 13000016 |
| 17* | 002153.00 | 000000.00+ | S RAMCP | VF,C -BASE ADDR OF THE MCP SYMB I/O LOC TAB | 13000017 |
| 18* | 002153.40 | 000001.00+ | S R TAPE | VF,1.0 -THE SPOOL READ TAPE IOD REF NO. | 13000018 |
| 19* | 002154.00 | 000002.00+ | S W TAPE | VF,2.0 -THE SPOOL WRITE TAPE IOD REF NO. | 13000019 |
| 20* | 002154.40 | 000003.00+ | S READ R | VF,3.0 -THE SPOOL READER IOD REF NO. | 13000020 |
| 21* | 002155.00 | 000000.00+ | S BA PP | VF,C -BASE ADDRESS OF PP IO LOCATION TABLE | 13000021 |
| 22* | | | | | 13000022 |
| 23* | 002155.40 | 000000.00+ | S MAXRN | VF -SMAX RN THE MAX REFERENCE NO FOR PP | 13000023 |
| 24* | | | | | 13000024 |
| 25* | 002156.00 | 000026.04+ | S YCOCH | VF,22.4 -THE CHANNEL NUMBER OF THE CONSOLE | 13000025 |
| 26* | 002156.40 | 000026.04+ | S YPRCH | VF,22.4 -THE CHANNEL NUMBER OF THE PRINTER | 13000026 |
| 27* | | | | | 13000027 |
| 28* | 002157.00 | 000000.00+ | S DKMCP | VF,C -MCP RESET TRACK FOR DISK | 13000028 |
| 29* | 002157.40 * | 000000.00+ | S SYRFT | VF,C -VARIABLE POINTER FOR PP DISK ASSIGN | 13000029 |
| 30* | | | | | 13000030 |
| 31* | 002160.00 | 002166.00+ | S PR IN | VF,S PRIME -ENTRY TO PRIME ROUTINE | 13000031 |
| 32* | 002160.40 | 002166.40+ | S PR OUT | VF,S PRIM R -SAVED ADDRESS JOE PRIME ROUTINE | 13000032 |
| 33* | | | | | 13000033 |
| 34* | 002161.00 | 000000.04 00 | S IF DMP | BD,C -INSTRUCTION FETCH TRAP INSTRUCTION | 13000034 |
| 35* | 002161.40 | 000000.00+ | S REJ JB | VF,C.0 -THE NUMBER OF JOBS TO REJECT | 13000035 |
| 36* | | | | | 13000036 |
| 37* | 002162.00 | 000000.00+ | S ROOF | VF,C - TOP OF STORAGE | 13000037 |
| 38* | 002162.40 | 000000.00+ | S MARK | VF -THE NEXT VACANT REEL SLOT FOR PP | 13000038 |
| 39* | | | | | 13000039 |
| 40* | 002163.00 | 000000.00+ | S IA | VF,0 - LOCATION OF INTERRUPT TABLE | 13000040 |
| 41* | 002163.40 | 000000.30 00 | | CNOP | 13000041 |
| 42* | 002164.00 | | S DATE | (AX)DD(BU),03/15/63X - FOR DATE OF IPL TAPE TO SPOOL | 13000042 |
| 43* | 002165.00 | | STODAY | (AX)DD(BU), / /63X -FOR DATE OF JOBS ON SPOOL TAPE | 13000043 |
| 44* | 002166.00+ | +00000000 | S END CM | SYN,\$ -END OF COMMUNICATION REGION | 13000044 |
| 45* | 002166.00+ | +00000000 | S PRIME | SYN,\$ - SAVED ADDRESS FOR PRIME ROUTINE | 13000045 |
| 46* | 002166.40+ | +00000000 | S PRIM R | SYN,\$+.32 -LOCATION OF PRIME ROUTINE | 13000046 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------|-----------------|--------|---|----------|
| 1* | | | | - | ***** | 14000001 |
| 2* | | | | - | UNCCDE SUBROUTINE TO DECIPHER SYSTEM CARDS | 14000002 |
| 3* | | | | - | ***** | 14000003 |
| 4* | 002166.00 | 000033.00 | 80 002324.06 A0 | YUNCOD | TI,3,\$11,YUXSAV -SAVE UNDICIES | 14000004 |
| 5* | 002167.00 | 000001.73 | BE | | LVE,\$13,1.32(\$14) -GET LOCATION OF HOLLERITH | 14000005 |
| 6* | 002167.40 | 000000.00 | 8D 014000.20 50 | | L(BU,12),C.C(\$13) -CARD AND TEST FOR B | 14000006 |
| 7* | 002170.40 | 420000.00 | 80 414000.23 10 | | KFI(BU,12),(2)100010000000 | 14000007 |
| 8* | 002171.40 | 002311.36 | C4 | | BZAEZ,YUER -IF NOT A B GIVE ERROR RETURN | 14000008 |
| 9* | 002172.00 | 002174.33 | 30 | | SV,\$13,YUECS -LOCATION OF CARD TO EDIT CALLING | 14000009 |
| 10* | 002172.40 * | 000001.32 | 3E | | LV,\$13,1.0(\$14) -DISP. TO \$13 | 14000010 |
| 11* | 002173.00 | 002174.37 | 01 | | LVI,\$15,\$+1.0 -CONVERT CARS TO 6-BIYT BCD | 14000011 |
| 12* | 002173.40 | 002422.04 | 00 | | BD,SCA6 | 14000012 |
| 13* | 002174.00 | 000000.00+ | | YUECS | VF,C.0 | 14000013 |
| 14* | 002174.40 | 000120 | | | CF,80 | 14000014 |
| 15* | 002175.00 | 002327.00+ | | | VF,YUCBF1 | 14000015 |
| 16* | 002175.40 | 002176.77 | 01 | | LVI,\$15,\$+1.0 -BREAK CARD INTO FIELDS | 14000016 |
| 17* | 002176.00 | 002502.04 | 00 | | BD,SBRK8 | 14000017 |
| 18* | 002176.40 | 002327.66+ | | | VF,YUCBF1+.54 | 14000018 |
| 19* | 002177.00 | 000065 | | | CF,53. | 14000019 |
| 20* | 002177.40 | 002337.00+ | | | VF,YUCBF2 | 14000020 |
| 21* | 002200.00 | 000001.00+ | | YUSB8C | VF,1. | 14000021 |
| 22* | 002200.40 | 000001.33 | 01 | | LVI,\$13,1.0 -ERROR RETURN- VALID ONLY FOR | 14000022 |
| 23* | 002201.00 | 002201.40 | 00 | YIPL1 | BE,\$+.32 | 14000023 |
| 24* | | | | - | JOB CARD SC FAKE DISPOSITION | 14000024 |
| 25* | 002201.40 | 002337.00 | 80 060000.20 50 | | L(BU,48),YUCBF2 -NORMAL RETURN TEST FIRST | 14000025 |
| 26* | 002202.40 | 002355.00 | 8D 060000.21 10 | | K(BU,48),YTYPMK(\$13) -FIELD IN CARD | 14000026 |
| 27* | 002203.40 | 000001.33 | 04 | | KVI,\$13,1.0 -TEST DISPOSITION | 14000027 |
| 28* | 002204.00 | 002207.36 | C4 | | BZAEZ,YMKEAR -IF FIRST FIELD IS NOT CORRECT, | 14000028 |
| 29* | | | | - | FURTHER TESTING IS REQUIRED | 14000029 |
| 30* | 002204.40 | 002213.32 | C6 | | BXEZ,YJCBC -DISP. WAS JOB | 14000030 |
| 31* | 002205.00 | 002214.72 | 46 | | BXLZ,YTCPGO -CARD WAS T.C.P. - GO TYPE | 14000031 |
| 32* | 002205.40 | 000002.33 | 04 | | KVI,\$13,2.0 -TEST DISPOSITION FURTHER | 14000032 |
| 33* | 002206.00 * | 002246.32 | C6 | | BXEZ,YLIMC -CARD WAS A LIM. | 14000033 |
| 34* | 002206.40 | 002266.50 | 00 | | B,YI0DC -CARD WAS AN ICD. | 14000034 |
| 35* | 002207.00 | 002303.72 | C2 | YMKEAR | BXE,YJCCER | 14000035 |
| 36* | 002207.40 | 002311.32 | 42 | | BXL,YUER | 14000036 |
| 37* | 002210.00 | 000002.33 | 04 | | KVI,\$13,2.0 -DISP. 2.0 OR 4.0 | 14000037 |
| 38* | 002210.40 | 002311.32 | C6 | | BXEZ,YUER -DISPOSITION WAS LIM- TO ERROR RETURN | 14000038 |
| 39* | 002211.00 | 002360.00 | 80 060000.21 10 | | K(BU,48),YRELMK -TESTR FOR REEL CARD | 14000039 |
| 40* | 002212.00 | 002276.36 | C6 | | BAEZ,YREELC | 14000040 |
| 41* | 002212.40 | 002311.10 | 00 | | B,YUER | 14000041 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------|--|----------|
| 1* | | | - | ***** | 14000043 |
| 2* | | | - | SERVICE ROUTINES TO EXTRACT INFORMATION FROM SYSTEM CARDS. | 14000044 |
| 3* | | | - | ***** | 14000045 |
| 4* | 002213.00 | C00001.32 9E | YJCBC | KV,\$13,1.0(\$14) | 14000046 |
| 5* | 002213.40 | C02313.72 C6 | | BXEZ,YNCRR | 14000047 |
| 6* | 002214.00 | C02311.10 C0 | | B,YUER | 14000048 |
| 7* | 002214.40 | C00034.22 00 | YTCPGC | Z,\$12 | 14000049 |
| 8* | 002215.00 | C00004.31 C2 | | L(\$12,(2)00100 | 14000050 |
| 9* | 002215.40 | 002340.00 80 | | L(BU,48),YUCBF2+1.0 | 14000051 |
| 10* | 002216.40 | C02354.00 80 | | K(BU,48),YGCMMK | 14000052 |
| 11* | 002217.40 | C02313.76 C2 | | BAE,YNCRR | 14000053 |
| 12* | 002220.00 | C02362.00 80 | | K(BU,48),YGCMMK | 14000054 |
| 13* | 002221.00 | 002232.76 C2 | | BAE,YTOPCM | 14000055 |
| 14* | 002221.40 * | C02363.00 80 | | K(BU,48),YCNMGK | 14000056 |
| 15* | 002222.40 | C02233.76 C2 | | BAE,YTOPCG | 14000057 |
| 16* | 002223.00 | C02365.00 80 | | K(BU,48),YUPDAT | 14000058 |
| 17* | 002224.00 | 002311.36 C0 | | BZAE,YUER | 14000059 |
| 18* | 002224.40 | C02151.10 80 | | BZB,SYMCC,YUER | 14000060 |
| 19* | 002225.40 | C02151.03 80 | | CMOC00(BU,1),SCORG | 14000061 |
| 20* | 002226.40 | 002162.32 30 | | LV,\$13,SROOF | 14000062 |
| 21* | 002227.00 | C05464.73 30 | | SV,\$13,YLOL2 | 14000063 |
| 22* | 002227.40 | C00035.22 C0 | | Z,\$13 | 14000064 |
| 23* | 002230.00 | C05465.33 30 | | SV,\$13,YLOL1 | 14000065 |
| 24* | 002230.40 | 005465.31 80 | | CM1111(BU,1),YLOL1+.25 | 14000066 |
| 25* | 002231.40 | 005464.10 00 | | B,YBCRD | 14000067 |
| 26* | 002232.00 | 002311.10 00 | | B,YUER | 14000068 |
| 27* | 002232.40 | C00023.31 02 | YTOPCM | L(\$12,(2)10011 | 14000069 |
| 28* | 002233.00 | C02234.10 00 | | B,YTOPCG+.32 | 14000070 |
| 29* | 002233.40 | C00013.31 02 | YTOPCG | L(\$12,(2)01011 | 14000071 |
| 30* | 002234.00 | C02200.36 50 | | LC,\$15,YUSB8C | 14000072 |
| 31* | 002234.40 | C00002.37 CA | | KCI,\$15,2.0 | 14000073 |
| 32* | 002235.00 * | C02313.73 40 | | BZXF,YNORR | 14000074 |
| 33* | 002235.40 | 002342.00 80 | | L(BU,48),YUCBF2+3.0 | 14000075 |
| 34* | 002236.40 | C01775.40 80 | | K(BU,48),YNLST | 14000076 |
| 35* | 002237.40 | C02241.36 C0 | | BZAE,\$+1.32 | 14000077 |
| 36* | 002240.00 | C00034.54 80 | | CMOC00(BU,1),\$12+.44 | 14000078 |
| 37* | 002241.00 | C00003.37 0A | | KCI,\$15,3.0 | 14000079 |
| 38* | 002241.40 | C02313.73 40 | | BZXF,YNCRR | 14000080 |
| 39* | 002242.00 | C02343.00 80 | | L(BU,48),YUCBF2+4.0 | 14000081 |
| 40* | 002243.00 | C01775.40 80 | | K(BU,48),YNOPUN | 14000082 |
| 41* | 002244.00 | C02313.76 C0 | | BZAE,YNCRR | 14000083 |
| 42* | 002244.40 | C00034.55 80 | | CMOC00(BU,1),\$12+.45 | 14000084 |
| 43* | 002245.40 | 002313.50 C0 | | B,YNORR | 14000085 |
| 44* | 002246.00 | 002322.30 10 | YLIMC | LX,\$12,YUCX12 | 14000086 |
| 45* | 002246.40 | 120000.00 80 | | LI(BU,6),(2)001010 | 14000087 |
| 46* | 002247.40 | 000000.06 8C | YLL2 | CT0110(V+1)(BU,6),.6(\$12) | 14000088 |
| 47* | 002250.40 * | C02252.34 C4 | | BZRZZ,\$+1.32 | 14000089 |
| 48* | 002251.00 | 777777.72 8C | | CMOC00(BU,6),-.6(\$12) | 14000090 |
| 49* | 002252.00 | C02247.70 4C | | CBR,\$12,YLL2 | 14000091 |
| 50* | 002252.40 | C02247.63 40 | | BZXF,YLL2 | 14000092 |
| 51* | 002253.00 | C02340.00 80 | | LF(BU,36,6),YUCBF2+1.0 | 14000093 |
| 52* | 002254.00 | C00034.00 80 | | SF(BU,18,3),\$12 | 14000094 |
| 53* | 002255.00 | C02341.00 80 | | LF(BU,36,6),YUCBF2+2.0 | 14000095 |
| 54* | 002256.00 | C00034.34 80 | | SF(BU,18,3),\$12+.28 | 14000096 |
| 55* | 002257.00 | C05465.70 90 | | KV,\$12,STERMI | 14000097 |
| 56* | 002257.40 | C02262.32 42 | | BXL,YUCLLC | 14000098 |

| LINE | LOCATICN | BINARY | OUTPUT | NAME | STATEMENT | LOCATICN | 002260 |
|------|-------------|-----------|--------|--------|----------------------------|-------------------------------|----------|
| 1* | 002260.00 | 002162.31 | 90 | | KC,\$12,SRCOF | | 14000099 |
| 2* | 002260.40 | 002311.33 | 42 | | BXH,YUER | | 14000100 |
| 3* | 002261.00 | 002162.26 | 30 | | LV,\$11,SROOF | | 14000101 |
| 4* | 002261.40 | 002264.50 | 00 | | B,YUCLLF | | 14000102 |
| 5* | 002262.00 | 002150.31 | 90 | YUCLLC | KC,\$12,SMCP | | 14000103 |
| 6* | 002262.40 | 002311.33 | 42 | | BXH,YUER | | 14000104 |
| 7* | 002263.00 | 000041.31 | 04 | | KVI,\$12,33.0 | | 14000105 |
| 8* | 002263.40 | 002311.32 | 42 | | BXL,YUER | | 14000106 |
| 9* | 002264.00 * | 002150.26 | 30 | | LV,\$11,SMCP | | 14000107 |
| 10* | 002264.40 | 002153.27 | 30 | YUCLLH | SV,\$11,SMAXUB | | 14000108 |
| 11* | 002265.00 | 000034.31 | 90 | | KC,\$12,\$12 | -IS LOWER GREATER | 14000109 |
| 12* | 002265.40 | 002311.33 | 40 | | BZXH,YUER | -THAN UPPER LIMIT | 14000110 |
| 13* | 002266.00 | 002313.50 | 00 | | B,YNORR | -LIMITS OK - TO NORMAL RETURN | 14000111 |
| 14* | 002266.40 | 002321.30 | 10 | YIGDC | LX,\$12,YIDX12 | -CONVERT I-O REFERENCE | 14000112 |
| 15* | 002267.00 | 120000.00 | 80 | | LI(BU,6),(2)001010 | -NUMBER AND ABSOLUTE EXIT | 14000113 |
| 16* | 002270.00 | 000000.06 | 8C | YICDTL | CT0110(V+I)(BU,6),.6(\$12) | -FIELDS ON IOD CARD TO BINARY | 14000114 |
| 17* | 002271.00 | 002272.74 | C4 | | BZRZZ,YICCB | | 14000115 |
| 18* | 002271.40 | 777777.72 | 8C | | CMOC00(BU,6),-.6(\$12) | | 14000116 |
| 19* | 002272.40 | 002270.30 | 4C | YICCB | CBR,\$12,YIODTL | | 14000117 |
| 20* | 002273.00 | 002334.64 | 80 | | LF(BU,60,6),YUTOE | | 14000118 |
| 21* | 002274.00 | 000034.64 | 80 | | SF(BU,12,3),\$12+.52,48 | -PUT IN \$12 | 14000119 |
| 22* | 002275.00 | 000034.00 | 80 | | SF(BU,18,3),\$12 | | 14000120 |
| 23* | 002276.00 | 002200.30 | 50 | YREELC | LC,\$12,YUSB8C | -LCAD COUNT WITH = OF FIELDS | 14000121 |
| 24* | 002276.40 | 000033.00 | 80 | | SWAPI,3,\$11,YUXSAV | | 14000122 |
| 25* | 002277.40 * | 000002.37 | BE | | LVE,\$15,2.0(\$14) | | 14000123 |
| 26* | 002300.00 | 002364.00 | 80 | | TI,1,YBLWD4,0.0(\$15) | | 14000124 |
| 27* | 002301.00 | 000000.00 | 8F | | TI,7,0.0(\$15),1.0(\$15) | | 14000125 |
| 28* | 002302.00 | 000033.00 | 80 | | SWAPI,3,\$11,YUXSAV | | 14000126 |
| 29* | 002303.00 | 002313.50 | 00 | | B,YNORR | -IN BREAKDOWN, AND RETURN | 14000127 |
| 30* | 002303.40 | 002200.36 | 50 | YJCCER | LC,\$15,YUSB8C | | 14000128 |
| 31* | 002304.00 | 000001.32 | 9E | | KV,\$13,1.0(\$14) | | 14000129 |
| 32* | 002304.40 | 002311.32 | C0 | | BZXE,YUER | | 14000130 |
| 33* | 002305.00 | 002324.00 | 80 | | TI,3,YUXSAV,\$11 | | 14000131 |
| 34* | 002306.00 | 000002.37 | BE | | LVE,\$15,2.0(\$14) | | 14000132 |
| 35* | 002306.40 | 000000.00 | 8F | | CMOC00(BU),C(\$15) | | 14000133 |
| 36* | 002307.40 | 002337.00 | 80 | | T,\$15,YUCBF2,0.0(\$15) | | 14000134 |
| 37* | 002310.40 | 000002.50 | 0E | | B,2.32(\$14) | | 14000135 |
| 38* | 002311.00 | 002324.00 | 80 | YUER | TI,3,YUXSAV,\$11 | | 14000136 |
| 39* | 002312.00 | 000002.37 | BE | | LVE,\$15,2.0(\$14) | | 14000137 |
| 40* | 002312.40 | 000000.22 | 0F | | Z,0.0(\$15) | | 14000138 |
| 41* | 002313.00 * | 000002.50 | 0E | | B,2.32(\$14) | | 14000139 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|----------------|--------|---|----------|
| 1* | | | | - ***** | 14000141 |
| 2* | | | | - - RETURNS, MASKS, TEMPORARY STORAGE FOR UNCODE. | 14000142 |
| 3* | | | | - ***** | 14000143 |
| 4* | 002313.40 | 000000.31 1E | YNGRR | SX,\$12,0.0(\$14) -PUT INFORMATION IN CALLING | 14000144 |
| 5* | 002314.00 | 001775.00 80 | | 001000.00 F0 CM0000(BU,1),YTBIT | 14000145 |
| 6* | 002315.00 | 002324.00 80 | | 000033.06 AC TI,3,YUXSAV,\$11 -SEQUENCE | 14000146 |
| 7* | 002316.00 | 000002.37 BE | | LVE,\$15,2.0(\$14) -IF BETA SUB I ISNGN ZERO, | 14000147 |
| 8* | 002316.40 | 002200.36 50 | | LC,\$15,YUSB8C -TRANSMIT BROKEN OUT | 14000148 |
| 9* | 002317.00 | 002320.71 42 | | BXVZ,\$+1.32 -CARD TC REQUESTED AREA | 14000149 |
| 10* | 002317.40 | 002337.00 80 | | 000000.36 2F T,\$15,YUCBF2,0.0(\$15) | 14000150 |
| 11* | 002320.40 | 000003.10 0E | | B,3.0(\$14) -RETURN | 14000151 |
| 12* | 002321.00 | 002334.64+ 000 | YIDX12 | 000012 000000 XW,YUTOE,10,0 | 14000152 |
| 13* | 002322.00 | 002340.00+ 000 | YUCX12 | 000006 002323 XW,YUCBF2+1.0,6,\$+1.0 -INDEX WORDS FOR ABOVE ROUTINE | 14000153 |
| 14* | 002323.00 | 002341.00+ 111 | | 000006 000000 XW,YUCBF2+2.0,6,0,7 | 14000154 |
| 15* | 002324.00 * | 000003.00 | YUXSAV | DRZ(BU,64),(3) | 14000155 |
| 16* | 002327.00 | 000010.00 | YUCBF1 | DRZ(BU,64),(8) | 14000156 |
| 17* | 002337.00 | 000015.00 | YUCBF2 | DRZ(BU,64),(13) | 14000157 |
| 18* | 002354.00 | | YCOMK | (AX)DD(BU,48,6),GO X | 14000158 |
| 19* | | | | CNOP | 14000159 |
| 20* | 002355.00 | | YTYPMK | (AX)DD(BU,48,6),TYPE X | 14000160 |
| 21* | | | | CNOP | 14000161 |
| 22* | 002356.00 | | | (AX)DD(BU,48,6),JOB X | 14000162 |
| 23* | | | | CNOP | 14000163 |
| 24* | 002357.00 | | | (AX)DD(BU,48,6),LIM X | 14000164 |
| 25* | | | | CNOP | 14000165 |
| 26* | 002360.00 | | YRELMK | (AX)DD(BU,48,6),REEL X | 14000166 |
| 27* | | | | CNOP | 14000167 |
| 28* | 002361.00 | | | (AX)DD(BU,48,6),IOD X | 14000168 |
| 29* | | | | CNOP | 14000169 |
| 30* | 002362.00 | | YCOMMK | (AX)DD(BU,48,6),COMPILE X | 14000170 |
| 31* | | | | CNOP | 14000171 |
| 32* | 002363.00 | | YCNMGK | (AX)DD(BU,48,6),COMPILGDX | 14000172 |
| 33* | | | | CNOP | 14000173 |
| 34* | 002364.00 | | YBLWD4 | (AX)DD(BU,48,6), X | 14000174 |
| 35* | | | | CNOP | 14000175 |
| 36* | 002365.00 | | YUPDAT | (AX)DD(BU,48,6),UPDATE X | 14000176 |
| 37* | 002334.64+ | +00000000 | Y UTOE | BU,100,10 SYN,YUCBF1+.372 -LOCATION OF REF = AND TOE | 14000177 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------|--|----------|
| 1* | | | - | ***** | 15000001 |
| 2* | | | - | *****BCD TO IQS CONVERSION ROUTINE ***** | 15000002 |
| 3* | | | - | ***** | 15000003 |
| 4* | 002365.60 * | | | SLC,\$ | 15000004 |
| 5* | 002366.CC | 002403.CC 80 | S A8IQS | TI,2,G GSMI,G KRUH -SET LOOP FOR 8BIT BCD | 15000005 |
| 6* | 002367.00 | CC2370.5C 00 | | B,\$+1.32 | 15000006 |
| 7* | 002367.40 | 002405.00 80 | S A6IQS | TI,2,G SEST,G KRUH -SET LOOP FOR 6BIT BCD | 15000007 |
| 8* | 002370.40 | 002407.33 10 | | SX,\$13,G ULOZX -SAVE ORIGINAL INDEX REGISTERS | 15000008 |
| 9* | 002371.00 | 002410.35 10 | | SX,\$14,G ULOZX+1.0 | 15000009 |
| 10* | 002371.40 | 002411.37 10 | | SX,\$15,G ULOZX+2.0 | 15000010 |
| 11* | 002372.00 | 000000.34 3F | | LV,\$14,C.0(\$15) -PUT *IN* IN VF OF \$14 | 15000011 |
| 12* | 002372.40 | 000000.74 5F | | LC,\$14,.32(\$15) -PUT *N* IN CF OF \$14 | 15000012 |
| 13* | 002373.00 | 002401.30 42 | | BXCZ,G PRYC | 15000013 |
| 14* | 002373.40 | 000001.32 3F | | LV,\$13,1.0(\$15) -PUT *OUT* IN VF OF \$13 | 15000014 |
| 15* | | | | CNOP | 15000015 |
| 16* | 002374.CC * | 000002.CC | G KRUH | DRZ(BU,64),(2) -RESERVE 2 FULL WORDS | 15000016 |
| 17* | 002376.00 | 000011.36 30 | G SKCK | LV,\$15,\$R -PUT BIT ADDRESS*8 IN \$15 | 15000017 |
| 18* | 002376.40 | CC2412.00 8F | | L(BU,8),G RADA(\$15) -LOAD 8BIT CODE IQS CHARACTER | 15000018 |
| 19* | 002377.40 | 000000.10 8D | | ST(V+1)(BU,8),.8(\$13) -STORE SAME | 15000019 |
| 20* | 002400.40 | 002374.34 48 | | CB,\$14,G KRUH | 15000020 |
| 21* | 002401.00 | 002407.32 10 | G PRYC | LX,\$13,G ULOZX -RESTORE INDEX REGISTERS | 15000021 |
| 22* | 002401.40 | 002410.34 10 | | LX,\$14,G ULOZX+1.0 | 15000022 |
| 23* | 002402.00 | 002411.36 10 | | LX,\$15,G ULOZX+2.0 | 15000023 |
| 24* | 002402.40 | 000001.50 0F | | B,1.32(\$15) | 15000024 |
| 25* | | | | CNOP -BACK TO RETURN | 15000024 |
| 26* | 002403.00 | 000000.10 8E | G GSMI | L(V+1)(BU,8),.8(\$14),43 -FOR 8BIT BCD | 15000025 |
| 27* | 002404.00 | 000000.00 80 | | C0000(BU,2),0.0,49 | 15000026 |
| 28* | 002405.00 | 000000.06 8E | G SEST | L(V+1)(BU,6),.6(\$14),43 -FOR 6BIT BCD | 15000027 |
| 29* | 002406.00 | 002376.10 00 | | B,G SKCK | 15000028 |
| 30* | 002406.40 | 000000.30 00 | | NOP | 15000028 |
| 31* | 002407.00 * | 000003.CC | G ULOZX | DRZ(BU,64),(3) -RESERVE 3 FULL WORDS FOR INDEXES | 15000029 |
| 32* | 002412.00 | | G RADA | (IQS*)DD(BU,8,8),/1234567890=* | 15000030 |
| 33* | 002413.40 | 052 | | (2)DD(BU,8,8),00101010 -QUOTATION | 15000031 |
| 34* | 002413.50 | | | (IQS*)DC(BU,8,8),/// /STUVWXYZ* | 15000032 |
| 35* | 002415.20 | 165 | | (2)DD(BU,8,8),01110101 -CCLCN | 15000033 |
| 36* | 002415.30 | | | (IQS*)DD(BU,8,8),,(///-JKLMNCPQR* | 15000034 |
| 37* | 002417.20 | | | (IQS*)DC(BU,8,8),/* - SEMICOLON | 15000035 |
| 38* | 002417.30 | | | (IQSY)DD(BU,8,8),\$*///+ABCDEFGH./.)/Y | 15000036 |

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| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|-----------|---|----------|
| 1* | | | | | | 15000038 |
| 2* | | | | | HOLLERITH TO BCD CONVERSION | 15000039 |
| 3* | | | | | | 15000040 |
| 4* | 002422.00 * | | | | SLC,\$ | 15000041 |
| 5* | 002422.00 | C00011.22 | 00 | S CA6 | Z,\$R -SET UP FOR A-6 CONVERSION | 15000042 |
| 6* | 002422.40 | 002424.10 | 00 | | \$B,\$GQ\$A | 15000043 |
| 7* | | | | | | 15000044 |
| 8* | 002423.00 | 000001.40 | 80 | 430024.20 | 50 S CA8 LI(BU,24),1.32,40 -SETUP FOR A-8 TYPE CONVERSION | 15000045 |
| 9* | | | | | TAIL,A | 15000046 |
| 10* | 002424.00 | 000021.00 | 80 | 002472.14 | A0 Q GO TI,6,\$1,QSAV -SAVE THE INDICES | 15000047 |
| 11* | 002425.00 | 000000.11 | BF | | LVE,\$4,0(\$15) | 15000048 |
| 12* | 002425.40 | 000011.02 | 30 | | LV,\$1,\$R | 15000049 |
| 13* | 002426.00 | 000000.50 | 5F | | LC,\$4,.32(\$15) | 15000050 |
| 14* | 002426.40 | 002454.70 | 42 | | BXCZ,QFIN | 15000051 |
| 15* | 002427.00 | C00001.12 | 3F | | LV,\$5,1.0(\$15) | 15000052 |
| 16* | | | | | | 15000053 |
| 17* | | | | | FIND THE CHARACTER IN TABLE | 15000054 |
| 18* | | | | | | 15000055 |
| 19* | 002427.40 | 000000.03 | 84 | 103000.07 | 70 Q P CT0011(V+I)(BU,3),.3(\$4) | 15000056 |
| 20* | 002430.40 | 000007.21 | 80 | 007026.60 | 50 L(BU,7),\$LZC,45 | 15000057 |
| 21* | 002431.40 | 000011.04 | 30 | | LV,\$2,\$R | 15000058 |
| 22* | 002432.00 | 000007.44 | 50 | | LC,\$2,7.32 | 15000059 |
| 23* | 002432.40 | 000000.11 | 84 | 111000.06 | 70 LF(V+I)(BU,9),.9(\$4) | 15000060 |
| 24* | 002433.40 | 000000.05 | 00 | | C+I,\$2,0 | 15000061 |
| 25* | 002434.00 | 002446.70 | 40 | | BZXCZ,QER -YES | 15000062 |
| 26* | 002434.40 | 002500.04 | 32 | | LV,\$2,QTB(\$2) | 15000063 |
| 27* | 002435.00 * | 000007.46 | 50 | | LC,\$3,7.32 | 15000064 |
| 28* | 002435.40 | 000007.21 | 80 | 007026.46 | 70 LF(BU,7),\$LZC,45 | 15000065 |
| 29* | 002436.40 | 000011.06 | 30 | | LV,\$3,\$R | 15000066 |
| 30* | 002437.00 | 002447.70 | 42 | | BXCZ,QCK -IF NO TRIPLE OR MORE PUNCHES | 15000067 |
| 31* | 002437.40 | 102000.00 | 80 | 411000.23 | 10 KFI(BU,9),(2)001000010 -CHECK FOR AN 8-3 COMBO | 15000068 |
| 32* | 002440.40 | 002442.36 | 00 | | BZAE,QNC -NO | 15000069 |
| 33* | 002441.00 | 000005.07 | 01 | | LVI,\$3,5.0 | 15000070 |
| 34* | 002441.40 | 002447.50 | 00 | | B,QCK | 15000071 |
| 35* | | | | | | 15000072 |
| 36* | 002442.00 | 042000.00 | 80 | 411000.23 | 10 Q ND KFI(BU,9),(2)000100010 -CHECK FOR AN 8-4 COMBO | 15000073 |
| 37* | 002443.00 | 002444.76 | 00 | | BZAE,QNCZ -NO | 15000074 |
| 38* | 002443.40 | 000005.47 | 01 | | LVI,\$3,5.32 | 15000075 |
| 39* | 002444.00 | 002447.50 | 00 | | B,QCK | 15000076 |
| 40* | | | | | | 15000077 |
| 41* | 002444.40 | 202000.00 | 80 | 411000.23 | 10 Q NCZ KFI(BU,9),(2)010000010 -CHECK FOR AN 8-I COMBO | 15000078 |
| 42* | 002445.40 | 000006.07 | 01 | | LVI,\$3,6.0 | 15000079 |
| 43* | 002446.00 | 002447.76 | 02 | | BAE,QCK -OK MUST BE A COLON | 15000080 |
| 44* | 002446.40 | 000006.07 | 01 | | LVI,\$3,6.0 | 15000081 |
| 45* | 002447.00 | 000000.05 | 01 | | LVI,\$2,0 | 15000082 |
| 46* | 002447.40 | 002456.15 | 83 | | Q CK LVE,\$6,QFLD(\$3) | 15000083 |
| 47* | 002450.00 * | 002465.00 | 86 | 006600.06 | 70 LF(BU,6,6),Q(\$6) | 15000084 |
| 48* | 002451.00 | 002451.50 | 01 | | B,QST(\$1) | 15000085 |
| 49* | 002451.40 | 000000.06 | 85 | 106600.20 | 00 QST ST(V+I)(BU,6,6),.6(\$5) | 15000086 |
| 50* | 002452.40 | 002454.10 | 00 | | B,QCHK | 15000087 |
| 51* | 002453.00 | 000000.10 | 85 | 110000.20 | 00 ST(V+I)(BU,8,8),.8(\$5) | 15000088 |
| 52* | 002454.00 | 002427.50 | 48 | | Q CHK CB,\$4,QP | 15000089 |
| 53* | 002454.40 | 002472.00 | 80 | 000021.14 | 00 Q FIN SWAPI,6, QSAV,\$1 -RESTORE INDEXES | 15000090 |
| 54* | 002455.40 | 000001.50 | 0F | | B,1.32(\$15) -AND RETURN | 15000091 |

| LINE | LOCATICN | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-------|-------------------------------------|----------|
| 1* | | | - | ***** | 15000093 |
| 2* | | | - | THE CHARACTER LOCATOR TABLES | 15000094 |
| 3* | | | - | ***** | 15000095 |
| 4* | 002456.00 | 000000.00 82 | Q FLD | ,0(\$2) | 15000096 |
| 5* | 002456.40 | 000000.06 82 | | ,.6(\$2) | 15000097 |
| 6* | 002457.00 | 000000.14 82 | | ,.12(\$2) | 15000098 |
| 7* | 002457.40 | 000000.22 82 | | ,.18(\$2) | 15000099 |
| 8* | 002460.00 | 000000.30 82 | | ,.24(\$2) | 15000100 |
| 9* | 002460.40 | 000000.36 82 | | ,.30(\$2) | 15000101 |
| 10* | 002461.00 | 000000.44 82 | | ,.36(\$2) | 15000102 |
| 11* | 002461.40 | 000000.52 82 | | ,.42(\$2) | 15000103 |
| 12* | 002462.00 | 000000.60 82 | | ,.48(\$2) | 15000104 |
| 13* | 002462.40 | 000000.66 82 | | ,.54(\$2) | 15000105 |
| 14* | 002463.00 | 000000.74 82 | | ,.60(\$2) | 15000106 |
| 15* | 002463.40 | 000001.02 82 | | ,.66(\$2) | 15000107 |
| 16* | 002464.00 * | 000001.10 82 | | ,0.72(\$2) | 15000108 |
| 17* | | | - | ***** | 15000109 |
| 18* | | | - | THE TABLES | 15000110 |
| 19* | | | - | ***** | 15000111 |
| 20* | 002464.40 | 000000.30 00 | | CNOP | 15000112 |
| 21* | 002465.00 | | Q | (AX)DD(BU,6,6),ABCDEFGH(+)/X | 15000113 |
| 22* | 002466.16 | | | (AX)DD(BU,6,6),JKLMNCPQR-\$*/X | 15000114 |
| 23* | 002467.34 | | | (AA)DD(BU,6,6),/STUVWXYZO,(A | 15000115 |
| 24* | 002470.44 | | 32 | DD(BU,6,6),(8)32 -SPECIAL FOR CCLON | 15000116 |
| 25* | 002470.52 | | | (AX)DD(BU,6,6),123456789 =-/X | 15000117 |
| 26* | | | - | | 15000118 |
| 27* | | | | CNOP | 15000119 |
| 28* | 002472.00 * | 000006.00 | Q SAV | DRZ(BU,64),(6) | 15000120 |
| 29* | | | - | | 15000121 |
| 30* | 002500.00 | 000000.00+ | Q TB | VF,0 -FOR 12 ZONE | 15000122 |
| 31* | 002500.40 | 000001.16+ | | VF,78 -FOR THE 11 ZONE | 15000123 |
| 32* | 002501.00 | 000002.34+ | | VF,156 -FOR THE ZERO ZONE | 15000124 |
| 33* | 002501.40 | 000003.52+ | | VF,234 -FOR THE NO ZONE | 15000125 |
| 34* | | | - | | 15000126 |
| 35* | | | | UNTAIL,(1) | 15000127 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------|---|----------|
| 1* | | | | | | 15000129 |
| 2* | | | | | THE BREAKDOWN ROUTINE | 15000130 |
| 3* | | | | | | 15000131 |
| 4* | | | | | | 15000132 |
| 5* | 002501.71 * | | | | SLC,\$ | 15000133 |
| 6* | | | | | -SBRK8, 6 BIT BCD VERSION, 16 BITS BETWEEN OUTPUT | 15000134 |
| 7* | | | | | -FIELDS. LARRY LEVY | 15000135 |
| 8* | | | | | | 15000136 |
| 9* | | | | | | 15000137 |
| 10* | 002502.00 | 002547.03 | 10 | SBRK8 | SX,QX INN,Q SAV1 -SAVE INDEX REGISTERS | 15000138 |
| 11* | 002502.40 | 002550.05 | 10 | | SX,QX OUT,Q SAV2 | 15000139 |
| 12* | 002503.00 | 002551.07 | 10 | | SX,QX CF9,Q SAV3 | 15000140 |
| 13* | 002503.40 | 000000.02 | 3F | | LV,QX INN,0.(\$15) -INITIALIZE IN | 15000141 |
| 14* | 002504.00 | 000000.42 | 5F | | LC,QX INN,.32(\$15) -INITIALIZE N | 15000142 |
| 15* | 002504.40 | 000001.04 | 3F | | LV,QX OUT,1.(\$15) -INITIALIZE OUT | 15000143 |
| 16* | 002505.00 | 002555.06 | 10 | | LX,QX CF9,QW CF9 -COUNT CHARS IN STORED FIELD | 15000144 |
| 17* | 002505.40 | 000001.40 | 8F | | CM0000(BU,18,8),1.32(\$15) -INITIALIZE FIELD COUNT | 15000145 |
| 18* | 002506.40 | 002556.37 | 80 | | L(BU,18+QKSIZ),QCOUNT,64 | 15000146 |
| 19* | 002507.40 | 000000.06 | 81 | Q NEXT | LF(V+I)(BU,Q KSIZ), Q KSIZ(QX INN) -LOAD INPUT CHAR. STEP X | 15000147 |
| 20* | 002510.40 | 002556.31 | 80 | | KF,Q CMA -IS THIS A COMMA | 15000148 |
| 21* | 002511.40 | 002520.76 | C2 | | BAE,Q IF C | 15000149 |
| 22* | 002512.00 | 002556.61 | 80 | | KF,Q BLNK -IS THIS A BLANK | 15000150 |
| 23* | 002513.00 | 002515.36 | C2 | | BAE,Q STEP | 15000151 |
| 24* | 002513.40 | 002530.06 | 4E | | CBRZ,QX CF9,Q 2BIG -TEST FOR OVERSIZED FIELD | 15000152 |
| 25* | 002514.00 | 000000.06 | 82 | | SF(V+I)(BU,Q KSIZ), Q KSIZ(QX OUT) -STORE CHAR. STEP X | 15000153 |
| 26* | 002515.00 * | 002507.42 | 48 | Q STEP | CB,QX INN,Q NEXT -TEST FOR LAST INPUT CHAR | 15000154 |
| 27* | 002515.40 | 000001.40 | 8F | | M+1(BU,18),1.32(\$15) -COUNT LAST FIELD | 15000155 |
| 28* | 002516.40 | 002526.06 | 4A | Q BL | CBZ,QX CF9,Q RSTR -STORE R.H. BLANKS AT END OF LAST FIELD | 15000156 |
| 29* | 002517.00 | 000000.06 | 82 | | SF(V+I)(BU,Q KSIZ),Q KSIZ(QX OUT),64 -IF NECESSARY | 15000157 |
| 30* | 002520.00 | 002516.50 | C0 | | B,Q BL | 15000158 |
| 31* | | | | | | 15000159 |
| 32* | 002520.40 | 000001.40 | 8F | Q IF C | M+1(BU,18),1.32(\$15) -COUNT THIS FIELD | 15000160 |
| 33* | 002521.40 | 002523.46 | 4E | | CBRZ,QX CF9,Q REDY -TEST FOR SHORT INPUT FIELD | 15000161 |
| 34* | 002522.00 | 000000.06 | 82 | Q ZERO | SF(V+I)(BU,Q KSIZ), Q KSIZ(QX OUT),64 -STORE RIGHT-HAND | 15000162 |
| 35* | 002523.00 | 002522.06 | 4C | | CBR,QX CF9,Q ZERO - BLANKS AFTER SHORT FIELDS | 15000163 |
| 36* | 002523.40 | 002556.04 | 80 | Q REDY | V+,QX OUT,Q SKIP -SKIP TO BEG CF NEXT OUTPUT FIELD | 15000164 |
| 37* | 002524.00 | 000001.40 | 8F | | KF(BU,18),1.32(\$15),64+QKSIZ | 15000165 |
| 38* | 002525.00 | 002526.37 | 40 | | BZAH,QRSTR | 15000166 |
| 39* | 002525.40 | 002507.42 | 48 | | CB,QX INN,Q NEXT -TEST FOR LAST INPUT CHAR | 15000167 |
| 40* | | | | | | 15000168 |
| 41* | 002526.00 | 002547.02 | 10 | Q RSTR | LX,QX INN,Q SAV1 -RESTORE INDEX REGISTERS | 15000169 |
| 42* | 002526.40 | 002550.04 | 10 | | LX,QX OUT,Q SAV2 | 15000170 |
| 43* | 002527.00 | 002551.06 | 10 | | LX,QX CF9,Q SAV3 | 15000171 |
| 44* | 002527.40 | 000002.50 | 0F | | B,2.32(\$15) -NORMAL RETURN | 15000172 |
| 45* | | | | | | 15000173 |
| 46* | 002530.00 * | 000001.40 | 8F | Q 2BIG | M+1(BU,18),1.32(\$15) -COUNT THIS FIELD | 15000174 |
| 47* | 002531.00 | 000021.00 | 80 | | SWAPI,1,QX INN,Q SAV1 -RESTORE INDEXES BUT SAVE THE | 15000175 |
| 48* | 002532.00 | 000022.00 | 80 | | SWAPI,1,QX OUT,Q SAV2 - PRESENT VALUES FOR RE-ENTRY | 15000176 |
| 49* | 002533.00 | 000023.00 | 80 | | SWAPI,1,QX CF9,Q SAV3 - AT QBRK8 | 15000177 |
| 50* | 002534.00 | 000010.00 | 80 | | TI,2,\$L,Q SAV4 -SAVE \$L AND \$R | 15000178 |
| 51* | 002535.00 | 002554.37 | 10 | | SX,\$15,Q SAV6 | 15000179 |
| 52* | 002535.40 | 000002.10 | 0F | | B,2. (\$15) -ERROR RETURN | 15000180 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------|-------------------|----------|--|----------|
| 1* | | | | | -RE-ENTRY POINT FOLLOWING ERROR RETURN | 15000182 |
| 2* | 002536.00 | 000021.00 | 80 002547.02 | EC QBRK8 | SWAPI,1,QX INN,Q SAV1 -RESET INDEXES | 15000183 |
| 3* | 002537.00 | 000022.00 | 80 002550.02 | EO | SWAPI,1,QX OUT,Q SAV2 | 15000184 |
| 4* | 002540.00 | 000023.00 | 80 002551.02 | EO | SWAPI,1,QX CF9,Q SAV3 | 15000185 |
| 5* | 002541.00 | 002552.00 | 80 000010.04 | A0 | TI,2,Q SAV4,\$L -RESET \$L AND \$R | 15000186 |
| 6* | 002542.00 | 002554.36 | 10 | | LX,\$15,Q SAV6 | 15000187 |
| 7* | 002542.40 | 002556.04 | 80 | | V+,QX OUT,Q SKIP -SKIP TO BEG OF NEXT OUTPUT FIELD | 15000188 |
| 8* | 002543.00 | 002526.02 | 4A | Q SPAC | CBZ,QXINN,QRSTR -TEST FOR LAST INPUT CHARACTER. | 15000189 |
| 9* | 002543.40 * | 002556.31 | 80 006600.23 | 10 | KF,Q CMA -TEST FOR COMMA. FIRST CHAR READ | 15000190 |
| 10* | | | | | - CANNOT BE A COMMA | 15000191 |
| 11* | 002544.40 | 002507.76 | C2 | | BAE,Q NEXT | 15000192 |
| 12* | 002545.00 | 000000.06 | 81 106000.06 | 70 | LF(V+I)(BU,Q KSIZE), Q KSIZE(QX INN) -LOAD NEXT CHAR. STEP X | 15000193 |
| 13* | 002546.00 | 002543.10 | 00 | | B,Q SPAC | 15000194 |
| 14* | | | | | - | 15000195 |
| 15* | | | | | - | 15000196 |
| 16* | 002547.00 | 000000.00+ | 000 000000 000000 | Q SAV1 | XW, -STORE INDEXES | 15000197 |
| 17* | 002550.00 | 000000.00+ | 000 000000 000000 | Q SAV2 | XW, | 15000198 |
| 18* | 002551.00 | 000000.00+ | 000 000000 000000 | Q SAV3 | XW, | 15000199 |
| 19* | 002552.00 | 000000.00+ | 000 000000 000000 | Q SAV4 | XW, -STORE \$L | 15000200 |
| 20* | 002553.00 | 000000.00+ | 000 000000 000000 | | XW -STORE \$R | 15000201 |
| 21* | 002554.00 | 000000.00+ | 000 000000 000000 | Q SAV6 | XW, -STORE \$15 | 15000202 |
| 22* | 000021.00+ | +00000000 | BU,100,10 | QX INN | SYN,\$1 | 15000203 |
| 23* | 000022.00+ | +00000000 | BU,100,10 | QX OUT | SYN,\$2 | 15000204 |
| 24* | 000023.00+ | +00000000 | BU,100,10 | QX CF9 | SYN,\$3 | 15000205 |
| 25* | | | | | | 15000206 |
| 26* | | | | | - PROGRAM MODIFICATION CARDS - | 15000207 |
| 27* | | | | | | 15000208 |
| 28* | 002555.00 | 000000.00+ | 000 000011 002555 | QW CF9 | XW,C.,9,QWCF9 -NO. OF CHARS PER OUTPUT FIELD +1 | 15000209 |
| 29* | 002556.00 | 000000.20+ | | Q SKIP | VF,.16 -NO. OF BIT BETWEEN STORAGE FIELDS | 15000210 |
| 30* | 002556.31 | | | Q CMA | (A*)DD(BU,QKSIZE,QKSIZE),,* -COMMA | 15000211 |
| 31* | 002556.37 | | 000014 | QCOUNT | DD(BU,18),(8)C00014 -MAX. NO. FIELDS IN BREAKOUT | 15000212 |
| 32* | 002556.61 | | | Q BLNK | (A*)DD(BU,QKSIZE,QKSIZE),* -BLANK | 15000213 |
| 33* | 000000.00+ | +00000006 | NULL | Q KSIZE | SYN, 6 | 15000214 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 002556 |
|------|-------------|---------------|--------|------------------------------------|---------------|----------|
| 1* | 002556.67 * | | SLC,\$ | | | 16000002 |
| 2* | | | | | | 16000003 |
| 3* | | | | I/O ASSIGNMENT --- DECODE --- | | 16000004 |
| 4* | | | | | | 16000005 |
| 5* | | | | | | 16000006 |
| 6* | | | | | | 16000007 |
| 7* | | | | THE DECODE PROGRAM LINKAGE FORMAT | | 16000008 |
| 8* | | | | | | 16000009 |
| 9* | | | | | | 16000010 |
| 10* | | | | | | 16000011 |
| 11* | | | | LVI,\$15,X | | 16000011 |
| 12* | | | | B,LDECCD | | 16000012 |
| 13* | | | | X VF,A | | 16000013 |
| 14* | | | | CF,B | | 16000014 |
| 15* | | | | VF,C | | 16000015 |
| 16* | | | | BEW,\$ | ERROR RETURN | 16000016 |
| 17* | | | | BEW,\$ | NORMAL RETURN | 16000017 |
| 18* | | | | | | 16000018 |
| 19* | | | | LET A = FWA OF THE BREAK DCWN AREA | | 16000019 |
| 20* | | | | LET B = THE MODE | | 16000020 |
| 21* | | | | ZERO = OVERLAP MODE | | 16000021 |
| 22* | | | | NOT ZERO = NOT OVERLAP MODE | | 16000022 |
| 23* | | | | LET C = THE RETURN DISPOSITIONS | | 16000023 |
| | | | | SEE THE DISTRIBUTED WRITE - UP | | 16000024 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-------------------|---|---|
| 1* | | | | PRNS | 16000026 |
| 2* | | | | | 16000027 |
| 3* | | | | RESERVATIONS, TABLES AND COUNTERS | 16000028 |
| 4* | | | | | 16000029 |
| 5* | 00000.64+ | +00000000 | BU,14,10 | L IREF SYN(BU,12),C.52 | -P.P. REFERENCE NUMBER 16000030 |
| 6* | | | | | 16000031 |
| 7* | | | | TABLE INDICES FOR REFILL USE | 16000032 |
| 8* | | | | | 16000033 |
| 9* | 002557.00 | CC3370.00+ | 000 000002 002557 | L PPURF XW,TPURFT,TUPPC,\$ | -NOT OVERLAP PP REF. TBL. 16000034 |
| 10* | 002560.00 | CC3514.00+ | 000 000024 002560 | XW,TUIORQ,TUIOC,\$ | -NOT OVERLAP I/O REQ. TBL. 16000035 |
| 11* | 002561.00 | CC3623.00+ | 000 000024 002561 | XW,TUFRE,TUFRC,\$ | -NOT OVERLAP FIRST REEL TBL. 16000036 |
| 12* | 002562.00 | CC3317.00+ | 000 000024 002562 | LPPREF XW,TPREFT,TPPC,\$ | 16000037 |
| 13* | 002563.00 | CC3373.00+ | 000 000120 002563 | LIOTBX XW,TIDREQ,TIOC,\$ | 16000038 |
| 14* | 002564.00 | CC3541.00+ | 000 000062 002564 | LFSTRX XW,TFSTRE,TFRC,\$ | 16000039 |
| 15* | 002565.00 | CC2620.00+ | 000 000036 002565 | L SYMUX XW,LSYMU,32-2,\$ | -SYMBOLIC TAPE INDEX REFILL 16000040 |
| 16* | 002566.00 | CC2660.00+ | 000 000016 002566 | L SYMCX XW,LSYMC,16-2,\$ | -SYMBOLIC CHANNEL INDEX REFILL 16000041 |
| 17* | 002567.00 | CC2700.00+ | 000 000016 002567 | L NTPUX XW,LNTPU,16-2,\$ | -NON-TAPE INDEX REFILL 16000042 |
| 18* | 002570.00 | CC2723.00+ | 000 000011 002570 | L XTYPE XW,LDISK,9,\$ | -THE TYPE CODE INDEX 16000043 |
| 19* | | | | | 16000044 |
| 20* | | | | SWAP AREA FOR EIGHT MCP-DECODE INDICES. | 16000045 |
| 21* | | | | | 16000046 |
| 22* | 002571.00 | CC0000.00+ | 000 000000 000000 | L TY XW | 16000047 |
| 23* | 002572.00 * | CC3317.00+ | 000 000024 002562 | XW,TPREFT,TPPC,LPPREF | 16000048 |
| 24* | 002573.00 | CC3373.00+ | 000 000120 002563 | XW,TIDREQ,TIOC,LIOTBX | 16000049 |
| 25* | 002574.00 | CC3541.00+ | 000 000062 002564 | XW,TFSTRE,TFRC,LFSTRX | 16000050 |
| 26* | 002575.00 | CC2620.00+ | 000 000036 002565 | XW,LSYMU,32-2,LSYMUX | 16000051 |
| 27* | 002576.00 | CC2660.00+ | 000 000016 002566 | XW,LSYMC,16-2,LSYMCX | 16000052 |
| 28* | 002577.00 | CC2700.00+ | 000 000016 002567 | XW,LNTPU,16-2,LNTPUX | 16000053 |
| 29* | 002600.00 | CC0000.00+ | 000 000000 000000 | XW | 16000054 |
| 30* | | | | | 16000055 |
| 31* | | | | TABLE INDICES | 16000056 |
| 32* | | | | | 16000057 |
| 33* | 000023.00+ | +00000000 | BU,100,10 | L IDDX SYN,\$3 | -INDEX FOR GETTING IOD IMAGE 16000058 |
| 34* | 000024.00+ | +00000000 | BU,100,10 | L XPP SYN,\$4 | -P.P. REFERENCE TABLE INDEX 16000059 |
| 35* | 000025.00+ | +00000000 | BU,100,10 | L XIC SYN,\$5 | -I.O. REQUEST TABLE INDEX 16000060 |
| 36* | 000026.00+ | +00000000 | BU,100,10 | L XFR SYN,\$6 | -FIRST REEL NUMBER TABLE INDEX 16000061 |
| 37* | 000027.00+ | +00000000 | BU,100,10 | L XSU SYN,\$7 | -SYMBOLIC TAPE UNIT TABLE INDEX 16000062 |
| 38* | 000030.00+ | +00000000 | BU,100,10 | L XSC SYN,\$8 | -SYMBOLIC CHANNEL TABLE INDEX 16000063 |
| 39* | 000031.00+ | +00000000 | BU,100,10 | L XNT SYN,\$9 | -NON-TAPE TABLE INDEX 16000064 |
| 40* | 000032.00+ | +00000000 | BU,100,10 | L WORKX SYN,\$10 | -WORKING INDEX 16000065 |
| 41* | | | | | 16000066 |
| 42* | | | | COUNTERS AND BITS | 16000067 |
| 43* | | | | | 16000068 |
| 44* | 002601.00 | CC0000.06+ | | L NO6 VF,.06 | -FOR IX BUMPPING 16000069 |
| 45* | 002601.31 * | 000000.07 | | L TAPEC DRZ(BU,7),(1) | -TAPE REEL COUNTER 16000070 |
| 46* | 002601.40 | CC0000.11 | | L ICSCR DRZ(BU,9),(1) | -ICDSQ COUNTER 16000071 |
| 47* | 002601.51 | | 1 | L FINB DD(BU,1),1 | -FINAL BIT 16000072 |
| 48* | 002601.52 | | 0 | L NTB DD(BU,1),0 | -NON-TAPE BIT 16000073 |
| 49* | 002601.53 | 000000.07 | | L COUNT DRZ(BU,7),(1) | -COUNT OF RLSYMS 16000074 |
| 50* | 002601.62 | | 0 | L CVBIT DD(BU,1),0 | -OVERLAPPED JOB BIT 16000075 |
| 51* | 002601.63 | | | L BLZCR (AX)DD(BU,8,8),0X | -BCD -8 ZERC 16000076 |
| 52* | 002601.73 | | 0 | L INFAD DD(BU,1),0 | -INFINITE-DISK ADDRESS 16000077 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 002602 |
|------|-------------|------------------------------|---------|----------------|---------------------------------|----------|
| 1* | 002602.CC | CCCCCC.00+ 000 000000 000000 | L SAVE | XW | -TC SAVE LXNT INDEX | 16000079 |
| 2* | 002603.00 | 000000.00+ 000 000000 000000 | L SAVEY | XW,0 | | 16000080 |
| 3* | 002604.00 | 000000.00+ 000 000000 000000 | L SAVEZ | XW,0 | | 16000081 |
| 4* | 002605.00 | 000000.00+ 000 000000 000000 | L PUT | XW | | 16000082 |
| 5* | 002606.00 | CC2607.00+ 000 000004 002606 | L CLEAR | XW,LRLCT,4,\$ | -XW | 16000083 |
| 6* | 002607.00 * | 000004.CC | L RLCT | DRZ(BU,64),(4) | -RLSYM COUNT TABLE | 16000084 |
| 7* | | | - | | | 16000085 |
| 8* | 002613.00 | 000000.00+ 000 000000 000000 | LAST PP | XW, | -ADD. CF LAST PP ENTERED IN TBL | 16000086 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 002614 |
|------|-------------|---------------|----------|---|-------------------------|----------|
| 1* | 002614.00 | | 001 L CT | DD(BU,8),1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 | | 16000088 |
| 2* | 002614.10 | | 002 | | | 16000088 |
| 3* | 002614.20 | | 003 | | | 16000088 |
| 4* | 002614.30 | | 004 | | | 16000088 |
| 5* | 002614.40 | | 005 | | | 16000088 |
| 6* | 002614.50 | | 006 | | | 16000088 |
| 7* | 002614.60 | | 007 | | | 16000088 |
| 8* | 002614.70 | | 010 | | | 16000088 |
| 9* | 002615.00 | | 011 | | | 16000088 |
| 10* | 002615.10 | | 012 | | | 16000088 |
| 11* | 002615.20 | | 013 | | | 16000088 |
| 12* | 002615.30 | | 014 | | | 16000088 |
| 13* | 002615.40 | | 015 | | | 16000088 |
| 14* | 002615.50 | | 016 | | | 16000088 |
| 15* | 002615.60 | | 017 | | | 16000088 |
| 16* | 002615.70 | | 020 | | | 16000088 |
| 17* | 002616.00 | | 021 | DD(BU,8),17,18,19,20,21,22,23,24,25,26,27,28,29,30,31 | | 16000089 |
| 18* | 002616.10 | | 022 | | | 16000089 |
| 19* | 002616.20 | | 023 | | | 16000089 |
| 20* | 002616.30 | | 024 | | | 16000089 |
| 21* | 002616.40 | | 025 | | | 16000089 |
| 22* | 002616.50 | | 026 | | | 16000089 |
| 23* | 002616.60 | | 027 | | | 16000089 |
| 24* | 002616.70 | | 030 | | | 16000089 |
| 25* | 002617.00 | | 031 | | | 16000089 |
| 26* | 002617.10 | | 032 | | | 16000089 |
| 27* | 002617.20 | | 033 | | | 16000089 |
| 28* | 002617.30 | | 034 | | | 16000089 |
| 29* | 002617.40 | | 035 | | | 16000089 |
| 30* | 002617.50 | | 036 | | | 16000089 |
| 31* | 002617.60 | | 037 | | | 16000089 |
| 32* | | | | | | 16000090 |
| 33* | | | | INTERNAL DECODE TABLES | | 16000091 |
| 34* | | | | | | 16000092 |
| 35* | | | | CNOP | | 16000093 |
| 36* | 002620.00 * | C00040.00 | L SYMU | DRZ(BU),(32) | -SYMBOLIC UNIT TABLE | 16000094 |
| 37* | 000000.61+ | +00000000 | L RLBIT | SYN(BU,1),0.49 | -THE REEL ENTERED BIT | 16000095 |
| 38* | 002660.00 | C00020.00 | L SYMC | DRZ(BU),(16) | -SYMBOLIC CHANNEL TABLE | 16000096 |
| 39* | 002700.00 | 000020.00 | L NTPU | DRZ(BU),(16) | -NON TAPE TABLE | 16000097 |
| 40* | 000000.00+ | +00000077 | L ZBIT | SYN(BU,1),63 | -INFINITY BIT | 16000098 |
| 41* | | | | | | 16000099 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------|---|----------|
| 1* | | | | | 16000101 |
| 2* | | | | SWAP AREAS FOR THE 3 INTERNAL INDEXES FOR NOT OVERLAP USE | 16000102 |
| 3* | | | | | 16000103 |
| 4* | 002720.CO | COCC03.CO | L NOSAV | DRZ(BU,64),(3) | 16000104 |
| 5* | | | | | 16000105 |
| 6* | | | | TYPE SYMBOLS AND CODES | 16000106 |
| 7* | | | | | 16000107 |
| 8* | 002723.CO | | L DISK | (AY)DD(BU,60,6),DISK Y | 16000108 |
| 9* | 002723.74 | | 01 | (8)CD(BU,4),1 | 16000109 |
| 10* | 002724.CO | | L TRACK | (AY)DD(BU,60,6),TRACK Y | 16000110 |
| 11* | 002724.74 | | 01 | (8)CD(BU,4),1 | 16000111 |
| 12* | 002725.CO | | | (AY)DD(BU,60,6),CONSOLE Y | 16000112 |
| 13* | 002725.74 | | 02 | (8)CD(BU,4),2 | 16000113 |
| 14* | 002726.CO | | | (AY)DD(BU,60,6),READER Y | 16000114 |
| 15* | 002726.74 | | 03 | (8)CD(BU,4),3 | 16000115 |
| 16* | 002727.CO | | | (AY)DD(BU,60,6),PUNCH Y | 16000116 |
| 17* | 002727.74 | | 04 | (8)CD(BU,4),4 | 16000117 |
| 18* | 002730.CO | | | (AY)DD(BU,60,6),PRINTER Y | 16000118 |
| 19* | 002730.74 | | 05 | (8)CD(BU,4),5 | 16000119 |
| 20* | 002731.CO | | | (AY)DD(BU,60,6),IQS Y | 16000120 |
| 21* | 002731.74 | | 06 | (8)CD(BU,4),6 | 16000121 |
| 22* | 002732.CO | | | (AY)DD(BU,60,6), Y | 16000122 |
| 23* | 002732.74 | | 07 | (8)CD(BU,4),7 | 16000123 |
| 24* | 002733.CO | | L TAPE | (AY)DD(BU,60,6),TAPE Y | 16000124 |
| 25* | 002733.74 | | 10 | (8)CD(BU,4),10 | 16000125 |
| 26* | | | | | 16000126 |
| 27* | | | | | 16000127 |
| 28* | | | | IOD AND REEL COMPARISONS | 16000128 |
| 29* | | | | | 16000129 |
| 30* | 002734.CO | | L IOD | (AY)DD(BU,64,6),IOD Y | 16000130 |
| 31* | | | | CNOP | 16000131 |
| 32* | 002735.CO | | L REEL | (AY)DD(BU,64,6),REEL Y | 16000132 |
| 33* | | | | CNOP | 16000133 |
| 34* | 002736.CO * | | L BLANK | (AY)DD(BU,48,6), Y -BCD BLANKS | 16000134 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------------|------------|----------------------------|----------|
| 1* | | | | | | 16000136 |
| 2* | | | | | DECODE SECTION OF MCP | 16000137 |
| 3* | | | | | | 16000138 |
| 4* | | | | | DISPATCHER ENTRY TO DECODE | 16000139 |
| 5* | | | | | | 16000140 |
| 6* | | | | | | 16000141 |
| 7* | 002737.00 | C02571.00 | 80 000023.20 | E0 L DECOD | SWAPI,8,LTY,LIODX | 16000142 |
| 8* | 002740.00 | C00000.06 | 3F | | LV,LIODX,0.0(\$15) | 16000143 |
| 9* | 002740.40 | C00000.46 | 5F | | LC,LIODX,0.32(\$15) | 16000144 |
| 10* | 002741.00 | C02745.70 | 42 | | BXCZ,LOVER | 16000145 |
| 11* | 002741.40 | C02601.62 | 80 002745.74 | 0E | BB1,LOVBIT,LOVER | 16000146 |
| 12* | 002742.40 | C00024.00 | 80 002720.06 | E0 | SWAPI,3,LXPP,LNOSAV | 16000147 |
| 13* | 002743.40 | C02557.00 | 80 000024.06 | AC | TI,3,LPPURF,LXPP | 16000148 |
| 14* | 002744.40 | C00000.22 | 04 | | Z,0.0(LXPP) | 16000149 |
| 15* | 002745.00 | C00001.22 | 04 | | Z,1.0(LXPP) | 16000150 |
| 16* | 002745.40 | C00001.00 | 83 000000.20 | 50 L CVER | L(BU,64),1.0(LIODX),C.0 | 16000151 |
| 17* | 002746.40 | C02601.51 | 80 002755.34 | 02 | BB,LFINB,LINIT | 16000152 |
| 18* | 002747.40 | C03170.34 | C6 | | BRZZ,LFINAL | 16000153 |
| 19* | 002750.00 | C00001.00 | 83 030000.20 | 50 L FWA | L(BU,24),1.0(LIODX),0.0 | 16000154 |
| 20* | 002751.00 * | C02734.00 | 80 030000.21 | 10 | K(BU,24),LIOD,0.0 | 16000155 |
| 21* | 002752.00 | C03021.76 | C6 | | BAEZ,LIODRN | 16000156 |
| 22* | 002752.40 | C02735.00 | 80 030000.21 | 10 | K(BU,24),LREEL,0.0 | 16000157 |
| 23* | 002753.40 | C03147.76 | C6 | | BAEZ,LREELR | 16000158 |
| 24* | 002754.00 | C00011.37 | C2 | | LCI,\$15,9.0 | 16000159 |
| 25* | 002754.40 | C03241.10 | 00 | | B,LERROR | 16000160 |
| 26* | | | | | | 16000161 |
| 27* | | | | | | 16000162 |
| 28* | | | | | INITIALIZATION ROUTINE | 16000163 |
| 29* | | | | | | 16000164 |
| 30* | | | | | | 16000165 |
| 31* | 002755.00 | C00001.00 | 83 030000.20 | 50 L INIT | L(BU,24),1.0(LIODX) | 16000166 |
| 32* | 002756.00 | C02603.13 | 10 | | SX,LXIO,LSAVEY | 16000167 |
| 33* | 002756.40 | C02604.15 | 10 | | SX,LXFR,LSAVEZ | 16000168 |
| 34* | 002757.00 | C02760.74 | C2 | | BRZ,LINITA+1. | 16000169 |
| 35* | 002757.40 | C02601.51 | 80 001000.00 | FC L INITA | CMOC00(BU,1),LFINB,C.0 | 16000170 |
| 36* | 002760.40 | C02601.73 | 80 001000.00 | FC | CMOC00,LINFAD | 16000171 |
| 37* | 002761.40 | C02601.53 | 80 007000.00 | FO | CMOC00,LCCUNT | 16000172 |
| 38* | 002762.40 | C02606.24 | 10 | | LX,LWORKX,LCLEAR | 16000173 |
| 39* | 002763.00 | C00000.22 | CA | | Z,0.0(LWORKX) | 16000174 |
| 40* | 002763.40 | C02763.25 | 4C | | CBR+,LWORKX,\$-.32 | 16000175 |
| 41* | 002764.00 | C00027.16 | 10 | | LX,LXSU,LXSU | 16000176 |
| 42* | 002764.40 | C02767.71 | 46 | | BXVZZ,LCOPU+1. | 16000177 |
| 43* | 002765.00 * | C02617.17 | 0D | | V-I,LXSU,LSYMU-1. | 16000178 |
| 44* | 002765.40 | C00027.16 | 50 | | LC,LXSU,LXSU | 16000179 |
| 45* | 002766.00 | C02620.22 | 00 | | Z,LSYMU | 16000180 |
| 46* | 002766.40 | C02620.22 | 07 | | L COPU Z,LSYMU(LXSU) | 16000181 |
| 47* | 002767.00 | C02766.57 | C8 | | CB-,LXSU,LOOPU | 16000182 |
| 48* | 002767.40 | C00030.20 | 10 | | LX,LXSC,LXSC | 16000183 |
| 49* | 002770.00 | C02773.31 | 46 | | BXVZZ,LCOPC+1. | 16000184 |
| 50* | 002770.40 | C02657.21 | 0D | | V-I,LXSC,LSYMC-1. | 16000185 |
| 51* | 002771.00 | C00030.20 | 50 | | LC,LXSC,LXSC | 16000186 |
| 52* | 002771.40 | C02660.22 | C0 | | Z,LSYMC | 16000187 |
| 53* | 002772.00 | C02660.22 | C8 | | L COPC Z,LSYMC(LXSC) | 16000188 |
| 54* | 002772.40 | C02772.21 | C8 | | CB-,LXSC,LOOPC | 16000189 |
| 55* | 002773.00 | C00031.22 | 10 | | LX,LXNT,LXNT | 16000190 |
| 56* | 002773.40 | C02776.71 | 46 | | BXVZZ,LCOPN+1. | 16000191 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 002774 |
|------|-------------|-----------|--------|---------|------------------------------|----------------------------------|----------|
| 1* | 002774.00 | 002677.23 | 00 | | V-I,LXNT,LNTPU-1. | | |
| 2* | 002774.40 | 000031.22 | 50 | | LC,LXNT,LXNT | | 16000192 |
| 3* | 002775.00 | 002700.22 | 00 | | Z,LNTPU | | 16000193 |
| 4* | 002775.40 | 002700.22 | 09 | L COPN | Z,LNTPU(LXNT) | | 16000194 |
| 5* | 002776.00 | 002775.63 | 08 | | CB-,LXNT,LOOPN | | 16000195 |
| 6* | 002776.40 | 000000.44 | 84 | | L(BU,1),TJBPRO(LXPP) | -IS PP REF TBL AVAILABLE | 16000196 |
| 7* | 002777.40 | 003003.74 | 04 | | BZRZZ,LINITB | - YES----STEP DOWN. | 16000197 |
| 8* | 003000.00 * | 000000.00 | 84 | | L(BU,18),TCRREF(LXPP) | -IS PP REF SLOT AVAILABLE | 16000198 |
| 9* | 003001.00 | 003003.74 | 06 | | BRZZ,LINITB | - YES----STEP DOWN. | 16000199 |
| 10* | 003001.40 | 000001.37 | 02 | | LCI,\$15,1.0 | -NO -- ERROR FLAG 1. | 16000200 |
| 11* | 003002.00 | 002601.51 | 80 | | CM1111(BU,1),LFINB,C.0 | -SET FINAL BIT TO 1. | 16000201 |
| 12* | 003003.00 | 003262.50 | 00 | | B,LERR4 | | 16000202 |
| 13* | 003003.40 | 000000.22 | 04 | L INITB | Z,0.0(LXPP) | -CLEAR SLCT. | 16000203 |
| 14* | 003004.00 | 777777.00 | 83 | | \$TI,1,-1.0(LIODX),1.0(LXPP) | -STORE PP ID | 16000204 |
| 15* | 003005.00 | 000000.47 | 84 | | CM1111(BU,1),TLPPEN(LXPP) | | 16000205 |
| 16* | 003006.00 | 000001.00 | 83 | | L(BU,24),1.0(LIODX) | -LOCK FOR REJ END COMBO | 16000206 |
| 17* | 003007.00 | 003170.34 | 02 | | BRZ,LFINAL | - (IF SO | 16000207 |
| 18* | 003007.40 | 002734.00 | 80 | | K(BU,24),LIOD | -IS THE FIRST CARD AN IOG | 16000208 |
| 19* | 003010.40 | 003012.36 | 02 | | BAE,LINBB | -YES | 16000209 |
| 20* | 003011.00 | 000010.37 | 02 | | LCI,\$15,8.0 | -NO SEND ERROR FLAG | 16000210 |
| 21* | 003011.40 | 003241.10 | 00 | | B,LERROR | | 16000211 |
| 22* | 003012.00 | 002601.62 | 80 | | BB,LQVBIT,LINITC-.32 | -IF NOT OVERLAP MODE | 16000212 |
| 23* | 003013.00 | 000000.00 | 85 | L INBB | L(BU,64),0.0(LXIO),C.0 | -IS IOREQ SLOT AVAILABLE. | 16000213 |
| 24* | 003014.00 * | 003015.74 | 06 | | BRZZ,LINITC | - YES----STEP DOWN. | 16000214 |
| 25* | 003014.40 | 003030.50 | 00 | | B,LIOFUL | - NO----TO SPECIAL ROUTINE. | 16000215 |
| 26* | 003015.00 | 000000.22 | 05 | | Z,0.0(LXIO) | | 16000216 |
| 27* | 003015.40 | 000000.13 | 34 | L INITC | SV,LXIO,0.0(LXPP) | -PUT CRREF IN PPREF SLCT. | 16000217 |
| 28* | 003016.00 | 002601.40 | 80 | | CMOC00(BU,9),LIOSCR,C.0 | -SET IOSQ COUNTER TO 1. | 16000218 |
| 29* | 003017.00 | 002601.40 | 80 | | M+1(BU,9),LIOSCR | | 16000219 |
| 30* | 003020.00 | 002601.31 | 80 | | CMOC00,LTAPEC | -SET REEL COUNT TO ZERO | 16000220 |
| 31* | 003021.00 | 002750.10 | 00 | | B,LFWA | -BRANCH TO TEST FWA. | 16000221 |
| 32* | | | | | | | 16000222 |
| 33* | | | | | | | 16000223 |
| 34* | | | | | | | 16000224 |
| 35* | | | | | | | 16000225 |
| 36* | | | | | | | 16000226 |
| 37* | 003021.40 | 000000.64 | 84 | L IOG | M+1,TIOGCT(LXPP) | -STEP IOG COUNTER | 16000227 |
| 38* | 003022.40 | 000000.64 | 83 | | L,LIREF(LIODX),0.0 | -COMPARE FOR LARGEST | 16000228 |
| 39* | 003023.40 | 000000.50 | 84 | | K,TLREFN(LXPP) | - PP REFERENCE NUMBER | 16000229 |
| 40* | 003024.40 | 003027.36 | 46 | | BALZ,LICDA | -THIS NO. IS LOW....STEP DOWN. | 16000230 |
| 41* | 003025.00 | 000000.50 | 84 | | ST,TLREFN(LXPP) | -HIGH.... REPLACE BY THIS NUMBER | 16000231 |
| 42* | 003026.00 | 002601.62 | 80 | | BB,LQVBIT,LIOD1-C.32 | | 16000232 |
| 43* | 003027.00 * | 000000.00 | 85 | L IOGA | L(BU,64),0.0(LXIO),0.0 | -IS IOREQ SLOT AVAILABLE. | 16000233 |
| 44* | 003030.00 | 003032.34 | 06 | | BRZZ,LIOD1 | - YES----STEP DOWN. | 16000234 |
| 45* | 003030.40 | 000002.37 | 02 | L IOFUL | LCI,\$15,2.0 | -NO -- ERROR FLAG 2. | 16000235 |
| 46* | 003031.00 | 003262.50 | 00 | | B,LERR4 | | 16000236 |
| 47* | 003031.40 | 000000.22 | 05 | | Z,0.0(LXIO) | | 16000237 |
| 48* | 003032.00 | 000002.00 | 83 | L IOG1 | L(BU,48),2.0(LIODX),0.0 | -IS TYPE TAPE. | 16000238 |
| 49* | 003033.00 | 002733.00 | 80 | | K(BU,48),LTAPE,0.0 | | 16000239 |
| 50* | 003034.00 | 003077.36 | 06 | | BAEZ,LICDTP | - YES----TO TAPE SECTION. | 16000240 |
| 51* | 003034.40 | 002601.52 | 80 | | CM1111(BU,1),LNTB,0.0 | - NO----SET NON-TAPE BIT TO 1. | 16000241 |
| 52* | 003035.40 | 002570.24 | 10 | | LX,LWORKX,LXTYPE | -DECODE TYPE AND ENTER IN | 16000242 |
| 53* | 003036.00 | 000002.00 | 83 | L TYPR | L(BU,48),2.0(LIODX) | -IO REQUEST SLCT | 16000243 |
| 54* | 003037.00 | 000000.00 | 8A | | K(BU,48),.0(LWORKX) | | 16000244 |
| 55* | 003040.00 | 003042.36 | 02 | | BAE,LCODE | -TYPE FOUND | 16000245 |
| 56* | 003040.40 | 003036.25 | 48 | | CB+,LWORKX,LTYPR | -NO TRY AGAIN | 16000246 |
| | | | | | | | 16000247 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 003041 |
|------|-------------|-----------|--------|---------|----------------------------|---------------------------------------|----------|
| 1* | 003041.00 | 000006.37 | 02 | | LCI,\$15,6.0 | | 16000248 |
| 2* | 003041.40 | 003241.10 | 00 | | B,LERROR | | 16000249 |
| 3* | 003042.00 | 002567.22 | 10 | L CODE | LX,LXNT,LNTPUX | | 16000250 |
| 4* | 003042.40 * | 000000.00 | 89 | L COPNT | L(BU,48),0.0(LXNT),0.0 | -IS THIS CHANNEL IN THE | 16000251 |
| 5* | 003043.40 | 003050.74 | C6 | | BRZZ,LICD2 | - NON-TAPE TABLE. | 16000252 |
| 6* | 003044.00 | 000004.00 | 83 | | K(BU,48),4.0(LIODX),0.0 | - NO----STEP DOWN. | 16000253 |
| 7* | 003045.00 | 003050.36 | C0 | | BZAE,LNONCH | -NO EQUAL | 16000254 |
| 8* | 003045.40 | 000000.60 | 89 | | LF(BU,4),.48(LXNT) | -EQUAL CHAN FOUND CHECK EQUIP TYPE | 16000255 |
| 9* | 003046.40 | 000000.74 | 8A | | KF(BU,4),.60(LWORKX) | | 16000256 |
| 10* | 003047.40 | 003062.36 | C2 | | BAE,LNCH | -IF EQUIP IS SAME AND CHAN SAME CGNT. | 16000257 |
| 11* | 003050.00 | 003042.63 | 48 | L NONCH | CB+,LXNT,LOOPNT | -TRY AGAIN | 16000258 |
| 12* | 003050.40 | 000004.00 | 83 | L IOB2 | TI,1,4.0(LIODX),0.0(LXNT) | -PLT CHANNEL IN NON-TAPE TABLE. | 16000259 |
| 13* | 003051.40 | 002601.31 | 80 | | M+1,LTAPCC | -STEP REEL COUNTER | 16000260 |
| 14* | 003052.40 | 000000.74 | 8A | | L(BU,4),.60(LWORKX) | -GET TYPE | 16000261 |
| 15* | 003053.40 | 000000.60 | 89 | | SF(BU,4),.48(LXNT) | -AND PLACE IN CHANNEL TABLE | 16000262 |
| 16* | 003054.40 | 000000.03 | 85 | | ST(BU,4),TTYPE(LXIO) | | 16000263 |
| 17* | 003055.40 | 000000.34 | 84 | L FOUND | M+1,TUNCT(LXPP) | -STEP UNIT COUNT | 16000264 |
| 18* | 003056.40 * | 002601.40 | 80 | | L(BU,9),LIDSCR,0.0 | -ENTER IODSQ IN IOREQ. SLOT. | 16000265 |
| 19* | 003057.40 | 000000.23 | 85 | | ST(BU,9),TIODSQ(LXIO) | | 16000266 |
| 20* | 003060.40 | 002601.40 | 80 | | M+1(BU,9),LIDSCR | -STEP IODSQ. | 16000267 |
| 21* | 003061.40 | 000001.13 | 07 | | V+ICR,LXIO,1.0 | -STEP IOREQ. INDEX. | 16000268 |
| 22* | | | | | | | 16000269 |
| 23* | | | | | | | 16000270 |
| 24* | | | | | DISK - TRACK CHECK ROUTINE | | 16000271 |
| 25* | | | | | | | 16000272 |
| 26* | 003062.00 | 000002.00 | 83 | L NON | LF(BU,48),2.0(LIODX) | -IS TYPE DISK OR TRACK. | 16000273 |
| 27* | 003063.00 | 002723.00 | 80 | | KF(BU,48),LDISK | | 16000274 |
| 28* | 003064.00 | 003066.36 | C6 | | BAEZ,LNEW | - DISK----BRANCH. | 16000275 |
| 29* | 003064.40 | 002724.00 | 80 | | KF(BU,48),LTRACK | | 16000276 |
| 30* | 003065.40 | 003237.76 | C4 | | BZAEZ,LNORM | - NON DISK OR TRACK | 16000277 |
| 31* | 003066.00 | 000005.00 | 83 | L NEW | L(BU,48),5.0(LIODX) | -IS NUMBER FIELD BLANK | 16000278 |
| 32* | 003067.00 | 002736.00 | 80 | | KF,LBLANK | | 16000279 |
| 33* | 003070.00 | 003075.36 | C6 | | BAEZ,LDSKD | -YES | 16000280 |
| 34* | 003070.40 | 000023.24 | 30 | | LV,LWORKX,LIODX | -IS THE NUMBER FIELD ZERO | 16000281 |
| 35* | 003071.00 | 000010.25 | 02 | | LCI,LWORKX,8 | | 16000282 |
| 36* | 003071.40 * | 002601.65 | 80 | | LF(BU,6),LBLEZCR+.2 | | 16000283 |
| 37* | 003072.40 | 000005.00 | 8A | LDSKC | KF(BU,6,6),5.(LWORKX) | | 16000284 |
| 38* | 003073.40 | 003237.76 | C4 | | BZAEZ,LNORM | -A NON ZERO ENTRY | 16000285 |
| 39* | 003074.00 | 002601.24 | 80 | | V+,LWORKX,LNO6 | -STEP TO NEXT CHAR | 16000286 |
| 40* | 003074.40 | 003072.64 | 48 | | CB,LWORKX,LDSKC | | 16000287 |
| 41* | 003075.00 | 000000.77 | 89 | L DSKD | BZB1,LZBIT(LXNT),LNORM | -IF NO OTHER INF REQUSETD | 16000288 |
| 42* | 003076.00 | 000007.37 | 02 | | LCI,\$15,7.0 | -NO -- ERROR FLAG 7. | 16000289 |
| 43* | 003076.40 | 003241.10 | 00 | | B,LERROR | | 16000290 |
| 44* | | | | | | | 16000291 |
| 45* | | | | | | | 16000292 |
| 46* | | | | | TAPE IOB ROUTINE | | 16000293 |
| 47* | | | | | | | 16000294 |
| 48* | 003077.00 | 002601.52 | 80 | L IOCTP | CMOCCC(BU,1),LNTB,0.0 | -SET NON-TAPE BIT TO 0. | 16000295 |
| 49* | 003100.00 | 002565.16 | 10 | | LX,LXSU,LSYMU | -IS THIS UNIT IN THE | 16000296 |
| 50* | 003100.40 | 000000.00 | 87 | L COPSU | L(BU,48),0.0(LXSU),0.0 | - TAPE TABLE. | 16000297 |
| 51* | 003101.40 | 003104.74 | C6 | | BRZZ,LICD3 | - NO----STEP DOWN. | 16000298 |
| 52* | 003102.00 | 000005.00 | 83 | | K(BU,48),5.0(LIODX),0.0 | | 16000299 |
| 53* | 003103.00 | 003137.76 | C6 | | BAEZ,LSET | - YES----STEP DOWN. | 16000300 |
| 54* | 003103.40 | 003100.57 | 48 | L ETA | CB+,LXSU,LOOPSU | -TRY AGAIN ON A NON-ZERO CT | 16000301 |
| 55* | 003104.00 | 003104.04 | 00 | | BD,\$ | -INTERNAL UNIT TABLE EXCEEDED | 16000302 |
| 56* | 003104.40 | 000005.00 | 83 | L IOB3 | TI,1,5.0(LIODX),0.0(LXSU) | -ENTER UNIT IN TAPE TABLE. | 16000303 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 003105 | |
|------|-------------|-----------|--------|-----------|-----------|-------------------------------------|----------------------------------|----------|
| 1* | 003105.40 * | 002601.31 | 80 | 007000.20 | 50 | L, LTAPEC | -ENTER THE TAPE REEL COUNT | 16000304 |
| 2* | 003106.40 | 000000.62 | 87 | 007000.20 | D0 | ST(BU,7),.50(LXSU) | -IN THE TAPE UNIT TABLE | 16000305 |
| 3* | 003107.40 | 002601.31 | 80 | 007000.22 | B0 | M+1, LTAPEC | -AND BUMP BY ONE | 16000306 |
| 4* | 003110.40 | 002733.74 | 80 | 004000.20 | 50 | L(BU,4), LTAPE+.60, 0.0 | -STORE TAPE TYPE IN | 16000307 |
| 5* | 003111.40 | 000000.03 | 85 | 004000.20 | D0 | ST(BU,4), TTYPE(LXIO) | - IOREQ SLOT | 16000308 |
| 6* | 003112.40 | 002566.20 | 10 | | | LX, LXSC, LSYMCX | -IS CHANNEL IN SYMBOLIC | 16000309 |
| 7* | 003113.00 | 000000.00 | 88 | 060000.20 | 50 | L COPSC L(BU,48), 0.0(LXSC), 0.0 | - CHANNEL TABLE. | 16000310 |
| 8* | 003114.00 | 003117.34 | C6 | | | BRZZ, LIOD4 | - NC----STEP DOWN. | 16000311 |
| 9* | 003114.40 | 000004.00 | 83 | 060000.21 | 10 | K(BU,48), 4.0(LIODX), 0.0 | | 16000312 |
| 10* | 003115.40 | 003120.36 | C6 | | | BAEZ, LCHAN | - YES----STEP DOWN. | 16000313 |
| 11* | 003116.00 | 003113.21 | 48 | | | CB+, LXSC, LOOPSC | -TRY AGAIN ON NON-ZERO COUNT. | 16000314 |
| 12* | 003116.40 | 003116.44 | 00 | | | BD, \$ | -INTERNAL CHANNEL TABLE EXCEEDED | 16000315 |
| 13* | 003117.00 | 000004.00 | 83 | 000000.02 | A8 | L IOD4 TI, 1, 4.0(LIODX), 0.0(LXSC) | -ENTER CHANNEL IN TABLE. | 16000316 |
| 14* | 003120.00 | 002660.21 | 0D | | | L CHAN V-I, LXSC, LSYMC | -COMPUTE WHERE IN TABLE | 16000317 |
| 15* | 003120.40 | 000011.21 | 30 | | | SV, LXSC, \$R | | 16000318 |
| 16* | 003121.00 * | 000000.71 | 87 | 007027.20 | D0 | ST(BU,7), 0.57(LXSU), 46 | -CHAN NAME WITH THE UNIT NAME | 16000319 |
| 17* | 003122.00 | 000004.00 | 83 | 060000.20 | 50 | L(BU,48), 4.0(LIODX) | -IS CHANNEL SYMBOL BLANK | 16000320 |
| 18* | 003123.00 | 002736.00 | 80 | 060000.21 | 10 | K(BU,48), LBLANK | | 16000321 |
| 19* | 003124.00 | 003130.76 | C4 | | | BZAEZ, LENTER | - NO----STEP DOWN. | 16000322 |
| 20* | 003124.40 | 000000.13 | 85 | 007000.00 | F0 | CM0000(BU,7), TRLSYM(LXIO) | | 16000323 |
| 21* | 003125.40 | 000000.60 | 87 | 001000.36 | F0 | CM1111(BU,1), 0.48(LXSU) | -SET THE UNIT SLOT TO NULL CHAN | 16000324 |
| 22* | 003126.40 | 002660.21 | 05 | | | V+I, LXSC, LSYMC | -RESTORE THE CHAN IX | 16000325 |
| 23* | 003127.00 | 000000.00 | 88 | 000000.00 | F0 | CM0000(BU,64), 0.0(LXSC) | -CLEAR A BLANK FROM THE CHAN TBL | 16000326 |
| 24* | 003130.00 | 003055.50 | 00 | | | B, LFOUND | -BRANCH | 16000327 |
| 25* | 003130.40 | 000001.21 | 05 | | | L ENTER V+I, LXSC, 1.0 | -INCREASE BY ONE FOR RLSYM | 16000328 |
| 26* | 003131.00 | 000030.13 | 80 | 007000.20 | 50 | L(BU,7), LXSC+.11, 0.0 | | 16000329 |
| 27* | 003132.00 | 000000.13 | 85 | 007000.20 | D0 | ST(BU,7), TRLSYM(LXIO) | | 16000330 |
| 28* | 003133.00 | 000032.22 | 00 | | | Z, LWORKX | -STORE RLSYM SHIFTED 3 BITS | 16000331 |
| 29* | 003133.40 | 000032.16 | 80 | 007000.20 | D0 | ST(BU,7), LWORKX+.14, 0.0 | - FOR SUBSEQUENT SORT. | 16000332 |
| 30* | 003134.40 * | 002606.70 | 8A | 010000.22 | B0 | M+I(BU,8), LRLCT-.8(LWORKX) | -ADD ONE TO PROPER COUNT. | 16000333 |
| 31* | 003135.40 | 002601.53 | 80 | 007000.20 | D0 | ST(BU,7), LCCOUNT | | 16000334 |
| 32* | 003136.40 | 002657.21 | 05 | | | V+I, LXSC, LSYMC-1. | -RESTORE CHANNEL INDEX. | 16000335 |
| 33* | 003137.00 | 003055.50 | 00 | | | B, LFOUND | -BRANCH | 16000336 |
| 34* | 003137.40 | 000004.00 | 83 | 060000.06 | 70 | LSET LF(BU,48), 4.0(LIODX) | -IS THE CARD CHANNEL NULL | 16000337 |
| 35* | 003140.40 | 002736.00 | 80 | 060000.23 | 10 | KF(BU,48), LBLANK | | 16000338 |
| 36* | 003141.40 | 003142.76 | C0 | | | BZAE, LSETA | -IF NOT NULL CONTINUE LOCKING | 16000339 |
| 37* | 003142.00 | 003237.74 | C0 | | | BZRZ, LNORM | -YES A NULL CHANNEL | 16000340 |
| 38* | 003142.40 | 002566.20 | 10 | | | LX, LXSC, LSYMCX | -IS CHANNEL IN THE SYMBOLIC | 16000341 |
| 39* | 003143.00 | 000000.71 | 87 | 007027.20 | 50 | L(BU,7), 0.57(LXSL), 46 | -MOVE INDEX DIRECTLY TO THE | 16000342 |
| 40* | 003144.00 | 000011.20 | 80 | | | V+, LXSC, \$R | -ASSOCIATED CHAN SLOT | 16000343 |
| 41* | 003144.40 | 000000.00 | 88 | 060000.20 | 50 | L(BU,48), 0.0(LXSC), 0.0 | - CHANNEL TABLE. | 16000344 |
| 42* | 003145.40 | 000004.00 | 83 | 060000.21 | 10 | K(BU,48), 4.0(LIODX), 0.0 | | 16000345 |
| 43* | 003146.40 | 003237.76 | C6 | | | BAEZ, LNCRM | - YES----NORMAL RETURN. | 16000346 |
| 44* | 003147.00 | 003103.50 | 00 | | | B, LETA | | 16000347 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | |
|------|-------------|-----------|--------------|------------|---|--------------------------------|----------|
| 1* | | | | | | 16000349 | |
| 2* | | | | | THE REEL CARD ROUTINE | 16000350 | |
| 3* | | | | | | 16000351 | |
| 4* | | | | | | 16000352 | |
| 5* | 003147.40 * | C02601.52 | 80 003151.74 | CC L REELR | BZB,LNTB,LREEL1 | -BRANCH IF NON-TAPE BIT 0. | 16000353 |
| 6* | 003150.40 | C00005.37 | C2 | | LCI,\$15,5.0 | -BIT ONE -- ERROR FLAG 5. | 16000354 |
| 7* | 003151.00 | C03241.10 | 00 | | B,LERROR | -BRANCH TO ERROR ROUTINE. | 16000355 |
| 8* | 003151.40 | C00000.61 | 87 003237.74 | OE L REEL1 | BB1,LRLBIT(LXSU),LNORM | -BRANCH ON REEL BIT ONE | 16000356 |
| 9* | | | | | | IF ZERO MAKE IT A ONE | 16000357 |
| 10* | 003152.40 | C00002.00 | 83 060000.06 | 7C | LF(BU,48),2.0(LIODX) | -TEST FOR BLANK FREEL SYMBOLIC | 16000358 |
| 11* | 003153.40 | C02736.00 | 80 060600.21 | 10 | K,LBLANK | | 16000359 |
| 12* | 003154.40 | C03237.76 | C6 | | BAEZ,LNCRM | -NORMAL RETURN IF BLANK. | 16000360 |
| 13* | 003155.00 | C02601.62 | 80 003160.74 | 02 | BB,LCOVBIT,LREEL2-0.32 | | 16000361 |
| 14* | 003156.00 | C00000.00 | 86 000000.20 | 50 | L(BU,64),0.0(LXFR),0.0 | -IS FREEL SLOT AVAILABLE. | 16000362 |
| 15* | 003157.00 | C03161.34 | C6 | | BRZZ,LREEL2 | - YES---STEP DOWN. | 16000363 |
| 16* | 003157.40 | C00003.37 | C2 | | LCI,\$15,3.0 | -NO ERROR FLAG SI 3. | 16000364 |
| 17* | 003160.00 | C03262.50 | C0 | | B,LERR4 | | 16000365 |
| 18* | 003160.40 | C00000.22 | 06 | | Z,0.0(LXFR) | | 16000366 |
| 19* | 003161.00 | C00002.00 | 83 000000.02 | A6 L REEL2 | TI,1,2.0(LIODX),0.0(LXFR) | -STORE FREEL SYMBOL IN SLOT. | 16000367 |
| 20* | 003162.00 | C00000.00 | 84 000000.20 | 50 | L(BU,64),0.0(LXPP),0.0 | -GET PROPER IOREQ SLOT. | 16000368 |
| 21* | 003163.00 * | C00000.62 | 87 007027.20 | 10 | +(BU,7),.50(LXSU),46 | | 16000369 |
| 22* | 003164.00 | C00032.00 | 80 000000.20 | D0 | ST(BU,64),LWORKX,0.0 | | 16000370 |
| 23* | 003165.00 | C00026.00 | 80 022000.20 | 50 | L(BU,18),LXFR,0.0 | -STORE FREEL ADDRESS | 16000371 |
| 24* | 003166.00 | C00000.34 | 8A 022000.20 | D0 | ST(BU,18),TFREEL(LWORKX) | - IN IOREQ SLOT | 16000372 |
| 25* | 003167.00 | C00001.15 | 07 | | V+ICR,LXFR,1.0 | -STEP FREEL INDEX. | 16000373 |
| 26* | 003167.40 | C03237.50 | 00 | | B,LNORM | -NORMAL RETURN. | 16000374 |
| 27* | | | | | | | 16000375 |
| 28* | | | | | | | 16000376 |
| 29* | | | | | FINAL ROUTINE | | 16000377 |
| 30* | | | | | | | 16000378 |
| 31* | | | | | | | 16000379 |
| 32* | 003170.00 | 777777.00 | 83 000001.02 | A4 L FINAL | \$TI,1,-1.0(LIODX),1.0(LXPP) | -STORE PP ID | 16000380 |
| 33* | 003171.00 | 002601.51 | 80 003174.34 | OC | BZB1,LFINB,LFIN2-1. | -IS FINAL BIT 1. | 16000381 |
| 34* | | | | | IF 1, GO ON...IF C, MAKE IT 1 AND BRANCH. | | 16000382 |
| 35* | 003172.00 | C00000.13 | 34 | | SV,LXIC,0.0(LXPP) | -STORE CRREF. | 16000383 |
| 36* | 003172.40 | C00000.32 | 8F 003241.34 | C2 | BB,C.26(\$15),LERROR | -BRANCH ON REJECT END COMBO. | 16000384 |
| 37* | 003173.40 | C03232.10 | 00 | | B,LFIN3 | -BRANCH TO STEP PPREF TABLE. | 16000385 |
| 38* | 003174.00 | C00000.32 | 8F 003241.34 | 02 | BB,0.26(\$15),LERROR | -BRANCH ON REJECT END COMBO. | 16000386 |
| 39* | 003175.00 | C00000.64 | 84 014000.20 | 50 L FIN2 | L,TIODCT(LXPP) | -IS LARGEST PP REFERENCE NO. | 16000387 |
| 40* | 003176.00 | C00000.50 | 84 014000.21 | 10 | K,TLREFN(LXPP) | - LARGER THAN THE IO DCT | 16000388 |
| 41* | 003177.00 * | C03200.76 | 46 | | BALZ,LFINI | - YES...STEP DOWN. | 16000389 |
| 42* | 003177.40 | C00000.50 | 84 014000.20 | D0 | ST,TLREFN(LXPP) | - NO... REPLACE BY IO DCT | 16000390 |
| 43* | | | | | | | 16000391 |
| 44* | | | | | SORT IOREQ TABLE ENTRIES FOR THIS PROBLEM | | 16000392 |
| 45* | | | | | PROGRAM BY UNIT-PER-CHANNEL SIZE. | | 16000393 |
| 46* | | | | | | | 16000394 |
| 47* | 003200.40 | C02605.23 | 10 | L FINI | SX,LXNT,LPUT | -ENTER SORT---SAVE LXNT INDEX. | 16000395 |
| 48* | 003201.00 | C00032.22 | 00 | | Z,LWORKX | -ZERO 2 INDICES. | 16000396 |
| 49* | 003201.40 | C00023.22 | 00 | | Z,LIODX | | 16000397 |
| 50* | 003202.00 | C00000.24 | 34 | | LV,LWORKX,0.0(LXPP) | -PUT CRREF IN XA VF. | 16000398 |
| 51* | 003202.40 | C02601.53 | 80 007027.20 | 50 | L(BU,7),LCOUNT,46 | -LCAD RLSYM NO. COUNT. | 16000399 |
| 52* | 003203.40 | C03231.74 | C6 | | BRZZ,LSKIP | -NO RLSYMS---SKIP SORT. | 16000400 |
| 53* | 003204.00 | C00011.24 | 50 | | LC,LWORKX,\$R | -PUT COUNT INTO XA CF. | 16000401 |
| 54* | 003204.40 | C02602.25 | 50 | | SC,LWORKX,LSAVE | | 16000402 |
| 55* | 003205.00 | C02602.06 | 50 | L SEARA | LC,LIODX,LSAVE | -OUTER LOOP---LOAD XB CF. | 16000403 |
| 56* | 003205.40 | 002607.07 | 01 | | LVI,LIODX,LRLCT | -INITIALIZE XB AND XC VF. | 16000404 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 003206 |
|------|-------------|---------------|---------|--------------------------------|----------|----------|
| 1* | 003206.CC | 002607.23 01 | | LVI,LXNT,LRLCT | | 16000405 |
| 2* | 003206.40 | 000000.10 83 | | L(V+I)(BU,8),0.8(LIODX),46 | | 16000406 |
| 3* | 003207.40 | 000000.10 83 | | 110027.20 50 | | 16000407 |
| 4* | 003210.40 | 003212.76 44 | L SEARB | KF(V+I)(BU,8),0.8(LIODX),46 | | 16000408 |
| 5* | 003211.CC | 777777.70 83 | | BZALZ,LSEARC | | 16000409 |
| 6* | 003212.CC | 003211.23 80 | | \$L(BU,8),-0.8(LIODX),46 | | 16000410 |
| 7* | 003212.40 * | 003207.46 48 | L SEARC | LVE,LXNT,\$-1. | | 16000411 |
| 8* | 003213.CC | 000011.06 50 | | CB,LIODX,LSEARB | | 16000412 |
| 9* | 003213.40 | 000000.00 89 | | LC,LIODX,\$R | | 16000413 |
| 10* | 003214.40 | 002607.23 00 | | CMOC00(BU,8),0.0(LXNT),0.0 | | 16000414 |
| 11* | 003215.CC | 000032.06 30 | | V-I,LXNT,LRLCT | | 16000415 |
| 12* | 003215.40 | 002614.00 89 | | LV,LIODX,LWORKX | | 16000416 |
| 13* | 003216.40 | 000000.22 83 | L SEARD | L(BU,8),LCT(LXNT),0.0 | | 16000417 |
| 14* | 003217.40 | 003373.07 01 | | BZB,TLAST(LIODX),LSEARF | | 16000418 |
| 15* | 003220.CC | 000000.37 05 | | LVI,LIODX,TIOREQ | | 16000419 |
| 16* | 003220.40 | 003221.70 42 | | V+I,\$15,0.0 | | 16000420 |
| 17* | 003221.CC | 003514.07 01 | | BXCZ,LSEARF | | 16000421 |
| 18* | 003221.40 | 000000.13 83 | L SEARF | LVI,LIODX,TUIORQ | | 16000422 |
| 19* | 003222.40 | 003224.36 06 | | KF(BU,7),.11(LIODX) | | 16000423 |
| 20* | 003223.CC | 000001.07 05 | | BAEZ,LSEARE | | 16000424 |
| 21* | 003223.40 | 003216.50 00 | | V+I,LIODX,1.0 | | 16000425 |
| 22* | 003224.CC | 000000.00 8A | L SEARE | B,LSEARD | | 16000426 |
| 23* | 003225.CC | 000001.25 05 | | SWAPI,1,0.0(LWORKX),0.0(LIODX) | | 16000427 |
| 24* | 003225.40 * | 000000.22 8A | | V+I,LWORKX,1.0 | | 16000428 |
| 25* | 003226.40 | 003373.25 01 | | BZB,TLAST(LWORKX),LSEARG | | 16000429 |
| 26* | 003227.CC | 000000.37 05 | | LVI,LWORKX,TIOREQ | | 16000430 |
| 27* | 003227.40 | 003230.70 42 | | V+I,\$15,0.0 | | 16000431 |
| 28* | 003230.CC | 003514.25 01 | | BXCZ,LSEARG | | 16000432 |
| 29* | 003230.40 | 003216.47 48 | L SEARG | LVI,LWORKX,TUIORQ | | 16000433 |
| 30* | 003231.CC | 003205.24 48 | | CB+,LIODX,LSEARD | | 16000434 |
| 31* | 003231.40 | 002605.22 10 | L SKIP | CB,LWORKX,LSEARA | | 16000435 |
| 32* | 003232.CC | 000000.47 84 | L FIN3 | LX,LXNT,LPUT | | 16000436 |
| 33* | 003233.CC | 002613.11 10 | | CMOC00(BU,1),TLPPEN(LXPP) | | 16000437 |
| 34* | 003233.40 | 000002.11 07 | | SX,LXPP,LASTPP | | 16000438 |
| 35* | 003234.CC | 000000.47 84 | | V+ICR,LXPP,2.0 | | 16000439 |
| 36* | 003235.CC | 002601.62 80 | | CM1111(BU,1),TLPPEN(LXPP) | | 16000440 |
| 37* | 003236.CC | 002720.00 80 | | BZB,LCVBIT,LNORM | | 16000441 |
| 38* | 003237.CC | 003237.50 00 | | SWAPI,3,LNDSAV,LXPP | | 16000442 |
| | | | | B,LNORM | | |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|-----------------|---------|---------------------------|----------|
| 1* | | | | | | 16000444 |
| 2* | | | | | NORMAL RETURN ROUTINE | 16000445 |
| 3* | | | | | | 16000446 |
| 4* | | | | | | 16000447 |
| 5* | 003237.40 | CC2571.CC | 80 000023.20 EC | L NCRM | SWAPI,8,LTY,LIODX | 16000448 |
| 6* | 003240.40 | CC0002.1C | CF | | B,2.0(\$15) | 16000449 |
| 7* | | | | | | 16000450 |
| 8* | | | | | | 16000451 |
| 9* | | | | | ERROR RETURN ROUTINE | 16000452 |
| 10* | | | | | | 16000453 |
| 11* | | | | | | 16000454 |
| 12* | 003241.00 * | CC2601.51 | 80 001000.36 F0 | L ERROR | CM1111(BU,1),LFINB,C.C | 16000455 |
| 13* | 003242.00 | CC2602.23 | 10 | | SX,LXNT,LSAVE | 16000456 |
| 14* | 003242.40 | 000000.24 | 14 | | LX,LWORKX,0.0(LXPP) | 16000457 |
| 15* | 003243.00 | 003253.31 | 46 | | BXVZZ,LERR2 | 16000458 |
| 16* | 003243.40 | CCCC00.34 | 84 010027.2C 50 | | L,TUNCT(LXPP),46 | 16000459 |
| 17* | 003244.40 | 003253.34 | C6 | | BRZZ,LERR2 | 16000460 |
| 18* | 003245.00 | 000011.24 | 50 | | LC,LWORKX,\$R | 16000461 |
| 19* | 003245.40 | 000000.22 | 1A | L ERRA | LX,LXNT,C.0(LWORKX) | 16000462 |
| 20* | 003246.00 | 000000.22 | 8A 003247.74 00 | | BZB,TLAST(LWORKX),LERR3 | 16000463 |
| 21* | 003247.00 | 003373.25 | C1 | | LVI,LWORKX,TIOREQ | 16000464 |
| 22* | 003247.40 | 003251.30 | 46 | L ERR3 | BXCZZ,LERR1 | 16000465 |
| 23* | 003250.00 | 000031.23 | 50 | | SC,LXNT,LXNT | 16000466 |
| 24* | 003250.40 | 000000.22 | 09 | | Z,0.0(LXNT) | 16000467 |
| 25* | 003251.00 | 000000.22 | CA | L ERR1 | Z,0.0(LWORKX) | 16000468 |
| 26* | 003251.40 | 003245.65 | 48 | | CB+,LWORKX,LERRA | 16000469 |
| 27* | 003252.00 | 002603.12 | 10 | | LX,LXIC,LSAVEY | 16000470 |
| 28* | 003252.40 | 002604.14 | 10 | | LX,LXFR,LSAVEZ | 16000471 |
| 29* | 003253.00 | 000000.22 | C4 | L ERR2 | Z,0.0(LXPP) | 16000472 |
| 30* | 003253.40 | 000000.45 | 84 001000.36 F0 | | CM1111(BU,1),TRJECT(LXPP) | 16000473 |
| 31* | 003254.40 * | 000000.47 | 84 001000.00 F0 | | CM0000,TLPPEN(LXPP) | 16000474 |
| 32* | 003255.40 | 000011.37 | 50 | | SC,15,\$R | 16000475 |
| 33* | 003256.00 | 002613.11 | 10 | | SX,LXPP,LASTPP | 16000476 |
| 34* | 003256.40 | 000002.11 | 07 | | V+ICR,LXPP,2.0 | 16000477 |
| 35* | 003257.00 | 000000.47 | 84 001000.36 F0 | | CM1111,TLPPEN(LXPP) | 16000478 |
| 36* | 003260.00 | 002602.22 | 10 | | LX,LXNT,LSAVE | 16000479 |
| 37* | 003260.40 | 002601.62 | 80 003262.74 04 | | BZBZ,LOVBIT,LERR4 | 16000480 |
| 38* | 003261.40 | 002720.00 | 80 000024.06 EC | | SWAPI,3,LNDSAV,LXPP | 16000481 |
| 39* | 003262.40 | 002571.00 | 80 000023.20 EC | L ERR4 | SWAPI,8,LTY,LIODX | 16000482 |
| 40* | 003263.40 | 000001.37 | 5F | | SC,\$15,1.0(\$15) | 16000483 |
| 41* | 003264.00 | 000001.50 | CF | | B,1.32(\$15) | 16000484 |
| 42* | | | | | | 16000485 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 003264 |
|------|-------------|---------------|------|-----------------------------------|---------------------------------|----------|
| 1* | 003264.40 * | | | SLC,\$ | | 17000001 |
| 2* | | | | PRNE | | 17000002 |
| 3* | | | - | | | 17000003 |
| 4* | | | - | | | 17000004 |
| 5* | | | - | I/O ASSIGNMENT --- ASSIGN --- | | 17000005 |
| 6* | | | - | | | 17000006 |
| 7* | | | - | | | 17000007 |
| 8* | | | - | | | 17000008 |
| 9* | | | - | | | 17000009 |
| 10* | | | - | THE ASSIGN PROGRAM LINKAGE FORMAT | | 17000010 |
| 11* | | | - | | | 17000011 |
| 12* | | | - | | | 17000012 |
| 13* | | | - | | | 17000013 |
| 14* | | | - | | LVI,\$15,Y | 17000014 |
| 15* | | | - | | B,TASIGN | 17000015 |
| 16* | | | - | | Y XW,A,B,,C | 17000016 |
| 17* | | | - | | BEW,\$ RETURN LOCATION | 17000017 |
| 18* | | | - | | | 17000018 |
| 19* | | | - | | LET A = STATUS OF MACHINE | 17000019 |
| 20* | | | - | | ZERO = NO MACHINE CONF. CHANGE | 17000020 |
| 21* | | | - | | NOT ZERO = MACHINE CONF. CHANGE | 17000021 |
| 22* | | | - | | LET B = EXIT DISPOSITION | 17000022 |
| 23* | | | - | | LET C = MODE | 17000023 |
| 24* | | | - | | ZERO = OVERLAP MODE | 17000024 |
| 25* | | | - | | NOT ZERO = NOT OVERLAP MODE | 17000025 |
| 26* | | | - | | | 17000026 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|------|---|----------|
| 1* | | | - | | 17000028 |
| 2* | | | - | | 17000029 |
| 3* | | | - | SYN CARDS FOR THE LENGTHS OF THE THREE TABLES | 17000030 |
| 4* | | | - | | 17000031 |
| 5* | | | - | | 17000032 |
| 6* | 000000.00+ | +00000024 | NULL | TPPC SYN,20 | 17000033 |
| 7* | 000000.00+ | +00000120 | NULL | T ICC SYN,80 | 17000034 |
| 8* | 000000.00+ | +00000062 | NULL | T FRC SYN,50 | 17000035 |
| | | | | -THE FIRST REEL TABLE LENGHT | |
| 9* | | | - | | 17000036 |
| 10* | 000000.00+ | +00000002 | NULL | T UPPC SYN,2 | 17000037 |
| | | | | -NOT OVERLAP PP REF TABLE LENGTH | |
| 11* | 000000.00+ | +00000024 | NULL | T UIOC SYN,20 | 17000038 |
| | | | | -NOT OVERLAP I/O REQ TABLE LENGTH | |
| 12* | 000000.00+ | +00000024 | NULL | T UFRC SYN,20 | 17000039 |
| | | | | -NOT OVERLAP FIRST REEL TABLE LENGHT | |
| 13* | | | - | | 17000040 |
| 14* | | | - | --NOTE-- THE TPPC COUNT MUST BE HALF OF THE ACTUAL TABLE LENGTH | 17000041 |
| 15* | | | - | WHICH IS THE ACTUAL NUMBER OF JOBS THE TABLE CAN ACCCOMDATE. | 17000042 |
| 16* | | | - | | 17000043 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|--|----------|
| 1* | | | | PRNS | 17000045 |
| 2* | | | | | 17000046 |
| 3* | | | | | 17000047 |
| 4* | | | | ----- CONSTANTS TO BE USED THRU OUT ASSIGN PROGRAM ----- | 17000048 |
| 5* | | | | | 17000049 |
| 6* | | | | | 17000050 |
| 7* | 003264.40 | 000000.00+ | T NEXT | VF, -THE ADDR OF THE NEXT PP TO BE RUN | 17000051 |
| 8* | 003265.00 | 000000.00+ 000 000000 000000 | T CTEMP | XW -TEMP SYMBOLIC CHAN WORD | 17000052 |
| 9* | 003266.00 | 000000.00+ | T IPL | VF,0.0 -CHAN ADDRESSES FOR IPL | 17000053 |
| 10* | | | | | 17000054 |
| 11* | | | | ----- THE FORMAT OF THE TEMP CHAN WORD ----- | 17000055 |
| 12* | | | | | 17000056 |
| 13* | 003265.00+ | +00000000 | BU,22 ,10 | T CTACH SYN(BU,18),TCTEMP+0.0 -ABSOLUTE CHANNEL NUMBER | 17000057 |
| 14* | 003265.31+ | +00000000 | BU,07 ,10 | T CTSCH SYN(BU,7),TCTEMP+0.25 -SYMBOLIC CHANNEL NUMBER | 17000058 |
| 15* | | | | | 17000059 |
| 16* | 003267.00 | 000000.00+ 000 000000 000000 | T WORK1 | XW -TEMPORARY WORKING WORD | 17000060 |
| 17* | 003270.00 | 000000.00+ 000 000000 000000 | T WORK2 | XW -TEMPORARY WORKING WORD | 17000061 |
| 18* | 003271.00 | 000000.00+ 000 000000 000000 | T REFIL | XW -TEMP STORAGE FOR IX -A- | 17000062 |
| 19* | 003272.00 | 003317.00+ 000 000024 003314 | TSAV | XW,TPREFT,TPPC,TPPREF | 17000063 |
| 20* | 003273.00 | 000000 | T LUCT | DD(BU,18),0 -LARGEST UNIT COUNT ON ONE CHANNEL | 17000064 |
| 21* | 003273.22 | 1 | T CNE | DD(BU,1),1 -CONSTANT OF ONE | 17000065 |
| 22* | 003273.23 | 0 | T MODE | DD(BU,1),0 -SINGLE OR FULL NOT-OVERLAP MODE | 17000066 |
| 23* | 003273.24 | 0 | T INDA | DD(BU,1),0 -SAME CHANNEL ALLOWED INDICATOR | 17000067 |
| 24* | 003273.25 | 0 | T INDB | DD(BU,1),0 -THE SPLIT CHANNEL INDICATOR | 17000068 |
| 25* | 003273.26 | 0 | T INDC | DD(BU,1),0 -UNIT FOUND -- MULTI-UNIT CHECK | 17000069 |
| 26* | 003273.27 | 0 | T INDD | DD(BU,1),0 -BYPASS OPTIMISED REEL MTINGS | 17000070 |
| 27* | 003273.30 | 0 | T INDE | DD(BU,1),0 -THE ADVANCE AND SAVE INDEX IND | 17000071 |
| 28* | 003273.31 | 0 | T INDZ | DD(BU,1),0 -MORE MULTI-UNITS AVAILABLE | 17000072 |
| 29* | 003273.32 | 0 | T LCCP | DD(BU,1),0 -TO PREVENT A LOOP IN SECTION ELEVEN | 17000073 |
| 30* | 003273.33 | 0 | T LCCP1 | DD(BU,1),0 -LCCP PREVENTER NUMBER 2 | 17000074 |
| 31* | 000032.00+ | +00000000 | BU,100,10 | T CTWDX SYN,TX1 -ENTRY CONTROL WORD INDEX | 17000075 |
| 32* | 000032.00+ | +00000000 | BU,100,10 | T X1 SYN,\$10 -TEMPORARY INDEX | 17000076 |
| 33* | 000031.00+ | +00000000 | BU,100,10 | T X2 SYN,\$9 -THE SCAN CONTROL INDEX | 17000077 |
| 34* | 000021.00+ | +00000000 | BU,100,10 | T X1BR SYN,\$1 -FOR SUB-ROUTINE BRANCHING | 17000078 |
| 35* | 000022.00+ | +00000000 | BU,100,10 | T X3 SYN,\$2 -COUNTER | 17000079 |
| 36* | 000024.00+ | +00000000 | BU,100,10 | T IXA SYN,\$4 -I/O REG. LOCATOR INDEX | 17000080 |
| 37* | 000025.00+ | +00000000 | BU,100,10 | T IXB SYN,\$5 -MULTI-UNIT STAT TBLE SCAN INDEX | 17000081 |
| 38* | 000023.00+ | +00000000 | BU,100,10 | T IXE SYN,\$3 -PP REF. WORD LOCATOR INDEX | 17000082 |
| 39* | 000032.00+ | +00000000 | BU,100,10 | T IXF SYN,TX1 -MACH CCFN CHANGE-- CHAN. SCAN IX | 17000083 |
| 40* | 000030.00+ | +00000000 | BU,100,10 | T IXG SYN,\$8 -MACH CCFN CHANGE -- UNIT SCAN | 17000084 |
| 41* | 000022.00+ | +00000000 | BU,100,10 | T IXH SYN,TX3 -MACH CCFN CHANGE -- PP REF TBL SCAN | 17000085 |
| 42* | 000025.00+ | +00000000 | BU,100,10 | T IXI SYN,TIXB -MACH CCFN CHANGE -- I/O TBLE SCAN IX | 17000086 |
| 43* | 000026.00+ | +00000000 | BU,100,10 | T IXJ SYN,\$6 -UNIT TBLE ADDR. AND UNIT COUNT | 17000087 |
| 44* | 000027.00+ | +00000000 | BU,100,10 | T IXD SYN,\$7 -CHANNEL ADDRESS | 17000088 |
| 45* | 000032.00+ | +00000000 | BU,100,10 | T IXK SYN,TX1 -LIKE CHANNEL SEARCH INDEX | 17000089 |
| 46* | 000032.00+ | +00000000 | BU,100,10 | T IXL SYN,TX1 -I/O TABLE SCAN INDEX | 17000090 |
| 47* | 000030.00+ | +00000000 | BU,100,10 | T IXM SYN,TIXG -NOT OVERLAP SCANNER INDEX | 17000091 |
| 48* | | | | | 17000092 |
| 49* | | | | ----- SAVE AREAS FOR INDEXES ----- | 17000093 |
| 50* | | | | | 17000094 |
| 51* | 003273.40 | 000000.30 00 | | CNOP | 17000095 |
| 52* | 003274.00 * | 000017.00 | T ASAVE | DRZ(BU,64),(15) -AREA SET ASIDE FOR INDEX SAVING | 17000096 |
| 53* | | | | | 17000097 |
| 54* | | | | ----- SYN CARDS FOR THE PP REFERENCE TABLE ----- | 17000098 |
| 55* | | | | | 17000099 |
| 56* | | | | | 17000100 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | |
|------|-------------|------------------------------|-----------|---|--|---|
| 1* | | | - | | 17000101 | |
| 2* | 003313.00 | CC3370.00+ 000 000002 003313 | T PPURF | XW,TPURFT,TUPPC,\$ | -CONSTANT IX FOR THE NOT OVERLAP TBL 17000102 | |
| 3* | 003314.00 | CC3317.00+ 000 000024 003314 | T PPREF | XW,TPREF,TTPC,\$ | -CONSTANT IX FOR THE PP REF TBL 17000103 | |
| 4* | 003315.00 | CC3317.00+ 000 000024 003314 | T PPRUN | XW,TPREF,TTPC,TPPREF | -THE NEXT JOB TO BE RUN POINTER 17000104 | |
| 5* | 003316.00 | CCCC00.00+ 000 000000 000000 | | XW | -A BLANK WORD MUST PRECEED THE PP REF 17000105 | |
| 6* | 003317.00 | CC3373.00+ 000 001100 000000 | T PREFT | XW,TIOREQ,0,(.39)9 | -INITIAL ENTRY WITHIN THE PP REF TBL 17000106 | |
| 7* | 003320.00 * | CCCC24.00 | | DRZ(BU,64),(TPPC) | -THE PP REFERENCE TABLE 17000107 | |
| 8* | 003344.00 | CCCC24.00 | | DRZ(BU,64),(TPPC) | -THE PP REFERENCE TABLE SECCND HALF 17000108 | |
| 9* | 000000.00+ | +00000000 | BU,22 ,10 | T CRREF | SYN(BU,18),0.0 | -THE CRCS REFERENCE ADDRESS 17000109 |
| 10* | 000000.34+ | +00000000 | BU,10 ,10 | T UNCT | SYN(BU,08),0.28 | -I/O REQUEST CCUNT 17000110 |
| 11* | 000000.44+ | +00000000 | BU,01 ,10 | T JBPRO | SYN(BU,1),0.36 | -JOB PROCESSED BIT 17000111 |
| 12* | 000000.45+ | +00000000 | BU,01 ,10 | T RJECT | SYN(BU,1),0.37 | -JOB REJECTED BIT 17000112 |
| 13* | 000000.46+ | +00000000 | BU,01 ,10 | T ASGNP | SYN(BU,1),0.38 | -JOB ASSIGNED BIT 17000113 |
| 14* | 000000.47+ | +00000000 | BU,01 ,10 | T LPPEN | SYN(BU,1),0.39 | -LAST ENTRY BIT 17000114 |
| 15* | 000000.50+ | +00000000 | BU,14 ,10 | T LREFN | SYN(BU,12),0.40 | -IF GO TYPE PP - THE LARGEST REF NO. 17000115 |
| 16* | 000000.64+ | +00000000 | BU,14 ,10 | T ICDCI | SYN(BU,12),0.52 | -THE NUMBER OF ICDS PER PP 17000116 |
| 17* | 000001.00+ | +00000000 | BU,60 ,06 | T PNAME | SYN(BU,48,6),1.0 | -NAME OF PP 8 BCD-6 CHAR 17000117 |
| 18* | | | | | 17000118 | |
| 19* | 003370.00 | CCCC00.00+ 000 000000 000000 | T PURFT | XW,C | -NOT OVERLAP PP REF WORD NO. 1 17000119 | |
| 20* | 003371.00 | CCCC00.00+ 000 000000 000000 | | XW,C | -NOT OVERLAP PP REF WD NO. 2 17000120 | |
| 21* | 003372.00 | CCCC00.00+ 000 000100 000000 | | XW,0(.39)1 | -NECESSARY FOR LAST ENTRY BIT 17000121 | |
| 22* | | | | | 17000122 | |
| 23* | | | | | 17000123 | |
| 24* | | | | ----- | 17000124 | |
| 25* | | | | SYN CARDS FOR THE I/O REQUEST TABLE | 17000125 | |
| 26* | | | | ----- | 17000126 | |
| 27* | | | | | 17000127 | |
| 28* | 003373.00 * | CC0120.00 | T IOREQ | CNOP DRZ(BU,64),(TIOC) | -I/O REQUEST TABLE 17000128 | |
| 29* | 003513.00 | CCCC00.40+ | | VF,0.32 | -DO NOT REMOVE - MARKS LAST WORD 17000129 | |
| 30* | 000000.00+ | +00000000 | BU,01 ,10 | T ASGNI | SYN(BU,1),0.00 | -I/O ASSIGNED INDICATOR 17000130 |
| 31* | 000000.01+ | +00000000 | BU,01 ,10 | T UNGBT | SYN(BU,1),0.01 | -NOT OVERLAP BIT 17000131 |
| 32* | 000000.02+ | +00000000 | BU,01 ,10 | T PRINT | SYN(BU,1),0.02 | -I/O REQ PRINTED TO OPERATOR BIT 17000132 |
| 33* | 000000.03+ | +00000000 | BU,04 ,10 | T TYPE | SYN(BU,4),0.03 | -TYPE OF REQUEST 17000133 |
| 34* | 000000.07+ | +00000000 | BU,03 ,10 | T ABSUN | SYN(BU,3),0.07 | -UNIT NUMBER 17000134 |
| 35* | 000000.13+ | +00000000 | BU,07 ,10 | T RLSYM | SYN(BU,7),0.11 | -THE SYMBOLIC CHANNEL NUMBER 17000135 |
| 36* | 000000.22+ | +00000000 | BU,01 ,10 | T LAST | SYN(BU,1),0.18 | -LAST WORD OF THE I/O REQ TABLE 17000136 |
| 37* | 000000.23+ | +00000000 | BU,11 ,10 | T ICDSQ | SYN(BU,9),0.19 | -IOD SEQUENCE NUMBER AS RECEIVED 17000137 |
| 38* | 000000.34+ | +00000000 | BU,22 ,10 | T FREEL | SYN(BU,18),0.28 | -THE FIRST REEL ADDRESS 17000138 |
| 39* | 000000.56+ | +00000000 | BU,22 ,10 | T ABSCH | SYN(BU,18),0.46 | -THE ABSOLUTE CHANNEL ADDRESS 17000139 |
| 40* | | | | | 17000140 | |
| 41* | 003514.00 | CCCC00.00+ 000 000000 000000 | T UIORQ | XW,0 | -THE NOT OVERLAP I/O REQ TBL 17000141 | |
| 42* | 003515.00 * | CCCC23.00 | | DRZ(BU,64),TUIOC-1 | 17000142 | |
| 43* | 003540.00 | CC0000.40+ | | VF,0.32 | -DO NOT REMOVE - MARKS LAST WORD 17000143 | |
| 44* | | | | ----- | 17000144 | |
| 45* | | | | SYN CARDS FOR THE FIRST REEL NUMBER TABLE | 17000145 | |
| 46* | | | | ----- | 17000146 | |
| 47* | 003540.40 | 000000.30 00 | | CNOP | 17000147 | |
| 48* | 003541.00 * | 000062.00 | T FSTRE | DRZ(BU,64),(TFRC) | -THE FIRST REEL TABLE 17000148 | |
| 49* | 000000.00+ | +00000000 | BU,60 ,10 | T REELN | SYN(BU,48),0.00 | -A REEL NUMBER FOR A GIVEN UNIT 17000149 |
| 50* | | | | | 17000150 | |
| 51* | 003623.00 | CCCC24.00 | TUFRE | DRZ(BU,64),TUFRC | -THE NOT OVERLAP FIRST REEL TABLE 17000151 | |
| 52* | | | | | 17000152 | |
| 53* | | | | ----- | 17000153 | |
| 54* | | | | SYN CARDS FOR THE CHANNEL/UNIT STATUS TABLE | 17000154 | |
| 55* | | | | ----- | 17000155 | |
| 56* | 002152.00+ | +00000000 | BU,100,10 | T CHSXW | SYN,SXCHAN | -INDEX WORD FOR CHAN STAT TBL 17000156 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000000 |
|------|------------|------------------------------|-----------|-------------------------------------|--|----------|
| 1* | 000000.00+ | +00000000 | BU,22 ,10 | T UNTBA SYN(BU,18),0.0 | -THE UNIT TABLE ADDRESS | 17000157 |
| 2* | 000000.33+ | +00000000 | BU,01 ,10 | T MULTI SYN(BU,1),0.27 | -THE MULTI -CHANNEL BIT | 17000158 |
| 3* | 000000.31+ | +00000000 | BU,01 ,10 | T CHAVL SYN(BU,1),0.25 | -THE CHANNEL AVAILABLE BIT | 17000159 |
| 4* | 000000.33+ | +00000000 | BU,01 ,10 | T FDISP SYN(BU,1),0.27 | -THE KIND OF REEL MOUNTED ON UNIT | 17000160 |
| 5* | 000000.34+ | +00000000 | BU,01 ,10 | T UNAVL SYN(BU,1),0.28 | -THE UNIT AVAILABLE BIT | 17000161 |
| 6* | 000000.35+ | +00000000 | BU,01 ,10 | T UNASG SYN(BU,1),0.29 | -THE UNIT ASSIGNED BIT | 17000162 |
| 7* | 000000.40+ | +00000000 | BU,01 ,10 | T CHOWN SYN(BU,1),0.32 | -THE OWNERSHIP LEVEL INDICATOR | 17000163 |
| 8* | 000000.47+ | +00000000 | BU,01 ,10 | T SEL SYN(BU,1),0.39 | -THE MULTI UNIT SELECT BIT | 17000164 |
| 9* | 000000.50+ | +00000000 | BU,01 ,10 | T VER SYN(BU,1),0.40 | -THE VERIFY BIT | 17000165 |
| 10* | 000000.64+ | +00000000 | BU,04 ,10 | T EQUIP SYN(BU,4),0.52 | -TYPE OF UNIT REQUESTED | 17000166 |
| 11* | 000000.73+ | +00000000 | BU,04 ,10 | T UNITK SYN(BU,4),0.59 | -NUMBER OF UNITS TO A GIVEN CHANNEL | 17000167 |
| 12* | 000000.76+ | +00000000 | BU,01 ,10 | T UNRES SYN(BU,1),0.62 | -NOT OVERLAP RESERVED BIT | 17000168 |
| 13* | 000000.77+ | +00000000 | BU,01 ,10 | T CVRES SYN(BU,1),0.63 | -THE OVERLAP RESERVED BIT | 17000169 |
| 14* | | | - | | | 17000170 |
| 15* | | | - | | | 17000171 |
| 16* | | | - | | | 17000172 |
| 17* | | | - | SYN CARDS FOR THE VALID CHECK TABLE | | 17000173 |
| 18* | | | - | | | 17000174 |
| 19* | | | - | | | 17000175 |
| 20* | 003647.CC | 003652.00+ CC0 000010 003647 | T TYARA | XW,TDISK,8,TTYARA | -THE TYPE CODE | 17000176 |
| 21* | 003650.CC | 000000.30+ | T COMBO | VF,TTYBC+TMACBC+TREQBC | -A CONSTANT THAT WILL BY PASS ONE WORD | 17000177 |
| 22* | 003650.40 | 000000.20+ | T 2CCMB | VF,TTYBC+TMACBC | -FOR COMPUTING THE NUMBER OF UNITS | 17000178 |
| 23* | 003651.CC | 000000.00+ | T VALVF | VF,C.0 | -TO PREVENT A DOUBLE VALIDITY CHECK | 17000179 |
| 24* | 000000.10+ | +00000000 | NULL | T TYBC SYN,0.8 | -THE TYPE CODE BIT COUNT | 17000180 |
| 25* | 000000.10+ | +00000000 | NULL | T MACBC SYN,0.8 | -THE MACHINE CONF COUNT BIT COUNT | 17000181 |
| 26* | 000000.10+ | +00000000 | NULL | T REQBC SYN,0.8 | -THE REQUEST COUNT BIT COUNT | 17000182 |
| 27* | 000000.CC+ | +00000000 | BU,10 ,10 | T TYAD SYN (BU,8),C.C | -ADDRESS OF THE TYPE CODE | 17000183 |
| 28* | 000000.10+ | +00000000 | BU,10 ,10 | T MCAD SYN(BU,8),TTYAD+0.8 | -MACHINE CONF COUNT ADDRESS | 17000184 |
| 29* | 000000.20+ | +00000000 | BU,10 ,10 | T RCAD SYN(BU,8),TMCAD+0.8 | -THE REQUEST COUNT ADDRESS | 17000185 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|--|----------|
| 1* | | | | | 17000187 |
| 2* | | | | REQUEST VALIDITY CHECK TABLE | 17000188 |
| 3* | | | | | 17000189 |
| 4* | | | | | 17000190 |
| 5* | 003651.40 | CCCC00.30 00 | | CNOP | 17000191 |
| 6* | 003652.00 | | 001 | T DISK (8)DD(BU,8),1,1,C | 17000192 |
| 7* | 003652.10 | | 001 | | 17000192 |
| 8* | 003652.20 | | 000 | | 17000192 |
| 9* | 003652.30 | | 002 | (8)DD(BU,8),2,0,C | 17000193 |
| 10* | 003652.40 | | 000 | | 17000193 |
| 11* | 003652.50 | | 000 | | 17000193 |
| 12* | 003652.60 | | 003 | (8)DD(BU,8),3,0,C | 17000194 |
| 13* | 003652.70 | | 000 | | 17000194 |
| 14* | 003653.00 | | 000 | | 17000194 |
| 15* | 003653.10 | | 004 | (8)DD(BU,8),4,0,C | 17000195 |
| 16* | 003653.20 | | 000 | | 17000195 |
| 17* | 003653.30 | | 000 | | 17000195 |
| 18* | 003653.40 | | 005 | (8)DD(BU,8),5,0,C | 17000196 |
| 19* | 003653.50 | | 000 | | 17000196 |
| 20* | 003653.60 | | 000 | | 17000196 |
| 21* | 003653.70 | | 006 | (8)DD(BU,8),6,0,C | 17000197 |
| 22* | 003654.00 | | 000 | | 17000197 |
| 23* | 003654.10 | | 000 | | 17000197 |
| 24* | 003654.20 | | 007 | (8)DD(BU,8),7,0,C | 17000198 |
| 25* | 003654.30 | | 000 | | 17000198 |
| 26* | 003654.40 | | 000 | | 17000198 |
| 27* | 003654.50 | | 010 | (8)DD(BU,8),10,0,C | 17000199 |
| 28* | 003654.60 | | 000 | | 17000199 |
| 29* | 003654.70 | | 000 | | 17000199 |
| 30* | | | | | 17000200 |
| 31* | | | | | 17000201 |
| 32* | | | | THE MULTI-UNIT COUNT TABLE -- SORTED | 17000202 |
| 33* | | | | | 17000203 |
| 34* | | | | | 17000204 |
| 35* | 003655.00 | 003661.00+ 000 000000 000000 | T MUCTX | XW,TCHCLC,0,0 | 17000205 |
| 36* | 003656.00 | 003657.00+ 000 000002 000000 | T YSCAN | XW,TFCHSC,2,0 | 17000206 |
| 37* | 003657.00 | 003661.00+ 000 000000 000000 | T FCHSC | XW,TCHCUC,0,0 | 17000207 |
| 38* | 003660.00 | 003721.00- 000 000000 000000 | T RCHSC | XW,-TCHCUC-32.0,0,0 | 17000208 |
| 39* | 003661.00 * | 000020.00 | T CHCUC | DRZ(BU,32),(32) | 17000209 |
| 40* | | | | | 17000210 |
| 41* | | | | | 17000211 |
| 42* | | | | SYN CARDS FOR THE MULTI-UNIT COUNT TABLE | 17000212 |
| 43* | | | | | 17000213 |
| 44* | | | | | 17000214 |
| 45* | 000000.00+ | +00000000 | BU,22 ,10 | T CHADD SYN(BU,18),0.0 | 17000215 |
| 46* | 000000.24+ | +00000000 | BU,04 ,10 | T CHCNT SYN(BU,4),0.20 | 17000216 |

| LINE | LOCATICN | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|-----------|---|----------|
| 1* | | | | | | 17000218 |
| 2* | | | | | THE ENTRY POINT TO THE ASSIGN ROUTINE | 17000219 |
| 3* | | | | | | 17000220 |
| 4* | | | | | | 17000221 |
| 5* | | | | | CNOP | 17000222 |
| 6* | 003701.00 | CCCC21.00 | 80 | 003274.30 | E0 T ASIGN SWAPI,12,\$1,IASAVE | 17000223 |
| 7* | 003702.00 | 000000.24 | 1F | | LX,TCTWDX,0.0(\$15) -SAVE INDEXES | 17000224 |
| 8* | 003702.40 | 003273.23 | 80 | 006000.00 | FC CMOCOC(BU,6),TMODE -OVERLAP AND MACHINE CONF TEST | 17000225 |
| 9* | 003703.40 | 004215.31 | 40 | | BZXVZ,TA9 -RESET INDICATORS | 17000226 |
| 10* | 003704.00 | 003706.63 | 40 | | T B1F BZXF,TB1C -IF A MACH CNF CHANGE | 17000227 |
| 11* | | | | | | 17000228 |
| 12* | | | | | NOT OVERLAPPED TYPE OF PROBLEM PROGRAM | 17000229 |
| 13* | | | | | | 17000230 |
| 14* | 003704.40 | 003313.06 | 10 | | LX,TIXE,TPPURF -NOT OVERLAP PP SET UP | 17000231 |
| 15* | 003705.00 | 000000.46 | 80 | 004416.74 | 02 BB,TASGNP,TD -IF THE PP IS ASSINGED | 17000232 |
| 16* | 003706.00 | 003710.10 | 00 | | B,TA1 | 17000233 |
| 17* | | | | | | 17000234 |
| 18* | | | | | | 17000235 |
| 19* | | | | | OVERLAP TYPE OF PP | 17000236 |
| 20* | | | | | | 17000237 |
| 21* | 003706.40 | 003272.06 | 10 | | T B1C LX,TIXE,TSAV -FIND LCC. WITH IN P P REF TBL | 17000238 |
| 22* | 003707.00 | 003273.30 | 80 | 002000.00 | F0 CMOCOC(BU,2),TINDE | 17000239 |
| 23* | 003710.00 | 000000.47 | 83 | 004417.34 | 02 T A1 BB,TLPPEN(TIXE),TF -IF LAST ENTRY WITHIN PP REF TB | 17000240 |
| 24* | 003711.00 | 000000.44 | 83 | 004211.74 | 02 BB,TJBPRC(TIXE),TB8 -IF THE JOB WAS PROCESSED | 17000241 |
| 25* | 003712.00 | 000000.46 | 83 | 004203.74 | 02 BB,TASGNP(TIXE),TB8Z -IF PP IS ASSIGNED BYPASS REMAINDER | 17000242 |
| 26* | 003713.00 | 000000.10 | 33 | | LV,TIXA,TCRREF(TIXE) -GET I/O REQ TBL ADDRESS | 17000243 |
| 27* | 003713.40 * | 000000.34 | 83 | 010027.20 | 50 L,TUNCT(TIXE),46 -GET THE UNIT COUNT | 17000244 |
| 28* | 003714.40 | 000011.10 | 50 | | LC,TIXA,\$R | 17000245 |
| 29* | 003715.00 | 004201.70 | 42 | | BXCZ,TB8C -IF NO I/O REQUEST FOR PP | 17000246 |
| 30* | 003715.40 | 003271.11 | 03 | | LRI,TIXA,TREFIL -REFILL ADDR TO INDEX | 17000247 |
| 31* | 003716.00 | 003271.11 | 10 | | SX,TIXA,TREFIL | 17000248 |
| 32* | 003716.40 | 000000.45 | 83 | 004361.34 | 02 BB,TRJECT(TIXE),TAREJ -IF PP WAS REJD AND TBLS TO BE CLEARED | 17000249 |
| 33* | 003717.40 | 000000.24 | 1F | | LX,TCTWDX,0.0(\$15) -TO ACTIVATE THE FLAG IND | 17000250 |
| 34* | 003720.00 | 003723.23 | 42 | | BXF,TD1+.32 -TO PREVENT A DOUBLE VALIDITY | 17000251 |
| 35* | 003720.40 | 003273.33 | 80 | 003722.74 | 06 BBZ,TLCOPI,TD1 -IF IX-E- WAS REFILLED | 17000252 |
| 36* | 003721.40 | 003651.06 | 90 | | KV,TIXE,TVALVF -CHECK TO PREVENT A DOUBLE VALIDITY CK | 17000253 |
| 37* | 003722.00 | 003743.73 | 40 | | BZXF,TA2 -IF A VALIDITY CHECK HAS BEEN MADE | 17000254 |
| 38* | 003722.40 | 003651.07 | 30 | | T D1 SV,TIXE,TVALVF -SAVE TO PREVENT DOUBLE VALIDY CHECK | 17000255 |
| 39* | | | | | | 17000256 |
| 40* | | | | | DO A VALIDITY CHECK ON THE REQUEST | 17000257 |
| 41* | | | | | | 17000258 |
| 42* | | | | | FIRST CLEAR COUNT AREA | 17000259 |
| 43* | | | | | | 17000260 |
| 44* | 003723.00 | 003647.24 | 10 | | LX,TX1,TTYARA -LOAD TO BEGINNING OF TABLE | 17000261 |
| 45* | 003723.40 | 000011.22 | 00 | | Z,\$R -ZERO THE ACC | 17000262 |
| 46* | 003724.00 | 000000.20 | 8A | 010000.20 | D0 T CLEAR ST,TRCAC(TX1) -THEN CLEAR THE COUNT AREA | 17000263 |
| 47* | 003725.00 | 003650.24 | F0 | | V+CR,TX1,TCOMBO | 17000264 |
| 48* | 003725.40 | 003724.30 | 40 | | BZXCZ,TCLEAR | 17000265 |
| 49* | 003726.00 | 000000.22 | 84 | 003727.74 | 00 T SETAC BZB,TLAST(TIXA),TSETBC | 17000266 |
| 50* | 003727.00 | 003373.11 | 01 | | LVI,TIXA,TIOREQ -RELOAD TO BEGINING OF TABLE | 17000267 |
| 51* | 003727.40 * | 000000.03 | 84 | 004000.20 | 50 T SETBC L,TTYE(TIXA) -REQUESTED TYPE TO ACC | 17000268 |
| 52* | 003730.40 | 000000.00 | 8A | 010000.21 | 10 T COMPA K,TTYAC(TX1) -COMPARE FOR EQUALITY | 17000269 |
| 53* | 003731.40 | 003733.76 | C2 | | BAE,TC1 -IF EQUAL | 17000270 |
| 54* | 003732.00 | 003650.24 | D0 | | V+C,TX1,TCOMBO -GET NEXT FEILD | 17000271 |
| 55* | 003732.40 | 003730.70 | 40 | | BZXCZ,TCOMPA | 17000272 |
| 56* | | | | | | 17000273 |

| LINE | LCCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 003733 |
|------|-------------|---------------------------|--------|--------------------------|----------|--|
| 1* | 003733.00 | C03733.04 00 | | BD,\$ | | -ILLEGAL REQUEST - MCP ERROR 17000274 |
| 2* | | | | | | 17000275 |
| 3* | 003733.40 | C00000.20 8A 010000.22 BC | T C1 | M+1,TRCAD(TX1) | | -INCREMENT REQUEST COUNT 17000276 |
| 4* | 003734.40 | C00032.02 00 | | R,TX1 | | -REFILL TO BEGINNING OF TABLE 17000277 |
| 5* | 003735.00 | C03726.11 4C | | CBR+,TIXA,TSETAC | | 17000278 |
| 6* | | | | | | 17000279 |
| 7* | | | | | | CHECK REQUEST COUNT AGAINST THE MACH CONF COUNT 17000280 |
| 8* | | | | | | 17000281 |
| 9* | 003735.40 | C00000.20 8A 010000.06 70 | T CHEK | LF,TRCAD(TX1) | | -REQUEST COUNT TO ACC 17000282 |
| 10* | 003736.40 | C03741.74 C2 | | BRZ,TCONT | | -NO REQUEST 17000283 |
| 11* | 003737.00 | C00000.10 8A 010000.23 10 | | KF,TMCAD(TX1) | | -COMPARE MACHINE CONF. COUNT 17000284 |
| 12* | 003740.00 | C03741.77 40 | | BZAH,TCONT | | -IF REQUEST IS OK 17000285 |
| 13* | 003740.40 | C00000.45 83 001000.36 F0 | | CM1111,TRJECT(TIXE) | | -REJECT PP FOR REQ IS TO HIGH 17000286 |
| 14* | 003741.40 | C03650.24 D0 | T CONT | V+C,TX1,TCOMBO | | 17000287 |
| 15* | 003742.00 | C03735.70 40 | | BZXCZ,TCHEK | | 17000288 |
| 16* | 003742.40 * | C00000.45 83 004360.34 02 | | BB,TRJECT(TIXE),TAREJX | | -IF PP WAS REJECTED 17000289 |
| 17* | | | | | | 17000290 |
| 18* | | | | | | 17000291 |
| 19* | 003743.40 | 003265.22 00 | T A2 | Z,TCTEMP | | -CLEAR THE TEMP SYMB CHAN WORD 17000292 |
| 20* | 003744.00 | 003273.24 80 004000.00 F0 | | CM0000(BU,4),TINDA | | -RESET ALL IND 17000293 |
| 21* | 003745.00 | C00000.12 10 | T A2A | LX,TIXB,\$Z | | -INITIALIZE TO PREVENT ERROR 17000294 |
| 22* | 003745.40 | C03273.27 80 001000.00 FC | | CM0000,TINDD | | -RESET THE OPTIMIZE IND 17000295 |
| 23* | 003746.40 | 003273.31 80 003750.34 00 | | BZB,TINDZ,TA2B | | -IF MORE MULTI UNIT CHAN AVAILALBE 17000296 |
| 24* | 003747.40 | 004417.50 C0 | | B,TG | | 17000297 |
| 25* | | | | | | 17000298 |
| 26* | | | | | | GET AN I/O REQUEST AND FOLLOW IT THRU 17000299 |
| 27* | | | | | | 17000300 |
| 28* | 003750.00 | C00000.00 84 003761.34 00 | T A2B | BZB,TASGNI(TIXA),TA2D | | -IF REQ IS NOT ASSIGNED 17000301 |
| 29* | 003751.00 | C00000.03 84 003756.74 00 | | BZB,TIYPE(TIXA),TB2 | | -IF A SINGLE UNIT TYPE OF REQUEST 17000302 |
| 30* | 003752.00 | C00000.13 84 007020.20 50 | | L,TRLSYM(TIXA),32 | | -REL SYMBOLIC CHANNEL TO ACC 17000303 |
| 31* | 003753.00 | 003756.74 C2 | | BRZ,TB2 | | -IF A ZERO CHANNEL REQUEST 17000304 |
| 32* | 003753.40 | C00000.56 84 022027.06 70 | | CO011,TABSCH(TIXA),46 | | -ABSOLUTE CHANNEL TO ACC 17000305 |
| 33* | 003754.40 | C00000.07 84 003000.06 70 | | CO011,TABSUN(TIXA) | | -ABSOLUTE UNIT TO ACC 17000306 |
| 34* | 003755.40 | C03265.00 80 000000.20 D0 | | ST(BU,64),TCTEMP | | -BUILD TEMP CHAN WORD 17000307 |
| 35* | 003756.40 * | C00001.22 84 003760.34 00 | T B2 | BZB,TLAST+1.0(TIXA),TB2Z | | -CHECK FOR TABLE LOOP AROUND 17000308 |
| 36* | 003757.40 | C03372.51 01 | | LVI,TIXA,TICREQ-1 | | -RELOAD VF TO BEGINNING OF TABLE 17000309 |
| 37* | 003760.00 | C03745.11 48 | T B2Z | CB+,TIXA,TA2A | | 17000310 |
| 38* | 003760.40 | C04176.10 C0 | | B,TA8 | | -IF COUNT GOES TO ZERO 17000311 |
| 39* | 003761.00 | C03273.23 80 001000.00 F0 | T A2D | CM0000,TMODE | | -RESET IND 17000312 |
| 40* | 003762.00 | C03656.22 10 | | LX,TX2,TYSCAN | | -SET UP FOR FORWARD SCAN 17000313 |
| 41* | 003762.40 | C00000.24 1F | | LX,TCTWDX,0.0(\$15) | | -SET UP FOR OVERLAP MODE TEST 17000314 |
| 42* | 003763.00 | 003764.63 42 | | BXF,TA2DB | | -IF FULL NOT OVERLAP MODE 17000315 |
| 43* | 003763.40 | C00000.01 84 003765.74 00 | | BZB,TUNOBT(TIXA),TA2DC | | -IF SINGLE OVERLAP MODE 17000316 |
| 44* | 003764.40 | C03273.23 80 001000.36 F0 | T A2DB | CM1111,TMODE | | -SET IND TO NOT OVERLAP MODE 17000317 |
| 45* | 003765.40 | C00000.03 84 003775.34 02 | T A2DC | BB,TIYPE(TIXA),TA2E | | -IF A TAPE CHAN REQUEST 17000318 |
| 46* | | | | | | 17000319 |
| 47* | | | | | | SINGLE UNIT REQUEST, ASSIGN ONLY NEXT PP TO RUN 17000320 |
| 48* | | | | | | 17000321 |
| 49* | 003766.40 | C04020.63 42 | | BXF,TA7 | | -IF NOT OVERLAP CASE,BYPASS 17000322 |
| 50* | 003767.00 | 003315.24 10 | | LX,TX1,TPPRUN | | -SET IX TO NEXT JOB TO RUN 17000323 |
| 51* | 003767.40 | C00000.47 8A 004423.34 02 | | BB,TLPPEN(TX1),TP | | -ERROR - SOMETHING IS OUT OF PHASE 17000324 |
| 52* | 003770.40 | C00000.45 8A 003772.74 02 | T C2B | BB,TRJECT(TX1),TC2BA | | -IF THIS JOB WAS REJECTED 17000325 |
| 53* | 003771.40 * | C00000.44 8A 003773.74 00 | | BZB,TJBPRO(TX1),TC2BC | | -IF THE JOB WAS NOT PROCESSED 17000326 |
| 54* | 003772.40 | C00002.25 C7 | T C2BA | V+ICR,TX1,2.0 | | 17000327 |
| 55* | 003773.00 | C03770.50 C0 | | B,TC2B | | 17000328 |
| 56* | 003773.40 | C00032.06 90 | T C2BC | KV,TIXE,TX1 | | -IS ASSIGNMENT FOR NEXT JOB TO BE RUN 17000329 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 003774 |
|------|-------------|-----------|--------|-----------|---|---|----------|
| 1* | 003774.00 | 003756.72 | 00 | | BZXE, TB2 | | 17000330 |
| 2* | 003774.40 | 004020.50 | 00 | | B, TA7 | | 17000331 |
| 3* | | | | - | | | 17000332 |
| 4* | | | | - | | | 17000333 |
| 5* | 003775.00 | 003273.23 | 80 | 003777.34 | 02 T A2E | BB, TMODE, TA6 | 17000334 |
| 6* | 003776.00 | 003273.31 | 80 | 003756.74 | 0E | BB1, TINDZ, TB2 | 17000335 |
| 7* | | | | - | | | 17000336 |
| 8* | | | | - | | | 17000337 |
| 9* | | | | - | | | 17000338 |
| 10* | | | | - | | | 17000339 |
| 11* | | | | - | CONCLUSION -- TRY TO ASSIGN THIS MULTI-UNIT REQ | | 17000340 |
| 12* | 003777.00 | 003271.24 | 10 | | T A6 | LX, TX1, TREFIL | 17000341 |
| 13* | 003777.40 | 000000.13 | 84 | 007000.06 | 70 | LF, TRLSYM(TIXA) | 17000342 |
| 14* | 004000.40 | 000022.22 | 00 | | | Z, TX3 | 17000343 |
| 15* | 004001.00 | 003267.11 | 50 | | | SC, TIXA, TWORK1 | 17000344 |
| 16* | 004001.40 | 004046.34 | 02 | | | BRZ, TA3 | 17000345 |
| 17* | 004002.00 | 000000.13 | 8A | 007000.23 | 10 T A6A | KF, TRLSYM(TX1) | 17000346 |
| 18* | 004003.00 | 004004.76 | 02 | | | BAE, TA6C | 17000347 |
| 19* | 004003.40 | 004002.25 | 48 | | T A6B | CB+, TX1, TA6A | 17000348 |
| 20* | 004004.00 | 004005.50 | 00 | | | B, TA6D | 17000349 |
| 21* | | | | - | | | 17000350 |
| 22* | 004004.40 | 000001.05 | 00 | | T A6C | C+I, TX3, 1.0 | 17000351 |
| 23* | 004005.00 | 004003.50 | 00 | | | B, TA6B | 17000352 |
| 24* | | | | - | | | 17000353 |
| 25* | 004005.40 * | 003265.31 | 80 | 007000.23 | 10 T A6D | KF, TCTSCH | 17000354 |
| 26* | 004006.40 | 003273.05 | 90 | | | KC, TX3, TLUCT | 17000355 |
| 27* | 004007.00 | 004016.73 | 42 | | | BXH, TAQ | 17000356 |
| 28* | 004007.40 | 004046.36 | 00 | | | BZAE, TA3 | 17000357 |
| 29* | | | | - | | | 17000358 |
| 30* | | | | - | | GET ABSOLUTE CHANNEL NO. AS REQUEST IS PARTIALLY ASSIGNED | 17000359 |
| 31* | | | | - | | | 17000360 |
| 32* | 004010.00 | 003265.00 | 80 | 022027.20 | 50 | L, TCTACH, 46 | 17000361 |
| 33* | 004011.00 | 000011.04 | 10 | | | LX, TX3, \$R | 17000362 |
| 34* | 004011.40 | 000000.14 | 32 | | | LV, TIXJ, TUNTBA(TX3) | 17000363 |
| 35* | 004012.00 | 000000.73 | 82 | 004027.20 | 50 | L, TUNITK(TX3), 46 | 17000364 |
| 36* | 004013.00 | 000011.14 | 50 | | | LC, TIXJ, \$R | 17000365 |
| 37* | 004013.40 | 003273.24 | 80 | 004065.34 | 00 | BZB, TINDA, TC3Z | 17000366 |
| 38* | 004014.40 | 003273.23 | 80 | 004016.74 | 02 | BB, TMODE, TAQ | 17000367 |
| 39* | 004015.40 | 003315.06 | 90 | | | KV, TIXE, TPRUN | 17000368 |
| 40* | 004016.00 | 004065.32 | 00 | | | BZXE, TC3Z | 17000369 |
| 41* | 004016.40 | 003273.25 | 80 | 001000.36 | FC T AQ | CM1111, TINDB | 17000370 |
| 42* | 004017.40 | 000001.23 | 05 | | | V+I, TX2, 1.0 | 17000371 |
| 43* | 004020.00 | 004046.10 | 00 | | | B, TA3 | 17000372 |
| 44* | | | | - | | | 17000373 |
| 45* | | | | - | | | 17000374 |
| 46* | | | | - | | | 17000375 |
| 47* | | | | - | | | 17000376 |
| 48* | | | | - | | CONCLUSION -- TRY TO ASSIGN THIS SINGLE UNIT REQUEST | 17000377 |
| 49* | | | | - | | | 17000378 |
| 50* | 004020.40 | 002152.04 | 10 | | T A7 | LX, TX3, TCHSXW | 17000379 |
| 51* | 004021.00 * | 000000.64 | 82 | 004034.34 | 02 T A7A | BB, TEQUIP(TX3), TB7 | 17000380 |
| 52* | 004022.00 | 000000.31 | 82 | 004034.34 | 02 | BB, TCHAVL(TX3), TB7 | 17000381 |
| 53* | 004023.00 | 000000.03 | 84 | 004000.06 | 70 | LF, TTYPE(TIXA) | 17000382 |
| 54* | 004024.00 | 000000.64 | 82 | 004000.23 | 10 | KF, TEQUIP(TX3) | 17000383 |
| 55* | 004025.00 | 004034.36 | 00 | | | BZAE, TB7 | 17000384 |
| 56* | 004025.40 | 000000.33 | 82 | 004035.34 | 02 | BB, TMULTI(TX3), TA7D | 17000385 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 004026 |
|------|-------------|-----------|-----------------|--------|--|--|----------|
| 1* | 004026.40 | C00000.34 | 82 004034.34 02 | | BB,TUNAVL(TX3),TB7 | -IF UNIT IS NOT AVAILABLE | 17000386 |
| 2* | 004027.40 | C00000.35 | 82 004034.34 00 | | BZB,TUNASG(TX3),TB7 | -IF THE UNIT IS ASSIGNED | 17000387 |
| 3* | 004030.40 | C00000.76 | 82 002000.07 70 | | CT0011(BU,2),TUNRES(TX3) | -IS THE UNIT RESERVED | 17000388 |
| 4* | 004031.40 | C04167.74 | C2 | | BRZ,TA5S | -NO | 17000389 |
| 5* | 004032.00 | C03273.23 | 80 004034.34 00 | | BZB,TMCDE,TB7 | -YES, WHAT IS THE MODE | 17000390 |
| 6* | 004033.00 | C00000.76 | 82 004167.74 00 | | BZB,TUNRES(TX3),TA5S | - NOT OVERLAP, GO ONLY IF OVERLAP RES | 17000391 |
| 7* | 004034.00 | C04021.05 | 48 | T B7 | CB+,TX3 ,TA7A | | 17000392 |
| 8* | 004034.40 * | C03756.50 | C0 | | B,TB2 | -IF IX -D- RUNS OUT | 17000393 |
| 9* | | | | - | | | 17000394 |
| 10* | | | | - | | | 17000395 |
| 11* | | | | - | MULTI-SINGLE UNIT REQUEST. EG DISK, CONSOLE | | 17000396 |
| 12* | 004035.00 | C00000.14 | 32 | T A7D | LV,TIXJ,TUNTBA(TX3) | -ADDRESS OF UNIT TABLE | 17000397 |
| 13* | 004035.40 | 000000.73 | 82 004027.20 50 | | L,TUNITK(TX3),46 | -GET UNIT COUNT | 17000398 |
| 14* | 004036.40 | 000011.14 | 50 | | LC,TIXJ,\$R | -PLACE IN CF | 17000399 |
| 15* | 004037.00 | 004034.30 | 42 | | BXCZ,TB7 | -IF NO UNITS ARE AVAILABLE | 17000400 |
| 16* | 004037.40 | C00000.34 | 86 004045.34 02 | T A7CA | BB,TUNAVL(TIXJ),TC7 | -IF THE UNIT IS NOT AVAILABLE | 17000401 |
| 17* | 004040.40 | C00000.35 | 86 004045.34 00 | | BZB,TUNASG(TIXJ),TC7 | -IF THE UNIT IS ASSIGNED | 17000402 |
| 18* | 004041.40 | C00000.76 | 86 002000.07 70 | | CT0011(BU,2),TUNRES(TIXJ) | -IS UNIT RESERVED | 17000403 |
| 19* | 004042.40 | C04137.34 | C2 | | BRZ,TA5A | -NO | 17000404 |
| 20* | 004043.00 | C03273.23 | 80 004045.34 00 | | BZB,TMCDE,TC7 | -YES, WHAT IS THE MODE | 17000405 |
| 21* | 004044.00 | 000000.76 | 86 004137.34 00 | | BZB,TUNRES(TIXJ),TA5A | -NOT OVERLAP, GO IF OVERLAP RES | 17000406 |
| 22* | 004045.00 | 004037.55 | 48 | T C7 | CB+,TIXJ,TA7CA | | 17000407 |
| 23* | 004045.40 | C04034.10 | 00 | | B,TP7 | | 17000408 |
| 24* | | | | - | | | 17000409 |
| 25* | | | | - | | | 17000410 |
| 26* | | | | - | | | 17000411 |
| 27* | | | | - | MULTI-UNIT CHANNEL SCAN | | 17000412 |
| 28* | | | | - | | | 17000413 |
| 29* | | | | - | | | 17000414 |
| 30* | 004046.00 | C00000.12 | 19 | T A3 | LX,TIXB,C.0(TX2) | -GET THE PROPER SCAN | 17000415 |
| 31* | 004046.40 | C03756.70 | 42 | | BXCZ,TB2 | -IF THERE ARE NO MULTI UNITS AVAILABLE | 17000416 |
| 32* | 004047.00 | 000000.14 | 55 | T A3D | LC,TIXJ,0.0(TIXB) | -LOCATE THE CHANNEL WORD INDEX | 17000417 |
| 33* | 004047.40 | C00022.15 | 50 | | SC,TIXJ,TX3 | -TO REMOVE THE INTERGER FROM THE VF | 17000418 |
| 34* | 004050.00 * | C00000.14 | 32 | | LV,TIXJ,TUNTBA(TX3) | -ADDRESS OF THE UNIT TABLE TO IX | 17000419 |
| 35* | 004050.40 | 000000.73 | 82 004027.20 50 | | L,TUNITK(TX3),46 | -GET THE NUMBER OF UNITS ON CHANNEL | 17000420 |
| 36* | 004051.40 | C00000.24 | 85 004007.06 70 | | LF,TCHCNT(TIXB),14 | -GET NO. OF UNITS ON CHAN FOR COMPARE | 17000421 |
| 37* | 004052.40 | C00011.14 | 50 | | LC,TIXJ,\$R | -PLACE IN CF | 17000422 |
| 38* | 004053.00 | C00011.45 | 90 | | KC,TX3,\$R+.32 | -ARE THERE ENOUGH UNITS TO SATIFY REQ | 17000423 |
| 39* | 004053.40 | 000000.13 | 84 007000.06 70 | | LF,TRLSYM(TIXA) | -TEST FOR BLANK CHANNEL REQUEST | 17000424 |
| 40* | 004054.40 | C04065.34 | C2 | | BRZ,TC3Z | -YES, ASSIGN TO ANY CHANNEL | 17000425 |
| 41* | 004055.00 | C04056.73 | 40 | | BZXF,TA3C | -IF THERE ARE ENOUGH UNITS ON A CHAN | 17000426 |
| 42* | 004055.40 | C03273.25 | 80 004132.34 00 | | BZB,TINDB,TA3F1 | -IF THE SPLIT CHAN IND IS OFF | 17000427 |
| 43* | | | | - | | | 17000428 |
| 44* | | | | - | IS THIS CHAN ASSIGNED TO ANOTHER I/O WITHIN PP | | 17000429 |
| 45* | | | | - | | | 17000430 |
| 46* | 004056.40 | C03273.24 | 80 004065.34 02 | T A3C | BB,TINCA,TC3Z | -IF SAME CHAN IS ALLOWED | 17000431 |
| 47* | 004057.40 | C03271.24 | 10 | | LX,TIXK,TREFIL | -SET IX FOR SCANNING I/O REQ TABLE | 17000432 |
| 48* | 004060.00 | C00011.05 | 30 | | SV,TX3,\$R | -CHANNEL ADDRESS TO ACC | 17000433 |
| 49* | 004060.40 | 000000.56 | 8A 022027.23 10 | T A3CA | KF,TABSCH(TIXK),46 | -LOOK FOR LIKE CHANNEL ADDRESS | 17000434 |
| 50* | 004061.40 | C04064.76 | C0 | | BZAE,TA3CB | -IF CHAN IS NOT ASSIGNED TO ANOTHER | 17000435 |
| 51* | | | | - | | | 17000436 |
| 52* | | | | - | YES -- DOES THE I/O REQUEST THE SAME CHANNEL | | 17000437 |
| 53* | | | | - | | | 17000438 |
| 54* | 004062.00 | C00000.13 | 8A 007000.06 70 | | LF,TRLSYM(TIXK) | -REL SYMB CHAN NUMBER VS | 17000439 |
| 55* | 004063.00 * | C00000.13 | 84 007000.23 10 | | KF,TRLSYM(TIXA) | -THE ASSIGNED REL SYMB CHAN NUMBER | 17000440 |
| 56* | 004064.00 | 004132.36 | C0 | | BZAE,TA3F1 | -IF THEY ARE UN-LIKE | 17000441 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|-----------------|--------|---|----------|
| 1* | | | | - | | 17000442 |
| 2* | 004064.40 | 004060.65 | 48 | T A3CB | CB+,TIXK,TA3CA | 17000443 |
| 3* | | | | - | IF IT GETS HERE, DO A UNIT TABLE SCAN | 17000444 |
| 4* | | | | - | | 17000445 |
| 5* | 004065.CC | 003270.15 | 10 | T C3Z | SX,TIXJ,TWORK2 -SAVE IX FOR RELOAD | 17000446 |
| 6* | 004065.40 | 003270.14 | 10 | T C3 | LX,TIXJ,TWORK2 -RELOAD | 17000447 |
| 7* | 004066.CC | 000000.34 | 86 004127.34 02 | T C3A | BB,TUNAVL(TIXJ),TB3 -IF THE UNIT IS NOT AVAILABLE | 17000448 |
| 8* | 004067.CC | 003273.31 | 80 001000.CC FC | | CM0000,TINDZ -RESET | 17000449 |
| 9* | | | | - | | 17000450 |
| 10* | | | | - | | 17000451 |
| 11* | | | | - | | 17000452 |
| 12* | 004070.CC | 000000.35 | 86 004127.34 00 | | BZB,TUNASG(TIXJ),TB3 -IF THE UNIT IS ASSIGNED | 17000453 |
| 13* | 004071.CC | 000000.76 | 86 002000.07 70 | | CT0011(BU,2),TUNRES(TIXJ) -=TEST THE RESERVE BITS | 17000454 |
| 14* | 004072.CC | 004075.74 | C2 | | BRZ,TA4A -IF NOT RESERVED | 17000455 |
| 15* | 004072.40 | 003273.23 | 80 004127.34 00 | | BZB,TMCDE,TB3 -IF OVERLAP MODE | 17000456 |
| 16* | 004073.40 | 000000.76 | 86 004127.34 02 | | BB,TUNRES(TIXJ),TB3 -IF NOT OVERLAP RESERVED | 17000457 |
| 17* | 004074.40 | 000000.C1 | 84 004107.74 02 | | BB,TUNCRT(TIXA),TA4C -IF SINGLE UNIT NOT OVERLAP MODE | 17000458 |
| 18* | 004075.40 | 003273.31 | 80 001000.00 FC | T A4A | CM0000,TINDZ -SET THE MULTI-UNIT AVAIL.BIT | 17000459 |
| 19* | 004076.40 * | 003273.27 | 80 004137.34 02 | | BB,TINDD,TA5A -IF THE OPT. REEL MOUNT IS BY PASSED | 17000460 |
| 20* | 004077.40 | 000000.34 | 84 022000.06 70 | | LF,TFREEL(TIXA) -GET THE REEL NUMBER ADDRESS | 17000461 |
| 21* | 004100.40 | 004106.34 | C2 | | BRZ,TA4B -IF SCRATCH REQ. | 17000462 |
| 22* | 004101.CC | 000000.33 | 86 004137.34 02 | | BB,TFDISP(TIXJ),TA5A -IF NO TAPE MTEd, MNT THE LAB TAP | 17000463 |
| 23* | 004102.CC | 003273.22 | 80 001000.06 70 | | LF,TCNE -IF REEL ADDRESS IS NOT ZERC | 17000464 |
| 24* | 004103.CC | 000000.32 | 86 001000.23 10 | T A4BA | KF,STATI(TIXJ) -ORIGINAL VS THE NEW | 17000465 |
| 25* | 004104.CC | 004137.36 | C2 | | BAE,TA5A -IF LIKE MOUNTING | 17000466 |
| 26* | 004104.40 | 003273.26 | 80 001000.36 FC | T A4CM | CM1111,TINDC -SET THE UNIT FOUND IND. | 17000467 |
| 27* | 004105.40 | 004127.10 | C0 | | B,TB3 | 17000468 |
| 28* | 004106.CC | 000000.33 | 86 004104.74 02 | TA4B | BB,TFDISP(TIXJ),TA4CM -SCRATCH. IS A TAPE MTEd | 17000469 |
| 29* | 004107.CC | 004103.10 | C0 | | B,TA4BA -YES | 17000470 |
| 30* | | | | - | | 17000471 |
| 31* | | | | - | SINGLE NOT OVERLAP MODE -- BE SURE THE UNIT IS | 17000472 |
| 32* | | | | - | RESERVED FOR A PP THAT IS IN QUEUE AFTER THIS PP | 17000473 |
| 33* | | | | - | | 17000474 |
| 34* | 004107.40 | 000023.24 | 10 | T A4C | LX,TIXL,TIXE -LOAD FOR PP REF TABLE SCAN | 17000475 |
| 35* | 004110.CC | 000002.25 | C7 | T A4CA | V+ICR,TIXL,2.0 -GET THE NEXT PP REF NUMBER | 17000476 |
| 36* | 004110.40 | 000000.47 | 8A 004127.34 02 | | BR,TLPEN(TIXL),TB3 -IF LAST ENTRY | 17000477 |
| 37* | 004111.40 | 000000.44 | 8A 004110.34 02 | | BB,TJBPRO(TIXL),TA4CA -IF NOT OVERLAP JOB WAS PROCESSED | 17000478 |
| 38* | 004112.40 * | 000000.34 | 8A 010027.20 50 | | L,TUNCT(TIXL),46 -GET THE I/O REQ COUNT | 17000479 |
| 39* | 004113.40 | 004110.34 | C2 | | BRZ,TA4CA -IF THERE IS NO I/O REQ FOR PP | 17000480 |
| 40* | 004114.CC | 000011.20 | 50 | | LC,TIXM,\$R -UNIT COUNT TO CF | 17000481 |
| 41* | 004114.40 | 000000.20 | 3A | | LV,TIXM,TCRREF(TIXL) -GET I/O REQ TBL ADDRESS | 17000482 |
| 42* | | | | - | | 17000483 |
| 43* | 004115.CC | 000000.56 | 88 022027.20 50 | T A4CB | L,TABSCH(TIXM),46 -GET THE CHANNEL ADDRESS | 17000484 |
| 44* | 004116.CC | 000011.04 | 90 | | KV,TX3,\$R -COMPARE CHANNEL ADDRESSES | 17000485 |
| 45* | 004116.40 | 004126.32 | C0 | | BZXE,TA4CC -IF THEY ARE UNLIKE | 17000486 |
| 46* | 004117.CC | 000011.24 | 30 | | LV,TX1,\$R | 17000487 |
| 47* | 004117.40 | 000000.73 | 8A 004027.20 50 | | L,TUNITK(TX1),46 -GET THE UNIT COUNT | 17000488 |
| 48* | 004120.40 | 000000.07 | 88 003027.30 10 | | -,TABSUN(TIXM),46 -COMPUTE THE RELATIVE UNIT NUMBER | 17000489 |
| 49* | 004121.40 | 000011.15 | 90 | | KC,TIXJ,\$R -COMPARE UNIT NUMBERS | 17000490 |
| 50* | 004122.CC | 004126.32 | C0 | | BZXE,TA4CC -IF UNLIKE UNITS | 17000491 |
| 51* | 004122.40 | 000000.CC | 88 001000.CC FC | | CM0000,TASGNI(TIXM) -ZERO THE ASIGNED BIT -- UNIT BASIS | 17000492 |
| 52* | 004123.40 | 000000.02 | 88 001000.CC FC | | CM0000,TPRINT(TIXM) -RESET THE PRINT BIT | 17000493 |
| 53* | 004124.40 | 000000.46 | 8A 001000.CC FC | | CM0000,TASGNP(TIXL) -ZERO THE ASIGNED BIT -- JOB BASIS | 17000494 |
| 54* | 004125.40 | 004142.50 | C0 | | B,TA5MA -THE UNIT IS NOW RELEASED | 17000495 |
| 55* | 004126.CC * | 004115.21 | 48 | T A4CC | CB+,TIXM,TA4CB -IF UNLIKE UNIT/CHAN NUMBER | 17000496 |
| 56* | 004126.40 | 004110.10 | C0 | | B,TA4CA -COULD NOT FIND RESERVED UNIT | 17000497 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------|---|----------|
| 1* | | | | - | | 17000498 |
| 2* | | | | - | | 17000499 |
| 3* | | | | - | | 17000500 |
| 4* | | | | - | | 17000501 |
| 5* | 004127.00 | C04C66.15 | 48 | T B3 | CB+,TIXJ,TC3A | 17000502 |
| 6* | 004127.40 | C03273.26 | 80 | | BZRZ,TINDC,TA3F1 | 17000503 |
| 7* | 004130.40 | C03273.27 | 80 | | CM1111,TINDD | 17000504 |
| 8* | 004131.40 | 004C65.5C | C0 | | B,TC3 | 17000505 |
| 9* | | | | - | | 17000506 |
| 10* | 004132.00 | C0CC25.12 | 10 | T A3F1 | LX,TIXB,TIXB | 17000507 |
| 11* | 004132.40 | C03756.70 | 42 | | BXCZ,TB2 | 17000508 |
| 12* | 004133.00 | 004047.12 | C8 | | CBH,TIXB,TA3D | 17000509 |
| 13* | | | | - | | 17000510 |
| 14* | | | | - | IN THE CASE OF AN INDEX RUNOUT | 17000511 |
| 15* | | | | - | | 17000512 |
| 16* | 004133.40 | 003273.23 | 80 | | BB,TMODE,TABBN | 17000513 |
| 17* | 004134.40 | 003315.06 | 90 | | KV,TIXE,TPPRUN | 17000514 |
| 18* | 004135.00 | C03756.72 | C0 | | BZXE,TB2 | 17000515 |
| 19* | 004135.40 | 003273.24 | 80 | T ABBN | BBN,TINDA,TB2 | 17000516 |
| 20* | 004136.40 | 004046.10 | 00 | | B,TA3 | 17000517 |
| 21* | | | | - | | 17000518 |
| 22* | | | | - | | 17000519 |
| 23* | | | | - | | 17000520 |
| 24* | | | | - | | 17000521 |
| 25* | | | | - | MULTI - UNIT ASSIGNMENT | 17000522 |
| 26* | | | | - | MARK THE I/O UNIT RESERVED | 17000523 |
| 27* | | | | - | MARK THE I/O REQUEST ASSIGNED | 17000524 |
| 28* | 004137.00 | C0CC00.24 | 1F | T A5A | LX,TCTWDX,0.0(\$15) | 17000525 |
| 29* | 004137.40 | C04141.63 | 40 | | BZXF,TA5M1 | 17000526 |
| 30* | | | | - | | 17000527 |
| 31* | 004140.00 | C0CC00.76 | 86 | | CM1111,TUNRES(TIXJ) | 17000528 |
| 32* | 004141.00 | 004142.50 | 00 | | B,TA5MA | 17000529 |
| 33* | 004141.40 * | C0CC00.77 | 86 | T A5M1 | CM1111,TOVRES(TIXJ) | 17000530 |
| 34* | 004142.40 | C0CC00.00 | 84 | T A5MA | BB1,TASGNI(TIXA),TI | 17000531 |
| 35* | 004143.40 | C0CC11.05 | 3C | | SV,TX3,\$R | 17000532 |
| 36* | 004144.00 | C0CC00.56 | 84 | | ST,TABSCH(TIXA),46 | 17000533 |
| 37* | 004145.00 | C02152.00 | 80 | | -(BU,18),TCHSXW,46 | 17000534 |
| 38* | 004146.00 | C05002.14 | 80 | | ST(BU,7),TCOT+.12,46 | 17000535 |
| 39* | 004147.00 | 000000.73 | 82 | | L,TUNITK(TX3),46 | 17000536 |
| 40* | 004150.00 | C0CC26.52 | 80 | | -(BU,4),TIXJ+0.42,46 | 17000537 |
| 41* | 004151.00 | C0CC00.07 | 84 | | ST,TABSUN(TIXA),46 | 17000538 |
| 42* | 004152.00 | C05002.57 | 80 | | ST(BU,3),TCOT+.47,46 | 17000539 |
| 43* | 004153.00 | 000000.03 | 84 | | BZB,TTYPE(TIXA),TA2A | 17000540 |
| 44* | 004154.00 | C0CC00.33 | 86 | | BB,TFDISP(TIXJ),TA2A | 17000541 |
| 45* | 004155.00 * | C0CC00.32 | 86 | | BB,STATI(TIXJ),TA5LC | 17000542 |
| 46* | 004156.00 | C0CC00.34 | 84 | | CTOC11,TFREEL(TIXA) | 17000543 |
| 47* | 004157.00 | 003745.34 | C2 | | BRZ,TA2A | 17000544 |
| 48* | | | | - | CONCLUSION IS A SCRATCH IS MOUNTED AND A LABEL TAPE IS TO RE- | 17000545 |
| 49* | | | | - | PLACE IT , HENCE WE MUST UNLOAD | 17000546 |
| 50* | 004157.40 | C05002.13 | C2 | T A5LC | LCI,TIXB,TCCT | 17000547 |
| 51* | 004160.00 | C0CC00.13 | 56 | | SC,TIXB,0.0(TIXJ) | 17000548 |
| 52* | 004160.40 | C0CC00.40 | 86 | | CM1111,TCHOWN(TIXJ) | 17000549 |
| 53* | 004161.40 | C0CC00.35 | 86 | | CM0000,TUNASG(TIXJ) | 17000550 |
| 54* | 004162.40 | C0CC00.65 | 86 | | CM0000,SIMNT(TIXJ) | 17000551 |
| 55* | 004163.40 | 000000.63 | 86 | | CM0000,SMCUNT(TIXJ) | 17000552 |
| 56* | 004164.40 | 001472.10 | C0 | T IPL3 | B,DMCP | 17000553 |

| LINE | LOCATICN | BINARY OUTPUT | NAME | STATEMENT | LOCATIONN | 004165 |
|------|-------------|---------------|--------------|---------------------------------|---|--------------------------------------|
| 1* | 004165.00 | C00000.00 80 | | ,DFREE | | 17000554 |
| 2* | 004165.40 | C00011.00 80 | | ,9. | | 17000555 |
| 3* | 004166.00 | C00000.40 86 | 001000.00 F0 | CM0000,TCHOWN(TIXJ) | -THEN RESET BACK TO PP OWNER | 17000556 |
| 4* | 004167.00 | 003745.10 00 | | B,TA2A | | 17000557 |
| 5* | | | | | | 17000558 |
| 6* | | | | SINGLE UNIT ASSIGNMENT | | 17000559 |
| 7* | | | | MARK THE I/O CHAN/UNIT RESERVED | | 17000560 |
| 8* | | | | MARK THE I/O REQUEST ASSIGNED | | 17000561 |
| 9* | | | | | | 17000562 |
| 10* | 004167.40 | C00000.24 1F | T A5S | LX,TCTWDX,0.0(\$15) | -CHECK THE MODE | 17000563 |
| 11* | 004170.00 | C04172.23 42 | | BXF,TA5Z | -IF NOT OVERLAP | 17000564 |
| 12* | 004170.40 * | C00000.77 82 | 001000.36 F0 | CM1111,TOVRES(TX3) | -SET THE OVERLAP RESERVED BIT | 17000565 |
| 13* | 004171.40 | C04173.10 00 | | B,TA5SA | | 17000566 |
| 14* | 004172.00 | C00000.76 82 | 001000.36 F0 | T A5Z | CM1111,TUNRES(TX3) | -SET THE NOT OVERLAP RESERVED BIT |
| 15* | 004173.00 | C00000.00 84 | 004420.34 OE | T A5SA | BB1,TASGNI(TIXA),TH | -SET THE ASSIGNED BIT -- I/O REQ TBL |
| 16* | 004174.00 | C00011.05 30 | | | SV,TX3,\$R | -THE CHAN/UNIT ADDRESS |
| 17* | 004174.40 | C00000.56 84 | 022027.2C C0 | | ST,TABSCH(TIXA),46 | -PLACE IN THE I/O REQ TBL |
| 18* | 004175.40 | C03756.5C C0 | | | B,TB2 | 17000571 |
| 19* | | | | | | 17000572 |
| 20* | | | | | | 17000573 |
| 21* | | | | | | 17000574 |
| 22* | | | | | | 17000575 |
| 23* | | | | | CHECK TO SEE THAT ALL UNITS WERE ASSIGNED TO A GIVEN PP. IF SO MARK THE ASSIGNED BIT ON IN THE PP REFERENCE TABLE | 17000576 |
| 24* | | | | | | 17000577 |
| 25* | | | | | | 17000578 |
| 26* | 004176.00 | C00024.02 C0 | T A8 | R,TIXA | -RELOAD -A- | 17000579 |
| 27* | 004176.40 | C00000.22 84 | 004200.34 00 | T A8A | BZB,TLAST(TIXA),TA8BB | 17000580 |
| 28* | 004177.40 | C03373.11 01 | | | LVI,TIXA,TIGREQ | -RELOAD IX TO BEGINNING OF TABLE |
| 29* | 004200.00 | C00000.00 84 | 004210.74 C0 | T A8BB | BZB,TASGNI(TIXA),TA8B | -IF NOT ASSIGNED |
| 30* | 004201.00 | C04176.51 48 | | | CR+,TIXA,TA8A | 17000583 |
| 31* | | | | | | 17000584 |
| 32* | | | | | | 17000585 |
| 33* | 004201.40 | C00000.46 83 | 001000.36 F0 | T B8C | CM1111,TASGNP(TIXE) | -SET PP ASSIGNED BIT |
| 34* | 004202.40 | C00000.24 1F | | | LX,TCTWDX,0.0(\$15) | -LOAD FCR OVERLAP TEST |
| 35* | 004203.00 | C04421.23 42 | | | BXF,TK | -IF NOT OVERLAP MODE |
| 36* | | | | | | 17000589 |
| 37* | 004203.40 | C00002.07 07 | | T B8Z | V+ICR,TIXE,2.0 | -STEP IX -E- |
| 38* | 004204.00 * | 004205.70 40 | | | BZXCZ,TB8A | -COUNT IS OK |
| 39* | 004204.40 | C03273.33 80 | 001000.22 B0 | | M+1,TLOCP1 | -IX REFILLED INDICATOR |
| 40* | 004205.40 | C03273.30 80 | 003710.34 02 | T B8A | BB,TINDE,TA1 | -IF SAVING IS TO BE IGNORED |
| 41* | 004206.40 | C00000.24 1F | | | LX,TCTWDX,0.0(\$15) | -CHECK MODE BEFORE SAVING |
| 42* | 004207.00 | C03710.23 42 | | | BXF,TA1 | -IF NOT OVERLAP |
| 43* | 004207.40 | C03272.07 10 | | | SX,TIXE,TSAV | -IF NOT SAVE |
| 44* | 004210.00 | C03710.10 00 | | | B,TA1 | 17000597 |
| 45* | | | | | | 17000598 |
| 46* | 004210.40 | C00000.24 1F | | T A8B | LX,TCTWDX,0.0(\$15) | -LOAD FCR OVERLAP TEST |
| 47* | 004211.00 | C04360.23 42 | | | BXF,TAREJX | -NOT OVERLAP ASSIGNED |
| 48* | 004211.40 | C00002.07 07 | | T B8 | V+ICR,TIXE,2.0 | 17000601 |
| 49* | 004212.00 | C03273.30 80 | 001000.36 F0 | | CM1111,TINDE | -DO NOT SAVE INDEX TIXE FROM HERE ON |
| 50* | 004213.00 | C03710.30 40 | | | BZXCZ,TA1 | -COUNT STILL OK |
| 51* | 004213.40 | C03273.33 80 | 001000.22 B0 | | M+1,TLOCP1 | -IX REFILLED INDICATOR |
| 52* | 004214.40 | C03710.10 00 | | | B,TA1 | -SO DO NOT SAVE -E- |
| 53* | | | | | | 17000605 |
| 54* | | | | | | 17000606 |
| 55* | | | | | | 17000607 |
| 56* | | | | | | 17000608 |
| | | | | | | 17000609 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------------|----------|---|----------|
| 1* | | | | - | MACHINE CONFIGURATION CHANGE | 17000610 |
| 2* | | | | - | ADJUST THE NECESSARY TABLES | 17000611 |
| 3* | | | | - | | 17000612 |
| 4* | 004215.00 | C02152.24 | 10 | T A9 | LX,TIXF,TCHSXW | 17000613 |
| 5* | 004215.40 | CCCC00.00 | 8F 030000.00 | FC | CM0000(BU,24),0.0(\$15) | 17000614 |
| 6* | 004216.40 | 002153.20 | 30 | | LV,TIXG,SBAMCP | 17000615 |
| 7* | 004217.00 * | 004767.00 | 80 000003.02 | A8 | TI,1,TDSIG,03.(TIXG) | 17000616 |
| 8* | 004220.00 | 004770.00 | 80 000011.02 | A8 | TI,1,TDSIG+1.,9.(TIXG) | 17000617 |
| 9* | 004221.00 | 003647.20 | 10 | | LX,TIXG,TTYARA | 17000618 |
| 10* | 004221.40 | 000000.10 | 88 010000.00 | FC T CM9 | CM0000,IMCAD (TIXG) | 17000619 |
| 11* | 004222.40 | 003650.20 | 00 | | V+C,TIXG,TCOMBO | 17000620 |
| 12* | 004223.00 | 004221.70 | 40 | | BZXCZ,TCM9 | 17000621 |
| 13* | | | | - | | 17000622 |
| 14* | 004223.40 | 003273.00 | 80 022000.00 | FC | CM0000,TLUCT | 17000623 |
| 15* | 004224.40 | 003655.04 | 10 | | LX,TIXH,TMUCTX | 17000624 |
| 16* | 004225.00 | CCCC00.24 | 82 004000.00 | FC T A9A | CM0000,TCHCNT(TIXH) | 17000625 |
| 17* | 004226.00 | 000000.64 | 8A 004024.20 | 50 | L,TEQUIP(TIXF),4C | 17000626 |
| 18* | 004227.00 | 004261.74 | C2 | | BRZ,TB9B | 17000627 |
| 19* | 004227.40 | 003650.00 | 80 030024.21 | 90 | *(BU,24),TCOMBO,40 | 17000628 |
| 20* | 004230.40 | 003650.40 | 80 030012.30 | 10 | -(BU,24),T2COMB,20 | 17000629 |
| 21* | 004231.40 | C00011.00 | 80 000012.20 | 50 | L(BU,64),\$R,20 | 17000630 |
| 22* | 004232.40 | C00011.20 | 30 | | LV,TIXG,\$R | 17000631 |
| 23* | 004233.00 * | 400000.00 | 80 401000.20 | 50 | LI(BU,1),1 | 17000632 |
| 24* | 004234.00 | 000000.64 | 8A 004236.34 | 00 | BZB,TEQUIP(TIXF),T9M | 17000633 |
| 25* | 004235.00 | 000000.73 | 8A 004000.20 | 50 | L,TUNITK(TIXF) | 17000634 |
| 26* | 004236.00 | 003652.00 | 88 010000.20 | 90 T 9M | M+,TDISK(TIXG) | 17000635 |
| 27* | 004237.00 | 000000.33 | 8A 004275.74 | 02 | BB,TMULTI(TIXF),TA9D | 17000636 |
| 28* | 004240.00 | 000000.31 | 8A 004243.34 | 02 | BB,TCHAVL(TIXF),TA9B | 17000637 |
| 29* | 004241.00 | 000000.40 | 8A 004244.34 | 02 | BB,TCHCWN(TIXF),TA9BA | 17000638 |
| 30* | 004242.00 | 000000.34 | 8A 004246.34 | 00 | BZB,TUNAVL(TIXF),TB9 | 17000639 |
| 31* | 004243.00 | 000000.35 | 8A 004422.34 | 00 T A9B | BZB,TUNASG(TIXF),TM | 17000640 |
| 32* | 004244.00 | 004246.03 | 01 | T A9BA | LVI,TX1BR,TB9 | 17000641 |
| 33* | 004244.40 | 000000.76 | 8A 002000.07 | 70 | CTOC11(BU,2),TUNRES(TIXF) | 17000642 |
| 34* | 004245.40 | 004320.34 | 00 | | BZRZ,TA1C | 17000643 |
| 35* | 004246.00 * | 000000.64 | 8A 004000.06 | 70 T B9 | LF,TEQUIP(TIXF) | 17000644 |
| 36* | 004247.00 | 100000.00 | 80 404000.23 | 10 | KFI(BU,4),2 | 17000645 |
| 37* | 004250.00 | 004254.76 | C0 | | BZAE,TB9A | 17000646 |
| 38* | 004250.40 | 000032.20 | 30 | | LV,TIXG,TIXF | 17000647 |
| 39* | 004251.00 | 000030.30 | 80 001000.36 | FO | CM1111(BU,1),TIXG+.24 | 17000648 |
| 40* | 004252.00 | 002152.20 | 00 | | V+,TIXG,SXCHAN | 17000649 |
| 41* | 004252.40 | 000011.21 | 30 | | SV,TIXG,\$R | 17000650 |
| 42* | 004253.00 | 002156.02 | 80 021027.12 | FO | SF(BU,17),SYCOCH+.2,46 | 17000651 |
| 43* | 004254.00 | 004261.50 | 00 | | B,TB9B | 17000652 |
| 44* | 004254.40 | 240000.00 | 80 404000.23 | 10 T B9A | KFI(BU,4),5 | 17000653 |
| 45* | 004255.40 | 004261.76 | C0 | | BZAE,TB9B | 17000654 |
| 46* | 004256.00 | 000032.20 | 30 | | LV,TIXG,TIXF | 17000655 |
| 47* | 004256.40 | 000030.30 | 80 001000.36 | FO | CM1111(BU,1),TIXG+.24 | 17000656 |
| 48* | 004257.40 | 002152.20 | 80 | | V+,TIXG,SXCHAN | 17000657 |
| 49* | 004260.00 | 000011.21 | 30 | | SV,TIXG,\$R | 17000658 |
| 50* | 004260.40 | 002156.42 | 80 021027.12 | FO | SF(BU,17),SYPRCH+.2,46 | 17000659 |
| 51* | 004261.40 | 004225.25 | 48 | T B9B | CB+,TIXF,TA9A | 17000660 |
| 52* | | | | - | | 17000661 |
| 53* | | | | - | SAVE THE VALUES OF THE UNIT COUNT INDEX | 17000662 |
| 54* | | | | - | | 17000663 |
| 55* | 004262.00 * | 000000.45 | 00 | | V-I,TIXH,0.32 | 17000664 |
| 56* | 004262.40 | 003660.05 | 10 | | SX,TIXH,TRCHSC | 17000665 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 004263 | | |
|------|-------------|-----------|--------|-----------|-----------|--------------------------|--|-------------------------------------|----------|
| 1* | 004263.00 | C03660.30 | 80 | 001000.36 | FC | CM1111(BU,1),TRCHSC+C.24 | -SET THE IX NEG | 17000666 | |
| 2* | 004264.00 | C03661.05 | 01 | | | LVI,TIXF,TCHCUC | -MODIFY THE VALUE FIELD | 17000667 | |
| 3* | 004264.40 | C03657.05 | 10 | | | SX,TIXH,TFCHSC | -SAVE THE FORWARD SCAN INDEX | 17000668 | |
| 4* | | | | | | | | 17000669 | |
| 5* | | | | | | | SORT THE UNIT COUNT TABLE | 17000670 | |
| 6* | | | | | | | | 17000671 | |
| 7* | | | | | | | | 17000672 | |
| 8* | 004265.00 | C00022.24 | 10 | T D9A | | LX,TIXF,TIXH | -LOAD TRANSIT INDEX | 17000673 | |
| 9* | 004265.40 | C04274.70 | 42 | | | BXCZ,TD9 | -IF NO MULTI UNIT TABLE | 17000674 | |
| 10* | 004266.00 | C00000.00 | 82 | 040020.06 | 70 | LF(BU,32),0.0(TIXH),32 | -LOAD ACC WITH THE TOP WORD | 17000675 | |
| 11* | 004267.00 | C00000.24 | 8A | 004024.23 | 10 | TD9B | KF,TCHCNT(TIXF),40 | 17000676 | |
| 12* | 004270.00 | C04272.77 | 40 | | | BZAH,TD9C | -IF ACC IS THE SMALLER | 17000677 | |
| 13* | 004270.40 | C00000.20 | 3A | | | LV,TIXG,0.0(TIXF) | -USE INDEX FOR SWAPPING | 17000678 | |
| 14* | 004271.00 | C00000.00 | 8A | 040020.20 | D0 | ST(BU,32),0.0(TIXF),32 | -STORE THE GREATER | 17000679 | |
| 15* | 004272.00 | C00011.21 | 30 | | | SV,TIXG,\$R | -RELOAD ACC WITH THE LESSER | 17000680 | |
| 16* | 004272.40 | C04267.24 | C8 | T D9C | | CBH,TIXF,TD9B | | 17000681 | |
| 17* | 004273.00 | C00000.00 | 82 | 040020.20 | D0 | ST(BU,32),0.0(TIXH),32 | -REPLACE THE INITIAL WORD WITH FINAL | 17000682 | |
| 18* | 004274.00 | 004265.04 | C8 | | | CBH,TIXF,TD9A | | 17000683 | |
| 19* | | | | | | | | 17000684 | |
| 20* | 004274.40 | C00000.24 | 1F | T D9 | | LX,TCTWDX,0.0(\$15) | -RELOAD FOR TEST | 17000685 | |
| 21* | 004275.00 | 003704.10 | 00 | | | B,TB1F | | 17000686 | |
| 22* | | | | | | | | 17000687 | |
| 23* | | | | | | | MULTI UNIT SCAN | 17000688 | |
| 24* | | | | | | | | 17000689 | |
| 25* | 004275.40 * | C00000.73 | 8A | 004027.20 | 50 | T A9D | L,TUNITK(TIXF),46 | -LOAD FOR UNIT TABLE SCAN | 17000690 |
| 26* | 004276.40 | C00011.20 | 50 | | | LC,TIXG,\$R | -UNIT COUNT TO CF | 17000691 | |
| 27* | 004277.00 | C04246.30 | 42 | | | BXCZ,TB9 | -IF NO UNITS CONNECTED TO CHAN | 17000692 | |
| 28* | 004277.40 | C00000.20 | 3A | | | LV,TIXG,TUNTBA(TIXF) | -UNIT TABLE ADDRESS TO VF | 17000693 | |
| 29* | 004300.00 | C00000.31 | 8A | 004303.34 | 02 | T A9E | BB,TCHAVL(TIXF),TA9F | -IF CHAN IS NOT AVAILABLE | 17000694 |
| 30* | 004301.00 | C00000.40 | 88 | 004304.34 | 02 | | BB,TCHOWN(TIXG),TA9FA | -IF MCP LEVEL IT IS NOT AVAIL TO PP | 17000695 |
| 31* | 004302.00 | C00000.34 | 88 | 004315.74 | 00 | | BZB,TUNAVL(TIXG),TC9 | -IF THE UNIT IS AVAILABLE | 17000696 |
| 32* | 004303.00 | C00000.35 | 88 | 004422.74 | 00 | T A9F | BZB,TUNASG(TIXG),TN | -IF THE UNIT IS ASSIGNED | 17000697 |
| 33* | 004304.00 | 004306.03 | C1 | | | T A9FA | LVI,TX1BR,TA9G | -LOAD FOR SUB ROUTINE BRANCH | 17000698 |
| 34* | 004304.40 | C00000.76 | 88 | 002000.07 | 70 | | CTOC11(BU,2),TUNRES(TIXG) | | 17000699 |
| 35* | 004305.40 | C04322.74 | C0 | | | | BZRZ,TCIC | -IF THE UNIT IS RESERVED BY PP | 17000700 |
| 36* | 004306.00 | C04300.21 | 48 | | | T A9G | CB+,TIXG,TA9E | | 17000701 |
| 37* | | | | | | | | 17000702 | |
| 38* | | | | | | | ADVANCE THE UNIT COUNT TABLE FOR ANOTHER CHANNEL | 17000703 | |
| 39* | | | | | | | | 17000704 | |
| 40* | | | | | | | | 17000705 | |
| 41* | 004306.40 | C00000.24 | 82 | 004000.06 | 70 | | LF,TCHCNT(TIXH) | -TEST FOR NO ENTRY | 17000706 |
| 42* | 004307.40 | C04246.34 | C2 | | | | BRZ,TB9 | -IF NO ENTRY | 17000707 |
| 43* | 004310.00 | C00011.25 | 30 | | | | SV,TIXF,\$R | -SAVE THE CHANNEL ADDRESS | 17000708 |
| 44* | 004310.40 * | C00000.00 | 82 | 022027.20 | D0 | | ST,TCHADD(TIXH),46 | | 17000709 |
| 45* | 004311.40 | C00000.45 | 05 | | | | V+I,TIXH,0.32 | -ADD A HALF WORD TO VF | 17000710 |
| 46* | 004312.00 | C00001.05 | C0 | | | | C+I,TIXH,1.0 | | 17000711 |
| 47* | 004312.40 | C03273.00 | 80 | 022000.23 | 10 | | KF,TLUCT | -KEEP ONLY THE LARGEST COUNT | 17000712 |
| 48* | 004313.40 | C04246.37 | 40 | | | | BZAH,TB9 | -IF TLUCT IS LARGER | 17000713 |
| 49* | 004314.00 | 003273.00 | 80 | 022000.20 | D0 | | ST,TLUCT | -SAVE THE LARGER | 17000714 |
| 50* | 004315.00 | C04246.10 | 00 | | | | B,TB9 | | 17000715 |
| 51* | | | | | | | | 17000716 | |
| 52* | | | | | | | ADD TO THE UNIT COUNT IN THE MULTI UNIT TABLE | 17000717 | |
| 53* | | | | | | | | 17000718 | |
| 54* | 004315.40 | C00000.64 | 8A | 004306.34 | 00 | T C9 | BZB,TECLIP(TIXF),TA9G | -NOT A TAPE UNIT | 17000719 |
| 55* | 004316.40 | C00000.24 | 82 | 004000.22 | 80 | | M+1,TCHCNT(TIXH) | -ADD TO THE UNIT COUNT | 17000720 |
| 56* | 004317.40 | 004306.10 | C0 | | | | B,TA9G | | 17000721 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------------|-----------|---|----------|
| 1* | | | | - | | 17000722 |
| 2* | | | | - | | 17000723 |
| 3* | | | | - | | 17000724 |
| 4* | | | | - | MACHINE CONFIGURATION CHANGE, THE RESERVED BIT IS ON AND THE CHAN AND/OR UNIT IS DOWN | 17000725 |
| 5* | | | | - | | 17000726 |
| 6* | 004320.00 | C00000.76 | 8A 001000.00 | FO T A10 | CM0000,TUNRES(TIXF) -RESET THE UNIT RESERVED BIT | 17000727 |
| 7* | 004321.00 | C00000.77 | 8A 001000.00 | FO | CM0000,TOVRES(TIXF) -RESET THE NOT OVER LAP RES BIT | 17000728 |
| 8* | 004322.00 | C04324.50 | C0 | | B,TA1CA | 17000729 |
| 9* | | | | - | | 17000730 |
| 10* | 004322.40 | C00000.76 | 88 001000.00 | FO T C10 | CM0000,TUNRES(TIXG) -RESET THE UNIT RESERVED BIT | 17000731 |
| 11* | 004323.40 | C00000.77 | 88 001000.00 | FO | CM0000,TOVRES(TIXG) -RESET THE NOT OVERLAP RES BIT | 17000732 |
| 12* | | | | - | | 17000733 |
| 13* | 004324.40 * | C03315.16 | 10 | T A10A | LX,TIXD,TPPRUN -SET FOR LOCATING NEXT JOB TO BE RUN | 17000734 |
| 14* | 004325.00 | C03273.32 | 80 001000.00 | FO | CM0000,TLCOP -RESET THE LOOP INDICATOR | 17000735 |
| 15* | 004326.00 | C00000.47 | 87 000000.34 | 03 T B10A | BB,TLPPEN(TIXD),0.0(TX1BR) -IF LAST ENTRY IN PP REF TBL | 17000736 |
| 16* | 004327.00 | C00000.44 | 87 004343.34 | C2 | BB,TJBPRG(TIXD),TB1C -IF THE JOB WAS PROCESSED | 17000737 |
| 17* | 004330.00 | C00000.34 | 87 010027.20 | 50 | L,TUNCI(TIXD),46 -GET THE UNIT COUNT | 17000738 |
| 18* | 004331.00 | C04343.34 | C2 | | BRZ,TB1C -IF A NON I/O TYPE JOB | 17000739 |
| 19* | 004331.40 | C00000.12 | 57 | | LC,TIXI,TCRREF(TIXD) -GET 18 BIT I/O REQ TBL ADD | 17000740 |
| 20* | 004332.00 | C00025.13 | 50 | | SC,TIXI,TIXI -SAVE ONLY 18 BITS | 17000741 |
| 21* | 004332.40 | C00011.12 | 50 | | LC,TIXI,\$R -UNIT COUNT TO CF | 17000742 |
| 22* | | | | - | | 17000743 |
| 23* | | | | - | | 17000744 |
| 24* | | | | - | | 17000745 |
| 25* | 004333.00 | C00000.22 | 85 004334.74 | 00 T A11 | BZB,TLAST(TIXI),TA11B | 17000746 |
| 26* | 004334.00 | C03373.13 | 01 | | LVI,TIXI,TIOREQ | 17000747 |
| 27* | 004334.40 | C00000.56 | 85 022027.20 | 50 T A11B | L,TABSCH(TIXI),46 -GET ABSCLUTE CHANNEL ADDRESS | 17000748 |
| 28* | 004335.40 | C00011.24 | 90 | | KV,TIXF,\$R -COMPARE CHANNEL ADDRESSES | 17000749 |
| 29* | 004336.00 | C04342.72 | C0 | | BZXE,TB10B -IF UNLIKE | 17000750 |
| 30* | 004336.40 | C00000.03 | 85 004345.74 | 00 | BZB,TTYPE(TIXI),TA11A -IF THE TYPE IS NOT TAPE | 17000751 |
| 31* | 004337.40 * | C00000.73 | 8A 004027.20 | 50 | L,TUNITK(TIXF),46 | 17000752 |
| 32* | 004340.40 | C00000.07 | 85 003027.30 | 10 | -,TABSUN(TIXI),46 -COMPUTE THE RELATIVE UNIT NUMBER | 17000753 |
| 33* | 004341.40 | C00011.21 | 90 | | KC,TIXG,\$R -COMPARE UNIT LOCATIONS | 17000754 |
| 34* | 004342.00 | C04345.72 | C2 | | BXE,TA11A -IF LIKE | 17000755 |
| 35* | 004342.40 | C04333.13 | 48 | T B10B | CB+,TIXI,TA11 | 17000756 |
| 36* | 004343.00 | C00002.17 | C7 | T B10 | V+ICR,TIXD,2.C | 17000757 |
| 37* | 004343.40 | C04326.30 | 40 | | BZXCZ,TB1CA -IF THE COUNT IS OK | 17000758 |
| 38* | 004344.00 | C03273.32 | 80 004326.34 | 0C | BZB1,TLCOP,TB10A -SET THE LOOP PREVENTER | 17000759 |
| 39* | 004345.00 | C04345.04 | C0 | | BD,\$ -MCP OR MACHINE ERROR | 17000760 |
| 40* | | | | - | | 17000761 |
| 41* | 004345.40 | C00000.46 | 87 001000.00 | FO T A11A | CM0000,TASGNP(TIXD) -RESET THE ASSIGNED BIT --- PP REF TBL | 17000762 |
| 42* | 004346.40 | C00000.00 | 85 001000.00 | FO | CM0000,TASGNI(TIXI) -RESET THE ASSIGNED BIT --I/O REQ TBL | 17000763 |
| 43* | 004347.40 | C00000.56 | 85 022000.00 | FO | CM0000,TABSCH(TIXI) -ZERO THE CHANNEL ADDRESS | 17000764 |
| 44* | 004350.40 | C00000.07 | 85 003000.00 | FO | CM0000,TABSUN(TIXI) -ZERO THE REL UNIT ADDRESS | 17000765 |
| 45* | 004351.40 | C00000.02 | 85 001000.00 | FO | CM0000,TPRINT(TIXI) -RESET THE PRINT TO OPERATOR BIT | 17000766 |
| 46* | 004352.40 | C00000.01 | 85 001000.36 | FO | CM1111,TUNOBT(TIXI) -RESET TO ONE THE NOT OVERLAP BIT | 17000767 |
| 47* | 004353.40 * | C03273.32 | 80 004342.74 | C2 | BB,TLCCP,TB10B -IF IX WAS REFILLED -- BRANCH | 17000768 |
| 48* | 004354.40 | C03651.16 | 90 | | KV,TIXD,TVALVF -SHALL WE RESET THE VALID CHK PTR | 17000769 |
| 49* | 004355.00 | C04356.32 | 40 | | BZXL,TB11C -NO | 17000770 |
| 50* | 004355.40 | C03651.17 | 30 | | SV,TIXD,TVALVF -YES -- | 17000771 |
| 51* | 004356.00 | C03272.16 | 30 | T B11C | LV,TIXD,TSAV -RESET TO LAST UNASSIGNED LOCATION | 17000772 |
| 52* | 004356.40 | C04342.72 | 40 | | BZXL,TB10B -DO NOT PLACE IXH IN TSAV IF IX GREATR | 17000773 |
| 53* | 004357.00 | C03272.17 | 10 | | SX,TIXD,TSAV -DO PLACE IX IN TSAV IF LESS | 17000774 |
| 54* | 004357.40 | C04342.50 | C0 | | B,TB10B -LOOK FOR MORE | 17000775 |
| 55* | 004360.00 | C04451.25 | C1 | TAREJX | LVI,TX1,TMESY -SET REASON FOR REJECTION | 17000776 |
| 56* | 004360.40 | C00000.25 | 33 | | SV,TX1,C.0(TIXE) -IN THE PP REF TABLE WORD | 17000777 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 004361 |
|------|-------------|---------------------------|---------|------------------------------|--|----------|
| 1* | 004361.00 | 000024.02 00 | T AREJ | R,TIXA | -RELOAD IX | 17000778 |
| 2* | 004361.40 | 000000.45 83 001000.36 FO | | CM1111,TRJECT(TIXE) | -SET THE REJECT BIT | 17000779 |
| 3* | 004362.40 | 000000.56 84 022027.20 50 | T AREJ1 | L,TABSCH(TIXA),46 | -GET THE CHANNEL ASSIGNED | 17000780 |
| 4* | 004363.40 | 000011.24 30 | | LV, TX1, \$R | | 17000781 |
| 5* | 004364.00 | 004373.74 C2 | | BRZ, TAREJN | | 17000782 |
| 6* | 004364.40 | 000000.33 8A 004406.74 00 | | BZB, TMULTI(TX1), TAREJ3 | -IF NOT A MULTI CASE | 17000783 |
| 7* | 004365.40 | 002152.00 80 022027.30 10 | | -(BU, 18), TCHSXW, 46 | -COMPUTE THE CHANNEL NUMBER | 17000784 |
| 8* | 004366.40 * | 004771.14 80 007027.20 C0 | | ST(BU, 7), TCAT+.12, 46 | | 17000785 |
| 9* | 004367.40 | 000000.00 8A 022027.20 50 | | L, TUNTBA(TX1), 46 | -GET UNIT TABLE ADDRESS | 17000786 |
| 10* | 004370.40 | 000011.24 30 | | LV, TX1, \$R | | 17000787 |
| 11* | 004371.00 | 000000.07 84 003027.20 50 | | L, TABSUN(TIXA), 46 | -GET UNIT NUMBER | 17000788 |
| 12* | 004372.00 | 004771.57 80 003027.20 C0 | | ST(BU, 3), TCAT+.47, 46 | -ALSO STORE THE UNIT NUMBER | 17000789 |
| 13* | 004373.00 | 000011.24 80 | | V+, TX1, \$R | -ADD TO VALUE | 17000790 |
| 14* | 004373.40 | 000000.34 84 022027.20 50 | T AREJN | L, TFREEL(TIXA), 46 | -GET ADDRESS OF REEL | 17000791 |
| 15* | 004374.40 | 004406.74 C2 | | BRZ, TAREJ3 | -IF NO REEL | 17000792 |
| 16* | 004375.00 | 000011.04 30 | | LV, TX3, \$R | | 17000793 |
| 17* | 004375.40 | 000000.22 C2 | | Z, 0.0(TX3) | -ZERO THE REEL SLOT | 17000794 |
| 18* | 004376.00 | 000000.00 84 004406.74 00 | | BZB, TASGNI(TIXA), TAREJ3 | -IF REQ WAS NOT ASSIGNED AS UNIT | 17000795 |
| 19* | 004377.00 | 004771.25 C2 | | LCI, TX1, TCAT | -SET UP THE UNIT AREA TABLE ADDRESS | 17000796 |
| 20* | 004377.40 | 000000.25 5A | | SC, TX1, C.0(TX1) | -IN THE UNIT STATUS TABLE | 17000797 |
| 21* | 004400.00 | 000000.35 8A 001000.00 FO | | CM0000, TUNASG(TX1) | -RESET THE ASSIGNED BIT | 17000798 |
| 22* | 004401.00 | 000000.40 8A 001000.36 FO | | CM1111, TCHOWN(TX1) | -SET UNIT OWNER TO MCP | 17000799 |
| 23* | 004402.00 * | 000000.65 8A 001000.00 FO | | CM0000, SIMNT(TX1) | -TO RESET THE | 17000800 |
| 24* | 004403.00 | 000000.63 8A 001000.00 FO | | CM0000, SMCUNT(TX1) | -MCUNT BITS | 17000801 |
| 25* | 004404.00 | 001472.10 00 | T IPL4 | B, DMCP | -GO TO FREE THE TAPE | 17000802 |
| 26* | 004404.40 | 000000.00 80 | | , DFREE | | 17000803 |
| 27* | 004405.00 | 000003.00 80 | | , 3. | | 17000804 |
| 28* | 004405.40 | 000000.40 8A 001000.00 FO | | CM0000, TCHOWN(TX1) | -RESET UNIT TO PP OWNER | 17000805 |
| 29* | 004406.40 | 000000.22 04 | T AREJ3 | Z, 0.0(TIXA) | -ZERO THE I/O REQ SLOT | 17000806 |
| 30* | 004407.00 | 000000.25 C5 | | V+I, TX1, C.0 | -FOR INDEX CHECK | 17000807 |
| 31* | 004407.40 | 004412.31 42 | | BXVZ, TAREJ4 | -IF REQ WAS NOT ASSIGNED | 17000808 |
| 32* | 004410.00 | 000000.76 8A 004412.34 06 | | BBZ, TUNRES(TX1), TAREJ4 | -RESET THE NOT OV RES FIRST | 17000809 |
| 33* | 004411.00 | 000000.77 8A 001000.00 FO | | CM0000, TOVRES(TX1) | | 17000810 |
| 34* | 004412.00 | 000001.22 84 004413.74 C0 | T AREJ4 | BZB, TLAST+1.0(TIXA), TAREJ5 | | 17000811 |
| 35* | 004413.00 | 003372.51 C1 | | LVI, TIXA, TICREQ-1 | -RELOAD IS END OF TAB | 17000812 |
| 36* | 004413.40 | 004362.51 48 | T AREJ5 | CB+, TIXA, TAREJ1 | | 17000813 |
| 37* | 004414.00 | 004455.03 80 004622.34 06 | | BBZ, YSCRBT, TP1BA | | 17000814 |
| 38* | 004415.00 | 000000.24 1F | | LX, TCTWDX, 0.0(\$15) | -CHECK THE MODE | 17000815 |
| 39* | 004415.40 | 004203.63 40 | | BZXF, TB8Z | | 17000816 |
| 40* | 004416.00 * | 004421.50 00 | | B, TL | -IF NOT OVERLAP | 17000817 |
| 41* | | | | | | 17000818 |
| 42* | | | | | | 17000819 |
| 43* | | | | | | 17000820 |
| 44* | 004416.40 | 004461.10 00 | T D | B, TSCRIB | -NOT OVERLAP FULLY ASSIGNED | 17000821 |
| 45* | 004417.00 | 004461.10 00 | T F | B, TSCRIB | -OK -- ALL I/O REQ HAVE BEEN PROCESSED | 17000822 |
| 46* | 004417.40 | 004461.10 C0 | T G | B, TSCRIB | -OK -- NO MORE UNITS AVAIL FOR ASSIGN | 17000823 |
| 47* | 004420.00 | 004420.04 00 | T H | BD, \$ | -ASSIGN BIT ON - SING UNIT CHAN | 17000824 |
| 48* | 004420.40 | 004420.44 00 | T I | BD, \$ | -ASSIGN BIT ON - MULTI UNIT CHAN | 17000825 |
| 49* | 004421.00 | 004461.10 00 | T K | B, TSCRIB | -OK -- NOT OVERLAP JOB FULLY ASSIGNED | 17000826 |
| 50* | 004421.40 | 004604.10 00 | T L | B, TPICA | -NOT OVERLAP JOB NOT ASSIGNED | 17000827 |
| 51* | 004422.00 | 004422.04 00 | T M | BD, \$ | -MACH CONF CH. ASSIGN BIT ON - SING | 17000828 |
| 52* | 004422.40 | 004422.44 00 | T N | BD, \$ | -MACH CONF CH. ASSIGN BIT ON - MULTI | 17000829 |
| 53* | 004423.00 | 004423.04 00 | T P | BD, \$ | -ERROR MCP IS OUT OF PHASE | 17000830 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|---|----------|
| 1* | | | - | | 17000832 |
| 2* | | | - | | 17000833 |
| 3* | | | - | A PRINT SUB - ROUTINE THAT WILL PRINT ASSIGNMENTS | 17000834 |
| 4* | | | - | | 17000835 |
| 5* | | | - | | 17000836 |
| 6* | | | - | | 17000837 |
| 7* | | | - | | 17000838 |
| 8* | 004423.40 | 000000.30 00 | | CNOP | 17000839 |
| 9* | 004424.00 | | T BUF01 | (IQSX)DD(BU,64,8), --- SET UP THE FOLLOWING UNITS --- X | 17000840 |
| 10* | 004431.00 * | | T MBLK | (IQSX)DD(BU,64,8), X-BLANK MASK | 17000841 |
| 11* | 004432.00 | 0000174733321303310621 | T BUFBI | DD(BU),(16)000F9DR68BCD9191 -BYPASS IN RED | 17000842 |
| 12* | 004433.00 | | | (IQSX)DD(BU), MOUNT - REEL NUMBER X | 17000843 |
| 13* | 004435.50 | | T REELX | (IQSX)DD(BU,64,8), X | 17000844 |
| 14* | 004436.50 | | | (IQSX)DD(BU,64,8), ON CHANNEL X | 17000845 |
| 15* | 004440.10 | | T CHANX | (IQSX)DD(BU,24,8), X | 17000846 |
| 16* | 004440.40 | | | (IQSX)DD(BU,36,8), UNIT X | 17000847 |
| 17* | 004441.20 | | T UNITX | (IQSX)DD(BU), X | 17000848 |
| 18* | 004442.00 | 0000270730142500105617 | | DD(BU),(16)00171D8315C08B8F | 17000849 |
| 19* | 004443.00 | 1046230521062300000000 | | DD(BU),(16)8993151193C00000 | 17000850 |
| 20* | 004444.00 | | T SCRAT | (IQSX)DD(BU,64,8), SCRATCH X | 17000851 |
| 21* | 004445.00 * | | T SUBHD | (IQSX)DD(BU,8,8), -- PROBLEM PROGRAM --- X | 17000852 |
| 22* | 004450.00 | | T PID | (IQSX)DD(BU,64,8), X | 17000853 |
| 23* | | | | CNOP | 17000854 |
| 24* | 004451.00 | | T MESSY | (A*)DD(BU), I/O REQ. INCOMP WITH MACH CNF.* | 17000855 |
| 25* | | | - | | 17000856 |
| 26* | 000022.00+ | +00000000 | BU,100,10 | T XA SYN,\$2 | 17000857 |
| 27* | 000023.00+ | +00000000 | BU,100,10 | T XB SYN,\$3 | 17000858 |
| 28* | 000024.00+ | +00000000 | BU,100,10 | T XC SYN,\$4 | 17000859 |
| 29* | 000025.00+ | +00000000 | BU,100,10 | T IXZ SYN,\$5 | 17000860 |
| 30* | 000026.00+ | +00000000 | BU,100,10 | T IXY SYN,\$6 | 17000861 |
| 31* | 004455.00 | | 0 T HEAD | DD(BU,1),0 | 17000862 |
| 32* | 004455.01 | | 0 T SBHDI | DD(BU,1),0 | 17000863 |
| 33* | 004455.02 | | 0 T NGATE | DD(BU,1),0 | 17000864 |
| 34* | 004455.03 | | 0 YSCRBT | DD(BU,1),(2)0 | 17000865 |
| 35* | 004456.00 | 000000.00+ 000 000000 000000 | T P5IN | XW | 17000866 |
| 36* | 004457.00 | 000000.00+ 000 000000 000000 | T P5OUT | XW | 17000867 |
| 37* | 004460.00 * | 000000.00+ 000 000000 000000 | T PSAV | XW | 17000868 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|---------|---|----------|
| 1* | | | - | | 17000870 |
| 2* | | | - | | 17000871 |
| 3* | | | - | SCAN THE PP REF TABLE FOR NEW ASSIGNMENTS | 17000872 |
| 4* | | | - | | 17000873 |
| 5* | | | - | | 17000874 |
| 6* | 004461.CC | 003315.04 10 | T SCRIB | LX, TXA, TPPERUN | 17000875 |
| 7* | 004461.40 | 000000.47 82 004600.34 02 | T P6 | BB, TLPPEN(TXA), TP1 | 17000876 |
| 8* | 004462.40 | 000000.44 82 004576.34 02 | | BB, TJBPRO(TXA), TP2 | 17000877 |
| 9* | 004463.4C | 000000.45 82 004576.34 02 | | BB, TRJECT(TXA), TP2 | 17000878 |
| 10* | | | - | | 17000879 |
| 11* | 004464.40 | 000000.06 32 | | LV, TXB, TCRREF(TXA) -GET CROSS REF ADDRESS | 17000880 |
| 12* | 004465.CC | 000000.34 82 010027.20 50 | | L, TUNCT(TXA), 46 | 17000881 |
| 13* | 004466.CC | 000011.06 50 | | LC, TXB, \$R | 17000882 |
| 14* | 004466.40 | 004576.30 42 | | BXCZ, TP2 | 17000883 |
| 15* | 004467.CC | 000001.00 82 060600.06 70 | | LF, TPNAME(TXA) -GET PP NAME | 17000884 |
| 16* | 004470.CC | 004456.00 80 000000.12 F0 | | SF(RU, 64, 8), TP5IN -SAVE FCR CONVERSION | 17000885 |
| 17* | 004471.CC | 004460.37 10 | | SX, \$15, TPSAV | 17000886 |
| 18* | 004471.40 | 004472.77 01 | | LVI, \$15, TP6A -SET UP FOR CONV ROUTINE | 17000887 |
| 19* | 004472.00 | 002366.04 00 | | BD, SA8IQS | 17000888 |
| 20* | 004472.40 | 004456.00+ | T P6A | VF, TP5IN -FWA IN | 17000889 |
| 21* | 004473.CC | 000010 | | CF, 8 - N | 17000890 |
| 22* | 004473.40 | 004457.00+ | | VF, TP5OUT -FWA OUT | 17000891 |
| 23* | 004474.CC * | 004474.40 00 | T IPLB1 | BL, \$+.32 -MODIFIED BY IPL | 17000892 |
| 24* | 004474.40 | 004457.00 80 000000.06 70 | | LF(RU, 64, 8), TP5OUT -GET THE CONVERTED WORD | 17000893 |
| 25* | 004475.40 | 004460.36 10 | | LX, \$15, TPSAV -RESTORE INDEX | 17000894 |
| 26* | 004476.CC | 004450.00 80 000000.12 F0 | | SF, TPIC | 17000895 |
| 27* | | | - | | 17000896 |
| 28* | 004477.CC | 000000.22 83 004500.74 00 | T P5 | BZB, TLAST(TXB), TP5Z | 17000897 |
| 29* | 004500.CC | 003373.07 01 | | LVI, TXB, TIORCQ | 17000898 |
| 30* | 004500.40 | 000000.00 83 004575.74 00 | T P5Z | BZB, TASGNI(TXB), TP3 | 17000899 |
| 31* | 004501.40 | 000000.03 83 004575.74 00 | | BZB, TTYPE(TXB), TP3 | 17000900 |
| 32* | | | - | | 17000901 |
| 33* | 004502.40 | 000000.56 83 022027.20 50 | | L, TABSCH(TXB), 46 -GET THE CHANNEL STATUS WORD | 17000902 |
| 34* | 004503.40 | 000011.10 30 | | LV, TXC, \$R | 17000903 |
| 35* | 004504.CC | 000000.10 34 | | LV, TXC, C.C(TXC) -GET ADDRESS OF UNIT TABLE | 17000904 |
| 36* | 004504.40 | 000000.07 83 003027.20 50 | | L, TABSUN(TXB), 46 -GET THE UNIT NUMBER | 17000905 |
| 37* | 004505.40 | 000011.10 80 | | V+, TXC, \$R -ADD TO VF TO GET UNIT STATUS WORD | 17000906 |
| 38* | 004506.00 | 000000.02 83 004511.34 00 | | BZB1, TPRINT(TXB), TP5A | 17000907 |
| 39* | | | - | | 17000908 |
| 40* | 004507.CC * | 000000.76 84 004575.74 00 | | BZB, TUNRES(TXC), TP3 -IF OVERLAP RESERVED -- ONLY -- | 17000909 |
| 41* | 004510.CC | 000000.02 83 004575.74 06 | | BBZ, TPRINT(TXB), TP3 -RESET THE PRINT BIT AND GO | 17000910 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------|--------|---------|---|----------|
| 1* | | | | | | 17000912 |
| 2* | | | | | CONVERT THE CHANNEL FIELDS | 17000913 |
| 3* | | | | | | 17000914 |
| 4* | | | | | | 17000915 |
| 5* | 004511.00 | 000000.24 | 1F | TP5A | LX,TCTWDX,0.0(\$15) -CHECK THE MODE | 17000916 |
| 6* | 004511.40 | 004513.23 | 40 | | BZXF,TP5A1 | 17000917 |
| 7* | 004512.00 | 003370.05 | 04 | | KVI,TXA,TPURFT -PRINT ONLY THE MESSAGES OF THAT MODE | 17000918 |
| 8* | 004512.40 | 004575.72 | 00 | | BZXE,TP3 | 17000919 |
| 9* | 004513.00 | 000000.56 | 83 | T P5A1 | \$L,TABSCH(TXB),-60 -LOAD FOR ABS CHANNEL CONVERSION | 17000920 |
| 10* | 004514.00 | 002152.00 | 80 | | \$-(BU,18),TCHSXW,-60 | 17000921 |
| 11* | 004515.00 | 003266.01 | 80 | | \$SF(BU,18),TIPL+1,-60 -TO SAVE THE CHAN FOR IPL PRINT | 17000922 |
| 12* | 004516.00 | 000000.00 | 80 | | \$CV(BU,18),C.C,-32 | 17000923 |
| 13* | 004517.00 | 000010.24 | 80 | | LF(BU,12,4),\$L+.20,1 -CONVERT TO 8 BIT BYTE | 17000924 |
| 14* | 004520.00 | 600000.00 | 80 | | LFI(BU,2),3,5 -GET THE IQS LEAD BITS | 17000925 |
| 15* | 004521.00 | 600000.00 | 80 | | LFI(BU,2),3,13 -GET THE IQS LEAD BITS | 17000926 |
| 16* | 004522.00 | 004440.10 | 80 | | CM0101,TCHANX | 17000927 |
| 17* | | | | | | 17000928 |
| 18* | 004523.00 * | 000000.07 | 83 | | CO011,TABSUN(TXB),1 -GET UNIT NUMBER | 17000929 |
| 19* | 004524.00 | 600000.00 | 80 | | LFI(BU,2),3,5 -GET THE IQS LEAD BITS | 17000930 |
| 20* | 004525.00 | 004441.20 | 80 | | CM0101(BU,8,8),TLNITX | 17000931 |
| 21* | | | | | | 17000932 |
| 22* | | | | | | 17000933 |
| 23* | 004526.00 | 000000.50 | 84 | | CM1111,TVER(TXC) -SET THE VERIFY BIT | 17000934 |
| 24* | 004527.00 | 000000.34 | 83 | | LF,TFREEL(TXB),46 -GET THE FIRST REEL ADDRESS | 17000935 |
| 25* | 004530.00 | 004551.34 | C2 | | BRZ,TPSCR -SCRATCH TAPE REQUEST | 17000936 |
| 26* | 004530.40 | 000011.12 | 30 | | LV,TIXZ,\$R | 17000937 |
| 27* | | | | | | 17000938 |
| 28* | 004531.00 | 000000.00 | 85 | | CO011(BU,48,6),TREELN(TIXZ) | 17000939 |
| 29* | 004532.00 | 004630.74 | 80 | | KF,TLRL,48 -LOOK FOR A NON-LABELED TAPE | 17000940 |
| 30* | 004533.00 | 004534.76 | C2 | | BAE,TP5A2 -IF A LABELED TAPE | 17000941 |
| 31* | 004533.40 | 000000.50 | 84 | | CM0000,TVER(TXC) -RESET THE VERIFY BIT | 17000942 |
| 32* | | | | | | 17000943 |
| 33* | 004534.40 | 004460.37 | 10 | T P5A2 | SX,\$15,TPSAV | 17000944 |
| 34* | 004535.00 | 004456.00 | 80 | | SF(BU,64,8),TP5IN -SAVE FOR CONVERSION | 17000945 |
| 35* | 004536.00 | 004537.37 | 01 | | LVI,\$15,TP5A3 -SET UP TO GO TO IQS CONV RTNE | 17000946 |
| 36* | 004536.40 * | 002366.04 | 00 | | BD,SABIGS | 17000947 |
| 37* | 004537.00 | 004456.00+ | | T P5A3 | VF,TP5IN -FWA IN | 17000948 |
| 38* | 004537.40 | 000010 | | | CF,8 -N | 17000949 |
| 39* | 004540.00 | 004457.00+ | | | VF,TP5OUT -FWA OUT | 17000950 |
| 40* | 004540.40 | 004541.00 | 00 | T IPLB2 | BE,\$+.32 -MODIFIED BY IPL | 17000951 |
| 41* | 004541.00 | 004457.00 | 80 | | LF(BU,64,8),TP5OUT -GET THE CONVERTED WORD | 17000952 |
| 42* | 004542.00 | 004435.50 | 80 | | SF(BU,40,8),TREELX -SET UP IQS REEL NUMBER | 17000953 |
| 43* | 004543.00 | 004460.36 | 10 | | LX,\$15,TPSAV -RESTORE | 17000954 |
| 44* | | | | | | 17000955 |
| 45* | 004543.40 | 004431.00 | 80 | | CO011,TMBLK,64 -GET ACC FULL OF BLANKS | 17000956 |
| 46* | 004544.40 | 004436.20 | 80 | | CM0101(BU,24,8),TREELX+.40,64 | 17000957 |
| 47* | 004545.40 | 000000.33 | 84 | | CM0000,TFDISP(TXC) -SET TO TAPE MOUNTED | 17000958 |
| 48* | 004546.40 | 000000.32 | 84 | | CM1111,STATI(TXC) -SET TO TAPE MOUNTED- SPECIFIC | 17000959 |
| 49* | 004547.40 | 000000.00 | 85 | | LF(BU,48,6),TREELN(TIXZ) -RESET ACC FOR REEL PROTECT TEST | 17000960 |
| 50* | 004550.40 | 004556.50 | 00 | | B,TP4 | 17000961 |
| 51* | | | | | | 17000962 |
| 52* | 004551.00 | 000000.32 | 84 | TPSCR | CTOC11(BU,2),STATI(TXC) | 17000963 |
| 53* | 004552.00 * | 004575.74 | C2 | | BRZ,TP3 | 17000964 |
| 54* | 004552.40 | 004444.00 | 80 | | CO011,TSCRAT -GET THE SCRATCH TAPE WORD | 17000965 |
| 55* | 004553.40 | 004435.50 | 80 | | CM0101,TREELX -BUILD WORD | 17000966 |
| 56* | 004554.40 | 004631.02 | 80 | | CO011(BU,6,6),TNCP,56 -GET NOT FILE PROTECT MASK | 17000967 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 004555 |
|------|-------------|-----------|--------------|------|---------------------------|--------------------------------|----------|
| 1* | 004555.40 | 000000.32 | 84 002000.00 | F0 | CM0000(BU,2),STATI(TXC) | -SET TO TAPE MTD- SCRATCH | 17000968 |
| 2* | | | | | | | 17000969 |
| 3* | 004556.40 | 000000.63 | 84 001000.36 | F0 | TP4 CM1111,SMOUNT(TXC) | -SET MOUNT BIT AND | 17000970 |
| 4* | 004557.40 | 000000.65 | 84 001000.36 | F0 | CM1111,SIMNT(TXC) | -THE INITIAL MOUNT BIT | 17000971 |
| 5* | 004560.40 | 000000.15 | 01 | | LVI,TIXY,0 | -INITIALIZE TO NON PROTECT | 17000972 |
| 6* | 004561.00 | 000001.13 | 01 | | LVI,TIXZ,1.0 | -SET UP FOR OVERLAP | 17000973 |
| 7* | 004561.40 | 003273.23 | 80 004563.74 | 00 | BZB,TMODE,TP7 | -IF OVERLAP MODE | 17000974 |
| 8* | 004562.40 | 000000.13 | 01 | | LVI,TIXZ,0.0 | -SET UP FOR NOT OVERLAP | 17000975 |
| 9* | 004563.00 | 000001.15 | 05 | | V+I,TIXY,1.0 | -GET ALL OF MESSAGE PLUS | 17000976 |
| 10* | | | | | | | 17000977 |
| 11* | | | | | CHECK FOR REEL PROTECTION | | 17000978 |
| 12* | | | | | | | 17000979 |
| 13* | 004563.40 | 004631.02 | 80 006634.23 | 10 | T P7 KF,TNOP,56 | -LOOK FOR NON - PROTECT | 17000980 |
| 14* | 004564.40 | 004565.76 | 02 | | BAE,TWRITE | -IF NOT PROTECTED | 17000981 |
| 15* | 004565.00 | 000002.15 | 05 | | V+I,TIXY,2.0 | | 17000982 |
| 16* | 004565.40 * | 004455.00 | 80 004570.74 | 0E | T WRITE BB1,THEAD,TPENY | -CHECK FOR MAJOR HEADING | 17000983 |
| 17* | 004566.40 | 001472.10 | 00 | | B,DMCP | -WRITE THE MAJOR HEADING | 17000984 |
| 18* | 004567.00 | 000043.40 | 80 | | ,DCCMM | | 17000985 |
| 19* | 004567.40 | 004424.00 | 80 | | ,TBUF01 | | 17000986 |
| 20* | 004570.00 | 000005.00 | 80 | | ,5.0 | | 17000987 |
| 21* | 004570.40 | 004455.01 | 80 004573.74 | 0E | T PENY BB1,TSBHDI,TPEN | | 17000988 |
| 22* | 004571.40 | 001472.10 | 00 | | B,DMCP | -WRITE THE SUB HEADING | 17000989 |
| 23* | 004572.00 | 000043.40 | 80 | | ,DCCMM | | 17000990 |
| 24* | 004572.40 | 004445.00 | 80 | | ,TSUBHD | | 17000991 |
| 25* | 004573.00 | 000004.00 | 80 | | ,4.0 | | 17000992 |
| 26* | 004573.40 | 001472.10 | 00 | | T PEN B,DMCP | -WRITE THE MOUNTING PROCEDURES | 17000993 |
| 27* | 004574.00 | 000043.40 | 80 | | ,DCCMM | | 17000994 |
| 28* | 004574.40 | 004432.00 | 85 | | ,TBUF01(TIXZ) | | 17000995 |
| 29* | 004575.00 | 000007.00 | 86 | | ,7.(TIXY) | | 17000996 |
| 30* | 004575.40 | 004477.07 | 48 | | T P3 CB+,TXB,TP5 | | 17000997 |
| 31* | 004576.00 | 000002.05 | 07 | | T P2 V+ICR,TXA,2.0 | | 17000998 |
| 32* | 004576.40 | 004455.01 | 80 001000.00 | F0 | CM0000(BU,1),TSBHDI | | 17000999 |
| 33* | 004577.40 | 004461.50 | 00 | | B,TP6 | | 17001000 |
| 34* | 004600.00 | 004455.00 | 80 002000.00 | F0 | T P1 CM0000(BU,2),THEAD | -ZERO THE IND | 17001001 |
| 35* | 004601.00 * | 000000.24 | 1F | | LX,TCTWCX,0.0(\$15) | -CHECK THE MODE | 17001002 |
| 36* | 004601.40 | 004604.23 | 40 | | BZXF,TPICA | -IF OVERLAP PROCEED ONWARD | 17001003 |
| 37* | 004602.00 | 004455.02 | 80 004604.34 | 0A | BBN,TNGATE,TPICA | -IF SECOND PASS | 17001004 |
| 38* | 004603.00 | 003313.04 | 10 | | LX,TXA,TPPURF | -SET UP FOR THE NOT OVERLAP | 17001005 |
| 39* | 004603.40 | 004461.50 | 00 | | B,TP6 | -FOR NOT OVERLAP RE-ITERATION | 17001006 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------|--|----------|
| 1* | | | | | 17001008 |
| 2* | | | | LOOK AHEAD -N- JOBS AND DETERMINE THE STATUS | 17001009 |
| 3* | | | | | 17001010 |
| 4* | 004604.00 | 003315.20 10 | T PICA | LX,TIXG,TPPRUN | 17001011 |
| 5* | 004604.40 | CCCC00.24 1F | | LX,TCTWDX,0.0(\$15) | 17001012 |
| 6* | 004605.00 | 004606.23 40 | | BZXF,TPIC | 17001013 |
| 7* | 004605.40 | 003313.20 10 | | LX,TIXG,TPPURF | 17001014 |
| 8* | 004606.00 | 000000.34 8F | T PIC | CM0000(BU,2),0.28(\$15) | 17001015 |
| 9* | 004607.00 | 003264.61 30 | | SV,TIXG,INEXT | 17001016 |
| 10* | 004607.40 | 000000.47 88 | | BZR,TLPPEN(TIXG),TP1B | 17001017 |
| 11* | 004610.40 | 000000.55 8F | | CM1111(BU,1),0.45(\$15) | 17001018 |
| 12* | 004611.40 | 004626.10 C0 | | B,TP1A | 17001019 |
| 13* | 004612.00 | 000000.45 88 | T P1B | CT0011,TRJECT(TIXG) | 17001020 |
| 14* | 004613.00 | 004622.34 C0 | | BZRZ,TP1BA | 17001021 |
| 15* | 004613.40 | 000000.46 88 | | BB,TASGNP(TIXG),TP1A | 17001022 |
| 16* | 004614.40 * | 000000.10 38 | | LV,TIXA,TCRREF(TIXG) | 17001023 |
| 17* | 004615.00 | 000000.34 88 | | L,TUNCT(TIXG),46 | 17001024 |
| 18* | 004616.00 | 000011.10 50 | | LC,TIXA,\$R | 17001025 |
| 19* | 004616.40 | 000000.45 88 | | CM1111,TRJECT(TIXG) | 17001026 |
| 20* | 004617.40 | 004455.03 80 | | CM1111,YSCRBT | 17001027 |
| 21* | 004620.40 | 003271.11 C3 | | LRI,TIXA,TREFIL | 17001028 |
| 22* | 004621.00 | 003271.11 10 | | SX ,TIXA,TREFIL | 17001029 |
| 23* | 004621.40 | 004360.10 00 | | B,TAREJX | 17001030 |
| 24* | 004622.00 | 000000.44 88 | T P1BA | CM1111,TJBPRO(TIXG) | 17001031 |
| 25* | 004623.00 | 000000.34 8F | | CM1111(BU,1),0.28(\$15) | 17001032 |
| 26* | 004624.00 | 000000.24 1F | | LX,TCTWDX,0.0(\$15) | 17001033 |
| 27* | 004624.40 | 004626.23 42 | | BXF,TP1A | 17001034 |
| 28* | 004625.00 | 000002.21 07 | | V+ICR,TIXG,2.0 | 17001035 |
| 29* | 004625.40 | 003315.21 10 | | SX,TIXG,TPPRUN | 17001036 |
| 30* | 004626.00 | 000021.00 80 | T P1A | SWAPI,12,\$1,TASAVE | 17001037 |
| 31* | 004627.00 | 000001.10 0F | | B,1.00(\$15) | 17001038 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 004627 |
|------|-------------|---------------|------|----------------------------------|-----------------|----------|
| 1* | 004627.40 * | | | SLC,\$ | | 18000001 |
| 2* | | | | PRNC | | 18000002 |
| 3* | | | | | | 18000003 |
| 4* | | | | I/O ASSIGNMENT --- MOVE --- | | 18000004 |
| 5* | | | | | | 18000005 |
| 6* | | | | | | 18000006 |
| 7* | | | | | | 18000007 |
| 8* | | | | THE MOVE PROGRAM LINKAGE FORMAT | | 18000008 |
| 9* | | | | | | 18000009 |
| 10* | | | | LVI,\$15,Z | | 18000010 |
| 11* | | | | B,TMOVE | | 18000011 |
| 12* | | | | Z XW,A,B,C,D | | 18000012 |
| 13* | | | | BEW,\$ | RETURN LOCATION | 18000013 |
| 14* | | | | | | 18000014 |
| 15* | | | | LET A = FWA OF THE IOD BREAKDOWN | | 18000015 |
| 16* | | | | + = STANDARD ENTRY | | 18000016 |
| 17* | | | | - = INITIAL ENTRY | | 18000017 |
| 18* | | | | LET B = RETURN DISPOSITION | | 18000018 |
| 19* | | | | LET C = STATUS OF NEXT JOB | | 18000019 |
| 20* | | | | ZERO = ACCEPT NEXT JOB | | 18000020 |
| 21* | | | | ONE = REJECT NEXT JOB | | 18000021 |
| 22* | | | | LET D = MODE | | 18000022 |
| 23* | | | | ZERO = OVERLAP MODE | | 18000023 |
| 24* | | | | NOT ZERO = NOT OVERLAP MODE | | 18000024 |
| 25* | | | | LET BIT .26 = OWNERSHIP | | 18000025 |
| 26* | | | | ZERO = PP OWNER | | 18000026 |
| 27* | | | | NOT ZERO = MCP OWNER | | 18000027 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|----------|---------------|-----------|---|----------|
| 1* | | | | | 18000029 |
| 2* | | | | HOW THE UTILITY TABLES ARE COMPUTED AND PLACED | 18000030 |
| 3* | | | | | 18000031 |
| 4* | | | | | 18000032 |
| 5* | | | WHEREAS,- | B=S | 18000033 |
| 6* | | | | S+R=F | 18000034 |
| 7* | | | | F+(I*7)=U | 18000035 |
| 8* | | | | U+(R*9)=P | 18000036 |
| 9* | | | | P+N=TMARK | 18000037 |
| 10* | | | | | 18000038 |
| 11* | | | LET,- | B = THE -B- LIMIT FROM THE LIM CARD | 18000039 |
| 12* | | | | S = THE FIRST WORD OF THE SYMBOLIC I/O LOC TABLE | 18000040 |
| 13* | | | | R = THE LARGEST REFERENCE NUMBER PER PP | 18000041 |
| 14* | | | | F = THE FIRST LOC OF THE FILE AREA TABLE | 18000042 |
| 15* | | | | I = THE NUMBER OF IOD CARDS SUBMITTED BY PP | 18000043 |
| 16* | | | | U = THE FIRST LOC OF THE UNIT AREA TABLE | 18000044 |
| 17* | | | | R = THE NUMBER OF DIFFERENT I/O UNITS REQUESTED BY PP | 18000045 |
| 18* | | | | P = THE FIRST ADDRESS OF THE REEL POOL TABLE | 18000046 |
| 19* | | | | N = THE NUMBER OF INDIVIDUAL REEL REQUEST | 18000047 |
| 20* | | | | TMARK = THE NEXT SLOT AVAILABLE FOR USE | 18000048 |
| 21* | | | | | 18000049 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-----------|--|----------|
| 1* | | | | PRNS | 18000051 |
| 2* | | | | - | 18000052 |
| 3* | | | | - | 18000053 |
| 4* | | | | ----- EXTRA CONSTANTS FOR THE PROGRAM - MOVE - ----- | 18000054 |
| 5* | | | | - | 18000055 |
| 6* | | | | - | 18000056 |
| 7* | 004627.40 | 000000.30 00 | | CNOP | 18000057 |
| 8* | 004630.00 | | 7777 | T MMAX DD(BU,12),4095 | 18000058 |
| 9* | 004630.14 | | | T MIOD (AX)DD(BU,24,6),IOD X | 18000059 |
| 10* | 004630.44 | | | T MREEL (AX)DD(BU,24,6),REELX | 18000060 |
| 11* | 004630.74 | | | T LBL (AX)DD(BU,6,6),LX | 18000061 |
| 12* | 004631.02 | | | T NCP (AX)DD(BU,6,6),NX | 18000062 |
| 13* | 004631.10 | | | T M6BL (AX)DD(BU,48,6), X | 18000063 |
| 14* | 004632.00 | 000000.00+ | | T ERFLG VF,C | 18000064 |
| 15* | 002155.00+ | +00000000 | B ,31 ,01 | T LIMB SYN,SBAPP | 18000065 |
| 16* | 002157.40+ | +00000000 | B ,31 ,01 | T SYRFT SYN,SSYRFT | 18000066 |
| 17* | 002153.00+ | +00000000 | B ,31 ,01 | T BAMCP SYN,SMAXUB | 18000067 |
| 18* | 002155.40+ | +00000000 | B ,31 ,01 | T MAXRF SYN,SMAXRN | 18000068 |
| 19* | 002162.40+ | +00000000 | B ,31 ,01 | T MARK SYN,SMARK | 18000069 |
| 20* | | | | - | 18000070 |
| 21* | 000021.00+ | +00000000 | BU,100,10 | T MX1 SYN,\$1 | 18000071 |
| 22* | 000022.00+ | +00000000 | BU,100,10 | T MXA SYN,\$2 | 18000072 |
| 23* | 000023.00+ | +00000000 | BU,100,10 | T MXB SYN,\$3 | 18000073 |
| 24* | 000024.00+ | +00000000 | BU,100,10 | T MXC SYN,\$4 | 18000074 |
| 25* | 000025.00+ | +00000000 | BU,100,10 | T MXD SYN,\$5 | 18000075 |
| 26* | 000026.00+ | +00000000 | BU,100,10 | T MXE SYN,\$6 | 18000076 |
| 27* | 000027.00+ | +00000000 | BU,100,10 | T MXF SYN,\$7 | 18000077 |
| 28* | 000030.00+ | +00000000 | BU,100,10 | T MXG SYN,\$8 | 18000078 |
| 29* | 000031.00+ | +00000000 | BU,100,10 | T MXEE SYN,\$9 | 18000079 |
| 30* | 000032.00+ | +00000000 | BU,100,10 | T MXI SYN,\$10 | 18000080 |
| 31* | 000033.00+ | +00000000 | BU,100,10 | T MXGA SYN,\$11 | 18000081 |
| 32* | 000021.00+ | +00000000 | BU,100,10 | T MXH SYN,TMX1 | 18000082 |
| 33* | 000034.00+ | +00000000 | BU,100,10 | T MLXA SYN,\$12 | 18000083 |
| 34* | | | | - | 18000084 |
| 35* | | | | ----- SAVE AND RESTORE ARLA FOR INDEXES ----- | 18000085 |
| 36* | | | | - | 18000086 |
| 37* | | | | - | 18000087 |
| 38* | | | | - | 18000088 |
| 39* | 004632.40 | 000000.30 00 | | CNOP | 18000089 |
| 40* | 004633.00 * | 000017.00 | | T SIOXW DRZ(BU,64),(15) | 18000090 |
| 41* | | | | - | 18000091 |
| 42* | 004652.00 | 000000.00+ | | T DksAV VF,C | 18000092 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|--|--|
| 1* | | | | | 18000094 |
| 2* | | | | THE UNIT NAME TABLE | 18000095 |
| 3* | | | | | 18000096 |
| 4* | 004653.CC | 004654.00+ CCO 000000 CCCC20 | T UNXW | XW,TUNATB,0,\$0 | -RESET INDEX 18000097 |
| 5* | 004654.CC * | CCCC62.CC | T UNATB | DRZ(BU,64),(50) | -THE CHAN/UNIT NAME TABLE 18000098 |
| 6* | 000000.00+ | +CCCC0000 | BU,60 ,10 | T CHNM | SYN(BU,48),0.0 -SYMBOLIC CHAN NAME 18000099 |
| 7* | 000000.74+ | +00000000 | BU,04 ,10 | T UNTP | SYN(BU,4),0.60 -THE EQUIP TYPE REQUESTED 18000100 |
| 8* | 000000.60+ | +00000000 | BU,14 ,10 | T UNREF | SYN(BU,12),0.48 -REF NO IN THE UNIT NAME TABLE 18000101 |
| 9* | 000031.00+ | +00000000 | BU,60 ,10 | T UNME | SYN(BU,48),25.0 -2ND TABLE -- UNIT NAME 18000102 |
| 10* | 000031.60+ | +00000000 | BU,14 ,10 | T DSKRF | SYN(BU,12),25.48 -REF NUMBER OF NULL DISK OR TRACK 18000103 |
| 11* | 000031.74+ | +00000000 | BU,01 ,10 | T DTRK | SYN(BU,1),25.60 -ONE IF TRACK - ZERO IF DISK 18000104 |
| 12* | 000031.75+ | +00000000 | BU,03 ,10 | T DKCT | SYN(BU,3),25.61 -RELATIVE ADDRESS OF ALLOCATION COUNT 18000105 |
| 13* | | | | | 18000106 |
| 14* | | | | THE DISK ALLOCATION TABLE | 18000107 |
| 15* | | | | | 18000108 |
| 16* | 004736.CC | 004737.05+ CCO 000004 004736 | T DCLR | XW,TSBDF,4,\$ | -INDEX WORD FOR CLEARING 18000109 |
| 17* | 004737.CC * | CCCC04.CC | T SBDTB | DRZ(BU,32),(8) | 18000110 |
| 18* | 004737.05+ | +00000000 | BU,14 ,10 | T SBDFT | SYN(BU,12),TSBDF+.C5 -DISK ALLOCATION TABLE 18000111 |
| 19* | | | | | 18000112 |
| 20* | | | | THE FORMAT OF THE IOD CARD BREAKDOWN TABLE | 18000113 |
| 21* | | | | | 18000114 |
| 22* | | | | | 18000115 |
| 23* | 000001.CC- | +00000000 | BU,60 ,06 | T JCNME | SYN(BU,48,6),-1.0 -JOB NAME FORMAT FOR BREAKDOWN TBL 18000116 |
| 24* | 000000.00+ | +00000000 | BU,22 ,10 | T IABEX | SYN(BU,18),0.0 -THE ABSOLUTE EXIT ADDRESS 18000117 |
| 25* | 000000.64+ | +00000000 | BU,14 ,10 | T IREF | SYN(BU,12),0.52 -THE REF NUMBER 18000118 |
| 26* | 000001.00+ | +00000000 | BU,30 ,10 | T IOP | SYN(BU,24),1.0 -OP CODE FIELD 18000119 |
| 27* | 000002.00+ | +00000000 | BU,52 ,10 | T ITY | SYN(BU,42),2.0 - THE TYPE FIELD 18000120 |
| 28* | 000002.00+ | +00000000 | BU,60 ,10 | T IREEL | SYN(BU,48),2.0 -FORMAT AND POSITION OF REEL NAME 18000121 |
| 29* | 000002.73+ | +00000000 | BU,01 ,10 | T ITRK | SYN(BU,1),2.59 -TRACK CODE BIT 18000122 |
| 30* | 000002.74+ | +00000000 | BU,04 ,10 | T ITYCD | SYN(BU,4),2.60 -THE TYPE FIELD CONVERTED 18000123 |
| 31* | 000004.00+ | +00000000 | BU,60 ,10 | T ICH | SYN(BU,48),4.0 -CHANNEL FIELD 18000124 |
| 32* | 000005.00+ | +00000000 | BU,60 ,10 | T IUN | SYN(BU,48),5.0 -THE UNIT FIELD 18000125 |
| 33* | 000005.00+ | +00000000 | BU,60 ,10 | T INO | SYN(BU,48),5.0 -THE NUMBER FOR DISK 18000126 |
| 34* | 000006.00+ | +00000000 | BU,36 ,10 | T IMD | SYN(BU,30),6.0 -THE MODE FIELD 18000127 |
| 35* | 000006.76+ | +00000000 | BU,02 ,10 | T IMCD | SYN(BU,2),6.62 -THE MODE FIELD CONVERTED 18000128 |
| 36* | 000007.00+ | +00000000 | BU,14 ,10 | T IDN | SYN(BU,12),7.0 -THE DENSITY FIELD 18000129 |
| 37* | 000007.76+ | +00000000 | BU,02 ,10 | T IDNCD | SYN(BU,2),7.62 -THE DENSITY FIELD CONVERTED 18000130 |
| 38* | 000010.00+ | +00000000 | BU,36 ,10 | T IDS | SYN(BU,30),8.0 -THE DISP FIELD 18000131 |
| 39* | 000010.76+ | +00000000 | BU,02 ,10 | T IDSCD | SYN(BU,2),8.62 -THE DISP FIELD CONVERTED 18000132 |
| 40* | | | | | 18000133 |
| 41* | | | | | 18000134 |
| 42* | | | | SYN CARDS FOR THE UNIT AREA TABLE | 18000135 |
| 43* | | | | | 18000136 |
| 44* | | | | | 18000137 |
| 45* | 000000.00+ | +00000011 | BU,06 ,10 | T UNLGN | SYN(BU,6),9 -THE UNIT AREA TABLE LENGHT 18000138 |
| 46* | 000000.14+ | +00000000 | BU,07 ,10 | T CHANN | SYN(BU,7),0.12 -THE CHANNEL NUMBER 18000139 |
| 47* | 000000.57+ | +00000000 | BU,03 ,10 | T UNITN | SYN(BU,3),0.47 -THE UNIT NUMBER 18000140 |
| 48* | 000001.06+ | +00000000 | BU,14 ,10 | T ICCK | SYN(BU,12),1.6 -THE IOD COUNT 18000141 |
| 49* | 000003.00+ | +00000000 | BU,22 ,10 | T FIAAC | SYN(BU,18),3.0 -THE FILE AREA TABLE ACTIVATED 18000142 |
| 50* | 000007.31+ | +00000000 | BU,01 ,10 | T SYSTM | SYN(BU,1),7.25 -SYSTEM TAPE IF A ONE 18000143 |
| 51* | 000010.00+ | +00000000 | BU,22 ,10 | T FRLAD | SYN(BU,18),8.0 -FIRST FEEL ADDRESS 18000144 |
| 52* | 000010.40+ | +00000000 | BU,22 ,10 | T CREEL | SYN(BU,18),8.32 -CURRENT REEL ADDRESS 18000145 |
| 53* | 000010.71+ | +00000000 | BU,07 ,10 | T REELK | SYN(BU,7),8.57 -CURRENT REEL COUNT 18000146 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|------------------------------|-----------|-------------------------------|--------------------------------------|
| 1* | | | - | | 18000148 |
| 2* | | | - | | 18000149 |
| 3* | | | - | SYN CARDS FOR FILE AREA TABLE | 18000150 |
| 4* | | | - | | 18000151 |
| 5* | | | - | | 18000152 |
| 6* | 000000.00+ | +00000007 | BU,06 ,10 | T FLLGN SYN(BU,6),7 | -THE FILE AREA TABLE LENGHT |
| 7* | 000000.00+ | +00000000 | BU,22 ,10 | T IODRN SYN(BU,18),0.0 | -IOD REF NUMBER |
| 8* | 000002.00+ | +00000000 | BU,22 ,10 | T TOELO SYN(BU,18),2.0 | -TABLE OF EXITS LOC |
| 9* | 000002.33+ | +00000000 | BU,02 ,10 | T DENMD SYN(BU,2),2.27 | -THE FILE AREA DENSITY MODIFIER |
| 10* | 000002.35+ | +00000000 | BU,03 ,10 | T REELD SYN(BU,3),2.29 | -REEL DISPOSITION |
| 11* | 000002.60+ | +00000000 | BU,02 ,10 | T FMCDE SYN(BU,2),2.48 | -FILE MODE |
| 12* | 000005.06+ | +00000000 | BU,14 ,10 | T CRARC SYN(BU,12),5.06 | -ORIGINAL ARC |
| 13* | 000005.46+ | +00000000 | BU,14 ,10 | T MXARC SYN(BU,12),5.38 | -MAXIMUM ARC |
| 14* | 000006.06+ | +00000000 | BU,14 ,10 | T CUARC SYN(BU,12),6.06 | -CURRENT ARC |
| 15* | | | - | | 18000162 |
| 16* | | | - | | 18000163 |
| 17* | | | - | THE FORMAT OF THE REEL POOL | 18000164 |
| 18* | | | - | | 18000165 |
| 19* | | | - | | 18000166 |
| 20* | 000000.31+ | +00000000 | BU,01 ,10 | T RENTY SYN(BU,1),0.25 | -A ONE IF A REEL WAS ENTERED HERE |
| 21* | 000000.32+ | +00000000 | BU,01 ,10 | T REPR SYN(BU,1),0.26 | -REEL PROTECT BIT IF ONE |
| 22* | 000000.33+ | +00000000 | BU,01 ,10 | T RELB SYN(BU,1),0.27 | -REEL LABELED IF ONE |
| 23* | 000000.42+ | +00000000 | BU,36 ,10 | T RENME SYN(BU,30),0.34 | -REEL NAME FORMAT |
| 24* | | | - | | 18000171 |
| 25* | | | - | | 18000172 |
| 26* | | | - | THE TYPE SCAN TABLES | 18000173 |
| 27* | | | - | | 18000174 |
| 28* | | | - | | 18000175 |
| 29* | 004743.00 | 004744.31+ 000 000010 000000 | T SCIX1 | XW,TSCAN1,8,0 | -INDEX FOR TYPE SCAN |
| 30* | 004744.00 | 000000.05- | T SCBK1 | VF,-5 | -THE BACKUP CONSTANT TO GET THE CODE |
| 31* | | | - | | 18000178 |
| 32* | 004744.31 | | T SCAN1 | (AX)DD(BU,42,6),CONSOLE X | 18000179 |
| 33* | 004745.03 | | | DD(BU,5),2 | 18000180 |
| 34* | 004745.10 | | | (AX)DD(BU,42,6),DISK X | 18000181 |
| 35* | 004745.62 | | | DD(BU,5),1 | 18000182 |
| 36* | 004745.67 | | | (AX)DD(BU,42,6),READER X | 18000183 |
| 37* | 004746.41 | | | DD(BU,5),3 | 18000184 |
| 38* | 004746.46 | | | (AX)DD(BU,42,6),PUNCH X | 18000185 |
| 39* | 004747.20 | | | DD(BU,5),4 | 18000186 |
| 40* | 004747.25 | | | (AX)DD(BU,42,6),PRINTER X | 18000187 |
| 41* | 004747.77 | | | DD(BU,5),5 | 18000188 |
| 42* | 004750.04 | | | (AX)DD(BU,42,6),IQS X | 18000189 |
| 43* | 004750.56 | | | DD(BU,5),6 | 18000190 |
| 44* | 004750.63 | | | (AX)DD(BU,42,6),TRACK X | 18000191 |
| 45* | 004751.35 | | | DD(BU,5),(2)10001 | -SPECIAL TRACK IND |
| 46* | 004751.42 | | | (AX)DD(BU,42,6),TAPE X | 18000193 |
| 47* | 004752.14 | | | DD(BU,5),8 | 18000194 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|---------|----------------------------|------------------------------------|
| 1* | | | | | 18000196 |
| 2* | | | | THE MODE SCAN TABLES | 18000197 |
| 3* | | | | | 18000198 |
| 4* | | | | | 18000199 |
| 5* | 004753.00 | CC4754.31+ C00 C00005 000000 | T SCIX2 | XW,TSCAN2,5,0 | -INDEX FOR MODE SCAN TABLES |
| 6* | 004754.00 | CCC000.02- | T SCBK2 | VF,-2 | -BACKUP CONSTANT TO GET CODE |
| 7* | | | | | 18000202 |
| 8* | 004754.31 | | T SCAN2 | (AX)DD(BU,30,6), X | 18000203 |
| 9* | 004754.67 | 0 | | DD(BU,2),0 | 18000204 |
| 10* | 004754.71 | | | (AX)DD(BU,30,6),ECC X | 18000205 |
| 11* | 004755.27 | 1 | | DD(BU,2),1 | 18000206 |
| 12* | 004755.31 | | | (AX)DD(BU,30,6),CDD X | 18000207 |
| 13* | 004755.67 | 3 | | DD(BU,2),3 | 18000208 |
| 14* | 004755.71 | | | (AX)DD(BU,30,6),EVEN X | 18000209 |
| 15* | 004756.27 | 2 | | DD(BU,2),2 | 18000210 |
| 16* | 004756.31 * | | | (AX)DD(BU,30,6),NOECCX | 18000211 |
| 17* | 004756.67 | 3 | | DD(BU,2),3 | 18000212 |
| 18* | 004756.71 | 3 | | DD(BU,2),3 | -AN ERROR WILL BE NULL |
| 19* | | | | | 18000214 |
| 20* | | | | | 18000215 |
| 21* | | | | THE DENSITY SCAN TABLE | 18000216 |
| 22* | | | | | 18000217 |
| 23* | | | | | 18000218 |
| 24* | 004757.00 | CC4760.31+ C00 C00003 000000 | T SCIX3 | XW,TSCAN3,3,0 | -IX FOR DENSITY SCAN TABLE |
| 25* | 004760.00 | CCC000.02- | T SCBK3 | VF,-2 | -BACKUP CONSTANT TO GET CODE |
| 26* | 004760.31 | | T SCAN3 | (AX)DD(BU,12,6),HDX | 18000221 |
| 27* | 004760.45 | 1 | | DD(BU,2),1 | 18000222 |
| 28* | 004760.47 | | | (AX)DD(BU,12,6),LDX | 18000223 |
| 29* | 004760.63 | 3 | | DD(BU,2),3 | 18000224 |
| 30* | 004760.65 | | | (AX)DD(BU,12,6), X | 18000225 |
| 31* | 004761.01 | 0 | | DD(BU,2),0 | 18000226 |
| 32* | 004761.03 | 0 | | DD(BU,2),0 | -ERROR WILL BE NULL |
| 33* | | | | | 18000228 |
| 34* | | | | | 18000229 |
| 35* | | | | | 18000230 |
| 36* | | | | THE DISPOSITION SCAN TABLE | 18000231 |
| 37* | | | | | 18000232 |
| 38* | | | | | 18000233 |
| 39* | 004762.00 | CC4763.31+ C00 C00005 000000 | T SCIX4 | XW,TSCAN4,5,0 | -IX FOR THE DISPOSITION SCAN TABLE |
| 40* | 004763.00 | CCC000.03- | T SCBK4 | VF,-3 | -BACKUP CONSTANT TO GET CODE |
| 41* | | | | | 18000236 |
| 42* | 004763.31 | | T SCAN4 | (AX)DD(BU,30,6),NSAVEX | 18000237 |
| 43* | 004763.67 | 0 | | DD(BU,3),0 | 18000238 |
| 44* | 004763.72 | | | (AX)DD(BU,30,6), X | 18000239 |
| 45* | 004764.30 | 0 | | DD(BU,3),0 | 18000240 |
| 46* | 004764.33 | | | (AX)DD(BU,30,6),CSAVEX | 18000241 |
| 47* | 004764.71 | 1 | | DD(BU,3),1 | 18000242 |
| 48* | 004764.74 | | | (AX)DD(BU,30,6),ISAVEX | 18000243 |
| 49* | 004765.32 | 2 | | DD(BU,3),2 | 18000244 |
| 50* | 004765.35 | | | (AX)DD(BU,30,6),SAVE X | 18000245 |
| 51* | 004765.73 | 3 | | DD(BU,3),3 | 18000246 |
| 52* | 004765.76 | 0 | | DD(BU,03),0 | -AN ERROR WILL BE A NULL |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|--------|--|----------|
| 1* | | | | | 18000249 |
| 2* | | | | THE DUMMY TABLES FOR THE UN-ASSIGNMENT OF THE REJECTED JOB | 18000250 |
| 3* | | | | | 18000251 |
| 4* | | | | | 18000252 |
| 5* | 004766.40 | 000000.30 00 | | CNCP | 18000253 |
| 6* | 004767.00 | 004771.00+ | T DSIC | VF,TCAT | 18000254 |
| 7* | 004767.40 | 004773.00+ | | VF,TBIRD | 18000254 |
| 8* | 004770.00 | 005002.00+ | | VF,TCOT | 18000255 |
| 9* | 004770.40 | 005004.00+ | | VF,TB0ID | 18000255 |
| 10* | | | | | 18000256 |
| 11* | 004771.00 * | 000002.00 | TCAT | DRZ(N),2 | 18000257 |
| 12* | | | | | 18000258 |
| 13* | 004773.00 | 000002.00 | T BIRD | DRZ(N),2 | 18000259 |
| 14* | 004775.00 | 000000.00+ 000 140000 000000 | | XW,(.31)3 | 18000260 |
| 15* | 004776.00 * | 000003.00 | | DRZ(N),3 | 18000261 |
| 16* | 005001.00 | 005013.00+ | | VF,TWCRM | 18000262 |
| 17* | 005001.40 | 005013.00+ | | VF,TWCRM | 18000262 |
| 18* | 005001.71 | | 001 | DE(BU,7),(16)01 | 18000262 |
| 19* | | | | | 18000263 |
| 20* | 005002.00 * | 000002.00 | T COT | DRZ(N),2 | 18000264 |
| 21* | 005004.00 | 000006.00 | T B0ID | DRZ(N),6 | 18000265 |
| 22* | 005012.00 | 005013.00+ | | VF,TWORM | 18000266 |
| 23* | 005012.40 | 005013.00+ | | VF,TWCRM | 18000266 |
| 24* | 005012.71 | | 001 | DE(BU,7),(16)01 | 18000266 |
| 25* | | | | | 18000267 |
| 26* | 005013.00 | 000000.00+ 110 000000 000000 | T WCRM | XW,(.26)3 | 18000268 |
| 27* | | | | | 18000269 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-----------|-------------|--------------|-----------|--|----------|
| 1* | | | | - | | 18000271 |
| 2* | | | | - | | 18000272 |
| 3* | | | | - | THE - MOVE - SUB-ROUTINE | 18000273 |
| 4* | | | | - | | 18000274 |
| 5* | | | | - | | 18000275 |
| 6* | 005014.00 | 000021.00 | 80 004633.30 | EC | T MOVE SWAPI,12,1,TSICXW -SAVE INDEXES | 18000276 |
| 7* | | | | | | 18000277 |
| 8* | 005015.00 | 004632.00 | 80 022000.00 | FO | CM000(BU,18),TERFLG -RESET THE IOD CARD ERROR IND | 18000278 |
| 9* | 005016.00 | 000000.24 | 1F | | LX,TMXI,0.0(\$15) -GET CONTROL WORD FOR ENTRY CK | 18000279 |
| 10* | 005016.40 | 000000.56 | 8F | 022000.07 | 7C CT0011(BU,18),0.46(\$15) | 18000280 |
| 11* | 005017.40 | 005402.34 | 00 | | BZRZ, TMREJ -IF A DISPATCHER REJECT | 18000281 |
| 12* | 005020.00 | 000032.30 | 80 | 001000.00 | FO CM000(BU,1),TMXI+24 -SET THE SIGN PLUS | 18000282 |
| 13* | 005021.00 | 005313.30 | 02 | | BXVLZ, TM2 -IF INITIAL ENTRY | 18000283 |
| 14* | | | | | | 18000284 |
| 15* | 005021.40 | 000001.00 | 8A | 030000.06 | 70 T M1 C0011,TICP(TMXI) -LOAD OP CODE FOR TEST | 18000285 |
| 16* | 005022.40 | 004630.14 | 80 | 030600.23 | 1C KF, TMIDD -TEST FOR IOD | 18000286 |
| 17* | 005023.40 | 005264.76 | 00 | | RZAE, TM6 -NOT AN IOD CARD | 18000287 |
| 18* | | | | | | 18000288 |
| 19* | | | | | CONVERT THE NECESSARY FIELDS OF THE IOD CARD | 18000289 |
| 20* | | | | | | 18000290 |
| 21* | 005024.00 | 000000.27 | 01 | | LVI, TMXGA, 0.0 -RESET THE ERROR FLAG INDEX | 18000291 |
| 22* | 005024.40 | 004743.20 | 10 | | LX, TMXG, TSCIX1 -GET THE NUMBER OF SCAN | 18000292 |
| 23* | 005025.00 | * 000002.00 | 8A | 052000.06 | 70 C0011, TITY(TMXI) -GET TYPE FIELD | 18000293 |
| 24* | 005026.00 | 000000.57 | 88 | 252600.23 | 1C T MLOCK1 KF(V+IC)(BU,42,6),.47(TMxG) | 18000294 |
| 25* | 005027.00 | 005031.36 | 02 | | BAE, TMOK1 | 18000295 |
| 26* | 005027.40 | 005026.30 | 40 | | BZX CZ, TMLOCK1 | 18000296 |
| 27* | 005030.00 | 000020.27 | 05 | | V+I, TMXGA, 16.0 -A TYPE FIELD ERROR | 18000297 |
| 28* | 005030.40 | 005031.50 | 00 | | B, TGET1 | 18000298 |
| 29* | 005031.00 | 004744.20 | 00 | | T MOK1 V+, TMXG, TSCBK1 | 18000299 |
| 30* | 005031.40 | 000000.00 | 88 | 005000.06 | 70 T GET1 LF(BU,5),0.0(TMxG) | 18000300 |
| 31* | 005032.40 | 000002.73 | 8A | 005000.12 | FO SF(BU,5),TITYCD-1(TMxI) -STORE THE TYPE CODE | 18000301 |
| 32* | | | | | | 18000302 |
| 33* | 005033.40 | 000002.74 | 8A | 005045.74 | 02 BB, TITYCD(TMxI), TMNGA -GO IF TAPE | 18000303 |
| 34* | 005034.40 | 040000.00 | 80 | 404000.23 | 10 KFI(BU,4),001 -LOCK FOR A DISK | 18000304 |
| 35* | 005035.40 | 005072.76 | 02 | | BAE, TMNG -YES | 18000305 |
| 36* | 005036.00 | 004753.20 | 10 | | LX, TMXG, TSCIX2 -LOAD FOR MODE SCAN FOR CARD MACHINES | 18000306 |
| 37* | 005036.40 | 000005.00 | 8A | 036000.06 | 70 LF, TIMO-1.0(TMxI) -GET CARD MACHINE MODE | 18000307 |
| 38* | 005037.40 | 000000.40 | 88 | 236600.23 | 10 T MLOCK2 KF(V+IC)(BU,30,6),0.32(TMxG) | 18000308 |
| 39* | 005040.40 | * 005042.76 | 02 | | BAE, TMOK2 | 18000309 |
| 40* | 005041.00 | 005037.70 | 40 | | BZX CZ, TMLOCK2 | 18000310 |
| 41* | 005041.40 | 000004.27 | 05 | | V+I, TMXGA, 04.0 -A MODE FIELD ERROR | 18000311 |
| 42* | 005042.00 | 005043.10 | 00 | | B, TGET2 | 18000312 |
| 43* | 005042.40 | 004754.20 | 80 | | T MCK2 V+, TMXG, TSCBK2 | 18000313 |
| 44* | 005043.00 | 000000.00 | 88 | 002000.06 | 70 T GET2 C0011(BU,2),0.0(TMxG) | 18000314 |
| 45* | 005044.00 | 000005.76 | 8A | 002000.12 | FO CM0101, TIMOCD-1.0(TMxI) | 18000315 |
| 46* | 005045.00 | 005072.50 | 00 | | B, TMNG -NON TAPE FINISHED | 18000316 |
| 47* | | | | | | 18000317 |
| 48* | 005045.40 | 004753.20 | 10 | | T MNGA LX, TMXG, TSCIX2 -LOAD TO TAPE MODE SCAN | 18000318 |
| 49* | 005046.00 | 000006.00 | 8A | 036000.06 | 70 LF, TIMO(TMxI) | 18000319 |
| 50* | 005047.00 | 000000.40 | 88 | 236600.23 | 10 T MLOCK5 KF(V+IC)(BU,30,6),.32(TMxG) | 18000320 |
| 51* | 005050.00 | 005052.36 | 02 | | BAE, TMOK5 | 18000321 |
| 52* | 005050.40 | 005047.30 | 40 | | BZX CZ, TMLOCK5 | 18000322 |
| 53* | 005051.00 | 000004.27 | 05 | | V+I, TMXGA, 04.0 -MODE FIELD ERROR | 18000323 |
| 54* | 005051.40 | 005052.50 | 00 | | B, TGET5 | 18000324 |
| 55* | 005052.00 | 004754.20 | 80 | | T MCK5 V+, TMXG, TSCBK2 | 18000325 |
| 56* | 005052.40 | 000000.00 | 88 | 002000.06 | 70 T GET5 LF(BU,2),0.0(TMxG) | 18000326 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 005053 |
|------|-------------|-----------|--------------|--------|---|----------|--------|
| 1* | 005053.40 * | 000006.76 | 8A 002000.12 | FC | CM0101,TIM0CD(TMXI) | 18000327 | |
| 2* | | | | | | 18000328 | |
| 3* | 005054.40 | 004757.20 | 10 | | LX,TMXG,TSCIX3 -LOAD FOR DENSITY SCAN | 18000329 | |
| 4* | 005055.00 | 000007.00 | 8A 014000.06 | 70 | CO011,TIDN(TMXI) | 18000330 | |
| 5* | 005056.00 | 000000.16 | 88 214600.23 | 10 | T MLOGK3 KF(V+IC)(BU,12,6),0.14(TMVG) | 18000331 | |
| 6* | 005057.00 | 005061.36 | C2 | | BAE,TMOK3 | 18000332 | |
| 7* | 005057.40 | 005056.30 | 40 | | BZXCZ,TMLOGK3 | 18000333 | |
| 8* | 005060.00 | 000002.27 | 05 | | V+I,TMXGA,02.0 - A DENSITY FIELD ERROR | 18000334 | |
| 9* | 005060.40 | 005061.50 | C0 | | B,TGET3 | 18000335 | |
| 10* | 005061.00 | 004760.20 | B0 | T MOK3 | V+,TMXG,TSCBK3 | 18000336 | |
| 11* | 005061.40 | 000000.00 | 88 002000.06 | 70 | T GET3 CO011(BU,2),0.0(TMVG) | 18000337 | |
| 12* | 005062.40 | 000007.76 | 8A 002000.12 | FC | CM0101,TIDNCD(TMXI) | 18000338 | |
| 13* | | | | | | 18000339 | |
| 14* | 005063.40 | 004762.20 | 10 | | LX,TMXG,TSCIX4 -LOAD FOR DISP SCAN | 18000340 | |
| 15* | 005064.00 | 000010.00 | 8A 036000.06 | 70 | CO011,TIDS(TMXI) | 18000341 | |
| 16* | 005065.00 | 000000.41 | 88 236600.23 | 10 | T MLOGK4 KF(V+IC)(BU,30,6),0.33(TMVG) | 18000342 | |
| 17* | 005066.00 | 005070.36 | C2 | | BAE,TMOK4 | 18000343 | |
| 18* | 005066.40 | 005065.30 | 40 | | BZXCZ,TMLOGK4 | 18000344 | |
| 19* | 005067.00 | 000001.27 | 05 | | V+I,TMXGA,01.0 - A DISPOSITION FIELD ERROR | 18000345 | |
| 20* | 005067.40 * | 005070.50 | C0 | | B,TGET4 | 18000346 | |
| 21* | 005070.00 | 004763.20 | B0 | T MOK4 | V+,TMXG,TSCBK4 | 18000347 | |
| 22* | 005070.40 | 000000.00 | 88 003000.06 | 70 | T GET4 CO011(BU,3),0.0(TMVG) | 18000348 | |
| 23* | 005071.40 | 000010.76 | 8A 002000.12 | FC | CM0101,TIDSCD(TMXI) | 18000349 | |
| 24* | 005072.40 | 004632.27 | 30 | T MNG | SV,TMXGA,TERFLG -SAVE ERROR FLAG IF ANY | 18000350 | |
| 25* | 005073.00 | 005075.71 | 42 | | BXVZ,TM1AA -IF THE CARD IS OK | 18000351 | |
| 26* | | | | | | 18000352 | |
| 27* | 005073.40 | 000002.74 | 8A 004000.20 | 50 | L,TITYCD(TMXI) -CHECK FOR INVALID TYPE CODE | 18000353 | |
| 28* | 005074.40 | 005075.74 | C0 | | BZRZ,TM1AA -TYPE CCDE OK | 18000354 | |
| 29* | 005075.00 | 005075.04 | 00 | | BD,\$ -MCP ERROR, INVALID TYPE CCDE | 18000355 | |
| 30* | | | | | | 18000356 | |
| 31* | | | | | | 18000357 | |
| 32* | | | | | | 18000358 | |
| 33* | | | | | IS THIS IOD IN THE UNIT NAME TABLE | 18000359 | |
| 34* | | | | | | 18000360 | |
| 35* | | | | | | 18000361 | |
| 36* | 005075.40 | 004653.20 | 10 | T M1AA | LX,TMXG,TUNXW -LOAD TO BEGINNING OF UNIT NAME TABLE | 18000362 | |
| 37* | 005076.00 | 000000.64 | 8A 014027.20 | 50 | L,TIREF(TMXI),46 -GET THE REFERENCE NUMBER | 18000363 | |
| 38* | 005077.00 | 005100.74 | C0 | | BZRZ,TMEAT -NO | 18000364 | |
| 39* | 005077.40 | 000010.03 | 01 | T MDOG | LVI,TMX1,8.0 -ILLEGAL REF NC. ON AN IOD CARD | 18000365 | |
| 40* | 005100.00 | 005377.10 | C0 | | B,TMREJB | 18000366 | |
| 41* | 005100.40 | 002155.00 | 80 022027.20 | 10 | T MEAT +(BU,18),TLIMB,46 -COMPUTE THE SIOL ADDRESS | 18000367 | |
| 42* | 005101.40 | 000011.10 | 30 | | LV,TMXC,\$R -ADDRESS OF SIOL TO IX | 18000368 | |
| 43* | 005102.00 | 000000.00 | 84 000000.06 | 70 | LF(BU),0.0(TMXC) -IS SIOL SLCT ALREADY USED | 18000369 | |
| 44* | 005103.00 * | 005077.74 | C0 | | BZRZ,TMDOG -YES - REPORT ILLEGAL IOD CARD TO JC | 18000370 | |
| 45* | 005103.40 | 000004.00 | 8A 060010.20 | 50 | L,TICH(TMXI),16 -GET CHAN FIELD OF IOD CARD | 18000371 | |
| 46* | 005104.40 | 000005.00 | 8A 060050.06 | 70 | LF,TIUN(TMXI),80 -GET THE UNIT NAME - TAPE ONLY | 18000372 | |
| 47* | 005105.40 | 000002.74 | 8A 004000.06 | 70 | LF,TITYCD(TMXI) -GET THE TYPE FIELD CODED | 18000373 | |
| 48* | 005106.40 | 000000.21 | 05 | | V+I,TMXG,0.0 -TO RE-ACTIVATE INDEX IND. FOR TMXG | 18000374 | |
| 49* | 005107.00 | 005116.30 | 42 | | BXCZ,TM1E -IF ZERO ENTRY | 18000375 | |
| 50* | 005107.40 | 000000.00 | 88 060010.23 | 10 | T M1A KF,TCHNM(TMVG),16 -COMPARE AGAINST TABLE | 18000376 | |
| 51* | 005110.40 | 005115.76 | C0 | | BZAE,TM1B -IF UNLIKE ENTRY | 18000377 | |
| 52* | 005111.00 | 000000.74 | 88 004000.23 | 10 | KF,TUNYTP(TMVG) -COMPARE EQUIP FEILD | 18000378 | |
| 53* | 005112.00 | 005115.76 | C0 | | BZAE,TM1B -IF NOT ALIKE | 18000379 | |
| 54* | 005112.40 | 004652.21 | 30 | | SV,TMXG,TDKSAV | 18000380 | |
| 55* | 005113.00 | 000002.74 | 8A 005162.34 | 00 | BZB,TITYCD(TMXI),TM1C -IF NOT TAPE | 18000381 | |
| 56* | 005114.00 | 000031.00 | 88 060050.23 | 10 | KF,TUNME(TMVG),80 -TAPE COMPARE UNIT NAME | 18000382 | |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 005115 | | |
|------|-------------|-----------|--------|-----------|------------------------|----------------------------|-----------------------------|--|----------|
| 1* | 005115.00 | 005162.36 | C2 | | BAE, TM1D | -UNIT AREA TABLE GENERATED | 18000383 | | |
| 2* | 005115.40 | 005107.61 | 48 | T M1B | CB+, TMXG, TM1A | | 18000384 | | |
| 3* | | | | - | | | 18000385 | | |
| 4* | 005116.00 * | 00000.64 | 8A | 014002.06 | 7C | T M1E | LF, TIREF(TMXI), 04 | -GET THE REF. NUMBER | 18000386 |
| 5* | 005117.00 | 000031.00 | 88 | 000040.12 | FO | | SF(BU, 64), TUNME(TMXX), 64 | | 18000387 |
| 6* | 005120.00 | 00000.00 | 88 | 000000.12 | FO | | CM0101(BU, 64), 0.0(TMXX) | -STORE NEW ENTRY IN TABLE | 18000388 |
| 7* | 005121.00 | 004653.34 | 80 | 022000.22 | BO | | M+1(BU, 18), TUNXW+28 | -STEP TABLE COUNTER | 18000389 |
| 8* | 005122.00 | 004652.21 | 30 | | | | SV, TMXX, TDKSAV | | 18000390 |
| 9* | | | | - | | | | | 18000391 |
| 10* | | | | - | | | | | 18000392 |
| 11* | | | | - | | | | | 18000393 |
| 12* | | | | - | | | | | 18000394 |
| 13* | | | | - | | | | | 18000395 |
| 14* | | | | - | | | | | 18000396 |
| 15* | | | | - | | | | | 18000397 |
| 16* | 005122.40 | 000003.13 | 36 | | SV, TMXD, TFIAAC(TMXE) | -FILE AREA ACT. ADDRESS | | | 18000398 |
| 17* | 005123.00 | 00000.56 | 83 | 022027.20 | 50 | | L, TABSCH(TMXX), 46 | -GET THE ADDR OF THE ASSIGNED CHAN | 18000399 |
| 18* | 005124.00 | 000011.20 | 10 | | | | LX, TMXX, \$R | -CHAN TABLE ADDR TO IX | 18000400 |
| 19* | 005124.40 | 002152.00 | 80 | 022027.30 | 10 | | -(BU, 18), TCHSXW, 46 | -COMPUTE THE CHANNEL NUMBER | 18000401 |
| 20* | 005125.40 | 000000.14 | 86 | 007027.20 | DO | | ST, TCHANN(TMXE), 46 | | 18000402 |
| 21* | 005126.40 | 000000.33 | 88 | 005146.34 | 00 | | BZB, TMULTI(TMXX), TM1DA | -IF NOT A MULTI UNIT CHAN | 18000403 |
| 22* | 005127.40 | 000000.07 | 83 | 003027.20 | 50 | | L, TABSUN(TMXX), 46 | -GET THE UNIT NUMBER | 18000404 |
| 23* | 005130.40 | 000000.57 | 86 | 003027.20 | DO | | ST, TUNITN(TMXE), 46 | -AND PLACE IN UNIT AREA TBL | 18000405 |
| 24* | 005131.40 * | 000000.03 | 83 | 005143.74 | 00 | | BZB, TTYPE(TMXX), TM1DAA | -IF THE TYPE IS NOT TAPE | 18000406 |
| 25* | 005132.40 | 000007.31 | 86 | 001000.36 | FO | | CM1111, TSYSTEM(TMXE) | -SET THE SYSTEM TAPE BIT FOR INITIAL | 18000407 |
| 26* | 005133.40 | 000027.00 | 80 | 022000.06 | 70 | | CO011(BU, 18), TMXF | -GET REEL POOL ADDRESS | 18000408 |
| 27* | 005134.40 | 000010.00 | 86 | 022000.12 | FO | | CM0101, TFRPAD(TMXE) | -AND STORE IN UNIT AREA | 18000409 |
| 28* | 005135.40 | 000010.40 | 86 | 022000.12 | FO | | CM0101, TCREEL(TMXE) | | 18000410 |
| 29* | 005136.40 | 000010.71 | 86 | 007000.22 | BO | | M+1, TREELK(TMXE) | -SET THE REEL COUNT TO ONE | 18000411 |
| 30* | 005137.40 | 000000.22 | 07 | | | | Z, 0.0(TMXF) | -ZERO THE FIRST REEL SLOT | 18000412 |
| 31* | 005140.00 | 000000.33 | 87 | 001000.36 | FO | | CM1111(BU, 1), TRELK(TMXF) | | 18000413 |
| 32* | 005141.00 | 000001.17 | 05 | | | | V+I, TMXF, 1.0 | -STEP REEL POOL INDEX | 18000414 |
| 33* | 005141.40 | 002153.16 | 90 | | | | KV, TMXF, TBAMCP | -IS THE REEL POOL EXCEEDING BOUNDS | 18000415 |
| 34* | 005142.00 | 005143.72 | 42 | | | | BXL, TM1DAA | -NO | 18000416 |
| 35* | 005142.40 | 000004.03 | 01 | | | | LVI, TMX1, 4.0 | -YES SO NOTE IT JC | 18000417 |
| 36* | 005143.00 | 005377.10 | 00 | | | | B, TMREJB | -AND REJECT JOB | 18000418 |
| 37* | | | | - | | | | | 18000419 |
| 38* | | | | - | | | | | 18000420 |
| 39* | | | | - | | | | | 18000421 |
| 40* | | | | - | | | | | 18000422 |
| 41* | | | | - | | | | | 18000423 |
| 42* | 005143.40 | 000000.00 | 88 | 022027.20 | 10 | T M1DAA | +, TUNTBA(TMXX), 46 | -COMPUTE UNIT TABLE ADDR. IN MULTI CAS | 18000424 |
| 43* | 005144.40 | 000011.20 | 30 | | | | LV, TMXX, \$R | -GET POINTER FOR UNIT TABLE | 18000425 |
| 44* | 005145.00 * | 000000.47 | 88 | 001000.36 | FO | | CM1111, TSEL(TMXX) | -SET THE SEL BIT TO 1 FOR ALL MULTI CH | 18000426 |
| 45* | | | | - | | | | | 18000427 |
| 46* | 005146.00 | 000000.15 | 38 | | | T M1DA | SV, TMXE, 0.0(TMXX) | -STORE UNIT AREA TBL ADDRESS | 18000428 |
| 47* | | | | - | | | | | 18000429 |
| 48* | 005146.40 | 000000.32 | 8F | 001000.06 | 70 | | LF(BU, 1), .26(\$15) | -GET THE OWNERSHIP BIT | 18000430 |
| 49* | 005147.40 | 000000.40 | 88 | 001000.12 | FO | | SF, TCHOWN(TMXX) | | 18000431 |
| 50* | | | | - | | | | | 18000432 |
| 51* | 005150.40 | 000000.35 | 88 | 001000.00 | FO | | CM0000, TUNASG(TMXX) | -SET THE UNIT ASSIGNED BIT | 18000433 |
| 52* | 005151.40 | 000000.76 | 88 | 005153.74 | 06 | | BBZ, TUNRES(TMXX), TM1DX | -RESET THE NCT CV RES FIRST | 18000434 |
| 53* | 005152.40 | 000000.77 | 88 | 001000.00 | FO | | CM0000, TOVRES(TMXX) | - | 18000435 |
| 54* | | | | - | | | | | 18000436 |
| 55* | 005153.40 | 000026.22 | 30 | | | T M1DX | LV, TMXEE, TMXE | -KEEP ONE IX TO BEGINNING OF TBL | 18000437 |
| 56* | 005154.00 | 000011.15 | 05 | | | | V+I, TMXE, 9.0 | -ADVANCE THE OTHER TO END + 1 | 18000438 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|-----------------|---------|---|----------|
| 1* | | | | - | | 18000439 |
| 2* | | | | - | ZERO THE I/O REQUEST TBL AND REEL SLOT | 18000440 |
| 3* | | | | - | | 18000441 |
| 4* | 005154.40 | 000000.34 | 33 022027.20 50 | | L,TFREEL(TM XB),46 -GET THE FIRST REEL ADDRESS | 18000442 |
| 5* | 005155.40 | CC5157.34 | C2 | | BRZ, TM2AC -NO REEL | 18000443 |
| 6* | 005156.00 | CCCC11.26 | 30 | | LV, TMXGA, \$R | 18000444 |
| 7* | 005156.40 | CCCC00.22 | CB | | Z,0.0(TM XGA) -ZERO THE REEL SLOT | 18000445 |
| 8* | 005157.00 | 000000.22 | 03 | T M2AC | Z,0.0(TM XB) -ZERO THE I/O REQ TBL SLOT | 18000446 |
| 9* | | | | - | | 18000447 |
| 10* | 005157.40 | CCCC01.22 | 83 005161.34 00 | | BZB, TLAST+1.0(TM XB), TM1DB-IF NOT LAST ENTRY IN THE I/O REQ TBL | 18000448 |
| 11* | 005160.40 | CC3372.07 | C1 | | LVI, TMXB, TIOREQ-1. | 18000449 |
| 12* | 005161.00 * | 000001.07 | C6 | T M1DB | V+IC, TMXB, 1.0 | 18000450 |
| 13* | 005161.40 | 005165.10 | C0 | | B, TN5 | 18000451 |
| 14* | | | | - | | 18000452 |
| 15* | | | | - | THE UNIT AREA TABLE IS ALREADY GENERATED FOR THIS IOD CARD | 18000453 |
| 16* | | | | - | | 18000454 |
| 17* | 005162.00 | CCCC00.60 | 88 014027.20 50 | T MID | L, TUNREF(TM XG), 46 -GET THE REF NO. | 18000455 |
| 18* | 005163.00 | C02155.00 | 80 022027.20 10 | | +(BU, 18), TLIMB, 46 -COMPUTE SYMB. I/O LOC ADDRESS | 18000456 |
| 19* | 005164.00 | 000011.20 | 30 | | LV, TMXG, \$R | 18000457 |
| 20* | | | | - | | 18000458 |
| 21* | 005164.40 | 000000.22 | 38 | | LV, TMXEE, 0.0(TM XG) -GET UNIT AREA ADDRESS | 18000459 |
| 22* | | | | - | | 18000460 |
| 23* | 005165.00 | 000001.06 | 89 014000.22 80 | T N5 | M+1, TIODK(TM XEE) -ADD TO IOD COUNT | 18000461 |
| 24* | | | | - | | 18000462 |
| 25* | | | | - | ----- | 18000463 |
| 26* | | | | - | GENERATE THE FILE AREA TABLES | 18000464 |
| 27* | | | | - | ----- | 18000465 |
| 28* | | | | - | | 18000466 |
| 29* | 005166.00 | 000000.64 | 8A 014027.20 50 | | L, TIREF(TM XI), 46 -GENERATE LOC OF SYMB I/O LOC WORD | 18000467 |
| 30* | 005167.00 | 000000.00 | 85 022027.12 F0 | | CM0101, TIODRN(TM XD), 46 -STORE REF NO. IN FILE AREA TABLE | 18000468 |
| 31* | | | | - | | 18000469 |
| 32* | 005170.00 | 000000.23 | 34 | | SV, TMXEE, 0.0(TM XC) -STORE UNIT AREA ADD IN SYMB I/O TB | 18000470 |
| 33* | 005170.40 | 000000.53 | 34 | | SV, TMXD, 0.32(TM XC) -STORE FILE AREA ADD IN SYMB I/O TB | 18000471 |
| 34* | | | | - | | 18000472 |
| 35* | 005171.00 | 000000.00 | 8A 022000.06 70 | | CO011, TIABEX(TM XI) -GET TABLE OF EXITS ADDRESS | 18000473 |
| 36* | 005172.00 | CCCC02.00 | 85 022000.12 F0 | | CM0101, TICELC(TM XD) -PLACE IN FILE AREA TABLE | 18000474 |
| 37* | 005173.00 | CCCC02.74 | 8A 005176.74 02 | | BB, TITYCD(TM XI), TM1FUZ -IF TAPE | 18000475 |
| 38* | | | | - | | 18000476 |
| 39* | 005174.00 * | 000005.76 | 8A 002000.06 70 | | LF, TIMOCD-1.0(TM XI) -GET CARD MACHINE MODE | 18000477 |
| 40* | 005175.00 | 000002.60 | 85 002000.12 F0 | | CM0101, TFMODE(TM XD) | 18000478 |
| 41* | 005176.00 | C05206.10 | C0 | | B, TM1FAZ | 18000479 |
| 42* | | | | - | | 18000480 |
| 43* | 005176.40 | 000006.76 | 8A 002000.06 70 | T M1FUZ | LF, TIMOCD(TM XI) -GET THE TAPE MODE | 18000481 |
| 44* | 005177.40 | 000002.60 | 85 002000.12 F0 | | SF, TFMODE(TM XD) | 18000482 |
| 45* | | | | - | | 18000483 |
| 46* | 005200.40 | 000002.74 | 8A 005206.34 00 | | BZB, TITYCD(TM XI), TM1FAZ -IF THE EQUIP IS NOT TAPE | 18000484 |
| 47* | 005201.40 | 000010.76 | 8A 002000.06 70 | | CO011, TIDSCD(TM XI) -GET THE REEL DISP | 18000485 |
| 48* | 005202.40 | CCCC02.35 | 85 003000.12 F0 | | CM0101, TREELD(TM XD) | 18000486 |
| 49* | | | | - | | 18000487 |
| 50* | 005203.40 | 000007.76 | 8A 002000.06 70 | | CO011, TIDNCD(TM XI) -GET GIVEN DENSITY | 18000488 |
| 51* | 005204.40 | 000002.33 | 85 002000.12 F0 | | CM0101, TDENMD(TM XD) | 18000489 |
| 52* | 005205.40 | C05262.10 | C0 | | B, TM1FA | 18000490 |
| 53* | | | | - | | 18000491 |
| 54* | 005206.00 | 000002.74 | 8A 004000.20 50 | T M1FAZ | L, TITYCD(TM XI) | 18000492 |
| 55* | 005207.00 | C40000.00 | 80 404000.23 10 | | KFI(BU, 4), 1 -LOOK FOR DISK | 18000493 |
| 56* | 005210.00 * | C05262.36 | C0 | | BZAE, TM1FA -IF NOT DISK | 18000494 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | | |
|------|-----------|-------------|--------|-----------|------------------|-------------------------------|---------------------------------------|----------|
| 1* | | | | - | | 18000495 | | |
| 2* | | | | - | | 18000496 | | |
| 3* | | | | - | | 18000497 | | |
| 4* | | | | - | DISK ANALYSER | 18000498 | | |
| 5* | | | | - | | 18000499 | | |
| 6* | | | | - | | 18000500 | | |
| 7* | 005210.40 | 004652.20 | 30 | | LV, TMXG, TDKSAV | -GET UNIT TABLE ADDRESS | 18000501 | |
| 8* | 005211.00 | 000031.75 | 88 | 003026.60 | 50 | L, TDKCT(TMXG), 45 | -GET RELATIVE ADDRESS OF DISK COUNTER | 18000502 |
| 9* | 005212.00 | 000011.26 | 30 | | | LV, TMXGA, \$R | | 18000503 |
| 10* | 005212.40 | 004737.05 | 88 | 014040.20 | 50 | L, TSBDF(TMXGA), 64 | -GET COUNTER | 18000504 |
| 11* | 005213.40 | 000002.73 | 8A | 005255.34 | 02 | BB, TITRK(TMXI), TMTRK | -IF TRACK | 18000505 |
| 12* | 005214.40 | 000006.06 | 85 | 014040.20 | 00 | T MDK ST, TCUARC(TMXD), 64 | -SET CURRENT ARC | 18000506 |
| 13* | 005215.40 | 000005.06 | 85 | 014040.20 | 00 | ST, TORARC(TMXD), 64 | -SET ORIGINAL ARC | 18000507 |
| 14* | 005216.40 | 004737.05 | 88 | 014040.20 | 00 | ST, TSBDF(TMXGA), 64 | -SAVE AS TRACK ROUNDS OFF | 18000508 |
| 15* | 005217.40 | 000005.00 | 8A | 060000.20 | 50 | L, TINO(TMXI) | -GET THE DISK NUMBER | 18000509 |
| 16* | 005220.40 | 004631.10 | 80 | 060600.23 | 10 | KF, TM6BL | -LOCK FOR DISK NULL-- BLANK | 18000510 |
| 17* | 005221.40 | 005250.76 | C2 | | | BAE, TMNULD | -IF NULL | 18000511 |
| 18* | 005222.00 | 005223.03 | C1 | | | LVI, TMX1, TMDK1 | | 18000512 |
| 19* | 005222.40 | 005450.50 | 00 | | | B, TMCONV | -GO TO THE CONVERSION ROUTINE | 18000513 |
| 20* | 005223.00 | 005250.74 | C2 | | | T MDK1 BRZ, TMNULD | -IF NULL -- ZERO | 18000514 |
| 21* | 005223.40 | * 004737.05 | 88 | 014040.06 | 70 | LF, TSBDF(TMXGA), 64 | -RELOAD ACC | 18000515 |
| 22* | 005224.40 | 000002.73 | 8A | 005227.34 | 02 | BB, TITRK(TMXI), TMDK3 | -IF TRACK | 18000516 |
| 23* | 005225.40 | 000011.64 | 80 | 014040.20 | 10 | +(BU, 12), \$R+.52, 64 | -ADD THE CONVERTED NUMBER | 18000517 |
| 24* | 005226.40 | 005230.10 | C0 | | | B, TMDK4 | | 18000518 |
| 25* | 005227.00 | 000011.64 | 80 | 014041.60 | 10 | T MDK3 +(BU, 12), \$R+.52, 67 | -ADD THE CONVERTED NUMBER -- TRACK | 18000519 |
| 26* | 005230.00 | 004737.05 | 88 | 014040.20 | 00 | T MDK4 ST, TSBDF(TMXGA), 64 | -UP DATE THE CCUNTER | 18000520 |
| 27* | 005231.00 | 000010.64 | 80 | 014000.32 | 80 | M-1(BU, 12), \$L+.52 | | 18000521 |
| 28* | 005232.00 | 004630.00 | 80 | 014040.23 | 10 | KF, TMMAX, 64 | -LOOK FOR ILLLEGAL DISK REQUEST | 18000522 |
| 29* | 005233.00 | 005263.77 | 42 | | | BAH, TMDCK3 | -YES | 18000523 |
| 30* | 005233.40 | 000005.46 | 85 | 014040.20 | 00 | ST, TMXARC(TMXD), 64 | -STORE THE MAXIMUM ARC | 18000524 |
| 31* | 005234.40 | 000031.60 | 88 | 014027.20 | 50 | L, TDSKRF(TMXG), 46 | -GET THE REF NC. OF NULL IOD | 18000525 |
| 32* | 005235.40 | 005262.34 | C2 | | | BRZ, TM1FA | -IF NONE | 18000526 |
| 33* | 005236.00 | 002155.00 | 80 | 022027.20 | 10 | +(BU, 18), TLIMB, 46 | -ADD THE BASE ADDRESS OF THE SIOL TBL | 18000527 |
| 34* | 005237.00 | * 000011.12 | 30 | | | LV, TMXD, \$R | | 18000528 |
| 35* | 005237.40 | 000000.52 | 35 | | | LV, TMXC, C.32(TMXD) | -GET FILE AREA OF NULL ICD | 18000529 |
| 36* | 005240.00 | 004737.05 | 88 | 014000.06 | 70 | LF, TSBDF(TMXGA) | -GET LAST CCUNTER | 18000530 |
| 37* | 005241.00 | 000031.74 | 88 | 005244.74 | 02 | BB, TCTRK(TMXG), TMDK2 | -IF TRACK | 18000531 |
| 38* | 005242.00 | 000006.06 | 85 | 014000.20 | 00 | T MDK1A ST, TCUARC(TMXD) | -UPDATE CURRENT ARC | 18000532 |
| 39* | 005243.00 | 000005.06 | 85 | 014000.20 | 00 | ST, TORARC(TMXD) | -UPDATE ORIGINAL ARC | 18000533 |
| 40* | 005244.00 | 005262.10 | C0 | | | B, TM1FA | | 18000534 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | |
|------|-------------|---------------------------|---------|---------------------------------------|---------------------------------------|----------|
| 1* | | | | | 18000536 | |
| 2* | | | | TRACK ANALYSER | 18000537 | |
| 3* | | | | | 18000538 | |
| 4* | 005244.40 | 000011.75 80 003000.07 70 | T MDK2 | CTOC11(BU,3),\$R+.61 | -CHECK FOR MULTIPLE OF 8 | 18000539 |
| 5* | 005245.40 | 005242.34 C2 | | BRZ, TMCK1A | -YES | 18000540 |
| 6* | 005246.00 | 000011.75 80 003000.00 FC | | CM0000(BU,3),\$R+.61 | -ZERO THE TRIVIAL BITS | 18000541 |
| 7* | 005247.00 | 000011.64 80 011000.22 B0 | | M+1(BU,9), \$R+.52 | -ADD NEXT BEGINNING TRACK LCC | 18000542 |
| 8* | 005250.00 | 005242.10 00 | | B, TMCK1A | | 18000543 |
| 9* | | | | | 18000544 | |
| 10* | 005250.40 | 000000.64 8A 014000.06 70 | T MNULD | LF, TIREF(TMXI) | -IF NULL DISK OR TRACK ,GET REF NO. | 18000545 |
| 11* | 005251.40 | 000031.60 88 014000.20 D0 | | ST, TDSKRF(TMXX) | | 18000546 |
| 12* | 005252.40 * | 004630.00 80 014000.06 70 | | LF, TMMAX | -GET THE MAX DISK NUMBER POSSIBLE | 18000547 |
| 13* | 005253.40 | 000005.46 85 014000.20 DC | | ST, TMXARC(TMXD) | | 18000548 |
| 14* | 005254.40 | 005262.10 00 | | B, TM1FA | | 18000549 |
| 15* | | | | | 18000550 | |
| 16* | 005255.00 | 000010.75 80 003000.07 70 | T MTRK | CTOC11(BU,3), \$L+.61 | -CHECK FOR MULTIPLE OF 8 | 18000551 |
| 17* | 005256.00 | 005214.74 C2 | | BRZ, TMCK | -YES - RETURN | 18000552 |
| 18* | 005256.40 | 000010.75 80 003000.00 F0 | | CM0000(BU,3), \$L+.61 | -NO ZERO THE TRIVIAL BITS | 18000553 |
| 19* | 005257.40 | 000010.64 80 011000.22 B0 | | M+1(BU,9), \$L+.52 | -ADD ON TO GET NEXT BEGINNING TRACK L | 18000554 |
| 20* | 005260.40 | 005214.50 00 | | B, TMCK | | 18000555 |
| 21* | | | | | 18000556 | |
| 22* | 005261.00 | 000002.61 85 001000.36 F0 | | CM1111(BU,1), TFM0DE+.1(TMXD) | -A DUMMY ONE FOR ALL BUT TAPE | 18000557 |
| 23* | 005262.00 | 000007.13 05 | T M1FA | V+I, TMXC, 7.0 | -STEP THE VF BY A FILE TABLE | 18000558 |
| 24* | | | | | 18000559 | |
| 25* | 005262.40 | 000000.03 01 | T OK | LVI, TMX1, 0.0 | -OK RETURN | 18000560 |
| 26* | 005263.00 | 005444.10 00 | | B, TN2 | | 18000561 |
| 27* | | | | | 18000562 | |
| 28* | | | | | 18000563 | |
| 29* | 005263.40 | 000001.03 01 | T MDSK3 | LVI, TMX1, 1.0 | -ILLEGAL DISK REQ | 18000564 |
| 30* | 005264.00 | 005402.10 00 | | B, TMREJ | -GO TO REJECT JOB | 18000565 |
| 31* | | | | | 18000566 | |
| 32* | | | | LOCATE THE PROPER REEL SLOT FOR ENTRY | 18000567 | |
| 33* | | | | | 18000568 | |
| 34* | 005264.40 | 004630.44 80 030600.23 10 | T M6 | KF, TMREEL | -CHECK FOR A REEL CARD | 18000569 |
| 35* | 005265.40 | 005266.76 C2 | | BAE, TM6C | -OK | 18000570 |
| 36* | 005266.00 * | 005266.04 00 | | BD, \$ | -MCP ERROR, INVALID OP CODE ON CD. | 18000571 |
| 37* | | | | | 18000572 | |
| 38* | 005266.40 | 000010.20 39 | T M6D | LV, TMXG, TFRLLAD(TMXXE) | -GET INITIAL REEL ENTRY | 18000573 |
| 39* | 005267.00 | 000000.26 1A | | LX, TMXGA, 0.0(TMXI) | -TO GET THE REEL COUNT | 18000574 |
| 40* | 005267.40 | 005262.66 4A | | CRZ, TMXGA, TOK | -GET 1ST REEL LOC IF ANY | 18000575 |
| 41* | 005270.00 | 000032.26 30 | | LV, TMXGA, TMXI | -GET FIRST REEL ADDRESS | 18000576 |
| 42* | 005270.40 | 000030.02 30 | T M6A | LV, TMXH, TMXG | -SAVE FOR LAST ENTRY | 18000577 |
| 43* | 005271.00 | 000000.20 18 | | LX, TMXG, 0.0(TMXX) | -LOOK AHEAD ONE SLOT | 18000578 |
| 44* | 005271.40 | 005270.71 40 | | BZXVZ, TM6A | -IF THERE IS AN ENTRY | 18000579 |
| 45* | | | | | 18000580 | |
| 46* | 005272.00 | 005307.23 42 | | BXF, TM6C | -IF A REEL NUMBER IS ENTERED | 18000581 |
| 47* | | | | | 18000582 | |
| 48* | 005272.40 | 000002.00 8B 060000.06 7C | T N6 | CO011, TIREEL(TMXXA) | -GET A REEL NAME FROM BREAKDOWN | 18000583 |
| 49* | 005273.40 | 000000.22 01 | | Z, 0.0(TMXX) | -CLEAR THE REEL SLOT FIRST | 18000584 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-------------|-----------------|--------|---|----------|
| 1* | | | | | | 18000586 |
| 2* | | | | | DETERMINE THE REEL STATUS - EG. FILE PROTECT, SYSTEM | 18000587 |
| 3* | | | | | | 18000588 |
| 4* | 005274.CC | C04631.10 | 80 036600.23 10 | | KF(BU,30,6),TM68L -BYPASS PROTECTION IF SCRATCH | 18000589 |
| 5* | 005275.CC | C05302.76 | C2 | | BAE,TM8AB | 18000590 |
| 6* | 005275.40 | C00000.42 | 81 036000.12 FC | | CM0101,TRENME(TMXH) -INSERT THE NAME | 18000591 |
| 7* | 005276.40 | C04631.02 | 80 006625.23 10 | | KF,TNOP,42 -LOOK FOR A NON-PROTECT | 18000592 |
| 8* | 005277.40 | C05301.36 | C2 | | BAE,TM8 | 18000593 |
| 9* | 005300.CC | C00000.32 | 81 001000.36 FC | | CM1111,TREPR(TMXH) -SET THE REEL PROTECT BIT ON | 18000594 |
| 10* | 005301.00 * | C04630.74 | 80 006622.23 10 | T M8 | KF,TLBL,36 -LOOK FOR A LABELED TAPE | 18000595 |
| 11* | 005302.00 | C05304.36 | C0 | | BZAE,TM8AZ -IF NOT A LABELED TAPE | 18000596 |
| 12* | 005302.40 | C00000.33 | 81 001000.36 FC | T M8AB | CM1111,TRELB(TMXH) -SET THE LABEL BIT TO ONE | 18000597 |
| 13* | 005303.40 | C05306.10 | 00 | | B,TM8A | 18000598 |
| 14* | | | | | | 18000599 |
| 15* | 005304.00 | C00010.02 | 99 | T M8AZ | KV,TMXH,TFRLAD(TMXXE) -CHECK TO SEE IF FIRST REEL ENTRY | 18000600 |
| 16* | 005304.40 | C05306.32 | C0 | | BZXE,TM8A -NO | 18000601 |
| 17* | 005305.00 | C00007.31 | 89 001000.CC FC | | CM0000,TSYSTEM(TMXXE) -RESET SYSTEM BIT | 18000602 |
| 18* | | | | | | 18000603 |
| 19* | 005306.00 | C00000.31 | 81 001000.36 FC | T M8A | CM1111,TRENTY(TMXH) -SET THE ENTRY BIT TO ONE | 18000604 |
| 20* | 005307.00 | C005262.67 | 4A | T M6C | CBZ+,TMXGA,TOK -STEP BREAKDOWN INDEX | 18000605 |
| 21* | 005307.40 | C00000.17 | 31 | | SV,TMXF,0.0(TMXH) -STORE THE SLOT ADDRESS | 18000606 |
| 22* | 005310.00 | C00027.02 | 30 | | LV,TMXH,TMXF -GET NEW SLOT | 18000607 |
| 23* | 005310.40 | C00001.17 | 05 | | V+I,TMXF,1.0 | 18000608 |
| 24* | 005311.00 | C002153.16 | 90 | | KV,TMXF,TBAMCP -IS THE REEL POOL EXCEEDING BOUNDS | 18000609 |
| 25* | 005311.40 | C005272.72 | 42 | | BXL,TN6 -NO | 18000610 |
| 26* | 005312.00 | C00004.03 | 01 | | LVI,TMX1,4.0 -NOTE ERROR - PP EXCEEDING LIMITS | 18000611 |
| 27* | 005312.40 | C005377.10 | C0 | | B,TMREJB | 18000612 |
| 28* | | | | | | 18000613 |
| 29* | | | | | | 18000614 |
| 30* | | | | | INITIAL ENTRY PER PROBLEM PROGRAM | 18000615 |
| 31* | | | | | | 18000616 |
| 32* | | | | | | 18000617 |
| 33* | 005313.00 | C004653.34 | 80 022000.00 FC | T M2 | CM0000(BU,18),TUNXW+0.28 -CLEAR UNIT NAME TABLE COUNTER | 18000618 |
| 34* | 005314.00 | C00000.25 | 1F | | SX,TMXI,0.0(\$15) -SET CONTROL WORD PLUS | 18000619 |
| 35* | | | | | | 18000620 |
| 36* | | | | | RESET THE DISK PARAMETERS | 18000621 |
| 37* | | | | | | 18000622 |
| 38* | 005314.40 | C004736.20 | 10 | | LX,TMXG,TDCLR -LOAD FOR TABLE CLEARING | 18000623 |
| 39* | 005315.00 * | C00000.22 | 08 | T MCLR | Z,0.0(TMXXG) -CLEAR THE ACCUMULATING AREA | 18000624 |
| 40* | 005315.40 | C005315.21 | 48 | | CB+,TMXG,TMCLR | 18000625 |
| 41* | | | | | | 18000626 |
| 42* | 005316.00 | C002157.46 | 80 014000.06 70 | | LF(BU,12),TSYRFT+.6 -RESTORE THE MCP USER AREA | 18000627 |
| 43* | 005317.00 | C004737.05 | 80 014000.20 DC | | ST,TSBDFT | 18000628 |
| 44* | 005320.00 | C002155.40 | 80 022000.CC FC | | CM0000(BU,18),TMAXRF -RESET THE MAX REF TO ZERO | 18000629 |
| 45* | | | | | | 18000630 |
| 46* | 005321.00 | C00000.31 | 8F 005323.34 02 | | BB,.25(\$15),TM2A -IF NOT CVERLAP | 18000631 |
| 47* | 005322.00 | C003315.04 | 10 | | LX,TMXA,TPPRUN -LOAD FOR NEXT JOB TO BE RUN | 18000632 |
| 48* | 005322.40 | C005323.50 | C0 | | B,TM3D | 18000633 |
| 49* | 005323.00 | C003313.04 | 10 | T M2A | LX,TMXA,TPPURF -SET UP FOR NOT OVERLAP JOB | 18000634 |
| 50* | 005323.40 | C00000.47 | 82 005325.34 00 | T M3D | BZB,TLPPEN(TMXXA),TM3E -IF MORE JOBS TO BE RUN | 18000635 |
| 51* | 005324.40 | C005324.44 | C0 | | BD,\$ -MCP ERROR , NO MORE JOBS TO BE RUN | 18000636 |
| 52* | | | | | | 18000637 |
| 53* | | | | | TEST FOR JOB SYNCHRONIZATION | 18000638 |
| 54* | | | | | | 18000639 |
| 55* | 005325.00 | C000001.00 | 82 060000.06 70 | T M3E | LF(BU,48,8),TPNAME(TMXXA) -GET JOB NAME FROM PP REF TBL | 18000640 |
| 56* | 005326.00 | C0077777.00 | 8A 060600.23 10 | | \$KF,TJCNAME(TMXXI) -COMPARE AGAINST JC-4 JOB CARD | 18000641 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 005327 |
|------|-------------|-----------|--------|---------|----------------------------|----------|----------|
| 1* | 005327.00 | 005330.76 | C2 | | BAE, TM3EZ | | 18000642 |
| 2* | 005327.40 | 000002.03 | C1 | | LVI, TMX1, 2.0 | | 18000643 |
| 3* | 005330.00 | 005444.10 | C0 | | B, TN2 | | 18000644 |
| 4* | 005330.40 * | 000022.20 | 10 | T M3EZ | LX, TMXG, TMXA | | 18000645 |
| 5* | 005331.00 | 000000.31 | 8F | | BB, .25(\$15), TM2AM | | 18000646 |
| 6* | 005332.00 | 000002.21 | C7 | | V+ICR, TMXG, 2.0 | | 18000647 |
| 7* | 005332.40 | 003315.21 | 10 | | SX, TMXG, TPRUN | | 18000648 |
| 8* | | | | - | | | 18000649 |
| 9* | 005333.00 | 000000.45 | 82 | T M2AM | BZB, TRJECT(TMXA), TM3A | | 18000650 |
| 10* | 005334.00 | 005334.04 | C0 | | BD, \$ | | 18000651 |
| 11* | 005334.40 | 000000.44 | 82 | T M3A | BZB, TJBPRO(TMXA), TM3C | | 18000652 |
| 12* | 005335.40 | 005335.44 | C0 | | BD, \$ | | 18000653 |
| 13* | | | | - | | | 18000654 |
| 14* | 005336.00 | 000000.00 | 82 | T M3C | L, TCRREF(TMXA), 46 | | 18000655 |
| 15* | 005337.00 | 000000.44 | 82 | | CM1111, TJBPRO(TMXA) | | 18000656 |
| 16* | 005340.00 | 000000.34 | 82 | | CO011, TUNCT(TMXA), 18 | | 18000657 |
| 17* | | | | - | | | 18000658 |
| 18* | 005341.00 | 000011.06 | 10 | | LX, TMXB, \$R | | 18000659 |
| 19* | 005341.40 | 005342.70 | 40 | | BZX CZ, TM3B | | 18000660 |
| 20* | 005342.00 | 005262.50 | C0 | | B, TOK | | 18000661 |
| 21* | | | | - | | | 18000662 |
| 22* | 005342.40 | 000000.46 | 82 | T M3B | BB, TASGNP(TMXA), T SORT | | 18000663 |
| 23* | 005343.40 | 005343.44 | C0 | | BD, \$ | | 18000664 |
| 24* | | | | - | | | 18000665 |
| 25* | | | | - | | | 18000666 |
| 26* | | | | - | | | 18000667 |
| 27* | | | | - | | | 18000668 |
| 28* | | | | - | | | 18000669 |
| 29* | 005344.00 * | 000011.16 | 10 | T SCRT | LX, TMXF, \$R | | 18000670 |
| 30* | 005344.40 | 000000.22 | 88 | T SCRT1 | BZB, TLAST(TMXG), T SORT4 | | 18000671 |
| 31* | 005345.40 | 003373.21 | C1 | | LVI, TMXG, TIOREQ | | 18000672 |
| 32* | 005346.00 | 000027.20 | 10 | T SORT4 | LX, TMXG, TMXF | | 18000673 |
| 33* | 005346.40 | 000000.00 | 87 | | L(BU, 64), C.0(TMXF) | | 18000674 |
| 34* | 005347.40 | 000000.22 | 88 | T SCRT2 | BZB, TLAST(TMXG), T SCRT5 | | 18000675 |
| 35* | 005350.40 | 003373.21 | C1 | | LVI, TMXG, TIOREQ | | 18000676 |
| 36* | 005351.00 | 000000.23 | 88 | T SCRT5 | KF, TIODSQ(TMXG), 36 | | 18000677 |
| 37* | 005352.00 | 005354.77 | 40 | | BZAH, T SORT3 | | 18000678 |
| 38* | 005352.40 | 000000.26 | 18 | | LX, TMXGA, 0.0(TMXG) | | 18000679 |
| 39* | 005353.00 | 000000.00 | 88 | | ST(BU, 64), 0.0(TMXG) | | 18000680 |
| 40* | 005354.00 | 000011.27 | 10 | | SX, TMXGA, \$R | | 18000681 |
| 41* | 005354.40 | 005347.61 | 48 | T SORT3 | CB+, TMXG, T SORT2 | | 18000682 |
| 42* | 005355.00 | 000000.00 | 87 | | ST(BU, 64), 0.0(TMXF) | | 18000683 |
| 43* | 005356.00 | 005344.57 | 48 | | CB+, TMXF, T SORT1 | | 18000684 |
| 44* | | | | - | | | 18000685 |
| 45* | | | | - | | | 18000686 |
| 46* | | | | - | | | 18000687 |
| 47* | | | | - | | | 18000688 |
| 48* | | | | - | | | 18000689 |
| 49* | 005356.40 | 000000.64 | 82 | | LFT, TIODCT(TMXA) | | 18000690 |
| 50* | 005357.40 * | 000000.50 | 82 | | L, TLREFN(TMXA), 46 | | 18000691 |
| 51* | 005360.40 | 002155.40 | 80 | | CM0101(BU, 18), TMAXRF, 46 | | 18000692 |
| 52* | 005361.40 | 002155.00 | 80 | | +(BU, 18), TLIMB, 46 | | 18000693 |
| 53* | 005362.40 | 000011.00 | 80 | | M+1(BU, 18), \$R | | 18000694 |
| 54* | 005363.40 | 000011.12 | 30 | | LV, TMXD, \$R | | 18000695 |
| 55* | 005364.00 | 070000.00 | 80 | | *I+, TFLLGN, 46 | | 18000696 |
| 56* | 005365.00 | 000011.14 | 30 | | LV, TMXE, \$R | | 18000697 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | CC5365 |
|------|-------------|-----------|--------------|---------|------------------------------|---|----------|
| 1* | 005365.40 | 000000.34 | 82 010000.20 | 80 | LFT,TUNCT(TMxA) | -THE NO. OF UNITS REQ TO FACTOR REG | 18000698 |
| 2* | 005366.40 | 110000.00 | 80 406027.23 | 90 | *I+,TUNLGN,46 | -ADD UNIT AREA TBL LENGHT | 18000699 |
| 3* | 005367.40 | 000011.16 | 30 | | LV, TMXF, \$R | -FIRST CELL AVAIL FOR REEL NUMBER | 18000700 |
| 4* | 005370.00 | 002155.00 | 80 022027.30 | 10 | -(BU,18),TLIMB,46 | -REMOVE THE BASE ADDRESS | 18000701 |
| 5* | 005371.00 | 002155.10 | 30 | | LV, TMXC, TLIMB | -FIRST LCC AVAIL FOR SYM I/O LOC TBL | 18000702 |
| 6* | | | | | - | | 18000703 |
| 7* | 005371.40 | 002155.20 | 30 | | LV, TMXG, TLIMB | -PREPARE FOR TABLE ZEROING | 18000704 |
| 8* | 005372.00 | 000011.20 | 50 | | LC, TMXG, \$R | | 18000705 |
| 9* | 005372.40 | 002153.16 | 90 | | KV, TMXF, TBAMCP | -IS THE REEL POOL EXCEEDING BOUNDS | 18000706 |
| 10* | 005373.00 * | 005375.72 | 42 | | BXL, TMIF | -IF WITHIN PP ALLOWED LIMMITS | 18000707 |
| 11* | 005373.40 | 000004.03 | 01 | | LVI, TMX1, 4.0 | -NOTE THE ERROR- OUTSIDE LIMITS | 18000708 |
| 12* | 005374.00 | 002155.40 | 80 022000.00 | FC | CMOC00(BU,18),TMAXRF | | 18000709 |
| 13* | 005375.00 | 005377.10 | 00 | | B, TMREJB | -AND REJECT JOB | 18000710 |
| 14* | 005375.40 | 000000.22 | 08 | T MIF | Z, 0.0(TMxG) | -ZERO THE SLOTS | 18000711 |
| 15* | 005376.00 | 005375.61 | 48 | | CB+, TMXG, TMIF | | 18000712 |
| 16* | | | | | - | | 18000713 |
| 17* | 005376.40 | 005021.50 | 00 | | B, TM1 | -GET THE FIRST CARD | 18000714 |
| 18* | | | | | - | | 18000715 |
| 19* | | | | | - | | 18000716 |
| 20* | | | | | - | THE DISPATCHER TOLD MOVE TO REJECT NEXT JOB | 18000717 |
| 21* | | | | | - | | 18000718 |
| 22* | | | | | - | | 18000719 |
| 23* | | | | | - | | 18000720 |
| 24* | | | | | - | A SPECIAL REJECT WHENTHE PPRUN INDEX HAS BEEN STEPPED | 18000721 |
| 25* | | | | | - | | 18000722 |
| 26* | 005377.00 | 000000.45 | 82 001000.36 | FO | T MREJB CM1111, TRJECT(TMxA) | | 18000723 |
| 27* | 005400.00 | 000000.44 | 82 001000.36 | FO | CM1111, TJBPRO(TMxA) | -SET THE JOB PROCESSED BIT CN | 18000724 |
| 28* | 005401.00 | 000000.07 | 05 | | V+I, TMXB, 0.0 | -TO ACTIVATE IX FOR COUNT CHECK | 18000725 |
| 29* | 005401.40 | 005414.10 | 00 | | B, TMREJS | | 18000726 |
| 30* | | | | | - | | 18000727 |
| 31* | | | | | - | | 18000728 |
| 32* | 005402.00 | 000000.23 | 01 | T MREJ | LVI, TMXEE, 0.0 | | 18000729 |
| 33* | 005402.40 | 000000.31 | 8F 005404.74 | 02 | BB, C.25(\$15), TMREJ8 | -IF NOT OVERLAP | 18000730 |
| 34* | 005403.40 | 003315.04 | 10 | | LX, TMxA, TPPRUN | -GET THE NEXT JOB TO BE RUN | 18000731 |
| 35* | 005404.00 | 005405.10 | 00 | | B, TMREJ7 | | 18000732 |
| 36* | 005404.40 | 003313.04 | 10 | T MREJ8 | LX, TMxA, TPPURF | -SET UP FOR NOT OVERLAP | 18000733 |
| 37* | 005405.00 | 000000.00 | 82 022027.20 | 50 | T MREJ7 L, TCRREF(TMxA), 46 | -I/O REQ TABLE ADDRESS | 18000734 |
| 38* | 005406.00 * | 000000.34 | 82 010011.06 | 70 | LF, TUNCT(TMxA), 18 | -THE NUMBER OF UNITS TO CF | 18000735 |
| 39* | 005407.00 | 000000.44 | 82 001000.36 | FO | CM1111, TJBPRO(TMxA) | -SET THE JOB PROCESSED BIT | 18000736 |
| 40* | 005410.00 | 000000.45 | 82 005412.74 | 0C | BZB1, TRJECT(TMxA), TMREJ6 | -TEST AND SET THE REJECT BIT | 18000737 |
| 41* | 005411.00 | 000011.22 | 00 | | Z, \$R | -CLEAR ACC IF ALREADY REJECTED | 18000738 |
| 42* | 005411.40 | 000000.31 | 8F 005413.74 | 02 | BB, .25(\$15), TMREJS-.32 | -IF BYPASS | 18000739 |
| 43* | 005412.40 | 000002.05 | 07 | T MREJ6 | V+ICR, TMxA, 2.0 | | 18000740 |
| 44* | 005413.00 | 003315.05 | 10 | | SX, TMxA, TPPRUN | -ADVANCE AND SAVE FOR NEXT JOB | 18000741 |
| 45* | 005413.40 | 000011.06 | 10 | | LX, TMXB, \$R | | 18000742 |
| 46* | 005414.00 | 005444.30 | 42 | T MREJS | BXCZ, IN2 | -IF NO REQ TO ZERO | 18000743 |
| 47* | 005414.40 | 000000.56 | 83 022027.20 | 50 | T MREJ1 L, TABSCH(TMxB), 46 | -GET ADDRESS OF CHANNEL | 18000744 |
| 48* | 005415.40 | 005442.34 | C2 | | BRZ, TMREJ3 | | 18000745 |
| 49* | 005416.00 | 000011.20 | 30 | | LV, TMXG, \$R | | 18000746 |
| 50* | 005416.40 | 000000.33 | 88 005437.74 | 00 | BZB, TMULTI(TMxG), TMREJ5 | -IF A NON-MULTI CHANNEL | 18000747 |
| 51* | 005417.40 | 002152.00 | 80 022027.30 | 10 | -(BU,18), TCHSXW, 46 | -COMPUTE THE CHANNEL NUMBER | 18000748 |
| 52* | 005420.40 | 004771.14 | 80 007027.20 | DC | ST(BU,7), TCAI+.12, 46 | | 18000749 |
| 53* | 005421.40 * | 000000.00 | 88 022027.20 | 50 | L, TUNTBA(TMxG), 46 | -GET UNIT TABLE ADDRESS | 18000750 |
| 54* | 005422.40 | 000011.20 | 30 | | LV, TMXG, \$R | | 18000751 |
| 55* | 005423.00 | 000000.07 | 83 003027.20 | 50 | L, TABSUN(TMxB), 46 | -GET THE UNIT NUMBER | 18000752 |
| 56* | 005424.00 | 000011.20 | 80 | | V+, TMXG, \$R | -ADD TO INITIAL UNIT ADDRESS | 18000753 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 005424 | |
|------|-----------|-------------|--------|-----------|-----------|--------------------------------------|-------------------------------------|----------|
| 1* | 005424.40 | 004771.57 | 80 | 003027.20 | D0 | ST(BU,3),TCAT+.47,46 | -STORE THE UNIT NUMBER ALSO | 18000754 |
| 2* | 005425.40 | 000000.34 | 83 | 022027.20 | 50 | L,TFREEL(TMxB),46 | -GET THE FIRST REEL ADDRESS | 18000755 |
| 3* | 005426.40 | 005437.74 | C2 | | | BRZ, TMREJ5 | -IF NONE | 18000756 |
| 4* | 005427.00 | 000011.26 | 30 | | | LV, TMXGA, \$R | | 18000757 |
| 5* | 005427.40 | 000000.22 | 08 | | | Z, 0.0(TMxGA) | -ZERO THE REEL SLOT | 18000758 |
| 6* | 005430.00 | 004771.21 | 02 | | | LCI, TMXG, TCAT | -SET UP THE UNIT STATUS TABLE | 18000759 |
| 7* | 005430.40 | 000000.21 | 58 | | | SC, TMXG, C.0(TMxG) | -WITH THE DUMMY UNIT AREA TBL ADDR. | 18000760 |
| 8* | 005431.00 | 000000.35 | 88 | 001000.00 | FO | CM0000, TUNASG(TMxG) | -AND SET THE UNIT ASSIGNED | 18000761 |
| 9* | 005432.00 | 000000.40 | 88 | 001000.36 | FO | CM1111, TCHOWN(TMxG) | -SET UNIT OWNER TO MCP | 18000762 |
| 10* | 005433.00 | 000000.65 | 88 | 001000.00 | FO | CM0000, SIMNT(TMxG) | -TO RESET THE | 18000763 |
| 11* | 005434.00 | 000000.63 | 88 | 001000.00 | FO | CM0000, SMCUNT(TMxG) | -MOUNT BITS | 18000764 |
| 12* | 005435.00 | 001472.10 | 00 | | | T IPL5 B, DMCP | -GO TO THE D FREE ROUTINE | 18000765 |
| 13* | 005435.40 | * 000000.00 | 80 | | | , DFREE | -AS TO REMOVE THE MOUNTED TAPES | 18000766 |
| 14* | 005436.00 | 000003.00 | 80 | | | , 3. | | 18000767 |
| 15* | 005436.40 | 000000.40 | 88 | 001000.00 | FO | CM0000, TCHOWN(TMxG) | -RESET UNIT OWNER TO PP | 18000768 |
| 16* | 005437.40 | 000000.22 | 03 | | | T MREJ5 Z, 0.0(TMxB) | -ZERO THE I/C REQ SLOT | 18000769 |
| 17* | 005440.00 | 000000.76 | 88 | 005442.34 | 06 | RBZ, TUNRES(TMxG), TMREJ3 | | 18000770 |
| 18* | 005441.00 | 000000.77 | 88 | 001000.00 | FO | CM0000, TOVRES(TMxG) | | 18000771 |
| 19* | 005442.00 | 000001.22 | 83 | 005443.74 | 00 | T MREJ3 BZB, TLAST+1.0(TMxB), TMREJ4 | - TO PREVENT A LOOP | 18000772 |
| 20* | 005443.00 | 003372.47 | 01 | | | LVI, TMxB, TI0REQ-1 | | 18000773 |
| 21* | 005443.40 | 005414.47 | 48 | | | T MREJ4 CB+, TMxB, TMREJ1 | | 18000774 |
| 22* | | | | | | - | | 18000775 |
| 23* | | | | | | - | | 18000776 |
| 24* | | | | | | - | PREPARE FOR RETURN | 18000777 |
| 25* | | | | | | - | | 18000778 |
| 26* | | | | | | - | | 18000779 |
| 27* | 005444.00 | 002162.57 | 30 | | | T N2 SV, TMXF, TMARK | -SAVE THE REEL POOL INDEX | 18000780 |
| 28* | 005444.40 | 000011.03 | 30 | | | SV, TMX1, \$R | -SAVE DISPOSITION | 18000781 |
| 29* | 005445.00 | 004632.17 | 80 | 003036.46 | 70 | LF(BU,3), TERFLG+.15,61 | -GET THE ICD CARD ERROR IF ANY | 18000782 |
| 30* | 005446.00 | 000000.34 | 8F | 022027.20 | D0 | ST(BU,18), 0.28(\$15),46 | | 18000783 |
| 31* | 005447.00 | 000021.00 | 80 | 004633.30 | E0 | SWAPI, 12, \$1, TSIOXW | -RESTORE INDEXES | 18000784 |
| 32* | 005450.00 | 000001.10 | 0F | | | B, 1.00(\$15) | | 18000785 |

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| LINE | LCCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-----------|---|----------|
| 1* | | | | | 18000787 |
| 2* | | | | CONVERSION SUBROUTINE | 18000788 |
| 3* | | | | | 18000789 |
| 4* | | | | | 18000790 |
| 5* | 005450.40 | 000000.30 CC | T MCCNV | NGP | 18000791 |
| 6* | 005451.00 * | 000011.20 80 | | LF(BU,48,6), \$R+.16 -EXPAND TO 8 BIT BYTES. | 18000792 |
| 7* | 005452.00 | 000011.40 80 | | SF(BU,32,4), \$R+.32 -CONTRACT TO 4-BIT BYTES. | 18000793 |
| 8* | 005453.00 | 000011.71 01 | | LVI, LXA, \$R+.32 | 18000794 |
| 9* | 005453.40 | 002601.63 80 | | LF(BU,8,8), LBLZCR, 32 | 18000795 |
| 10* | 005454.40 | 000000.04 8C | L CONVA | KF(BU,4,4)(V+1), .4(LXA), 32 -IS 4-BIT BYTE 1010. | 18000796 |
| 11* | 005455.40 | 005457.37 42 | | BAH, LCONVB - NO---BRANCH | 18000797 |
| 12* | 005456.00 | 777777.74 8C | | \$CMCOCC(BU,4,4), -.4(LXA) - YES --- REPLACE BY 0000. | 18000798 |
| 13* | 005457.00 | 000000.00 8C | L CONVB | KF(BU,4,4), 0.0(LXA), 36 -IS NEXT BYTE 0000. | 18000799 |
| 14* | 005460.00 | 005454.76 C4 | | BZAEZ, LCONVA - NO---GO BACK. | 18000800 |
| 15* | 005460.40 | 000011.71 0D | | V-I, LXA, \$R+.32 -COMPUTE FIELD LENGTH. | 18000801 |
| 16* | 005461.00 | 000034.22 80 | | LF(BU,6,6), LXA+.18, 119 | 18000802 |
| 17* | 005462.00 | 000010.30 30 | | LV, LXA, \$L | 18000803 |
| 18* | 005462.40 | 000011.4C 80 | | LCV(DU,0,4), \$R+.32, 0.0(LXA) -CONVERT. | 18000804 |
| 19* | 005463.40 | 000000.10 01 | | B, 0.0(TMX1) -OUT OF ROUTINE. | 18000805 |
| 20* | 000034.00+ | +00000000 | BU,100,10 | L XA SYN, TMLXA | 18000806 |
| 21* | | | | CNOP | 18000807 |
| 22* | | | | - ADDITIONS MADE TO MAKE ASSIGNMT. COMPATIBLE | 18000808 |
| 23* | 005464.00 | 005464.04 00 | Y BCRD | BD, \$ -UNCODE PATH NOT TO BE TAKEN | 18000809 |
| 24* | 000000.32+ | +00000000 | BU,01 ,10 | STATI SYN(BU,1), .26 | 18000810 |
| 25* | 000000.65+ | +00000000 | BU,01 ,10 | SIMNT SYN(BU,1), .53 | 18000811 |
| 26* | 000000.63+ | +00000000 | BU,01 ,10 | S MCUNT SYN(BU,1), .51 | 18000812 |
| 27* | 000000.00+ | +00000000 | NULL | D FREE SYN, 0 | 18000813 |
| 28* | 005464.40 | 000000.00+ | | YLCL2 VF | 18000814 |
| 29* | 005465.00 * | 000000.00+ | | YLCL1 VF | 18000815 |
| 30* | 002151.10+ | +00000000 | BU,02 ,10 | SYSMCD SYN(BU,2), SCOMRG+.8 -TWO BIT OPERATING MODE | 18000816 |
| 31* | 005465.40 | 017777.00+ | | STERMI VF, ZFINIS -THE LAST LOC USED BY MCP | 18000817 |
| 32* | 017777.00+ | +00000000 | NULL | Z FINIS SYN, (8)17777.0 | 18000818 |
| 33* | 002153.00+ | +00000000 | B ,31 ,01 | S MAXUB SYN, S BA MCP -MAX UB+1 THAT CAN BE USED | 18000819 |
| 34* | 002151.03+ | +00000000 | BU,01 ,10 | SCCRG SYN(BU,1), SCOMRG+.3 -TH+ COMPILE GC BITS | 18000820 |
| 35* | | | | CNOP | 18000821 |
| 36* | 005466.00+ | +00000000 | NULL | X IN END SYN, \$ | 18000822 |
| 37* | | | | UNTAIL, (2) | 18000823 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-----------|---|---|
| 1* | | | | IBM 7030 MASTER CONTROL PROGRAM | |
| 2* | | | - | INTERNATIONAL BUSINESS MACHINES CORP. | AA000002 |
| 3* | | | - | DEPT. 271, BLDG. 705 | AA000003 |
| 4* | | | - | POUGHKEEPSIE, N.Y. | AA000004 |
| 5* | | | - | MARCH 15, 1963 | AA000005 |
| 6* | | | - | | AA000006 |
| 7* | | | | PRNS | AA000007 |
| 8* | | | | PUNFUL | BA000001 |
| 9* | 005466.00 | | | (CC*)DD(BU,,12),B HED, REP, 11D11MCP, LOAD,, * | BA000002 |
| 10* | 005476.34 * | | | (CC*)DD(BU,,12), 11D11MCP* | BA000003 |
| 11* | 215000.00 | | | SLC,(8)215000. - 80K | BA000004 |
| 12* | | | | PUNCRG | BA000005 |
| 13* | | | | PUNID,11D11MCP | BA000006 |
| 14* | | | | RESEQ | BA000007 |
| 15* | | | - | ***** | BA000008 |
| 16* | | | - | ***** CHANNEL-UNIT STATUS TABLE DEFINITIONS ***** | BA000009 |
| 17* | | | - | ***** | BA000010 |
| 18* | | | | | BA000011 |
| 19* | 000000.00+ | +00000000 | BU,31 ,10 | S UN A A SYN(BU,25), 0.0 | -UNIT AREA TABLE FIELD BA000012 |
| 20* | 000000.00+ | +00000000 | BU,31 ,10 | S UN A SYN, S UN A A | -UNIT AREA TABLE FIELD BA000013 |
| 21* | 000000.31+ | +00000000 | BU,01 ,10 | S CH AVL SYN(BU,1),0.25 | -CHANNEL AVAILABILITY, CHANNEL STATUS BA000014 |
| 22* | 000000.32+ | +00000000 | BU,01 ,10 | S CH OP SYN(BU,1), 0.26 | -CHAN OPERATING, CHAN STATUS BA000015 |
| 23* | 000000.32+ | +00000000 | BU,01 ,10 | STATI SYN(BU,1),.26 | -TYPE OF TAPE MTD. 0 SCRATCH 1 SPECIF BA000016 |
| 24* | 000000.33+ | +00000000 | BU,01 ,10 | S MULTI SYN(BU,1), 0.27 | -MULTI-UNIT CHAN, CHAN STATUS BA000017 |
| 25* | 000000.33+ | +00000000 | BU,01 ,10 | S DISP 0 SYN(BU,1),.27 | -UST REEL TUPE BA000018 |
| 26* | 000000.34+ | +00000000 | BU,01 ,10 | S UN AVL SYN(BU,1), 0.28 | -UNIT AVAILABILITY, UNIT STATUS BA000019 |
| 27* | 000000.35+ | +00000000 | BU,01 ,10 | S UN ASG SYN(BU,1), 0.29 | -UNIT ASSIGNMENT, UNIT STATUS BA000020 |
| 28* | 000000.36+ | +00000000 | BU,01 ,10 | S UN SUP SYN(BU,1), 0.30 | -UNIT SUPPRESSION, UNIT STATUS BA000021 |
| 29* | 000000.37+ | +00000000 | BU,01 ,10 | S SET UP SYN(BU,1), 0.31 | -PSEUDO-CP SET-UP, UNIT STATUS BA000022 |
| 30* | 000000.40+ | +00000000 | BU,01 ,10 | S CWRN SYN(BU,1), 0.32 | -PRIORITY LEVEL, OWNERSHIP BA000023 |
| 31* | 000000.41+ | +00000000 | BU,01 ,10 | S SETDN SYN(BU,1),0.33 | -ORIGINAL DENSITY SET INDICATOR BA000024 |
| 32* | 000000.47+ | +00000000 | BU,01 ,10 | S SEL SYN(BU,1), 0.39 | -SELECT FILE STATUS BA000025 |
| 33* | 000000.50+ | +00000000 | BU,01 ,10 | S VER SYN(BU,1), 0.40 | -VERIFY FILE STATUS BA000026 |
| 34* | 000000.56+ | +00000000 | BU,01 ,10 | S SEOP SYN(BU,1), 0.46 | -SUPP END OF CP STATUS BA000027 |
| 35* | 000000.57+ | +00000000 | BU,01 ,10 | S CNS SG SYN(BU,1), 0.47 | -CONSOLE SIGNAL, FILE STATUS BA000028 |
| 36* | 000000.61+ | +00000000 | BU,01 ,10 | S U DENS SYN(BU,1),.49 | -CURRENT DENSITY OF UNIT BA000029 |
| 37* | 000000.62+ | +00000000 | BU,02 ,10 | S C MODE SYN(BU,2), 0.50 | -CHANNEL MODE BA000030 |
| 38* | 000000.64+ | +00000000 | BU,04 ,10 | S EQUIP SYN(BU,4), 0.52 | -EQUIPMENT BA000031 |
| 39* | 000000.70+ | +00000000 | BU,03 ,10 | S UNIT SYN(BU,3), 0.56 | -UNIT (MULTI UNIT CHANNEL ONLY) BA000032 |
| 40* | 000000.73+ | +00000000 | BU,04 ,10 | S UNIT K SYN(BU,4),0.59 | -UNIT COUNT(MULTI UNIT CHANNEL ONLY) BA000033 |
| 41* | 000000.62+ | +00000000 | BU,01 ,10 | S ELG SYN(BU,1), 0.50 | -ERASE LONG GAP BA000034 |
| 42* | 000000.63+ | +00000000 | BU,01 ,10 | S MCUNT SYN(BU,1), 0.51 | -MOUNT TAPE BA000035 |
| 43* | 000000.64+ | +00000000 | BU,01 ,10 | S REW SYN(BU,1), 0.52 | -REWIND TAPE BA000036 |
| 44* | 000000.65+ | +00000000 | BU,01 ,10 | S I MNT SYN(BU,1),.53 | -INITIAL MCUNTING OF REEL BA000037 |
| 45* | 000000.71+ | +00000000 | BU,01 ,10 | S RD SYN(BU,1), 0.57 | -READ, OPERATION STATUS BA000038 |
| 46* | 000000.72+ | +00000000 | BU,01 ,10 | S WR SYN(BU,1), 0.58 | -WRITE, OPERATION STATUS BA000039 |
| 47* | 000000.73+ | +00000000 | BU,01 ,10 | S SPACE SYN(BU,1), 0.59 | -SPACE FILE STATUS BA000040 |
| 48* | 000000.74+ | +00000000 | BU,01 ,10 | S CTL SYN(BU,1),.60 | -CONTROL - OPERATION STATUS BA000041 |
| 49* | 000000.75+ | +00000000 | BU,01 ,10 | S REL SYN(BU,1),.61 | -RELEASE - OPERATION STATUS BA000042 |
| 50* | 000000.76+ | +00000000 | BU,01 ,10 | SUNRES SYN(BU,1),.62 | -NOT OVERLAP RESERVED BIT BA000043 |
| 51* | 000000.77+ | +00000000 | BU,01 ,10 | S CVRES SYN(BU,1),0.63 | -OVERLAPPED RESERVE INDICATOR BA000044 |
| 52* | 000000.40+ | +00000000 | BU,22 ,10 | S ARC AD SYN(BU,18), 0.32 | -ARC ADDRESS (DISK) BA000045 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|----------|---------------|------------------|---------------------------|----------|
| 1* | | | | | BD000001 |
| 2* | | | | ***** MCP IOD CARDS ***** | BD000002 |
| 3* | | | | | BD000003 |
| 4* | | | | | BD000004 |
| 5* | | | PROSA SYN, 1.C | -DISK FETCH PROSA | BD000005 |
| 6* | | | U NUSE1SYN, 2.0 | -NOT USED | BD000006 |
| 7* | | | UNAGN3 SYN, 3.0 | -RESERVED FOR UNASSIGN | BD000007 |
| 8* | | | VRTP SYN, 4. | -INPUT ROUTINE READ TAPE | BD000008 |
| 9* | | | VCRD SYN, 5. | -INPUT ROUTINE READ CARD | BD000009 |
| 10* | | | VWTP SYN, 6. | -INPUT ROUTINE WRITE TAPE | BD000010 |
| 11* | | | UNUSE2SYN, 7.0 | -NOT USED | BD000011 |
| 12* | | | JCID SYN, 8.0 | -COMMAND CONSOLE IOD | BD000012 |
| 13* | | | UNAGN9SYN, 9.0 | -RESERVED FOR UNASSIGN | BD000013 |
| 14* | | | PCDEF2 SYN, 10.0 | -DEBUGGER CONSOLE IOD | BD000014 |
| 15* | | | CT11 SYN, 11.0 | -OUTPUT SPOOL TAPE 1 | BD000015 |
| 16* | | | C T21 SYN, 12.0 | -OUTPUT SPOOL TAPE 2 | BD000016 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|-----------|---|----------------------------------|
| 1* | | | - | ***** | BF000001 |
| 2* | | | | -***** UNIT AREA TABLE DEFINITIONS *****- | BF000002 |
| 3* | | | - | ***** | BF000003 |
| 4* | | | - | | BF000004 |
| 5* | 000000.14+ | +00000000 | BU,07 ,10 | S CHAN N SYN(BU,7),0.12 | -CHANNEL NUMBER |
| 6* | 000000.57+ | +00000000 | BU,03 ,10 | S UNIT N SYN(BU,3),0.47 | -UNIT NUMBER |
| 7* | 000001.06+ | +00000000 | BU,14 ,10 | S IODK SYN(BU,12),1.06 | -NUMBER OF IOD CARDS FOR UNIT |
| 8* | 000001.40+ | +00000000 | BU,32 ,10 | S RMTC SYN(BU,26),1.32 | -REMINDER MESSAGE TIME CONSTANT |
| 9* | 000001.76+ | +00000000 | BU,01 ,10 | SUUNAS SYN(BU,1),1.62 | -UNIT ALREADY UNASSIGNED IF EQ 1 |
| 10* | 000001.77+ | +00000000 | BU,01 ,10 | SRMIND SYN(BU,1),1.63 | -REMINDER MESSAGE INDICATOR |
| 11* | 000002.00+ | +00000000 | BU,23 ,10 | S EVL TB SYN(BU,19),2.0 | - EVALUATION TABLE BASE ADDRESS |
| 12* | 000002.40+ | +00000000 | BU,23 ,10 | S EVL MK SYN(BU,19),2.32 | - EVALUATION MASK ADDRESS |
| 13* | 000003.00+ | +00000000 | BU,22 ,10 | S FI AAC SYN(BU,18),3.0 | -FILE AREA ACTIVATED ADDRESS |
| 14* | 000003.40+ | +00000000 | BU,22 ,10 | S CW ADR SYN(BU,18),3.32 | -CONTROL WORD ADDRESS |
| 15* | 000003.74+ | +00000000 | BU,01 ,10 | S RETRY SYN(BU,1),3.60 | -I/O RETRY INDICATOR |
| 16* | 000003.75+ | +00000000 | BU,01 ,10 | S REMNT SYN(BU,1),3.61 | -AWAITING CORRECT REEL |
| 17* | 000004.00+ | +00000000 | BU,100,10 | S IO INS SYN(BU,64),4.0 | -IO INSTR. LAST EXECUTED |
| 18* | 000005.00+ | +00000000 | BU,23 ,10 | S RET AD SYN(BU,19),5.0 | -RETURN ADDRESS IN MCP |
| 19* | 000005.52+ | +00000000 | BU,10 ,10 | S CTL OP SYN(BU,8),5.42 | -OCTAL CONTROL OP CODE |
| 20* | 000006.00+ | +00000000 | BU,100,10 | S SCR PM SYN(BU,64),6.0 | -SCRATCH PAD MEMCRY |
| 21* | | | | | -ENTRIES FOR TAPE ONLY |
| 22* | 000007.20+ | +00000000 | BU,02 ,10 | S LAB M SYN(BU,2),7.16 | -MODE SPECIFIED IN LABEL |
| 23* | 000007.31+ | +00000000 | BU,01 ,10 | S SYSTM SYN(BU,1),7.25 | -SYSTEM TAPE FLAG |
| 24* | 000007.35+ | +00000000 | BU,01 ,10 | S LAB D SYN(BU,1),7.29 | -DENSITY SPECIFIED IN LABEL |
| 25* | 000007.46+ | +00000000 | BU,14 ,10 | S FILE K SYN(BU,12),7.38 | -FILE COUNT |
| 26* | 000010.00+ | +00000000 | BU,22 ,10 | S FREEL SYN(BU,18), 8.0 | -FIRST REEL ADDRESS |
| 27* | 000010.71+ | +00000000 | BU,07 ,10 | S REEL K SYN(BU,7), 8.57 | -CURRENT REEL COUNT |
| 28* | 000010.40+ | +00000000 | BU,22 ,10 | S C REEL SYN(BU,18),8.32 | -CURRENT REEL ADDRESS |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|-----------|---|--|
| 1* | | | - | ***** | BH000001 |
| 2* | | | | -***** FILE AREA TABLE DEFINITIONS *****- | BH000002 |
| 3* | | | - | ***** | BH000003 |
| 4* | | | - | | BH000004 |
| 5* | 000000.40+ | +00000000 | BU,23 ,10 | S ACT AD SYN (BU,19), 0.32 | -ACTUATED ADDRESS BH000005 |
| 6* | 000000.00+ | +00000000 | BU,22 ,10 | S IOD RN SYN(BU,18), 0.0 | -IOD REFERENCE NUMBER BH000006 |
| 7* | 000001.11+ | +00000000 | BU,05 ,10 | S IO IND SYN (BU,5), 1.09 | -IO INDICATORS BH000007 |
| 8* | 000001.40+ | +00000000 | BU,23 ,10 | S INT AD SYN(BU,19), 1.32 | -INTERRUPTED ADDRESS BH000008 |
| 9* | 000001.71+ | +00000000 | BU,01 ,10 | SLWAIL SYN(BU,1),1.57 | -LOOP BIT FOR \$WAIT BH000009 |
| 10* | | | | - S REELDSYN(BU,3),2.29 | -REEL DISPOSITION BH000010 |
| 11* | 000002.00+ | +00000000 | BU,22 ,10 | S TCE LG SYN (BU,18),2.0 | -TABLE OF EXITS LOCATION BH000011 |
| 12* | 000002.33+ | +00000000 | BU,02 ,10 | S F DEN SYN(BU,2),2.27 | -IOD DENSITY*01-HI,11-LC,00=NULL BH000012 |
| 13* | 000002.60+ | +00000000 | BU,02 ,10 | S F MODE SYN(BU,2), 2.48 | -FILE MODE BH000013 |
| 14* | 000003.00+ | +00000000 | BU,100,10 | S CW SYN(BU,64), 3.0 | -CONTROL WORD BH000014 |
| 15* | 000004.00+ | +00000000 | BU,100,10 | S CCW SYN (BU,64), 4.0 | -COPIED CONTROL WORD BH000015 |
| 16* | | | | -ENTRIES FOR DISK ONLY | BH000016 |
| 17* | 000005.00+ | +00000000 | BU,22 ,10 | S OR ARC SYN(BU,18),5.00 - ORIGINAL ARC | BH000017 |
| 18* | 000005.40+ | +00000000 | BU,22 ,10 | S MX ARC SYN(BU,18),5.32 - MAXIMUM ARC | BH000018 |
| 19* | 000006.00+ | +00000000 | BU,22 ,10 | S CU ARC SYN(BU,18),6.00 -CURRENT ARC | BH000019 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|--|----------|
| 1* | | | - | ***** | CA000001 |
| 2* | | | - | ***** THE COMMUNICATION REGION FOR MCP ***** | CA000002 |
| 3* | | | - | ***** | CA000003 |
| 4* | | | - | THE FOLLOWING UP TO SIPL + 1.0 SHALL NOT BE MODIFIED UNDER ANY | CA000004 |
| 5* | | | - | CIRCUMSTANCE WITHOUT THE CONSENT OF THE IPL MAINTAINER..... | CA000005 |
| 6* | 215000.00 | 215000.00+ | SMCP | VF,SMCP -BASE ADDRESS OF MCP | CA000006 |
| 7* | 215000.40 | 000016.00+ | S COMSZ | VF,SENDCM-SMCP -SIZE OF COMMUNICATION REGION | CA000007 |
| 8* | 215001.00 | 520000.00+ 000 000000 000000 | SCCMRG | XW,(8)520000. | CA000008 |
| 9* | | | - | 19 BITS DEFINED FOR SCMRG ARE BELOW. | CA000009 |
| 10* | 215001.00+ | +00000000 | BU,01 ,10 | S E SYN(BU,1), S COM RG | CA000010 |
| 11* | 215001.01+ | +00000000 | BU,01 ,10 | S HS ECH SYN(BU,1),S COM RG+.1 -HS ECH OPERATION BIT | CA000011 |
| 12* | 215001.02+ | +00000000 | BU,01 ,10 | S CNF CG SYN(BU,1),S COMRG+.2 -CONFIGURATION CHANGE FLAG | CA000012 |
| 13* | 215001.03+ | +00000000 | BU,01 ,10 | S CORG SYN(BU,1), S COM RG + 0.03 -COMPILE OR GO BIT | CA000013 |
| 14* | 215001.04+ | +00000000 | BU,01 ,10 | S L SYN(BU,1), S COM RG + 0.04 -LEVEL OF INSTRUCTION COUNTER | CA000014 |
| 15* | 215001.05+ | +00000000 | BU,01 ,10 | S M SYN(BU,1),S COM RG+C.05 -LEVEL OF INTERRUPT | CA000015 |
| 16* | 215001.06+ | +00000000 | BU,01 ,10 | S P INCL SYN(BU,1),S COMRG+.6 | CA000016 |
| 17* | 215001.07+ | +00000000 | BU,01 ,10 | S CS INT SYN(BU,1),S COM RG.7 | CA000017 |
| 18* | 215001.10+ | +00000000 | BU,02 ,10 | SYSMOD SYN(BU,2),SCMRG+.8 -TWO-BIT OPERATING MODE | CA000018 |
| 19* | 215001.12+ | +00000000 | BU,01 ,10 | S TRAN B SYN(BU,1),S COM RG+.10 | CA000019 |
| 20* | 215001.13+ | +00000000 | BU,01 ,10 | SSPFIX SYN(BU,1),SCMRG+.11 -ON IF PP IN SPECIAL FIXUP | CA000020 |
| 21* | 215001.14+ | +00000000 | BU,01 ,10 | STSBIT SYN(BU,1),SCMRG+.12 -ON IF TS STACKED FOR PP | CA000021 |
| 22* | 215001.15+ | +00000000 | BU,01 ,10 | SPPBT1 SYN(BU,1),SCMRG+.13 -3BITS FOR TRANSITION COMMANDS | CA000022 |
| 23* | 215001.16+ | +00000000 | BU,01 ,10 | SPPBT2 SYN(BU,1),SCMRG+.14 | CA000023 |
| 24* | 215001.17+ | +00000000 | BU,01 ,10 | SPPBT3 SYN(BU,1),SCMRG+.15 | CA000024 |
| 25* | 215001.20+ | +00000000 | BU,01 ,10 | SJ1FUL SYN(BU,1),SCMRG.16 -EQUALS ONE WHEN JCI TABLES ARE FULL | CA000025 |
| 26* | 215001.21+ | +00000000 | BU,01 ,10 | SLCCSU SYN(BU,1),SCMRG.17 -ON WHEN DISK IN SETUP | CA000026 |
| 27* | 215001.22+ | +00000000 | BU,01 ,10 | S JBUSY SYN(BU,1),SCMRG.18 | CA000027 |
| 28* | 215002.00 | 000000.00+ 000 000000 000000 | SXCHAN | XW,C -BASE ADDRESS OF CHANNEL STATUS TBLE. | CA000028 |
| 29* | 215002.34+ | +00000000 | BU,22 ,10 | S CHAN K SYN(BU,18),S X CHAN+.28 -NUMBER OF CHANNELS CONNECTED | CA000029 |
| 30* | 215002.00+ | +00000000 | BU,100,10 | S CHANS SYN,SXCFAN | CA000030 |
| 31* | 215003.00 | 215000.00+ | | SBAMCP VF,SMCP | CA000031 |
| 32* | 215003.40 | 000004.00+ | | SRTAPE VF,VRTP | CA000032 |
| 33* | 215004.00 | 000006.00+ | | SWTAPE VF,VWTP | CA000033 |
| 34* | 215004.40 | 000005.00+ | | S READR VF,VCRD -INPUT SPOOL READER REF NO. | CA000034 |
| 35* | 215005.00 | 000000.00+ | | S BAPP VF,0 -BASE ADDRESS OF THE PP I/O LCC TBL | CA000035 |
| 36* | 215005.40 | 000000.00+ | | S MAXRN VF,0 -THE MAX. REF. NUMBER FOR A PP | CA000036 |
| 37* | 215006.00 | 000023.40+ | | S YCOCH VF,(8)23.40 -CONSOLE CHANNEL NUMBER | CA000037 |
| 38* | 215006.40 | 000022.40+ | | S YPRCH VF,(8)22.40 -PRINTER CHANNEL NUMBER | CA000038 |
| 39* | 215007.00 | 000000.00+ | | S DKMCP VF,0 -MCP RESET TRACK FOR DISK | CA000039 |
| 40* | 215007.40 | 000000.00+ | | S SYRFT VF,0 -VARIABLE POINTER FOR PP DISK ASSIGN | CA000040 |
| 41* | 215010.00 | 215570.00+ | | S PR IN VF,SPRIME -ENTRY TO THE PRIME ROUTINE | CA000041 |
| 42* | 215010.40 | 215571.00+ | | S PROUT VF,SPRIMR -SAVED ADDRESS OF JOES PRIME ROUTINE | CA000042 |
| 43* | 215011.00 | 217452.04 00 | | SIFDMP BD,SDISIC+.32 | CA000043 |
| 44* | 215011.40 | 000000.00+ | | S REJJB VF,0 -THE NUMBER OF JOBS TO REJECT | CA000044 |
| 45* | 215012.00 | 000000.00+ | | S ROOF VF,0 | CA000045 |
| 46* | 215012.40 | 000000.00+ | | S MARK VF -THE NEXT VACANT REEL SLOT FOR PP | CA000046 |
| 47* | 215013.00 | 215023.00+ | | S IA VF,SIT -INTERRUPT TABLE ADDRESS | CA000047 |
| 48* | 215013.40 * | 000000.30 00 | | CNOP | CA000048 |
| 49* | 215014.00 | | | S DATE (AX)DD(BU),03/15/63X - FOR DATE OF IPL TAPE TO SPOOL | CA000049 |
| 50* | 215015.00 | | | STODAY (AX)DD(BU), / /63X -FOR DATE OF JOBS ON SPOOL TAPE | CA000050 |
| 51* | 215016.00+ | +00000000 | NULL | S ENDCM SYN,\$ -END OF COMMUNICATION REGION | CA000051 |
| 52* | | | | -IPL TENTACLE TABLE | CA000052 |
| 53* | 215016.00 | 020000.00 00 000000.00 00 | | S IPL IN INDMK,4 -USERBIT MCP | CA000053 |
| 54* | 215017.00 | 000000000000000000000000 | | DD(BU),C | CA000054 |
| 55* | 215020.00 | 000042.00+ | | SJCTWS VF,(8)42.C - TWS FOR JC | CA000055 |
| 56* | 215020.40 | 236464.00+ | | STERMI VF,ZFINIS -LAST MCP SLOT | CA000056 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|-----------|----------------------------|----------|
| 1* | | | | - | | CB000001 |
| 2* | | | | - | ***** | CB000002 |
| 3* | | | | - | ***** MCP PSEUDO OPS ***** | CB000003 |
| 4* | | | | - | ***** | CB000004 |
| 5* | | | | - | | CB000005 |
| 6* | 215020.71 * | | | | SLC,\$ | CB000006 |
| 7* | 000001.00+ | +00000000 | NULL | D RD | SYN,1.0 | CB000007 |
| 8* | 000001.01+ | +00000000 | NULL | D RD S | SYN,1.01 | CB000008 |
| 9* | 000001.40+ | +00000000 | NULL | D W | SYN,1.32 | CB000009 |
| 10* | 000001.41+ | +00000000 | NULL | D W S | SYN,1.33 | CB000010 |
| 11* | 000002.00+ | +00000000 | NULL | D CCW | SYN,2.0 | CB000011 |
| 12* | 000002.40+ | +00000000 | NULL | D REL | SYN,2.32 | CB000012 |
| 13* | | | | - D RELS | SYN,2.33 | CB000013 |
| 14* | 000003.00+ | +00000000 | NULL | D LOC | SYN,3.0 | CB000014 |
| 15* | 000003.01+ | +00000000 | NULL | D LOC S | SYN,3.01 | CB000015 |
| 16* | | | | - D FC | SYN,3.32 | CB000016 |
| 17* | | | | - D FCS | SYN,3.33 | CB000017 |
| 18* | | | | - D TIF | SYN,4.0 | CB000018 |
| 19* | | | | - D TIFS | SYN,4.01 | CB000019 |
| 20* | | | | - D TIN | SYN,4.32 | CB000020 |
| 21* | | | | - D TINS | SYN,4.33 | CB000021 |
| 22* | | | | - D ERG | SYN,5.0 | CB000022 |
| 23* | 000005.01+ | +00000000 | NULL | D ERG S | SYN,5.01 | CB000023 |
| 24* | 000005.40+ | +00000000 | NULL | D SP | SYN,5.32 | CB000024 |
| 25* | | | | - D SPS | SYN,5.33 | CB000025 |
| 26* | 000006.00+ | +00000000 | NULL | D BSP | SYN,6.0 | CB000026 |
| 27* | | | | - D BSPS | SYN,6.01 | CB000027 |
| 28* | 000006.40+ | +00000000 | NULL | D SPFL | SYN,6.32 | CB000028 |
| 29* | | | | - DSPFLS | SYN,6.33 | CB000029 |
| 30* | 000007.00+ | +00000000 | NULL | D BSFL | SYN,7.0 | CB000030 |
| 31* | | | | - D BSFLS | SYN,7.01 | CB000031 |
| 32* | 000007.40+ | +00000000 | NULL | D WEF | SYN,7.32 | CB000032 |
| 33* | | | | - D WEFS | SYN,7.33 | CB000033 |
| 34* | 000010.00+ | +00000000 | NULL | D REW | SYN,8.0 | CB000034 |
| 35* | | | | - D REWS | SYN,8.01 | CB000035 |
| 36* | 000010.40+ | +00000000 | NULL | D UNLD | SYN,8.32 | CB000036 |
| 37* | | | | - D UNLDS | SYN,8.33 | CB000037 |
| 38* | | | | - D RLF | SYN,9.0 | CB000038 |
| 39* | 000011.01+ | +00000000 | NULL | D RLF S | SYN,9.01 | CB000039 |
| 40* | | | | - D RLN | SYN,9.32 | CB000040 |
| 41* | 000011.41+ | +00000000 | NULL | D RLN S | SYN,9.33 | CB000041 |
| 42* | 000012.00+ | +00000000 | NULL | D KLN | SYN,10.0 | CB000042 |
| 43* | 000012.01+ | +00000000 | NULL | D KLN S | SYN,10.01 | CB000043 |
| 44* | 000012.40+ | +00000000 | NULL | D FREE | SYN,10.32 | CB000044 |
| 45* | | | | - D GONG | SYN,11.0 | CB000045 |
| 46* | | | | - C GONGS | SYN,11.01 | CB000046 |
| 47* | 000013.40+ | +00000000 | NULL | D WAIT | SYN,11.32 | CB000047 |
| 48* | 000014.00+ | +00000000 | NULL | D CHEX | SYN,12.0 | CB000048 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 000014 |
|------|------------|---------------|------|--|----------|----------|
| 1* | 000014.40+ | +00000000 | NULL | S FREE SYN,12.32 | | CB000050 |
| 2* | 000015.00+ | +00000000 | NULL | DICDEF SYN,13.0 | | CB000051 |
| 3* | | | | -DHD SYN,14.0 | | CB000052 |
| 4* | | | | -DHDS SYN,14.01 | | CB000053 |
| 5* | | | | -CLD SYN,14.32 | | CB000054 |
| 6* | | | | -CLDS SYN,14.33 | | CB000055 |
| 7* | | | | -DEVEN SYN,15.0 | | CB000056 |
| 8* | | | | -DEVENS SYN,15.01 | | CB000057 |
| 9* | | | | -DODD SYN,15.32 | | CB000058 |
| 10* | | | | -DODDS SYN,15.33 | | CB000059 |
| 11* | | | | -DECC SYN,16.0 | | CB000060 |
| 12* | | | | -DECCS SYN,16.01 | | CB000061 |
| 13* | | | | -DNOECC SYN,16.32 | | CB000062 |
| 14* | | | | -DNOECCS SYN,16.33 | | CB000063 |
| 15* | 000040.00+ | +00000000 | NULL | D SID SYN,32.0 | | CB000064 |
| 16* | 000040.40+ | +00000000 | NULL | D RIC SYN,32.32 | | CB000065 |
| 17* | 000041.00+ | +00000000 | NULL | D RET SYN,33.0 | | CB000066 |
| 18* | 000041.00+ | +00000000 | NULL | S D RET SYN,D RET | | CB000067 |
| 19* | | | | - D RAM SYN,33.32 | | CB000068 |
| 20* | | | | - DSTRG SYN,34.0 | | CB000069 |
| 21* | | | | - D FEGRG SYN,34.32 | | CB000070 |
| 22* | 000043.00+ | +00000000 | NULL | D TIME SYN,35.0 | | CB000071 |
| 23* | 000043.40+ | +00000000 | NULL | D CCMM SYN,35.32 | | CB000072 |
| 24* | 000044.00+ | +00000000 | NULL | DSIT SYN,36.0 | | CB000073 |
| 25* | | | | -DFIXUP SYN,36.32 | | CB000074 |
| 26* | | | | -DSTLR SYN,37.0 | | CB000075 |
| 27* | | | | -DFELR SYN,37.32 | | CB000076 |
| 28* | | | | - | | CB000077 |
| 29* | | | | - ***** PSEUDO-OPS WITH TENTACLES ***** | | CB000078 |
| 30* | | | | - | | CB000079 |
| 31* | 000100.00+ | +00000000 | NULL | D DUMP SYN,64.0 | | CB000080 |
| 32* | | | | - D EDUMPSYN,64.32 | | CB000081 |
| 33* | 000101.00+ | +00000000 | NULL | D EDJ SYN,65.0 | | CB000082 |
| 34* | 000101.40+ | +00000000 | NULL | D HOLD SYN,65.32 | | CB000083 |
| 35* | 000102.00+ | +00000000 | NULL | DRESLD SYN,66.0 | | CB000084 |
| 36* | 000102.40+ | +00000000 | NULL | D FETCH SYN,66.32 | | CB000085 |
| 37* | | | | - D SPU SYN,67.0 | | CB000086 |
| 38* | 000103.40+ | +00000000 | NULL | D SPR SYN,67.32 | | CB000087 |
| 39* | 000104.00+ | +00000000 | NULL | D ABEDJ SYN,68.0 | | CB000088 |
| 40* | 000104.40+ | +00000000 | NULL | D SCR SYN,68.32 | | CB000089 |
| 41* | | | | - | | CB000090 |
| 42* | | | | - ***** RESERVED FOR FUTURE MCP USE ***** | | CB000091 |
| 43* | | | | - | | CB000092 |
| 44* | | | | \$SYN,69.0 | | CB000093 |
| 45* | | | | \$SYN,69.32 | | CB000094 |
| 46* | | | | \$SYN,70.0 | | CB000095 |
| 47* | | | | \$SYN,70.32 | | CB000096 |
| 48* | | | | \$SYN,71.0 | | CB000097 |
| 49* | | | | \$SYN,71.32 | | CB000098 |
| 50* | | | | \$SYN,72.0 | | CB000099 |
| 51* | | | | \$SYN,72.32 | | CB000100 |
| 52* | | | | \$SYN,73.0 | | CB000101 |
| 53* | | | | \$SYN,73.32 | | CB000102 |
| 54* | | | | - | | CB000103 |
| 55* | | | | - ***** RESERVED FOR INSTALLATION PSEUDO OPS ***** | | CB000104 |
| 56* | | | | - | | CB000105 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|--------------|-------------------------------------|----------|
| 1* | | | | \$SYN,74.0 | CB000106 |
| 2* | | | | \$SYN,74.32 | CB000107 |
| 3* | | | | \$SYN,75.0 | CB000108 |
| 4* | | | | \$SYN,75.32 | CB000109 |
| 5* | | | | \$SYN,76.0 | CB000110 |
| 6* | | | - | ***** SPECIAL MCP PSEUDO OPS ***** | CB000111 |
| 7* | | | - | | CB000112 |
| 8* | 000114.40+ | +00000000 | NULL | SJC1 SYN,76.32 | CB000113 |
| 9* | 000115.00+ | +00000000 | NULL | SCUTPT SYN,77.0 | CB000114 |
| 10* | 000115.40+ | +00000000 | NULL | SSPECJ SYN,77.32 | CB000115 |
| 11* | 000116.00+ | +00000000 | NULL | SDDT SYN,78.0 | CB000116 |
| 12* | 000116.40+ | +00000000 | NULL | SJC4 SYN,78.32 | CB000117 |
| 13* | 000117.00+ | +00000000 | NULL | SSCR4 SYN,79.0 | CB000118 |
| 14* | 000117.40+ | +00000000 | NULL | SKCM SYN,79.32 | CB000119 |
| 15* | 000120.00+ | +00000000 | NULL | SCCMD SYN,80.0 | CB000120 |
| 16* | 000120.40+ | +00000000 | NULL | SLCG4 SYN,80.32 | CB000121 |
| 17* | 000121.00+ | +00000000 | NULL | SLCG2 SYN,81.0 | CB000122 |
| 18* | 000121.40+ | +00000000 | NULL | SLCG1 SYN,81.32 | CB000123 |
| 19* | | | - | | CB000124 |
| 20* | | | - | ***** INPUT COMMAND PARAMETERS***** | CB000125 |
| 21* | | | - | | CB000126 |
| 22* | | | - S ONL | SYN,0 | CB000127 |
| 23* | | | - S OFF | SYN,.32 | CB000128 |
| 24* | | | - S EOF | SYN,1.0 | CB000129 |
| 25* | | | - S EJSCNSYN | SYN,1.32 | CB000130 |
| 26* | | | - S BYP | SYN,2.0 | CB000131 |
| 27* | | | - S REW | SYN,2.32 | CB000132 |
| 28* | | | - S CR1 | SYN,3.0 | CB000133 |
| 29* | | | - S CAN | SYN,3.32 | CB000134 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|---------|--|----------|
| 1* | | | | - ***** | CC000001 |
| 2* | | | | -***** EXIT CODES TO ERROR ROUTINE ***** | CC000002 |
| 3* | | | | - ***** | CC000003 |
| 4* | 010001.00+ | +00000000 | SIFERR | SYN,(16)1001.C - 1 ILLEGAL IF INTERRUPT | CC000004 |
| 5* | 010002.00+ | +00000000 | SCPCI | SYN,(16)1002.C - 2 PSEUDO CP CODE INVALID | CC000005 |
| 6* | 010003.00+ | +00000000 | SCHNAV | SYN,(16)1003.0 - 3 CHANNEL NOT AVAILABLE | CC000006 |
| 7* | 010003.00+ | +00000000 | SUNNAV | SYN,SCHNAV - 3 UNIT NOT AVAILABLE | CC000007 |
| 8* | 010004.00+ | +00000000 | SICDI | SYN,(16)1004.0 - 4 PHONY ICD | CC000008 |
| 9* | 010004.00+ | +00000000 | SUNNAS | SYN,SICDI - 4 UNIT NOT ASSIGNED | CC000009 |
| 10* | 010005.00+ | +00000000 | SPPTNG | SYN,(16)1005.0 - 5 ILLEGAL PP T.O.E. ON ICD CARD | CC000010 |
| 11* | 010006.00+ | +00000000 | S2BIG | SYN,(16)1006.C - 6 REQUEST FOR TOO MANY SCRATCH TAPES | CC000011 |
| 12* | 010007.00+ | +00000000 | SCWINV | SYN,(16)1007.0 - 7 CW INVALID | CC000012 |
| 13* | 010010.00+ | +00000000 | SCCWAD | SYN,(16)1008.0 - 8 CW ADDRESS INVALID | CC000013 |
| 14* | 010011.00+ | +00000000 | SFCRBD | SYN,(16)1009.0 - 9 COMMUNICATION WITH PROTECTED AREA | CC000014 |
| 15* | 000412.00+ | +00000000 | SFORMT | SYN,(16)010A.C -10 DUMP FORMAT INVALID | CC000015 |
| 16* | 000401.00+ | +00000000 | SNXOUT | SYN,(16)0101.C -11 GOOF IN CHEX | CC000016 |
| 17* | 000402.00+ | +00000000 | SUSUPP | SYN,(16)0102.0 -12 UNIT SUPPRESSED | CC000017 |
| 18* | 000403.00+ | +00000000 | STMMI | SYN,(16)0103.0 -13 50 MASKABLE INTERRUPTS | CC000018 |
| 19* | 000404.00+ | +00000000 | SOAUD | SYN,(16)0104.C -14 OP,AD,USA CR DS | CC000019 |
| 20* | 000405.00+ | +00000000 | SLABNG | SYN,(16)0105.0 -15 BAD LABEL | CC000020 |
| 21* | 000406.00+ | +00000000 | SBR40 | SYN,(16)0106.0 -16 SUCCESSFUL B,\$MCP | CC000021 |
| 22* | 000407.00+ | +00000000 | SPTDEX | SYN,(16)0107.0 -17 BAD PTOE ADDRESS | CC000022 |
| 23* | 000410.00+ | +00000000 | SCCMER | SYN,(16)0108.C -18 ILLEGAL \$CCMM FWA | CC000023 |
| 24* | 000411.00+ | +00000000 | S FIXP | SYN,(16)0109.C -19 ILLEGAL FIXUP WD FOR \$FIXUP | CC000024 |
| 25* | 001012.00+ | +00000000 | SERCOD | SYN,(16)020A.0 -20 PP BUFFER OUT OF BOUNDS FOR \$STLR/\$FHLR | CC000025 |
| 26* | | | | - | CC000026 |
| 27* | | | | - ***** ERRORS IN MCP ONLY ***** | CC000027 |
| 28* | | | | - | CC000028 |
| 29* | 003405.00+ | +00000000 | SICERR | SYN,(16)0705.0 -75 MCP SETUP I/O ERROR | CC000029 |
| 30* | 003406.00+ | +00000000 | SREJ | SYN,(16)0706.0 -76 I/O OPERATION REJECTED | CC000030 |
| 31* | 003407.00+ | +00000000 | SQERR | SYN,(16)0707.C -77 FILE NOT STACKED IN INT. QUE | CC000031 |
| 32* | 003410.00+ | +00000000 | SQ2BIG | SYN,(16)0708.0 -78 INTERRUPT QUE TOO SMALL | CC000032 |
| 33* | 003411.00+ | +00000000 | SPQFUL | SYN,(16)0709.0 -79 PRIME QUE TOO SMALL | CC000033 |
| 34* | 004012.00+ | +00000000 | SIFAS | SYN,(16)080A.C -80 MCP ERROR WHILE AUTO STACKED | CC000034 |
| 35* | 004001.00+ | +00000000 | SEPGK | SYN,(16)0801.C -81 MCP EPGK | CC000035 |
| 36* | 004002.00+ | +00000000 | S ASNER | SYN,(16)0802.0 -82 SPECIAL ASSIGNMENT ERROR | CC000036 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|-----------|--------------------------------------|----------|
| 1* | | | - | ***** | C000001 |
| 2* | | | - | *** MISCELLANECUS SYSTEM SYMBOLS *** | C000002 |
| 3* | | | - | ***** | C000003 |
| 4* | | | - | | C000004 |
| 5* | 000040.00+ | +00000000 | NULL | D MCP SYN,32.0 | C000005 |
| 6* | 000000.00+ | +00000000 | BU,30 ,10 | S INST D SYN(BU,24),0.0 | C000006 |
| 7* | 000002.00+ | +00000000 | BU,30 ,10 | S INSTM SYN(BU,24),2.0 | C000007 |
| 8* | 000000.00+ | +00000000 | BU,01 ,10 | S TD DEN SYN(BU,1),0 | C000008 |
| 9* | 000003.00+ | +00000000 | BU,30 ,10 | STCMOD SYN(BU,24),3.0 | C000009 |
| 10* | 000000.00+ | +00000000 | BU,07 ,10 | S CD SYN(BU,7),0 | C000010 |
| 11* | 000000.33+ | +00000000 | BU,01 ,10 | SYSTAP SYN(BU,1),.27 | C000011 |
| 12* | 000000.32+ | +00000000 | BU,01 ,10 | S FP SYN(BU,1),.26 | C000012 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|---------------|---------|--------------------------------|---|
| 1* | | | - | ***** | DA000001 |
| 2* | | | - | *****PROGRAM STATUS TABLE***** | DA000002 |
| 3* | | | - | ***** | DA000003 |
| 4* | | | - | | DACC0004 |
| 5* | 215020.71 | | | SLC,\$ | DA000005 |
| 6* | | | | CNCP | DA000006 |
| 7* | 215021.00 | 000002.00 | S PRG S | DRZ(BU,64), 2 | -PROGRAM STATUS TABLE DA000007 |
| 8* | 000000.31+ | +00000000 | S A S | SYN(BU,1),.25 | -AUTO STACK STATUS INDICATOR DA000008 |
| 9* | 000000.40+ | +00000000 | S Q K | SYN(BU,18),.32 | DA000009 |
| 10* | 000000.75+ | +00000000 | S SIC | SYN(BU,1),.61 | -SUPPRESSED MODE STATUS INDICATOR DA000010 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|------|-------------------------------------|----------|
| 1* | | | | - ***** | DB000001 |
| 2* | | | | - *****INTERRUPT TABLE***** | DB000002 |
| 3* | | | | - ***** | DB000003 |
| 4* | | | | - | DB000004 |
| 5* | 215023.00 * | | | SLC,\$ | DB000005 |
| 6* | | | | CNOP | DB000006 |
| 7* | 215023.00 | 216411.40 80 | SIT | SIC,YMFIC | DB000007 |
| 8* | 215023.40 | 216374.04 00 | | BD,YFXMK | DB000008 |
| 9* | 215024.00 | 216411.40 80 | | SIC,YMFIC | DB000009 |
| 10* | 215024.40 | 216376.04 00 | | BD,YFXIK | DB000010 |
| 11* | 215025.00 | 216411.40 80 | | SIC,YMFIC | DB000011 |
| 12* | 215025.40 | 216400.04 00 | | BD,YFXIJ | DB000012 |
| 13* | 215026.00 | 216411.40 80 | | SIC,YMFIC | DB000013 |
| 14* | 215026.40 | 216402.04 00 | | BD,YFXEK | DB000014 |
| 15* | 215027.00 | 215265.00 80 | | SIC,STIC | DB000015 |
| 16* | 215027.40 | 215107.04 00 | | BD,SIPT+4.0 - TIME SIGNAL INTERRUPT | DB000015 |
| 17* | 215030.00 | 216411.40 80 | | SIC,YMFIC | DB000016 |
| 18* | 215030.40 | 216404.04 00 | | BD,YFXCPU | DB000017 |
| 19* | 215031.00 | 216604.00 80 | | SIC,YSFIC | DB000018 |
| 20* | 215031.40 | 216430.04 00 | | BD,YFXEKJ | DB000019 |
| 21* | 215032.00 | 216604.00 80 | | SIC,YSFIC | DB000020 |
| 22* | 215032.40 | 216432.04 00 | | BD,YFXUNR | DB000021 |
| 23* | 215033.00 | 216604.00 80 | | SIC,YSFIC | DB000022 |
| 24* | 215033.40 | 216434.04 00 | | BD,YFXCBJ | DB000023 |
| 25* | 215034.00 | 215265.00 80 | | SIC,S T IC | DB000024 |
| 26* | 215034.40 | 215114.04 00 | | BD,S IPT+9.0 -EPGK INTERRUPT | DB000024 |
| 27* | 215035.00 | 215265.00 80 | | SIC,S T IC | DB000025 |
| 28* | 215035.40 | 215115.04 00 | | BD,S IPT+10.0 -UK INTERRUPT | DB000025 |
| 29* | 215036.00 * | 215265.00 80 | | SIC,S T IC | DB000026 |
| 30* | 215036.40 | 215116.04 00 | | BD,S IPT+11.0 -EE INTERRUPT | DB000026 |
| 31* | 215037.00 | 215265.00 80 | | SIC,S T IC | DB000027 |
| 32* | 215037.40 | 215117.04 00 | | BD,S IPT+12.0 -ECP INTERRUPT | DB000027 |
| 33* | 215040.00 | 215265.00 80 | | SIC,S T IC | DB000028 |
| 34* | 215040.40 | 215120.04 00 | | BD,S IPT+13.0 -CS INTERRUPT | DB000028 |
| 35* | 215041.00 | 000000.30 00 | | NCP | DB000029 |
| 36* | 215041.40 | 000000.30 00 | | NCP | DB000029 |
| 37* | 215042.00 | 216604.00 80 | | SIC,YSFIC | DB000030 |
| 38* | 215042.40 | 216436.04 00 | | BD,YFXCP | DB000031 |
| 39* | 215043.00 | 216604.00 80 | | SIC,YSFIC | DB000032 |
| 40* | 215043.40 | 216440.04 00 | | BD,YFXAD | DB000033 |
| 41* | 215044.00 | 216604.00 80 | | SIC,YSFIC | DB000034 |
| 42* | 215044.40 | 216442.04 00 | | BD,YFXUSA | DB000035 |
| 43* | 215045.00 | 215265.00 80 | | SIC,ST IC | DB000036 |
| 44* | 215045.40 | 215125.04 00 | | BD,SIPT+18. | DB000036 |
| 45* | 215046.00 | 216604.00 80 | | SIC,YSFIC | DB000037 |
| 46* | 215046.40 | 216444.04 00 | | BD,YFXCS | DB000038 |
| 47* | 215047.00 | 215265.00 80 | | SIC,ST IC | DB000039 |
| 48* | 215047.40 | 215127.04 00 | | BD,SIPT+20. | DB000039 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 215050 |
|------|-------------|---------------|------|---------------|----------|--|
| 1* | 215050.00 * | | | SLC,S IT+21.0 | | -TO PLACE IF INTERRUPT INSTRUCTION IN DB000041 |
| 2* | 215050.00 | 215265.00 80 | | SIC,S TIC | | DB000042 |
| 3* | 215050.40 | 215471.04 00 | | BD,S IFA E | | DB000042 |
| 4* | 215051.00 * | | | SLC, S IT+22. | | DB000043 |
| 5* | 215051.00 | 215265.00 80 | | SIC,ST IC | | DB000044 |
| 6* | 215051.40 | 215131.04 00 | | BD,SIPT+22. | | DB000044 |
| 7* | 215052.00 | 215265.00 80 | | SIC,ST IC | | DB000045 |
| 8* | 215052.40 | 215132.04 00 | | BD,SIPT+23. | | DB000045 |
| 9* | 215053.00 | 215265.00 80 | | SIC,ST IC | | DB000046 |
| 10* | 215053.40 | 215133.04 00 | | BD,SIPT+24. | | DB000046 |
| 11* | 215054.00 | 215265.00 80 | | SIC,ST IC | | DB000047 |
| 12* | 215054.40 | 215134.04 00 | | BD,SIPT+25. | | DB000047 |
| 13* | 215055.00 | 215265.00 80 | | SIC,ST IC | | DB000048 |
| 14* | 215055.40 | 215135.04 00 | | BD,SIPT+26. | | DB000048 |
| 15* | 215056.00 | 215265.00 80 | | SIC,ST IC | | DB000049 |
| 16* | 215056.40 | 215136.04 00 | | BD,SIPT+27. | | DB000049 |
| 17* | 215057.00 | 215265.00 80 | | SIC,ST IC | | DB000050 |
| 18* | 215057.40 | 215137.04 00 | | BD,SIPT+28. | | DB000050 |
| 19* | 215060.00 | 215265.00 80 | | SIC,ST IC | | DB000051 |
| 20* | 215060.40 | 215140.04 00 | | BD,SIPT+29.0 | | DB000051 |
| 21* | 215061.00 | 215265.00 80 | | SIC,ST IC | | DB000052 |
| 22* | 215061.40 | 215141.04 00 | | BD,SIPT+30.0 | | DB000052 |
| 23* | 215062.00 | 215265.00 80 | | SIC,ST IC | | DB000053 |
| 24* | 215062.40 | 215142.04 00 | | BD,SIPT+31.0 | | DB000053 |
| 25* | 215063.00 | 215265.00 80 | | SIC,ST IC | | DB000054 |
| 26* | 215063.40 | 215143.04 00 | | BD,SIPT+32.0 | | DB000054 |
| 27* | 215064.00 * | 215265.00 80 | | SIC,ST IC | | DB000055 |
| 28* | 215064.40 | 215144.04 00 | | BD,SIPT+33. | | DB000055 |
| 29* | 215065.00 | 215265.00 80 | | SIC,ST IC | | DB000056 |
| 30* | 215065.40 | 215145.04 00 | | BD,SIPT+34. | | DB000056 |
| 31* | 215066.00 | 215265.00 80 | | SIC,ST IC | | DB000057 |
| 32* | 215066.40 | 215146.04 00 | | BD,SIPT+35. | | DB000057 |
| 33* | 215067.00 | 215265.00 80 | | SIC,ST IC | | DB000058 |
| 34* | 215067.40 | 215147.04 00 | | BD,SIPT+36. | | DB000058 |
| 35* | 215070.00 | 215265.00 80 | | SIC,ST IC | | DB000059 |
| 36* | 215070.40 | 215150.04 00 | | BD,SIPT+37. | | DB000059 |
| 37* | 215071.00 | 215265.00 80 | | SIC,ST IC | | DB000060 |
| 38* | 215071.40 | 215151.04 00 | | BD,SIPT+38. | | DB000060 |
| 39* | 215072.00 | 215265.00 80 | | SIC,ST IC | | DB000061 |
| 40* | 215072.40 | 215152.04 00 | | BD,SIPT+39. | | DB000061 |
| 41* | 215073.00 | 215265.00 80 | | SIC,ST IC | | DB000062 |
| 42* | 215073.40 | 215153.04 00 | | BD,SIPT+40. | | DB000062 |
| 43* | 215074.00 | 215265.00 80 | | SIC,ST IC | | DB000063 |
| 44* | 215074.40 | 215154.04 00 | | BD,SIPT+41. | | DB000063 |
| 45* | 215075.00 | 215265.00 80 | | SIC,ST IC | | DB000064 |
| 46* | 215075.40 | 215155.04 00 | | BD,SIPT+42. | | DB000064 |
| 47* | 215076.00 | 215265.00 80 | | SIC,ST IC | | DB000065 |
| 48* | 215076.40 | 215156.04 00 | | BD,SIPT+43. | | DB000065 |
| 49* | 215077.00 | 215265.00 80 | | SIC,ST IC | | DB000066 |
| 50* | 215077.40 * | 215157.04 00 | | BD,SIPT+44. | | DB000066 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 215100 |
|------|-------------|---------------|--------------|---------------------------|---------------------------------------|----------|
| 1* | 215100.00 | 215265.00 80 | | SIC,ST IC | | DB000068 |
| 2* | 215100.40 | 215160.04 00 | | BD,SIPT+45. | | DB000068 |
| 3* | 215101.00 | 215265.00 80 | | SIC,ST IC | | DB000069 |
| 4* | 215101.40 | 215161.04 00 | | BD,SIPT+46. | | DB000069 |
| 5* | 215102.00 | 215265.00 80 | | SIC,ST IC | | DB000070 |
| 6* | 215102.40 | 215162.04 00 | | BD,SIPT+47. | | DB000070 |
| 7* | 215103.00 | 215103.20 00 | S IPT | BEW,\$ | -BASE ADDRESS OF PARALLEL INTERRUPT T | DB000071 |
| 8* | 215107.00 * | | | SLC,SIPT+4.0 | | DB000072 |
| 9* | 215107.00 | 216371.40 80 | | SIC,SINTC | | DB000073 |
| 10* | 215107.40 | 216604.50 00 | | B,JWLODE | -SPECIAL ROUTINE FOR TS | DB000073 |
| 11* | 215114.00 * | | | SLC,S IPT+9.0 | -PARALLEL IC INTERRUPT SLOTS | DB000074 |
| 12* | 215114.00 | 215226.11 80 | 215710.34 00 | BZB1,S PS IOI+.9 ,K STORE | -EPGK PARALLEL INTERRUPT | DB000075 |
| 13* | 215115.00 | 215226.12 80 | 215710.34 00 | BZB1,S PS IOI+.10,K STORE | -UK PARALLEL INTERRUPT | DB000076 |
| 14* | 215116.00 | 215226.13 80 | 215710.34 00 | BZB1,S PS IOI+.11,K STORE | -EE PARALLEL INTERRUPT | DB000077 |
| 15* | 215117.00 | 215226.14 80 | 215710.34 00 | BZB1,S PS IOI+.12,K STORE | -EOP PARALLEL INTERRUPT | DB000078 |
| 16* | 215120.00 | 215226.15 80 | 215710.34 00 | BZB1,S PS IOI+.13,K STORE | - CS PARALLEL INTERRUPT | DB000079 |
| 17* | 215125.00 * | | | SLC,S IPT+18.0 | | DB000080 |
| 18* | 215125.00 | 216371.40 80 | | SIC,WINTOR | | DB000081 |
| 19* | 215125.40 | 216333.10 00 | | B,W LODE | - | DB000081 |
| 20* | 215127.00 * | | | SLC,S IPT+20.0 | | DB000082 |
| 21* | 215127.00 | 216371.40 80 | | SIC,WINTOR | | DB000083 |
| 22* | 215127.40 | 216333.10 00 | | B,W LODE | - | DB000083 |
| 23* | 215131.00 * | | | SLC,S IPT+22.0 | | DB000084 |
| 24* | 215131.00 | 216371.40 80 | | SIC,WINTOR | | DB000085 |
| 25* | 215131.40 | 216333.10 00 | | B,W LODE | - | DB000085 |
| 26* | 215132.00 | 216371.40 80 | | SIC,WINTOR | | DB000086 |
| 27* | 215132.40 | 216333.10 00 | | B,W LODE | - | DB000086 |
| 28* | 215133.00 | 216371.40 80 | | SIC,WINTOR | | DB000087 |
| 29* | 215133.40 | 216333.10 00 | | B,W LODE | - | DB000087 |
| 30* | 215134.00 | 216371.40 80 | | SIC,WINTOR | | DB000088 |
| 31* | 215134.40 | 216333.10 00 | | B,W LODE | - | DB000088 |
| 32* | 215135.00 | 216371.40 80 | | SIC,WINTOR | | DB000089 |
| 33* | 215135.40 | 216333.10 00 | | B,W LODE | - | DB000089 |
| 34* | 215136.00 | 216371.40 80 | | SIC,WINTOR | | DB000090 |
| 35* | 215136.40 | 216333.10 00 | | B,W LODE | - | DB000090 |
| 36* | 215137.00 | 216371.40 80 | | SIC,WINTOR | | DB000091 |
| 37* | 215137.40 | 216333.10 00 | | B,W LODE | - | DB000091 |
| 38* | 215140.00 | 216371.40 80 | | SIC,WINTOR | | DB000092 |
| 39* | 215140.40 | 216333.10 00 | | B,W LODE | - | DB000092 |
| 40* | 215141.00 | 216371.40 80 | | SIC,WINTOR | | DB000093 |
| 41* | 215141.40 | 216333.10 00 | | B,W LODE | - | DB000093 |
| 42* | 215142.00 | 216371.40 80 | | SIC,WINTOR | | DB000094 |
| 43* | 215142.40 | 216333.10 00 | | B,W LODE | - | DB000094 |
| 44* | 215143.00 | 216371.40 80 | | SIC,WINTOR | | DB000095 |
| 45* | 215143.40 | 216333.10 00 | | B,W LODE | - | DB000095 |
| 46* | 215144.00 * | 216371.40 80 | | SIC,WINTOR | | DB000096 |
| 47* | 215144.40 | 216333.10 00 | | B,W LODE | - | DB000096 |
| 48* | 215145.00 | 216371.40 80 | | SIC,WINTOR | | DB000097 |
| 49* | 215145.40 | 216333.10 00 | | B,W LODE | - | DB000097 |
| 50* | 215146.00 | 216371.40 80 | | SIC,WINTOR | | DB000098 |
| 51* | 215146.40 | 216333.10 00 | | B,W LODE | - | DB000098 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 215147 |
|------|-------------|---------------|------|------------|----------|----------|
| 1* | 215147.00 | 216371.40 80 | | SIC,WINTOR | | DB000100 |
| 2* | 215147.40 | 216333.10 00 | | B,W LCDE - | | DB000100 |
| 3* | 215150.00 | 216371.40 80 | | SIC,WINTOR | | DB000101 |
| 4* | 215150.40 | 216333.10 00 | | B,W LCDE - | | DB000101 |
| 5* | 215151.00 | 216371.40 80 | | SIC,WINTOR | | DB000102 |
| 6* | 215151.40 | 216333.10 00 | | B,W LCDE - | | DB000102 |
| 7* | 215152.00 | 216371.40 80 | | SIC,WINTOR | | DB000103 |
| 8* | 215152.40 | 216333.10 00 | | B,W LCDE - | | DB000103 |
| 9* | 215153.00 | 216371.40 80 | | SIC,WINTOR | | DB000104 |
| 10* | 215153.40 | 216333.10 00 | | B,W LCDE - | | DB000104 |
| 11* | 215154.00 | 216371.40 80 | | SIC,WINTOR | | DB000105 |
| 12* | 215154.40 | 216333.10 00 | | B,W LCDE - | | DB000105 |
| 13* | 215155.00 | 216371.40 80 | | SIC,WINTOR | | DB000106 |
| 14* | 215155.40 | 216333.10 00 | | B,W LCDE - | | DB000106 |
| 15* | 215156.00 | 216371.40 80 | | SIC,WINTOR | | DB000107 |
| 16* | 215156.40 | 216333.10 00 | | B,W LCDE - | | DB000107 |
| 17* | 215157.00 | 216371.40 80 | | SIC,WINTOR | | DB000108 |
| 18* | 215157.40 * | 216333.10 00 | | B,W LCDE - | | DB000108 |
| 19* | 215160.00 | 216371.40 80 | | SIC,WINTOR | | DB000109 |
| 20* | 215160.40 | 216333.10 00 | | B,W LCDE - | | DB000109 |
| 21* | 215161.00 | 216371.40 80 | | SIC,WINTOR | | DB000110 |
| 22* | 215161.40 | 216333.10 00 | | B,W LCDE - | | DB000110 |
| 23* | 215162.00 | 216371.40 80 | | SIC,WINTOR | | DB000111 |
| 24* | 215162.40 | 216333.10 00 | | B,W LCDE - | | DB000111 |
| 25* | | | | CNOP | | DB000112 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|----------------------|--------|--|----------|
| 1* | | | | - ***** | DC000001 |
| 2* | | | | - ***** MCP FURNISHED PTOE - CONTAINS ENTRIES TO STANDARD FIXUPS | DC000002 |
| 3* | | | | - ***** | DC000003 |
| 4* | 215163.00 * | | | SLC,\$ | DC000004 |
| 5* | 215163.00 | COCC03.00 | SFPT | DRZ(N),(3) -MCP TCE | DC000005 |
| 6* | 215166.00 | 00400012777777760000 | | DD(BU,64),(8)400012777777760000 -PATTERN | DC000006 |
| 7* | 215167.00 | 216530.10 00 | ST FIX | B,YFXTS | DC000007 |
| 8* | 215167.40 | 000000.30 00 | | NOP | DC000008 |
| 9* | 215170.00 | 216530.50 00 | | B,YEXEFX | DC000009 |
| 10* | 215170.40 | 000000.30 00 | | NOP | DC000010 |
| 11* | 215171.00 | 216566.03 01 | | LVI,\$1,YINDF | DC000011 |
| 12* | 215171.40 | 216531.10 00 | | B,YMSF | DC000012 |
| 13* | 215172.00 | 216566.43 01 | | LVI,\$1,YINLC | DC000013 |
| 14* | 215172.40 | 216531.10 00 | | B,YMSF | DC000014 |
| 15* | 215173.00 | 216567.03 01 | | LVI,\$1,YINPF | DC000015 |
| 16* | 215173.40 | 216531.10 00 | | B,YMSF | DC000016 |
| 17* | 215174.00 | 216567.43 01 | | LVI,\$1,YINZD | DC000017 |
| 18* | 215174.40 | 216531.10 00 | | B,YMSF | DC000018 |
| 19* | 215175.00 | 216570.03 01 | | LVI,\$1,YINIR | DC000019 |
| 20* | 215175.40 | 216531.10 00 | | B,YMSF | DC000020 |
| 21* | 215176.00 | 216570.43 01 | | LVI,\$1,YINLS | DC000021 |
| 22* | 215176.40 | 216531.10 00 | | B,YMSF | DC000022 |
| 23* | 215177.00 | 216571.03 01 | | LVI,\$1,YINPSH | DC000023 |
| 24* | 215177.40 | 216531.10 00 | | B,YMSF | DC000024 |
| 25* | 215200.00 | 216571.43 01 | | LVI,\$1,YINXPF | DC000025 |
| 26* | 215200.40 | 216531.10 00 | | B,YMSF | DC000026 |
| 27* | 215201.00 * | 216572.03 01 | | LVI,\$1,YINXPO | DC000027 |
| 28* | 215201.40 | 216531.10 00 | | B,YMSF | DC000028 |
| 29* | 215202.00 | 216572.43 01 | | LVI,\$1,YINXPH | DC000029 |
| 30* | 215202.40 | 216531.10 00 | | B,YMSF | DC000030 |
| 31* | 215203.00 | 216573.03 01 | | LVI,\$1 ,YINXPL | DC000031 |
| 32* | 215203.40 | 216531.10 00 | | B,YMSF | DC000032 |
| 33* | 215204.00 | 216603.03 01 | | LVI,\$1,YINXPU | DC000033 |
| 34* | 215204.40 | 216531.10 00 | | B,YMSF | DC000034 |
| 35* | 215205.00 | 216573.43 01 | | LVI,\$1,YINZM | DC000035 |
| 36* | 215205.40 | 216531.10 00 | | B,YMSF | DC000036 |
| 37* | 215206.00 | 216574.03 01 | | LVI,\$1,YINRU | DC000037 |
| 38* | 215206.40 | 216531.10 00 | | B,YMSF | DC000038 |
| 39* | 215207.00 | 216574.43 01 | | LVI,\$1,YINTF | DC000039 |
| 40* | 215207.40 | 216531.10 00 | | B,YMSF | DC000040 |
| 41* | 215210.00 | 216575.03 01 | | LVI,\$1,YINUF | DC000041 |
| 42* | 215210.40 | 216531.10 00 | | B,YMSF | DC000042 |
| 43* | 215211.00 | 216575.43 01 | | LVI,\$1,YINVF | DC000043 |
| 44* | 215211.40 | 216531.10 00 | | B,YMSF | DC000044 |
| 45* | 215212.00 | 216576.03 01 | | LVI,\$1,YINXF | DC000045 |
| 46* | 215212.40 | 216531.10 00 | | B,YMSF | DC000046 |
| 47* | 215213.00 | 216576.43 01 | | LVI,\$1,YINBTR | DC000047 |
| 48* | 215213.40 | 216531.10 00 | | B,YMSF | DC000048 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 215214 |
|------|-------------|---------------|------|----------------|----------|----------|
| 1* | 215214.00 | 216577.03 01 | | LVI,\$1,YINDTR | | DC000050 |
| 2* | 215214.40 * | 216531.10 00 | | B,YMSF | | DC000051 |
| 3* | 215215.00 | 216577.43 01 | | LVI,\$1,YINPG0 | | DC000052 |
| 4* | 215215.40 | 216531.10 00 | | B,YMSF | | DC000053 |
| 5* | 215216.00 | 216600.03 01 | | LVI,\$1,YINPG1 | | DC000054 |
| 6* | 215216.40 | 216531.10 00 | | B,YMSF | | DC000055 |
| 7* | 215217.00 | 216600.43 01 | | LVI,\$1,YINPG2 | | DC000056 |
| 8* | 215217.40 | 216531.10 00 | | B,YMSF | | DC000057 |
| 9* | 215220.00 | 216601.03 01 | | LVI,\$1,YINPG3 | | DC000058 |
| 10* | 215220.40 | 216531.10 00 | | B,YMSF | | DC000059 |
| 11* | 215221.00 | 216601.43 01 | | LVI,\$1,YINPG4 | | DC000060 |
| 12* | 215221.40 | 216531.10 00 | | B,YMSF | | DC000061 |
| 13* | 215222.00 | 216602.03 01 | | LVI,\$1,YINPG5 | | DC000062 |
| 14* | 215222.40 | 216531.10 00 | | B,YMSF | | DC000063 |
| 15* | 215223.00 | 216602.43 01 | | LVI,\$1,YINPG6 | | DC000064 |
| 16* | 215223.40 | 216531.10 00 | | B,YMSF | | DC000065 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|----------|--------------------|----------|
| 1* | | | - | ***** | DD000001 |
| 2* | | | - | PARAMETER POOL | DD000002 |
| 3* | | | - | ***** | DD000003 |
| 4* | | | - | | DD000004 |
| 5* | 215224.00 * | | | SLC, \$ | DD000005 |
| 6* | | | | CNOP | DD000006 |
| 7* | 215224.00 | CC0041.00+ | S BNDRS | VF, 33.0 | DD000007 |
| 8* | 215224.40 | CC0040.00+ | | VF, 32.0 | DD000007 |
| 9* | 215225.00 | CC0000.00+ | S MAXUB | VF, C.0 | DD000008 |
| 10* | 215226.00 | CC0000.00+ | SPSICI | XW, C | DD000009 |
| 11* | 215227.00 | 215023.00+ | S IT BAS | VF, S IT | DD000010 |
| 12* | 215227.40 | CC0000.30 00 | | CNOP | DD000011 |
| 13* | 215230.00 * | 000035.00 | S T LR | DRZ(BU, 64), 29 | DD000012 |
| 14* | 215230.00+ | +00000000 | S UPPER | SYN, S TLR | DD000013 |
| 15* | 215230.40+ | +00000000 | S LOWER | SYN, S TLR+0.32 | DD000014 |
| 16* | 215265.00 | CC0000.00+ | S T IC | VF, 0 | DD000015 |
| 17* | 215265.40 | CC0000.30 00 | | NCP | DD000015 |
| 18* | 215266.00 * | 000035.00 | S LR PP | DRZ(BU, 64), 29 | DD000016 |
| 19* | 215323.00 | CC0000.00+ | S IC PP | VF, 0 | DD000017 |
| 20* | 215323.40 | CC0000.30 00 | | NOP | DD000017 |
| 21* | 215324.00 * | CC0035.00 | S LR BU | DRZ(BU, 64), 29 | DD000018 |
| 22* | 215324.00+ | +00000000 | S PP UB | SYN, S LR BU | DD000019 |
| 23* | 215324.40+ | +00000000 | S PP LB | SYN, S LR BU+.32 | DD000020 |
| 24* | 215361.00 | CC0000.00+ | S IC BU | VF, 0 | DD000021 |
| 25* | 215361.40 | CC0000.30 00 | | NCP | DD000021 |
| 26* | 215362.00 * | 000035.00 | S LR MCP | DRZ(BU, 64), 29 | DD000022 |
| 27* | 215373.00 | | | SLC, SLRMCP+9.0 | DD000023 |
| 28* | 215373.00 | CC0000.04 00 | | INDMK, \$IF | DD000024 |
| 29* | 215417.00 * | | | SLC, SLRMCP+29.0 | DD000025 |
| 30* | 215417.00 | CC0000.00+ | S IC MCP | VF, 0 | DD000026 |
| 31* | 215417.40 | CC0000.30 00 | | NOP | DD000026 |
| 32* | | | | CNOP | DD000027 |
| 33* | 215420.00 * | 000046.00 | S QUE | DRZ(BU, 19), (128) | DD000028 |
| 34* | 215466.00 | 215420.00+ | S CUM Q | VF, S QUE | DD000029 |
| 35* | 215466.40 | CC0062 | YMISCO | CF, 50 | DD000030 |
| 36* | 215467.00 | CC0000.00+ | S READS | XW, C | DD000031 |
| 37* | 215470.00 | 233150.10 00 | S COMM | B, MCOMD | DD000032 |
| 38* | 215470.40 | CC0000.00+ | S COMIC | VF, 0 | DD000033 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------------|---|----------|
| 1* | | | | | - ***** | EA000001 |
| 2* | | | | | -***** IF ANALYZER *****- | EA000002 |
| 3* | | | | | - ***** | EA000003 |
| 4* | 215470.71 * | | | | SLC,\$ | EA000004 |
| 5* | 215471.00 | C00003.00 | 80 | 215230.34 A0 | S IF AE TI,14,3.0,S TLR -SAVE LOWER REGISTERS | EA000005 |
| 6* | 215472.00 | C00021.00 | 80 | 215246.36 A0 | TI,15,17.0,S TLR+14.0 | EA000006 |
| 7* | 215473.00 | 215231.47 | A0 | | BE,STLR+1.32(.26,2)111101 -STM(U),STLR+1.0 - SAVE \$MR. | EA000007 |
| 8* | 215473.40 | 215474.07 | C6 | | BOPZ,\$.32 -FOR LASL LRL | EA000008 |
| 9* | 215474.00 | 215265.04 | 30 | | LV,2,S TIC | EA000009 |
| 10* | 215474.40 | C00000.07 | B2 | | LVE,3,0.0(\$2) | EA000010 |
| 11* | 215475.00 | 777777.40 | 52 | | LC,C,-.32(\$2) | EA000011 |
| 12* | 215475.40 | 215566.41 | 90 | | KC,C,MKMCPA | EA000012 |
| 13* | 215476.00 | 215627.32 | C0 | | BZXE,M NO MCP | EA000013 |
| 14* | 215476.40 | C00023.23 | 80 | 004000.07 70 | CTOC11(BU,4),\$.3.19 | EA000014 |
| 15* | 215477.40 | 215630.74 | C0 | | BZRZ,M OP CI | EA000015 |
| 16* | 215500.00 | C00001.07 | 04 | | KVI,3,1.0 | EA000016 |
| 17* | 215500.40 | 215630.72 | 42 | | BXL,M CP C I | EA000017 |
| 18* | 215501.00 | C00100.07 | 04 | | KVI,3,64.0 | EA000018 |
| 19* | 215501.40 | 220700.32 | 42 | | BXL,K FRONT -BRANCH IF ACTUATOR OP | EA000019 |
| 20* | 215502.00 | 215001.04 | 80 | 215514.74 02 | BB,S L,M IF 6+.32 | EA000020 |
| 21* | 215503.00 | 215224.00 | 10 | | LX,C,SBNDRS -GET MCP BOUNDS | EA000021 |
| 22* | 215503.40 | C00003.01 | 10 | | SX,C,3.0 -SET MCP BCUNDS | EA000022 |
| 23* | 215504.00 * | 215373.42 | 60 | | LWF(U),SLRMCP+9.0 | EA000023 |
| 24* | 215504.40 | 000014.40 | E0 | | ST(U),\$MASK | EA000024 |
| 25* | 215505.00 | C00114.47 | 04 | | KVI,3,M MAXOP | EA000025 |
| 26* | 215505.40 | 215630.72 | 40 | | BZXL,M CPCI | EA000026 |
| 27* | 215506.00 | 000036.37 | 02 | | LCI,15,30 | EA000027 |
| 28* | 215506.40 | 215230.00 | 80 | 215324.36 20 | T,15,STLR,SLRBU | EA000028 |
| 29* | 215507.40 | 215514.50 | C0 | | R,M IF 6+.32 | EA000029 |
| 30* | 215510.00 | C00003.00 | 80 | 215230.34 AC | S IF AD TI,14,3.0,S TLR | EA000030 |
| 31* | 215511.00 | 000021.00 | 80 | 215246.36 AC | TI,15,17.0,S TLR+14.0 -SAVE LR TEMP. | EA000031 |
| 32* | 215512.00 | 215001.00 | 80 | 001000.36 F0 | CM1111(BU,1),S E -DISABLED IF ENTRY | EA000032 |
| 33* | 215513.00 | 215265.04 | 30 | | LV,2,S TIC | EA000033 |
| 34* | 215513.40 | 000000.45 | 0D | | V-I,2,.32 | EA000034 |
| 35* | 215514.00 | 000000.46 | 32 | | M IF 6 LV,3,.32(\$2) | EA000035 |
| 36* | 215514.40 | C00023.27 | 80 | 002000.00 F0 | CMOC00(BU,2),\$.3.23 | EA000036 |
| 37* | 215515.40 | 215633.00 | 80 | 000040.06 70 | LF(BU,64),M MK 1,-64 | EA000037 |
| 38* | 215516.40 | C00000.45 | 0D | | V-I, 2,.32 | EA000038 |
| 39* | 215517.00 * | 215001.04 | 80 | 001065.06 70 | LF(BU,1),S L,-22 | EA000039 |
| 40* | 215520.00 | 215566.02 | 33 | | LV,1,MIFTTT-64.0(\$3) -GET TENTACLE TABLE ADDRESS | EA000040 |
| 41* | 215520.40 | C00000.11 | 81 | 217177.34 02 | BB,.9(\$1),K SUPP2+.32 -PSEUDO OP IS BUSY | EA000041 |
| 42* | 215521.40 | 215546.03 | 30 | | SV,\$1,MR3 AD | EA000042 |
| 43* | 215522.00 | 215636.06 | 30 | | LV,\$3,M CR -OLD TENT. ADR. IN \$3 | EA000043 |
| 44* | 215522.40 | C00000.04 | 81 | 001065.20 D0 | ST(BU,1),.4(\$1),-22 -SET USER BIT IN TENT.TABLE | EA000044 |
| 45* | 215523.40 | 215001.04 | 80 | 001000.36 F0 | CM1111(BU,1),S L -SET S L TO MCP | EA000045 |
| 46* | 215524.40 | 215022.31 | 80 | 215634.34 02 | BB,S PRCG S+1.25,M IF AS -MCP BUG-AS REQ. | EA000046 |
| 47* | 215525.40 | 215636.03 | 30 | | SV,\$1,M CR | EA000047 |
| 48* | 215526.00 | C00001.07 | 31 | | SV,3,1.C(\$1) | EA000048 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 215526 |
|------|-------------|---------------------------|---------|--|----------|----------|
| 1* | 215526.40 | 000002.05 31 | | SV,\$2,2.0(\$1) ***LINK FWA IN TENT** | | EA000050 |
| 2* | 215527.00 | 000000.00 81 004066.60 50 | | L(BU,4),C.0(\$1),-19 | | EA000051 |
| 3* | 215530.00 | 215265.04 30 | | LV,2,S TIC -ADDRESS OF LINKAGE CP | | EA000052 |
| 4* | 215530.40 | 000022.10 30 | | LV,4,\$2 | | EA000053 |
| 5* | 215531.00 | 000010.04 80 | | V+,\$2,\$L -RETURN ADDRESS IN \$2 | | EA000054 |
| 6* | 215531.40 | 000001.45 31 | | SV,\$2,1.32(\$1) ***NURM. RET. ADR. IN TENT** | | EA000055 |
| 7* | 215532.00 | 215265.05 30 | | SV,2,S TIC | | EA000056 |
| 8* | 215532.40 * | 000021.34 80 022066.60 D0 | | ST(BU,18),\$1+.28,-19 -N IN CF OF \$1 | | EA000057 |
| 9* | 215533.40 | 000021.06 30 | | LV,\$3,\$1 | | EA000058 |
| 10* | 215534.00 | 215566.06 80 | | V+,\$3,M 9 | | EA000059 |
| 11* | 215534.40 | 000002.43 05 | | V+I,\$1,2.32 | | EA000060 |
| 12* | 215535.00 | 000000.40 84 140000.20 50 | M ED 1 | L(V+I)(BU,32),.32(\$4) | | EA000061 |
| 13* | 215536.00 | 000000.40 81 240000.20 D0 | | ST(V+I)(BU,32),.32(\$1) -***PARAM IN TENT. | | EA000062 |
| 14* | 215537.00 | 215546.70 46 | M ED 1A | BXCZZ,M TC 1 | | EA000063 |
| 15* | 215537.40 | 215637.06 80 | | V+,\$3,M C 1 -ADD. 2 FOR NEXT PARAM. | | EA000064 |
| 16* | 215540.00 | 000000.00 83 215535.34 00 | | BZB,0.0(\$3),M ED 1 -NO FORM EFF. | | EA000065 |
| 17* | 215541.00 | 215543.11 D0 | | SVA,4,M ED 2A -PARAM ADDR | | EA000066 |
| 18* | 215541.40 | 000000.51 05 | | V+I,4,.32 | | EA000067 |
| 19* | 215542.00 | 000021.00 80 215246.10 E0 | | SWAPI,4,\$1,S TLR+14.0 | | EA000068 |
| 20* | 215543.00 | 215543.01 80 | M ED 2A | LVE,\$0,\$ | | EA000069 |
| 21* | 215543.40 | 000021.00 80 215246.10 E0 | | SWAPI,4,\$1,S TLR+14.0 | | EA000070 |
| 22* | 215544.40 | 000000.01 31 | | SV,C,C(\$1) | | EA000071 |
| 23* | 215545.00 | 000000.43 06 | | V+I,C,1,.32 | | EA000072 |
| 24* | 215545.40 | 215537.10 00 | | B,M ED 1A | | EA000073 |
| 25* | 215546.00 | 000000.00+ | MR 3AD | VF,C.0 -CURRENT TENTACLE TABLE ADDRESS | | EA000074 |
| 26* | 215546.40 * | 215547.10 C6 | MTC1 | BUSAZ,\$+.32 | | EA000075 |
| 27* | 215547.00 | 215547.50 46 | | BADZ,\$+.32 | | EA000075 |
| 28* | 215547.40 | 215546.02 30 | | LV,\$1,MR3AD -TRANSFER ROUTINES | | EA000076 |
| 29* | 215550.00 | 000000.55 81 023000.20 50 | | L(BU,19),.45(\$1) | | EA000077 |
| 30* | 215551.00 | 215562.40 80 023000.20 D0 | | ST(BU,19),M TC 3A -SET ENTRY ADR. | | EA000078 |
| 31* | 215552.00 | 000000.05 81 215563.34 02 | M TC 2A | BB,.5(\$1),M TC 3B | | EA000079 |
| 32* | 215553.00 | 215001.00 80 001000.00 F0 | | CM0000(BU,1),S E | | EA000080 |
| 33* | 215554.00 | 000000.06 81 215560.74 02 | | BB,.6(\$1),M TC 3A-2.0 -ENTRY DISABLED | | EA000081 |
| 34* | 215555.00 | 000000.07 81 215564.74 02 | | BB,.7(\$1),M TC 4A -ENTRY SIO | | EA000082 |
| 35* | 215556.00 | 215022.75 80 001000.00 F0 | | CM0000(BU,1),SPRGGs+1.61 -TURN OFF SIO BIT FOR NEXT M PACK | | EA000083 |
| 36* | 215557.00 | 215562.65 80 001000.00 F0 | M TC 3 | CM0000(BU,1),M TC 3A+.21 | | EA000084 |
| 37* | 215560.00 | 215561.50 C0 | | B,M TC 3 A-1.0 -TO ENABLED | | EA000085 |
| 38* | 215560.40 | 215562.65 80 001000.36 F0 | | CM1111(BU,1),M TC 3A+.21 | | EA000086 |
| 39* | 215561.40 * | 215245.00 80 000020.00 A0 | | TI,C,STLR+13.C,\$C | | EA000087 |
| 40* | 215562.40 | 215562.44 00 | M TC 3A | BD,\$ - *****ENTER PSEUDO OP***** | | EA000088 |
| 41* | 215563.00 | 215001.00 80 215560.74 C6 | M TC 3B | BBZ,S E,M TC 3A-2.0 -SAME DISABLED | | EA000089 |
| 42* | 215564.00 | 215557.10 C0 | | B,M TC 3 -SAME ENABLD | | EA000090 |
| 43* | 215564.40 | 215022.75 80 215565.74 CE | M TC 4A | BB1,S PROG S+1.61,\$+1.0 -TURN ON SIO BIT | | EA000091 |
| 44* | 215565.40 | 215557.10 00 | | B,M TC 3 -SIO TO ENABLED | | EA000092 |
| 45* | 215566.00 | 000000.11+ | M 9 | VF,.9 | | EA000093 |
| 46* | 215566.40 | 000040.10 00 | M KMCPA | B,D MCP | | EA000094 |
| 47* | 215567.00 | 000000.04 7F 000000.01 15 | M MK 2 | INDMK,.21,.25,.26,.27,.28,.29,.30,.31,.55(.63)21 | | EA000095 |
| 48* | 215570.00 | 000020.00 80 215622.12 A0 | S PRIME | TI,5,\$C,MPR8 -SAVE X REGS. TO BE USED | | EA000096 |
| 49* | 215571.00 | 000000.03 01 | S PRIMR | LVI,\$1,C -PICK UP LOC. OF \$ CP | | EA000097 |
| 50* | 215571.40 | 000000.04 31 | | LV,\$2,C.0(\$1) -OP CODE IN \$2 | | EA000098 |

| LINE | LOCATIONN | BINARY | CUTPUT | NAME | STATEMENT | LOCATIONN | 215572 |
|------|-----------|-------------|--------|-----------|---|-----------|--------|
| 1* | 215572.00 | 000022.30 | 80 | 001000.00 | F0 | EA000100 | |
| 2* | 215573.00 | 215566.04 | 32 | | CM0000(BU,1), \$2+.24 | EA000101 | |
| 3* | 215573.40 | 000000.00 | 82 | 004066.60 | 50 | EA000102 | |
| 4* | 215574.40 | 000010.00 | 30 | | LV, \$0, \$L -GET ADDRESS OF TT | EA000103 | |
| 5* | 215575.00 | 000020.00 | 80 | | L(BU,4), 0.0(\$2), -19 -N IN ACC | EA000104 | |
| 6* | 215575.40 | * 000020.10 | 50 | | LV, \$0, \$L -19 BIT VALUE =18 BIT COUNT | EA000105 | |
| 7* | 215576.00 | 215640.00 | 30 | | LC, \$4, \$C | EA000106 | |
| 8* | 215576.40 | 215617.71 | 46 | M PR 2 | LV, \$0, M PRM QK | EA000107 | |
| 9* | 215577.00 | 000021.06 | 30 | | BXVZZ, M PR 7 -PRIME Q EMPTY | EA000108 | |
| 10* | 215577.40 | 000010.06 | 80 | | LV, \$3, \$1 | EA000109 | |
| 11* | 215600.00 | 215617.07 | 00 | | V+, \$3, \$L | EA000110 | |
| 12* | 215600.40 | 000010.00 | 80 | | SVA, 3, MPR6B -SET RETURN ADDRESS | EA000111 | |
| 13* | 215601.00 | 000017.01 | 04 | | V+, 0, \$L | EA000112 | |
| 14* | 215601.40 | 215641.33 | 46 | | KVI, \$0, 15.0 | EA000113 | |
| 15* | 215602.00 | 215640.01 | 30 | | BXHZ, M PRM ER -PRIME Q FULL | EA000114 | |
| 16* | 215602.40 | 215644.06 | 10 | | SV, \$0, M PRM QK - NEW Q COUNT | EA000115 | |
| 17* | 215603.00 | 000000.11 | 80 | 430064.20 | 50 | EA000116 | |
| 18* | 215604.00 | 000010.04 | 80 | | LX, \$3, M R 4 | EA000117 | |
| 19* | 215604.40 | 000000.40 | 81 | 140000.20 | 50 | EA000118 | |
| 20* | 215605.40 | 000000.40 | 83 | 340000.20 | 00 | EA000119 | |
| 21* | 215606.40 | 215615.50 | 4A | M PR 4A | LI(BU,24), .9, -24 | EA000120 | |
| 22* | 215607.00 | 215637.04 | 80 | | V+, \$2, \$L -FORM EFF. BIT | EA000121 | |
| 23* | 215607.40 | 000000.00 | 82 | 215604.74 | 00 | EA000122 | |
| 24* | 215610.40 | 215612.43 | 00 | | L(V+I)(BU,32), .32(\$1) | EA000123 | |
| 25* | 215611.00 | * 000000.43 | 05 | | ST(V+ICR)(BU,32), .32(\$3) -PARAM IN PRIME Q. | EA000124 | |
| 26* | 215611.40 | 000021.00 | 80 | 215623.10 | EC | EA000125 | |
| 27* | 215612.40 | 215612.41 | 80 | | CBZ, \$4, M PR 6A | EA000126 | |
| 28* | 215613.00 | 000021.00 | 80 | 215623.10 | EC | EA000127 | |
| 29* | 215614.00 | 000000.01 | 33 | | V+, \$2, M C 1 -ADD. 2 FOR NEXT FORM EFF | EA000128 | |
| 30* | 215614.40 | 000000.47 | 07 | | BZB, 0.0(\$2), M PR 4A -NO FORM EFF | EA000129 | |
| 31* | 215615.00 | 215606.50 | 00 | | SVA, \$1, M PR 5A | EA000130 | |
| 32* | 215615.40 | 215644.07 | 10 | | V+I, 1, .32 | EA000131 | |
| 33* | 215616.00 | 215622.00 | 80 | 000020.12 | A0 | EA000132 | |
| 34* | 215617.00 | 215617.10 | 00 | | SWAPI, 4, \$1, MPR8+1.0 | EA000133 | |
| 35* | 215617.40 | 215643.06 | 10 | | LVE, \$0, \$ -FORM EFF | EA000134 | |
| 36* | 215620.00 | 215644.07 | 10 | | SWAPI, 4, \$1, MPR8+1.0 | EA000135 | |
| 37* | 215620.40 | 215645.07 | 10 | | SV, C, 0(\$3) | EA000136 | |
| 38* | 215621.00 | 215577.10 | 00 | | V+ICR, 3, .32 | EA000137 | |
| 39* | 215621.40 | 000000.30 | 00 | | B, M PR 4B | EA000138 | |
| 40* | 215622.00 | * 000005.00 | | | SX, 3, M R 4 -SAVE PRIME CONTROL | EA000139 | |
| 41* | 215627.00 | 010001.35 | 01 | | TI, 5, MPR8, \$0 -RESTORE USED X REGSZ | EA000140 | |
| 42* | 215627.40 | 217451.40 | 80 | | B, \$ -RETURN DISABLED | EA000141 | |
| 43* | 215630.00 | 217372.10 | 00 | | LX, \$3, M P Q R | EA000142 | |
| 44* | 215630.40 | 010002.35 | 01 | | SX, \$3, M R 4 -REFILL PRIME CONTROL | EA000143 | |
| 45* | 215631.00 | 217451.40 | 80 | | SX, \$3, M R 5 -REFILL UNPRIME CONTROL | EA000144 | |
| 46* | 215631.40 | 217372.10 | 00 | | B, M PR 2+.32 | EA000145 | |
| 47* | | | | | CNOP | EA000146 | |
| 48* | 215632.00 | * 000001.00 | | | DRZ(BU,0), (5) | EA000147 | |
| 49* | 215633.00 | 000000.00 | 00 | 000000.05 | 15 | EA000148 | |
| 50* | 215634.00 | 004012.35 | 01 | | M MK 1 INDMK, .53, .55(.63)21 | EA000149 | |
| | | | | | M IF AS LVI, \$14, S IF AS | EA000150 | |

| LINE | LCCATICN | BINARY CUTPUT | NAME | STATEMENT | LCCATION | 215634 |
|------|-------------|------------------------------|----------|----------------------|----------|----------|
| 1* | 215634.4C | 217451.40 80 | | SIC,S DISIC | | EA000149 |
| 2* | 215635.CC | 217372.10 C0 | | B,S DISP | | EA000149 |
| 3* | 215636.00 | 215016.00+ C00 000000 000000 | M CR | XW,S IPL IN | | EA000150 |
| 4* | 215637.00 | 00000002 | M C 1 | DD(EU,24),2 | | EA000151 |
| 5* | 215637.4C | 000000.3C 00 | | CNOP | | EA000152 |
| 6* | 215640.00 * | 000001.00 | M PRM QK | DRZ(BU,64),(1) | | EA000153 |
| 7* | 215641.00 | C03411.35 01 | M PRM ER | LVI,\$14,S PQ FUL | | EA000154 |
| 8* | 215641.40 | 217451.40 80 | | SIC,S DISIC | | EA000155 |
| 9* | 215642.CC | 217372.10 00 | | B,S DISP | | EA000155 |
| 10* | 215643.00 | 215647.00+ C00 000036 215643 | M P Q R | XW,MPRIMQ,30,MPQR | | EA000156 |
| 11* | 215644.00 * | C00001.00 | M R 4 | DRZ(BU,64),(1) | | EA000157 |
| 12* | 215645.00 | C00001.00 | M R 5 | DRZ(BU,64),(1) | | EA000158 |
| 13* | 215646.CC | 000000.04 00 000000.C1 15 | M MK 3 | INDMK,.21,.55(.63)21 | | EA000159 |
| 14* | 215647.00 * | 000017.CC | M PRIM Q | DRZ(BU,32),(30) | | EA000160 |
| 15* | 000114.40+ | +00000000 | M MAXOP | SYN,SJCI | | EA000161 |

-CURRENT TENTACLE TABLE ADDRESS

-MAX PP OP CODE

20
19
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1

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------|---|----------|
| 1* | | | - | | EA000163 |
| 2* | | | - | ***** IF ANALYZER TABLE OF TENTACLE ADDRESSES ***** | EA000164 |
| 3* | | | - | | EA000165 |
| 4* | | | - | CNOP | EA000166 |
| 5* | 215666.00 | 234417.00+ | MIFITT | VF,PDUMPT | EA000167 |
| 6* | 215666.40 | 217460.00+ | | VF,AEDMPT | EA000168 |
| 7* | 215667.00 | 231136.00+ | | VF,YJC4TT | EA000169 |
| 8* | 215667.40 | 232677.00+ | | VF,POLDTT | EA000170 |
| 9* | 215670.00 | 232555.00+ | | VF,YRLTT | EA000171 |
| 10* | 215670.40 | 233667.00+ | | VF,XTENTB | EA000172 |
| 11* | 215671.00 | 222111.00+ | | VF,S ASPUT | EA000173 |
| 12* | 215671.40 | 222105.00+ | | VF,S CSPRT | EA000174 |
| 13* | 215672.00 | 231136.00+ | | VF,YJC4TT | EA000175 |
| 14* | 215672.40 | 224105.00+ | | VF,VVSCR | EA000176 |
| 15* | | | - | | EA000177 |
| 16* | | | - | ***** RESERVED FOR FUTURE MCP USE ***** | EA000178 |
| 17* | | | - | | EA000179 |
| 18* | 215673.00 | 231136.00+ | | VF,YJC4TT | EA000180 |
| 19* | 215673.40 | 231136.00+ | | VF,YJC4TT | EA000181 |
| 20* | 215674.00 | 231136.00+ | | VF,YJC4TT | EA000182 |
| 21* | 215674.40 | 231136.00+ | | VF,YJC4TT | EA000183 |
| 22* | 215675.00 | 231136.00+ | | VF,YJC4TT | EA000184 |
| 23* | 215675.40 | 231136.00+ | | VF,YJC4TT | EA000185 |
| 24* | 215676.00 | 231136.00+ | | VF,YJC4TT | EA000186 |
| 25* | 215676.40 | 231136.00+ | | VF,YJC4TT | EA000187 |
| 26* | 215677.00 | 231136.00+ | | VF,YJC4TT | EA000188 |
| 27* | 215677.40 | 231136.00+ | | VF,YJC4TT | EA000189 |
| 28* | | | - | | EA000190 |
| 29* | | | - | ***** RESERVED FOR INSTALLATION PSEUDO OPS ***** | EA000191 |
| 30* | | | - | | EA000192 |
| 31* | 215700.00 | 231136.00+ | | VF,YJC4TT | EA000193 |
| 32* | 215700.40 | 232555.00+ | | VF,YRLTT | EA000194 |
| 33* | 215701.00 | 231136.00+ | | VF,YJC4TT | EA000195 |
| 34* | 215701.40 * | 231136.00+ | | VF,YJC4TT | EA000196 |
| 35* | 215702.00 | 231136.00+ | | VF,YJC4TT | EA000197 |
| 36* | | | - | | EA000198 |
| 37* | | | - | ***** SPECIAL MCP PSEUDO OPS ***** | EA000199 |
| 38* | | | - | | EA000200 |
| 39* | 215702.40 | 230747.00+ | | VF,YJC1TT | EA000201 |
| 40* | 215703.00 | 222120.00+ | | VF,SCDRYT | EA000202 |
| 41* | 215703.40 | 222115.00+ | | VF,SAEQJT | EA000203 |
| 42* | 215704.00 | 232566.00+ | | VF,PDBTT | EA000204 |
| 43* | 215704.40 | 231136.00+ | | VF,YJC4TT | EA000205 |
| 44* | 215705.00 | 224105.00+ | | VF,VVSCR | EA000206 |
| 45* | 215705.40 | 224111.00+ | | VF,VVSKM | EA000207 |
| 46* | 215706.00 | 232715.00+ | | VF,JTENT | EA000208 |
| 47* | 215706.40 | 233144.00+ | | VF,UNDEF | EA000209 |
| 48* | 215707.00 | 233144.00+ | | VF,UNDEF | EA000210 |
| 49* | 215707.40 | 233144.00+ | | VF,UNDEF | EA000211 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------------|---|----------|
| 1* | | | | | - ***** | EB000001 |
| 2* | | | | | -***** R E C E P T O R *****- | EB000002 |
| 3* | | | | | - ***** | EB000003 |
| 4* | 215707.71 * | | | | SLC,\$ | EB000004 |
| 5* | 215710.00 | 000003.00 | 80 | 215230.32 A0 | K STORE TI,13,\$UB,S TLR -SAVE LOWER REGISTERS | EB000005 |
| 6* | 215711.00 | 000020.00 | 80 | 215245.00 AC | TI,0,\$0,S TLR+13.0 | EB000006 |
| 7* | 215712.00 | 215231.47 | A0 | | BE,STLR+1.32(.26,2)111101 -STM(U),STLR+1.0 - SAVE \$MR. | EB000007 |
| 8* | 215712.40 | 215713.07 | C6 | | BOPZ,\$.32 -FOR LASL LRL | EB000008 |
| 9* | 215713.00 | 215226.11 | 80 | 005000.20 50 | L(BU,5),SPSICI+.9 | EB000009 |
| 10* | 215714.00 | 215240.11 | 80 | 005000.16 F0 | CM0111(BU,5),STLR+8.9 | EB000010 |
| 11* | 215715.00 | 215226.22 | C0 | | Z,SPSICI | EB000011 |
| 12* | 215715.40 | 215716.05 | 46 | | BUKZ,\$+.32 | EB000012 |
| 13* | 215716.00 | 215716.45 | C6 | | BEEZ,\$+.32 | EB000013 |
| 14* | 215716.40 | 215717.06 | 44 | | BZECpz,\$+.32 | EB000014 |
| 15* | 215717.00 | 215717.46 | C6 | | BCSZ,\$.32 | EB000015 |
| 16* | 215717.40 | 000005.34 | 30 | | LV,14,\$CA | EB000016 |
| 17* | 215720.00 | 000005.24 | 30 | | LV,10,\$CA | EB000017 |
| 18* | 215720.40 | 000032.24 | R0 | | V+,10,\$1C | EB000018 |
| 19* | 215721.00 | 215002.24 | B0 | | V+,10,S CHAN S | EB000019 |
| 20* | 215721.40 | 000000.64 | 8A | 004066.60 50 | S FAKE I L(BU,4),S EQUIP(\$10),-19 | EB000020 |
| 21* | 215722.40 | 000010.10 | 30 | | LV,4,\$L -EQUIP CODE IN VF(\$4) | EB000021 |
| 22* | 215723.00 * | 000000.33 | 8A | 216050.34 00 | BZB,S MULTI(\$10),K SINGL | EB000022 |
| 23* | 215724.00 | 215240.11 | 80 | 004071.60 50 | L(BU,4),S TLR+8.9,-13 | EB000023 |
| 24* | 215725.00 | 216054.34 | C2 | | BRZ,K SIGNL | EB000024 |
| 25* | 215725.40 | 000010.16 | 50 | | LC,7,\$L | EB000025 |
| 26* | 215726.00 | 215240.15 | 80 | 215730.34 00 | BZB,S TLR+8.13,\$+2. | EB000026 |
| 27* | 215727.00 | 216272.40 | 80 | | SIC,K ST CS | EB000027 |
| 28* | 215727.40 | 216267.10 | C0 | | B,K CS IN | EB000027 |
| 29* | 215730.00 | 000000.70 | 8A | 003067.20 50 | K KK L(BU,3),S UNIT(\$10),-18 | EB000028 |
| 30* | 215731.00 | 000000.26 | 3A | | LV,11,S UN A(\$10) | EB000029 |
| 31* | 215731.40 | 000010.26 | B0 | | V+,11,\$L -COMPUTE UNIT TABLE ENTRY ADDR | EB000030 |
| 32* | 215732.00 | 000000.30 | 3B | | K DCCL LV,12,S UN A(\$11) -OBTAIN UNIT AREA TABLE | EB000031 |
| 33* | 215732.40 | 000003.32 | 3C | | LV,13,S FI A AC(\$12) -OBTAIN ACTUATED FILE AREA | EB000032 |
| 34* | 215733.00 | 000000.37 | 8B | 216314.74 06 | RBZ,S SET UP(\$11),K RELAY | EB000033 |
| 35* | 215734.00 | 215776.03 | 01 | | LVI,1,K NORM | EB000034 |
| 36* | 215734.40 | 000004.11 | 04 | | KVI,4,4.0 -IS EQUIP TAPE | EB000035 |
| 37* | 215735.00 | 215742.32 | C0 | | BZXE,K STACK | EB000036 |
| 38* | 215735.40 | 000027.45 | 80 | 002000.06 70 | CO011(BU,2),\$7.37 -TEST IF EPGK OR UK ON | EB000037 |
| 39* | 215736.40 * | 215742.34 | C0 | | BZRZ,K STACK | EB000038 |
| 40* | 215737.00 | 000004.52 | 8C | 010000.20 50 | L(BU,8),S IQ INS+.42(\$12) | EB000039 |
| 41* | 215740.00 | 000027.47 | 80 | 216204.34 02 | BB,\$7.39,K SPACE -IS EE ON | EB000040 |
| 42* | 215741.00 | 000000.74 | 8B | 216213.34 02 | BB,S CTL(\$11),K WEF -IF NOT, CHECK IF WEF OP | EB000041 |
| 43* | 215742.00 | 000000.71 | 8B | 215744.34 02 | K STACK BB,S RD(\$11),K COPY | EB000042 |
| 44* | 215743.00 | 000000.72 | 8B | 215746.74 00 | BZB,S WR(\$11),K GATE | EB000043 |
| 45* | 215744.00 | 000000.00 | 8E | 000004.21 00 | K COPY CCW,0.0(\$14),S CCW(\$13) | EB000044 |
| 46* | 215745.00 | 215744.03 | 46 | | BEKJZ,\$-1.0 | EB000045 |
| 47* | 215745.40 | 000000.51 | 04 | | KVI,4,.32 -IS EQUIP DISK | EB000046 |
| 48* | 215746.00 | 216316.32 | C2 | | BXE,C ARC AD | EB000047 |

| LINE | LOCATICN | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 215746 |
|------|-------------|------------|-----------------|----------|----------------------------------|-----------------------------------|----------|
| 1* | 215746.40 | COCC00.36 | 8B 215752.34 00 | KGATE | BZB,SUNSUP(\$11),JKGATE | | EB000049 |
| 2* | 215747.40 | COCC01.11 | 8D 005071.60 50 | | L(BU,5),SIOIND(\$13),-13 | | EB000050 |
| 3* | 215750.40 | COCC27.45 | 80 005071.56 70 | | CO111(BU,5),\$7.37,-13 | | EB000051 |
| 4* | 215751.40 | COCC10.16 | 50 | | LC,7,\$L | | EB000052 |
| 5* | 215752.00 * | COCC01.17 | 5D | JKGATE | SC,7,1.0(\$13) | | EB000053 |
| 6* | 215752.40 | COCC00.32 | 8A 001000.00 FC | | CMOC00(BU,1),S CF OP(\$10) | | EB000054 |
| 7* | 215753.40 | COCC00.33 | 8A 215756.34 02 | | BB,S MULTI(\$10),\$+2.32 | | EB000055 |
| 8* | 215754.40 | COCC00.71 | 8B 004000.00 FO | | CMOC00(BU,4),S RD(\$11) | -RESET UNIT STA BITS - SINGLE U C | EB000056 |
| 9* | 215755.40 | 215760.10 | 00 | | B,K K REL | | EB000057 |
| 10* | 215756.00 | COCC00.65 | 8B 215760.34 02 | | BB,S I MNT(\$11),K K REL | | EB000058 |
| 11* | 215757.00 | COCC00.63 | 8B 012000.00 FC | | CMOC00(BU,10),S MOUNT(\$11) | -RESET UNIT ST BITS - MULTI U C | EB000059 |
| 12* | 215760.00 | COCC00.75 | 8B 220017.74 06 | K K REL | BBZ,S REL(\$11),W 23K | -CHECK IF RELEASED | EB000060 |
| 13* | 215761.00 | COCC00.56 | 8B 216235.74 06 | | BBZ,S SECP(\$11),K FREE | | EB000061 |
| 14* | 215762.00 | 215021.23 | 01 | K Q IN | LVI,9,S PROG S | | EB000062 |
| 15* | 215762.40 | COCC00.54 | 39 | | LV,6,S Q K(\$9) | | EB000063 |
| 16* | 215763.00 | COCC10.17 | 50 | | SC,7,\$L | -STATUS BITS TO CCW IN FILE A | EB000064 |
| 17* | 215763.40 | COCC04.23 | 8D 005071.12 FO | | CMO101(BU,5),S CCW+.19(\$13),-14 | | EB000065 |
| 18* | 215764.40 | COCC01.54 | 89 | | V+,6,S Q K+1.0(\$9) | | EB000066 |
| 19* | 215765.00 | 000177.15 | 04 | | KVI,6,127. | | EB000067 |
| 20* | 215765.40 * | 216313.33 | 42 | | BXH,C Q2BIG | | EB000068 |
| 21* | 215766.00 | 215466.20 | 30 | | LV,8,S CUM Q | | EB000069 |
| 22* | 215766.40 | COCC00.36 | 8B 001000.36 FC | | CM1111(BU,1),S UN SUP(\$11) | | EB000070 |
| 23* | 215767.40 | COCC10.33 | 30 | | SV,13,\$L | | EB000071 |
| 24* | 215770.00 | COCC00.40 | 8B 001066.46 70 | | COO11(BU,1),S OWNER(\$11),-19 | | EB000072 |
| 25* | 215771.00 | 215772.34 | 02 | | BRZ,K LEVEL | | EB000073 |
| 26* | 215771.40 | COCC01.23 | 05 | | V+I,9,1.0 | | EB000074 |
| 27* | 215772.00 | 215001.05 | 80 001066.60 00 | K LEVEL | ST(BU,1),S M,-19 | | EB000075 |
| 28* | 215773.00 | COCC00.23 | 88 123066.60 00 | | ST(V+I)(BU,19),.19(\$8),-19 | | EB000076 |
| 29* | 215774.00 | 215466.21 | 30 | | SV,8,S CUM Q | | EB000077 |
| 30* | 215774.40 | COCC00.40 | 89 022000.22 00 | | M+I(BU,18),S Q K(\$9) | | EB000078 |
| 31* | 215775.40 | COCC00.10 | 01 | | B,0.0(\$1) | | EB000079 |
| 32* | 215776.00 | COCC036.37 | 02 | K NCRM | LCI,15,30 | | EB000080 |
| 33* | 215776.40 | 215001.04 | 80 001066.63 10 | | KF(BU,1),SL,-19 | -1S SM = SL | EB000081 |
| 34* | 215777.40 | 216223.76 | 42 | | BAL,K SUPRS | | EB000082 |
| 35* | 216000.00 | 215265.00 | 30 | | LV,0,S TIC | | EB000083 |
| 36* | 216000.40 | COCC01.41 | 30 | | SV,0,S INT AD(\$13) | | EB000084 |
| 37* | 216001.00 * | 216215.37 | 42 | | BAH,C MINTP | -MCP INTERRUPTING PP | EB000085 |
| 38* | 216001.40 | COCC00.20 | 39 | | LV,8, C.0(\$9) | | EB000086 |
| 39* | 216002.00 | 216226.71 | 40 | | BZXVZ, C WAIT | -BRANCH IF WAITING | EB000087 |
| 40* | 216002.40 | COCC00.31 | 89 216242.34 02 | | BB,S AS(\$9),K SUPP | | EB000088 |
| 41* | 216003.40 | COCC00.75 | 89 216242.34 02 | | BB,S SIO(\$9),K SLPP | | EB000089 |
| 42* | 216004.40 | 215001.05 | 80 216007.34 02 | K COMM | BB,S M,\$+2.32 | -BRANCH IF SM IS MCP | EB000090 |
| 43* | 216005.40 | 215230.00 | 80 215266.36 20 | | T,15,STLR,S LR PP | | EB000091 |
| 44* | 216006.40 | 222037.10 | 00 | | B,K UNSTC | | EB000092 |
| 45* | 216007.00 | 215230.00 | 80 215362.36 20 | | T,15,S TLR,S LR MCP | | EB000093 |
| 46* | 216010.00 | 222037.10 | 00 | K NINTY | B,K UNSTC | -NCT FOUND RETURN | EB000094 |
| 47* | 216010.40 | COCC02.02 | 30 | K INT TY | LV,1,S TCE LC(\$13) | | EB000095 |
| 48* | 216011.00 | COCC00.31 | 89 001000.36 FO | | CM1111(BU,1),S AS(\$9) | | EB000096 |
| 49* | 216012.00 | COCC00.04 | 30 | | LV,2,S IDD RN(\$13) | | EB000097 |
| 50* | 216012.40 | 215021.23 | 00 | | V-I,9,S PROG S | | EB000098 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 216013 |
|------|-------------|-----------|--------|--------------|-------------------------------------|-----------------------------|----------|
| 1* | 216013.00 | 216015.71 | 42 | | BXVZ,K PP INT | | EB000100 |
| 2* | 216013.40 | 215003.04 | 80 | | V+,2,S BA MCP | | EB000101 |
| 3* | 216014.00 * | 215224.00 | 80 | 000003.02 A0 | TI,1,S BNDRS,3.0 | -SET MCP BOUNDARY | EB000102 |
| 4* | 216015.00 | 216022.10 | C0 | | B,RSKBND | | EB000103 |
| 5* | 216015.40 | 215005.04 | 80 | K PP INT | V+,2,S BA PP | | EB000104 |
| 6* | 216016.00 | 215324.00 | 80 | 000003.02 A0 | TI,1,S LR BU,3.0 | -SET PP BOUNDARY | EB000105 |
| 7* | 216017.00 | 215324.42 | 90 | | KV,\$1,SLRBU.32 | | EB000106 |
| 8* | 216017.40 | 216044.32 | 42 | | BXL,RNGTOE | | EB000106 |
| 9* | 216020.00 | 000021.30 | 30 | | LV,\$12,\$1 | | EB000107 |
| 10* | 216020.40 | 000005.31 | 05 | | V+I,\$12,5.0 | | EB000107 |
| 11* | 216021.00 | 215324.30 | 90 | | KV,\$12,SLRBU | | EB000108 |
| 12* | 216021.40 | 216044.32 | 40 | | BZXL,RNGTOE | | EB000108 |
| 13* | 216022.00 | 000000.30 | 32 | RSKBND | LV,\$12,(\$2) | | EB000109 |
| 14* | 216022.40 | 000000.24 | 3C | | LV,10,S CHAN N(\$12) | | EB000110 |
| 15* | 216023.00 | 000004.23 | 8D | 005000.00 F0 | CM0000(BU,5),S CCW+.19(\$13) | | EB000111 |
| 16* | 216024.00 | 000032.24 | 80 | | V+,10,\$10 | | EB000112 |
| 17* | 216024.40 | 215002.24 | 80 | | V+,10,S CHAN S | | EB000113 |
| 18* | 216025.00 | 000000.33 | 8A | 216047.34 00 | BZB,S MULTI(\$10),K D000 | | EB000114 |
| 19* | 216026.00 | 000000.26 | 3A | | LV,11,0.0(\$10) | | EB000115 |
| 20* | 216026.40 | 000000.66 | BC | | V+,11,.32(\$12) | | EB000116 |
| 21* | 216027.00 | 000000.36 | 8B | 001000.00 F0 | K CANCL CM0000(BU,1),S UN SUP(\$11) | | EB000117 |
| 22* | 216030.00 * | 000000.00 | 8D | 000000.04 A1 | TI,2,0.0(\$13),0.0(\$1) | | EB000118 |
| 23* | 216031.00 | 215373.42 | 60 | | LWF(U),S LR MCP+9.0 | | EB000119 |
| 24* | 216031.40 | 000014.40 | E0 | | ST(U),\$MASK | | EB000120 |
| 25* | 216032.00 | 000013.17 | 80 | 005000.06 70 | LF(BU,5),\$IND+.15 | -IF AD,OP,USA OR DS | EB000121 |
| 26* | 216033.00 | 720000.00 | 80 | 405000.03 70 | CTIC001(BU,5),(2)111C1 | | EB000122 |
| 27* | 216034.00 | 216242.34 | C0 | | BZRZ,KSUPP | -LET IT HAPPEN | EB000123 |
| 28* | 216034.40 | 000013.22 | C0 | | Z,\$INC | | EB000124 |
| 29* | 216035.00 | 000037.22 | C0 | | Z,\$15 | | EB000124 |
| 30* | 216035.40 | 216036.11 | 46 | | BEXEZ,\$+.32 | | EB000125 |
| 31* | 216036.00 | 000001.11 | 8D | 216042.74 02 | BB,S IO IND(\$13),C ERROR | -TEST INTERRUPT TYPE - EPGK | EB000126 |
| 32* | 216037.00 | 000001.12 | 8D | 216042.74 02 | BB,S IO IND+.1(\$13),C ERROR | - UK | EB000127 |
| 33* | 216040.00 | 000001.13 | 8D | 216043.34 02 | BB,S IO IND+.2(\$13),K END E | - EE | EB000128 |
| 34* | 216041.00 | 000001.14 | 8D | 216043.74 00 | BZB,S IC IND+.3(\$13),K C SIGL | -CS | EB000129 |
| 35* | 216042.00 | 000005.00 | C1 | | BE,5.0(\$1) | | EB000130 |
| 36* | 216042.40 | 000002.00 | C1 | | C ERROR BE,2.0(\$1) | | EB000131 |
| 37* | 216043.00 | 000003.00 | C1 | | K END E BE,3.0(\$1) | | EB000132 |
| 38* | 216043.40 * | 000004.00 | 01 | | K C SIGL BE,4.0(\$1) | | EB000133 |
| 39* | 216044.00 | 000036.31 | C2 | | RNGTOE LCI,\$12,30.0 | | EB000134 |
| 40* | 216044.40 | 215266.00 | 80 | 215230.30 20 | T,\$12,SLRPP,STLR | | EB000135 |
| 41* | 216045.40 | 010005.35 | 01 | | LVI,\$14,SPPTNG | | EB000136 |
| 42* | 216046.00 | 217451.40 | 80 | | SIC,SCISIC | | EB000137 |
| 43* | 216046.40 | 217372.10 | C0 | | B,SCISP | | EB000137 |
| 44* | 216047.00 | 000032.26 | 30 | | K D000 LV,11,\$10 | | EB000138 |
| 45* | 216047.40 | 216027.10 | C0 | | B,K CANCL | | EB000139 |
| 46* | 216050.00 | 000032.26 | 30 | | K SINGL LV,11,\$10 | | EB000140 |
| 47* | 216050.40 | 000000.35 | 8B | 216242.34 02 | BB,SUNASG(\$11),KSUPP | | EB000141 |
| 48* | 216051.40 | 215240.16 | 50 | | LC,7,S TLR+8.C | | EB000142 |
| 49* | 216052.00 | 215732.10 | 00 | | B,K D000 | | EB000143 |
| 50* | 216052.40 | 000001.11 | 04 | | K MAL KVI,4,1.0 | -IS EQUIP CONSOLE | EB000144 |
| 51* | 216053.00 | 216620.72 | C2 | | BXE,P CON E1 | | EB000145 |
| 52* | 216053.40 | 215730.10 | 00 | | B,K KK | | EB000146 |
| 53* | 216054.00 | 000020.17 | 02 | | K SIGNL LCI,7,16 | -CS IND TO CF(\$7) | EB000147 |
| 54* | 216054.40 | 000004.11 | 04 | | KVI,4,4.0 | | EB000148 |
| 55* | 216055.00 | 216052.72 | C0 | | BZXE,K MAL | | EB000149 |
| 56* | 216055.40 | 000000.73 | 8A | 004067.20 50 | L(BU,4),SUNITK(\$10),-18 | | EB000150 |

| LINE | LOCATIONN | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 216056 | |
|------|-------------|-----------|--------|--------------|--------------------|-------------------------------|------------------------|----------|
| 1* | 216056.40 | 000010.26 | 50 | | LC,11,\$L | | EBC00151 | |
| 2* | 216057.00 * | 000000.26 | 3A | | LV,11,S UN A(\$10) | | EBC00152 | |
| 3* | 216057.40 | 000010.26 | 80 | | V+,11,\$L | | EBC00153 | |
| 4* | 216060.CC | 000001.27 | 0D | | V-I,11,1.0 | | EBC00154 | |
| 5* | 216060.40 | 000000.64 | 8B | 216110.74 02 | K HUNT | BB,S REW(\$11),K STAB | EBC00155 | |
| 6* | 216061.40 | 000000.63 | 8B | 216110.74 02 | | BB,S MCUNT(\$11),K STAB | EBC00156 | |
| 7* | 216062.40 | 216060.67 | C8 | | K HEX | CB-,11,K HUNT | EBC00157 | |
| 8* | 216063.00 | 000000.70 | 8A | 003067.20 50 | | L(BU,3),S UNIT(\$10),-18 | EBC00158 | |
| 9* | 216064.00 | 000036.27 | 02 | | | LCI,\$11,KREP | EBC00159 | |
| 10* | 216064.40 | 000010.14 | 30 | | | LV,6,\$L | EBC00160 | |
| 11* | 216065.CC | 000036.C3 | C2 | | K PUNT | LCI,1,K REP | EBC00161 | |
| 12* | 216065.40 | 000000.00 | 8E | 000000.17 06 | | LOC(SECP),0.0(\$14),0.0(\$6) | EBC00162 | |
| 13* | 216066.40 | 216070.03 | 44 | | | BZEKJZ,\$+1.32 | EBC00163 | |
| 14* | 216067.CC | 216065.42 | 48 | | | CB,1,\$-1.32 | EBC00164 | |
| 15* | 216067.40 | 221300.10 | 00 | | | B,K REJT | EBC00164 | |
| 16* | 216070.CC | 216072.04 | 44 | | | BZCBJZ,K NET | EBC00165 | |
| 17* | 216070.40 | 221313.40 | 80 | | RCLRUK | SIC,KCBJR | EBC00166 | |
| 18* | 216071.00 | 221302.50 | 00 | | | B,KCLEAR | EBC00166 | |
| 19* | 216071.40 | 216065.10 | C0 | | | B,K PUNT | EBC00167 | |
| 20* | 216072.CC | 000036.03 | 02 | | K NET | LCI,1,K REP | -WAIT FOR END CP | EBC00168 |
| 21* | 216072.40 * | 000000.00 | 8E | 216332.21 00 | | CCW,0.0(\$14),K RECEP | EBC00169 | |
| 22* | 216073.40 | 216075.C3 | 44 | | | BZEKJZ,\$+1.32 | EBC00170 | |
| 23* | 216074.CC | 216072.42 | 48 | | | CB,1,\$-1.32 | EBC00171 | |
| 24* | 216074.40 | 221300.10 | 00 | | | B,K REJT | EBC00171 | |
| 25* | 216075.00 | 216332.23 | 80 | 006000.20 50 | | L(BU,6),K RECEP.19 | EBC00172 | |
| 26* | 216076.00 | 216104.74 | C2 | | | BRZ,K K SET | EBC00173 | |
| 27* | 216076.40 | 216332.30 | 80 | 216072.34 02 | | BB,K RECEP.24,K NET | -IF SECP BIT ON, LCOP | EBC00174 |
| 28* | 216077.40 | 610000.00 | 80 | 406000.C2 70 | | CI0001(BU,6),(.5,2)110001 | EBC00175 | |
| 29* | 216100.40 | 216102.34 | C2 | | | BRZ,RINTOK | EBC00176 | |
| 30* | 216101.00 | 216070.66 | 48 | | | CB,\$11,RCLRUK | EBC00177 | |
| 31* | 216101.40 | 221274.10 | C0 | | | B,KSOS | EBC00177 | |
| 32* | 216102.00 | 216332.25 | 80 | 216104.74 00 | RINTOK | BZB,KRECEP.21,KKSET | EBC00178 | |
| 33* | 216103.00 | 000001.27 | 02 | | | LCI,\$11,1.0 | EBC00179 | |
| 34* | 216103.40 | 000001.27 | C5 | | | V+I,\$11,1.0 | EBC00179 | |
| 35* | 216104.CC | 216134.10 | C0 | | | B,RNTMCP+1.0 | EBC00180 | |
| 36* | 216104.40 | 215001.07 | 80 | 216242.34 04 | K K SET | BZBZ,S CS INT,K SUPP | -RETURN IF STRAY CS | EBC00181 |
| 37* | 216105.40 * | 216171.37 | 80 | 001000.CC F0 | | CM0000(BU,1),KCSQ.31 | EBC00182 | |
| 38* | 216106.40 | 216171.26 | 30 | | | LV,11,K CS Q | EBC00183 | |
| 39* | 216107.00 | 000000.40 | 8B | 001066.46 70 | | CO011(BU,1),S OWNER(\$11),-19 | EBC00184 | |
| 40* | 216110.CC | 215776.10 | 00 | | | B,K NGRM | EBC00185 | |
| 41* | 216110.40 | 000022.27 | 50 | | K STAB | SC,11,\$2 | -TEST IF UNIT IS READY | EBC00186 |
| 42* | 216111.CC | 000001.C5 | C0 | | | V-I,2,1.0 | EBC00187 | |
| 43* | 216111.40 | 000036.03 | 02 | | | LCI,1,K REP | EBC00188 | |
| 44* | 216112.00 | 000000.00 | 8E | 000000.17 02 | | LOC(SECP),0.0(\$14),0.0(\$2) | EBC00189 | |
| 45* | 216113.00 | 216114.43 | 44 | | | BZEKJZ,\$+1.32 | EBC00190 | |
| 46* | 216113.40 | 216112.02 | 48 | | | CB,1,K STAB+1.32 | EBC00191 | |
| 47* | 216114.CC | 221300.10 | 00 | | | B,K REJT | EBC00191 | |
| 48* | 216114.40 | 216116.44 | 44 | | | BZCBJZ,KSTAG | EBC00192 | |
| 49* | 216115.00 | 221313.40 | 80 | | | SIC,KCBJR | EBC00193 | |
| 50* | 216115.40 | 221302.50 | 00 | | | B,KCLEAR | EBC00193 | |
| 51* | 216116.00 | 216111.50 | 00 | | | B,KSTAB+1.0 | EBC00194 | |
| 52* | 216116.40 | 000036.03 | 02 | | KSTAG | LCI,1,KREP | EBC00195 | |
| 53* | 216117.CC | 000000.C0 | 8E | 216332.21 00 | | CCW,0.0(\$14),K RECEP | EBC00196 | |
| 54* | 216120.CC | 216121.43 | 44 | | | BZEKJZ,\$+1.32 | EBC00197 | |
| 55* | 216120.40 | 216117.02 | 48 | | | CB,1,\$-1.32 | EBC00198 | |
| 56* | 216121.00 | 221300.10 | 00 | | | B,K REJT | EBC00198 | |

| LINE | LOCATICN | INARY | CUTPUT | NAME | STATEMENT | LOCATION | 216121 | |
|------|-------------|------------|--------|-----------|-----------|---------------------------------|-------------------------------|----------|
| 1* | 216121.40 * | 216332.30 | 80 | 216116.74 | 02 | BB,K RECEP.24,K STAG | -IF SEOP BIT ON, LOOP | EB000199 |
| 2* | 216122.40 | 216332.22 | 80 | 216062.74 | 00 | BZB,K RECEP.18,K HEX | -IF UNIT IS NOT READY, SKIP | EB000200 |
| 3* | 216123.40 | 000000.65 | 8B | 216153.74 | 04 | BZBZ,SIMNT(\$11),ZRCPFC | | EB000201 |
| 4* | 216124.40 | 000000.64 | 8B | 216062.74 | 06 | BBZ,SREW(\$11),KHEX | | EB000202 |
| 5* | 216125.40 | 000000.63 | 8B | 216153.74 | 04 | BZBZ,SMCUNT(\$11),ZRCPFC | | EB000203 |
| 6* | 216126.40 | 000000.40 | 8B | 216133.34 | 00 | BZB,SCOWNER(\$11),RNTMCP | | EB000204 |
| 7* | 216127.40 | 216146.02 | 10 | | | LX,1,RSRC | | EB000205 |
| 8* | 216130.00 | 000000.30 | 3B | | | LV,12,SUNA(\$11) | | EB000206 |
| 9* | 216130.40 | 000003.32 | 3C | | | LV,13,SFIAAC(\$12) | | EB000207 |
| 10* | 216131.00 | 000000.04 | 3D | | | LV,2,SICDRN(\$13) | | EB000208 |
| 11* | 216131.40 | 000000.04 | 91 | | | KV,2,(\$1) | | EB000209 |
| 12* | 216132.00 | 216152.72 | C2 | | | BXE,RMCPCS | | EB000209 |
| 13* | 216132.40 | 216131.42 | C8 | | | CBH,1,RKMP | | EB000210 |
| 14* | 216133.00 | 216332.25 | 80 | 216062.74 | 00 | RNTMCP BZB,KRECEP.21,KHEX | | EB000211 |
| 15* | 216134.00 | 221313.40 | 80 | | | SIC,KCBJR | | EB000212 |
| 16* | 216134.40 | 221302.50 | 00 | | | B,KCLEAR | | EB000212 |
| 17* | 216135.00 * | 000016.01 | 01 | | | LVI,\$0,14.0 | | EB000213 |
| 18* | 216135.40 | 220231.41 | 00 | | | SVA,\$0,ZCTLRW.32 | | EB000213 |
| 19* | 216136.00 | 215001.04 | 80 | 216140.34 | 00 | BZB1,SL,\$+2.0 | | EB000214 |
| 20* | 216137.00 | 216146.76 | 80 | 001000.36 | F0 | CM1111(BU,1),RSRC.62 | | EB000214 |
| 21* | 216140.00 | 220234.00 | 80 | | | SIC,ZCOMRT-.32 | | EB000215 |
| 22* | 216140.40 | 220230.10 | 00 | | | B,ZCTLRW-1.0 | | EB000215 |
| 23* | 216141.00 | 216146.76 | 80 | 216143.34 | 06 | BBZ,RSRC.62,\$+2.0 | | EB000216 |
| 24* | 216142.00 | 215001.04 | 80 | 001000.00 | F0 | CM0000(BU,1),SL | | EB000216 |
| 25* | 216143.00 | 000136.01 | 01 | | | LVI,\$0,94.0 | | EB000217 |
| 26* | 216143.40 | 220231.41 | 00 | | | SVA,\$0,ZCTLRW.32 | | EB000217 |
| 27* | 216144.00 | 216242.01 | 01 | | | LVI,\$0,KSUPP | | EB000218 |
| 28* | 216144.40 | 220234.01 | 00 | | | SVA,\$0,ZCOMRT-.32 | | EB000218 |
| 29* | 216145.00 | 216062.50 | 00 | | | B,KHEX | | EB000219 |
| 30* | 216146.00 | 216147.00+ | 000 | 000007 | 000000 | RSRC XW,RTABLE,7 | | EB000220 |
| 31* | 216147.00 | 000004.00+ | | | | RTABLE VF,VRTP | | EB000221 |
| 32* | 216147.40 | 000006.00+ | | | | VF,VWTP | | EB000221 |
| 33* | 216150.00 | 000013.00+ | | | | VF,CT11 | | EB000222 |
| 34* | 216150.40 * | 000014.00+ | | | | VF,CT21 | | EB000222 |
| 35* | 216150.71 | 000000.07 | | | | DRZ(BU,7),1 | | EB000223 |
| 36* | 216151.00 | 000001.40 | | | | DRZ(BU,32),3 | | EB000224 |
| 37* | 216152.40 | 000020.17 | 02 | | | LCI,7,16. | | EB000225 |
| 38* | 216153.00 | 216161.10 | 00 | | | B,KFAKE+1.0 | | EB000226 |
| 39* | 216153.40 | 000000.01 | 09 | | | ZRCPFC LVNI,\$0,0 | | EB000227 |
| 40* | 216154.00 | 000000.30 | 3B | | | LV,12,S UN A(\$11) | | EB000228 |
| 41* | 216154.40 | 000007.41 | 3C | | | SV,C,S FILEK(\$12) | | EB000229 |
| 42* | 216155.00 | 000020.17 | 02 | | | LCI,7,16 | | EB000230 |
| 43* | 216155.40 | 000003.32 | 3C | | | LV,13,S FI A AC(\$12) | | EB000231 |
| 44* | 216156.00 | 000004.22 | 8D | 001000.36 | F0 | CM1111(BU,1),S CCW.18(\$13) | -TURN ON UNR STATUS BIT IN CW | EB000232 |
| 45* | 216157.00 | 000000.63 | 8B | 216171.74 | 06 | BBZ,S MOUNT(\$11),K MOUNT | | EB000233 |
| 46* | 216160.00 | 000000.64 | 8B | 001000.00 | F0 | K FAKE CM0000(BU,1),S REW(\$11) | | EB000234 |
| 47* | 216161.00 | 000001.17 | 5D | | | SC,7,1.C(\$13) | | EB000235 |
| 48* | 216161.40 | 000000.75 | 8B | 216202.34 | 06 | BBZ,S REL(\$11),K RELES | -BR. IF RELEASE | EB000236 |
| 49* | 216162.40 | 000000.56 | 8B | 216062.74 | 06 | BBZ,S SEOP(\$11),K HEX | | EB000237 |
| 50* | 216163.40 | 216171.37 | 80 | 216170.34 | 02 | BB,KCSQ.31,ZKCSQ | | EB000238 |
| 51* | 216164.40 | 000000.40 | 8B | 216166.74 | 00 | BZB,SCOWNER(\$11),\$+2.0 | | EB000239 |
| 52* | 216165.40 * | 216171.37 | 80 | 001000.36 | F0 | CM1111(BU,1),KCSQ.31 | | EB000240 |
| 53* | 216166.40 | 215001.07 | 80 | 001000.36 | F0 | CM1111(BU,1),S CS INT | | EB000241 |
| 54* | 216167.40 | 216171.27 | 30 | | | SV,11,K CS Q | | EB000242 |
| 55* | 216170.00 | 216062.43 | 01 | | | ZKCSQ LVI,\$1,KHEX | | EB000243 |
| 56* | 216170.40 | 215762.10 | 00 | | | B,K Q IN | | EB000244 |

| LINE | LOCATIONN | BINARY | OUTPUT | NAME | STATEMENT | LOCATIONN | 216171 |
|------|-------------|------------|--------|---------|-----------------------------------|----------------------------------|----------|
| 1* | 216171.00 | CCCC00.00+ | | K CS Q | VF,C | | EB000245 |
| 2* | 216171.40 | 000010.46 | 3C | K MCUNT | LV,3,S C REEL(\$12) | | EB000246 |
| 3* | 216172.00 | 000010.71 | 8C | | M+1,S REEL K(\$12) | | EB000247 |
| 4* | 216173.00 | 000000.06 | 33 | | LV,3,0.C(\$3) | -UPDATE CURRENT REEL FILLD | EB000248 |
| 5* | 216173.40 | 000010.47 | 3C | | SV,3,S C REEL(\$12) | | EB000249 |
| 6* | 216174.00 | 000000.33 | 83 | | BZB,SYSTAP(\$3),KNONS | -TEST THIS LABEL | EB000250 |
| 7* | 216175.00 | 000000.50 | 8B | | CM1111(BU,1),S VER(\$11) | -IF SO,MUST BE VERIFIED | EB000251 |
| 8* | 216176.00 | 000007.31 | 8C | | CM1111,SSYSTEM(\$12) | | EB000252 |
| 9* | 216177.00 | 216161.10 | 00 | | B,K FAKE+1.0 | | EB000253 |
| 10* | 216177.40 | 000000.50 | 8B | K NONS | CM1111(BU,1),S VER(\$11) | -SET VER IN FOR REMCUNT | EB000254 |
| 11* | 216200.40 * | 000007.31 | 8C | | CM0000(BU,1),S SYSTM(\$12) | | EB000255 |
| 12* | 216201.40 | 216161.10 | 00 | | B,K FAKE+1.0 | | EB000256 |
| 13* | 216202.00 | 000000.37 | 8B | K RELES | CM0000(BU,1),S SET UP(\$11) | | EB000257 |
| 14* | 216203.00 | 000040.17 | 02 | | LCI,7,(8)40 | | EB000258 |
| 15* | 216203.40 | 216160.10 | 00 | | B,K FAKE | | EB000259 |
| 16* | 216204.00 | 000000.72 | 8B | K SPACE | BB,S WR(\$11),K COPY | | EB000260 |
| 17* | 216205.00 | 000000.71 | 8B | | BB,SRD(\$11),KFORWD | | EB000261 |
| 18* | 216206.00 | 374000.00 | 80 | | KI(BU,8),(8)176 | | EB000262 |
| 19* | 216207.00 | 216211.36 | 40 | | BZAL,\$+2.0 | | EB000263 |
| 20* | 216207.40 | 000007.46 | 8C | K FORWD | M+1,S FILE K(\$12) | | EB000264 |
| 21* | 216210.40 | 215742.10 | 00 | | B,K STACK | | EB000265 |
| 22* | 216211.00 | 000007.46 | 8C | | M-1,SFILEK(\$12) | | EB000266 |
| 23* | 216212.00 | 215746.74 | 00 | | BZRZ,KGATE | | EB000267 |
| 24* | 216212.40 | 220064.10 | 00 | | B,KILEGL | | EB000268 |
| 25* | 216213.00 | 236000.00 | 80 | K WEF | KI(BU,8),79 | | EB000269 |
| 26* | 216214.00 | 216207.76 | 02 | | BAE,K FCRWD | | EB000270 |
| 27* | 216214.40 * | 215742.10 | 00 | | B,K STACK | | EB000271 |
| 28* | 216215.00 | 000013.17 | 80 | CMINTP | CT0011(BU,5),\$IND+.15 | -CHECK FOR OP,AD,USA OR DS | EB000272 |
| 29* | 216216.00 | 216220.74 | 02 | | BRZ,CMINTZ | -EXE SHOULD BE OFF AT THIS POINT | EB000273 |
| 30* | 216216.40 | 216217.07 | 06 | | BOPZ,\$+.32 | | EB000274 |
| 31* | 216217.00 | 216217.50 | 46 | | BADZ,\$+.32 | | EB000275 |
| 32* | 216217.40 | 216220.10 | 06 | | BUSAZ,\$+.32 | | EB000276 |
| 33* | 216220.00 | 216220.51 | 06 | | BDSZ,\$+.32 | | EB000277 |
| 34* | 216220.40 | 000036.37 | 02 | CMINTZ | LCI,\$15,30.0 | | EB000278 |
| 35* | 216221.00 | 215230.00 | 80 | | T,15,S TLR,S LR BU | | EB000279 |
| 36* | 216222.00 | 215001.04 | 80 | | CM1111(BU,1),S L | | EB000280 |
| 37* | 216223.00 | 222037.10 | 00 | | B,K UNSTC | | EB000281 |
| 38* | 216223.40 | 215361.00 | 30 | K SUPRS | LV,C,S IC BU | | EB000282 |
| 39* | 216224.00 | 000001.41 | 3D | | SV,C,S INT AD(\$13) | | EB000283 |
| 40* | 216224.40 | 216242.10 | 00 | | B,K SUPP | | EB000284 |
| 41* | 216225.00 | 000000.75 | 89 | C NOWAT | BB, S SID(\$9),K SUPP | | EB000285 |
| 42* | 216226.00 | 216004.50 | 00 | | B,K COMM | | EB000286 |
| 43* | 216226.40 | 000000.31 | 89 | C WAIT | BB, S AS(\$9), K SUPP | | EB000287 |
| 44* | 216227.40 | 000030.32 | 90 | | KV,13,\$8 | | EB000288 |
| 45* | 216230.00 * | 216225.32 | 00 | | BZXE,C NOWAT | | EB000289 |
| 46* | 216230.40 | 000036.37 | 02 | | LCI,15,30 | | EB000290 |
| 47* | 216231.00 | 216010.03 | 01 | | LVI,1,K NINTY | | EB000291 |
| 48* | 216231.40 | 215001.05 | 80 | | BB,S M,C JUMP | | EB000292 |
| 49* | 216232.40 | 215230.00 | 80 | | T,15,S TLR,S LR PP | | EB000293 |
| 50* | 216233.40 | 222020.10 | 00 | | B,K SERCH | | EB000294 |
| 51* | 216234.00 | 215230.00 | 80 | C JUMP | T,15,S TLR,S LR MCP | | EB000295 |
| 52* | 216235.00 | 222020.10 | 00 | | B,K SERCH | | EB000296 |
| 53* | 216235.40 | 000004.30 | 8D | KFREE | CM0000(BU,1),SCCW+.24(\$13) | | EB000297 |
| 54* | 216236.40 | 000027.45 | 80 | | L(BU,3),\$7.37 -EPGK,LK, OR EE ON | | EB000298 |
| 55* | 216237.40 | 215265.00 | 30 | | LV,\$0,STIC | | EB000299 |
| 56* | 216240.00 | 000001.41 | 3D | | SV,\$0,SINTAD(\$13) | | EB000299 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 216240 | | |
|------|-----------|--------------|--------|-----------|----------------------|-------------------------------|----------------------------------|------------------------------|----------|
| 1* | 216240.40 | 215762.34 | C0 | | BZRZ,K C IN | | EB000300 | | |
| 2* | 216241.00 | 000004.26 | 8D | 001000.CC | FO | CM0000(BU,1),S CCW+.22(\$13) | -IF NOT, TURN OFF EOP IN CCW | EB000301 | |
| 3* | 216242.00 | 216246.70 | 00 | K SUPP | NOP,K CCMM R | | EB000302 | | |
| 4* | 216242.40 | 216273.30 | 00 | K SUP CS | NOP,K MT CSQ | | -BRANCH IF CS QUEUE NOT EMTY | EB000303 | |
| 5* | 216243.00 | 215265.00 | 30 | | LV,C,S TIC | | EB000304 | | |
| 6* | 216243.40 | * 216246.01 | 30 | | SV,0,\$+2.32 | | EB000305 | | |
| 7* | 216244.00 | C00035.37 | 02 | | LCI,15,29 | | EB000306 | | |
| 8* | 216244.40 | 215231.44 | A0 | | LFT(U),STLR+1.0 | | -RESTORE \$MR | EB000307 | |
| 9* | 216245.00 | 215230.00 | 80 | 000003.36 | 20 | T,15,S TLR,3.0 | | EB000308 | |
| 10* | 216246.00 | 216246.00 | 00 | | BE,\$ | | -RETURN CONTROL | EB000309 | |
| 11* | 216246.40 | C00000.31 | 01 | K CCMM R | LVI,12,C.0 | | EB000310 | | |
| 12* | 216247.00 | 216242.23 | 80 | 001000.36 | FO | CM1111(BU,1),K SUPP.19 | | EB000311 | |
| 13* | 216250.00 | 216260.10 | 00 | K CONCP | B,KCOMCW+1.0 | | - IF CONCEPTOR,EOP | EB000312 | |
| 14* | 216250.40 | 215006.34 | 30 | | LV,\$14,JCNAD | | - CA | EB000313 | |
| 15* | 216251.00 | 215006.24 | 30 | | LV,\$10,JCNAD | | | EB000314 | |
| 16* | 216251.40 | C00032.24 | 80 | | V+,\$10,\$10 | | | EB000315 | |
| 17* | 216252.00 | 215002.24 | 80 | | V+,\$10,SCHANS | | -CST | EB000316 | |
| 18* | 216252.40 | C00000.26 | 3A | | LV,\$11,SUNA(\$10) | | -UST | EB000317 | |
| 19* | 216253.00 | 216257.23 | 80 | 004000.60 | 50 | L(BU,4),KCOMCW.19,1 | | EB000318 | |
| 20* | 216254.00 | 215240.11 | 80 | 005000.20 | DO | ST(BU,5),STLR+8.9 | | -INDICATORS | EB000319 |
| 21* | 216255.00 | 216250.23 | 80 | 001000.CC | FO | CM0000(BU,1),KCONCP.19 | | -RESET RRANCH | EB000320 |
| 22* | 216256.00 | 216644.10 | 00 | | B,PCONEZ | | | EB000321 | |
| 23* | 216257.00 | * CC0000.00+ | 000 | 000000 | 000000 | K COMCW | XW, | -CONCEPTOR INTERRUPTS | EB000322 |
| 24* | 216260.00 | C00000.66 | 3C | | LV,11,S UNIT N(\$12) | | | EB000323 | |
| 25* | 216260.40 | 000000.24 | 3C | | LV,10,S CHAN N(\$12) | | | EB000324 | |
| 26* | 216261.00 | 000032.24 | 80 | | V+,10,\$10 | | | EB000325 | |
| 27* | 216261.40 | 215002.24 | 80 | | V+,10,S CHAN S | | | EB000326 | |
| 28* | 216262.00 | C00000.26 | 8A | | V+,11,S UN A(\$10) | | | EB000327 | |
| 29* | 216262.40 | C00003.32 | 3C | | LV,13,S FI AAC(\$12) | | -OBTAIN ACTIVATED FILE AREA ADD | EB000328 | |
| 30* | 216263.00 | 215021.23 | 01 | | LVI,9,S PROG S | | | EB000329 | |
| 31* | 216263.40 | C00000.40 | 8B | 001066.46 | 70 | CO011(BU,1),S OWNER(\$11),-19 | | -LEVEL OF INTERRUPT | EB000330 |
| 32* | 216264.40 | 215001.05 | 80 | 001066.60 | DC | ST(BU,1),SM,-19 | | | EB000331 |
| 33* | 216265.40 | 215776.34 | C2 | | BRZ,K NORM | | -BRANCH IF PP INTERRUPT | EB000332 | |
| 34* | 216266.00 | C00001.23 | 05 | | V+I,9,1.0 | | -MCP INTERRUPT | EB000333 | |
| 35* | 216266.40 | 215776.10 | 00 | | B,K NCRM | | | EB000334 | |
| 36* | 216267.00 | C00036.00 | 80 | 023064.20 | 50 | K CS IN | L(BU,19),\$14,-24 | -CONVERT CHAN NC TO BIT ADDR | EB000335 |
| 37* | 216270.00 | C00010.36 | 30 | | LV,15,\$L | | | EB000336 | |
| 38* | 216270.40 | 216312.00 | 8F | 001000.36 | FO | CM1111(BU,1),K CS REG(\$15) | | -STACK CHAN SIGNAL | EB000337 |
| 39* | 216271.40 | 216242.63 | 80 | 001000.00 | FO | CM0000(BU,1),K SUP CS.19 | | -SWITCH GATE OPEN | EB000338 |
| 40* | 216272.40 | * 216272.50 | C0 | | K ST CS | B,\$ | | EB000339 | |
| 41* | 216273.00 | 216312.00 | 80 | 000040.06 | 70 | K MT CSQ | CO011(BU,64),K CS REG,64 | EB000340 | |
| 42* | 216274.00 | C00007.26 | 30 | | LV,11,\$LZC | | | EB000341 | |
| 43* | 216274.40 | C00007.74 | 50 | | LC,14,\$ADC | | | EB000342 | |
| 44* | 216275.00 | C00011.22 | 00 | | Z,\$R | | | EB000343 | |
| 45* | 216275.40 | C00007.21 | 80 | 007026.46 | 70 | LF(BU,7),\$LZC,45 | | -FIND CHAN NC | EB000344 |
| 46* | 216276.40 | C00011.24 | 30 | | LV,10,\$R | | | EB000345 | |
| 47* | 216277.00 | C00032.34 | 30 | | LV,14,\$10 | | | EB000346 | |
| 48* | 216277.40 | C00032.24 | 80 | | V+,10,\$10 | | | EB000347 | |
| 49* | 216300.00 | 215002.24 | 80 | | V+,10,S CHAN S | | -COMPUTE CHAN STATUS T ADDR | EB000348 | |
| 50* | 216300.40 | C00000.35 | 10 | | SX,14,C | | | EB000349 | |
| 51* | 216301.00 | C00000.32 | 8A | 216305.34 | 00 | BZB,S CH OP(\$10),K Z CS | | -CHECK IF CHAN BUSY | EB000350 |
| 52* | 216302.00 | 216243.30 | 42 | | BXCZ,K SUP CS.32 | | -IF SO, SEE IF ANY OTHER CS IN C | EB000351 | |
| 53* | 216302.40 | C00010.00 | 8B | 001000.00 | FO | CM0000(BU,1),\$L(\$11) | | EB000352 | |
| 54* | 216303.40 | 216312.00 | 80 | 000040.03 | 70 | CT0001(BU,64),K CS REG,64 | | EB000353 | |
| 55* | 216304.40 | 216274.10 | C0 | | B,K MT CSQ+1.0 | | -IF SO, LOOP | EB000354 | |
| 56* | 216305.00 | 216306.70 | 40 | | K Z CS | BZXCZ,\$+1.32 | -TEST IF ANY OTHER CS IN QUEUE | EB000355 | |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 216305 | |
|------|-------------|------------|--------|-----------|-----------|--|--------------------------------------|----------|
| 1* | 216305.40 * | 216242.63 | 80 | 001000.36 | FO | CM1111(BU,1),K SUP CS.19 | -IF SO, NOP ENTRY | EB000356 |
| 2* | 216306.40 | 216312.00 | 8B | 001000.00 | FO | CM0000(BU,1),K CS REG(\$11) | -RESET CS QUEUE | EB000357 |
| 3* | 216307.40 | 000020.17 | 02 | | | LCL,7,16 | -FAKE CS | EB000358 |
| 4* | 216310.00 | 000010.17 | 50 | | | SC,7,\$L | | EB000359 |
| 5* | 216310.40 | 215240.11 | 80 | 005071.52 | FO | CM0101(BU,5),S TLR+8.9,-13 | | EB000360 |
| 6* | 216311.40 | 215721.50 | 00 | | | B,S FAKE 1 | | EB000361 |
| 7* | 216312.00 * | 000001.00 | | | | K CS REG DRZ(BU,64),1 | | EB000362 |
| 8* | 216313.00 | 003410.35 | 01 | | | C Q2BIG LVI,\$14,SQ2BIG | -LOAD ERROR CODE AND | EB000363 |
| 9* | 216313.40 | 217451.40 | 80 | | | SIC,S DISIC | | EB000364 |
| 10* | 216314.00 | 217372.10 | 00 | | | B,S DISP | | EB000364 |
| 11* | 216314.40 | 000005.20 | 30 | | | K RELAY LV,8,S RET AD(\$12) | | EB000365 |
| 12* | 216315.00 | 000001.17 | 50 | | | SC,7,1.0(\$13) | | EB000366 |
| 13* | 216315.40 | 000000.10 | 08 | | | B,0.0(\$8) | | EB000367 |
| 14* | 216316.00 | 000003.34 | 80 | 022033.60 | 50 | C ARC AD L(BU,18),SCW.28(\$13),55-SDD | -ORIGINAL COUNT TO ACC | EB000368 |
| 15* | 216317.00 | 215001.01 | 80 | 001000.00 | FO | CM0000(BU,1),S HS ECH | | EB000369 |
| 16* | 216320.00 | 000004.00 | 10 | | | LX,C,S CCW(\$13) | -TEST IF FINAL CW COUNT IS ZERO | EB000370 |
| 17* | 216320.40 | 216327.30 | 40 | | | BZXGZ,K DISK E | | EB000371 |
| 18* | | | | | | | -\$L HOLDS NO OF ARCS WHICH EQUALS | EB000372 |
| 19* | 216321.00 | 000000.00 | 80 | 000000.23 | 10 | KF(BU,64),\$Z | -IS NO OF ARCS AN INTEGER | EB000373 |
| 20* | 216322.00 | 216323.76 | 02 | | | BAE, \$+1.32 | -IF YES, BRANCH | EB000374 |
| 21* | 216322.40 | 000010.00 | 80 | 000000.22 | 80 | M+1(BU,64), 8.0 | -IF NOT, ROUND UP BY ONE | EB000375 |
| 22* | 216323.40 | 000000.40 | 8A | 022040.20 | 10 | +, S ARC AD(\$10),64 | -ADD THIS TO S ARC AD AND RETURN THE | EB000376 |
| 23* | 216324.40 | 000000.40 | 8A | 022040.20 | 00 | ST(BU,18),SARC AD(\$10),64-SUM TO STORAGE IN | | EB000377 |
| 24* | 216325.40 * | 000006.00 | 80 | 022040.20 | 00 | ST(BU,18), SCUARC(\$13),64 - S ARC AD AND S CU ARC | | EB000378 |
| 25* | 216326.40 | 215746.50 | 00 | | | B,K GATE | | EB000379 |
| 26* | 216327.00 | 000000.40 | 8A | 022000.36 | FO | KDISKE CM1111(BU,18),SARCAC(\$10)-FORCE LOCATE ON NEXT I/O | | EB000380 |
| 27* | 216330.00 | 000003.00 | 10 | | | LX,C,S CW(\$13) | | EB000381 |
| 28* | 216330.40 | 000004.01 | 10 | | | SX,C,S CCW(\$13) | | EB000381 |
| 29* | 216331.00 | 215746.50 | 00 | | | B,K GATE | | EB000382 |
| 30* | 216332.00 | 000000.00+ | 000 | 000000 | 000000 | K RECEP XW,C | | EB000383 |

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| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------|--------|--------------|---|----------|
| 1* | | | | | - ***** | EC000001 |
| 2* | | | | | - ***** MASKABLE INTERRUPTS ***** | EC000002 |
| 3* | | | | | - ***** | EC000003 |
| 4* | 216333.00 * | | | | SLC,\$ | EC000004 |
| 5* | 216333.00 | 000003.00 | 80 | 215230.00 AC | W LODE TI,C,3.0,STLR -SAVE LR\$BC THRU \$2 | EC000005 |
| 6* | 216334.00 | 000023.00 | 80 | 215250.32 AO | TI,13,19.0,STLR+16.0 -SAVE LR \$3 THRU \$15 | EC000006 |
| 7* | 216335.00 | 215231.47 | A0 | | BE,STLR+1.32(.26,2)111101 -STM(U),STLR+1.0 - SAVE \$MR. | EC000007 |
| 8* | 216335.40 | 216336.07 | C6 | | BOPZ,\$.32 -FOR LASL LRL | EC000008 |
| 9* | 216336.00 | 000021.37 | 70 | | SR,15,\$1 | EC000009 |
| 10* | 216336.40 | 000000.03 | 30 | | SV,1,0.0 -SETS XVZ INDICATOR ON IF NO PTOE | EC000010 |
| 11* | 216337.00 | 216341.71 | 40 | | BZXVZ,WJTST | EC000011 |
| 12* | 216337.40 | 215163.03 | 01 | WCCNA | LVI,\$1,SFPT | EC000012 |
| 13* | 216340.00 | 216371.25 | 80 | 001000.36 FO | CM1111(BU,1),WCONY.21 -SELECT MCP TOE | EC000013 |
| 14* | 216341.00 | 216344.50 | 00 | | B,WCON+1.0 | EC000014 |
| 15* | 216341.40 | 215230.42 | 90 | WJTST | KV,\$1,SLOWER | EC000015 |
| 16* | 216342.00 | 216372.32 | 42 | | BXL,WJERR | EC000015 |
| 17* | 216342.40 | 215230.02 | 90 | | KV,\$1,SUPPER | EC000016 |
| 18* | 216343.00 | 216372.32 | 40 | | BZXL,WJERR | EC000016 |
| 19* | 216343.40 | 216371.25 | 80 | 001000.00 FO | WCCN CM0000(BU,1),WCONY.21 -SELECT PP TOE | EC000017 |
| 20* | 216344.40 | 216371.44 | 30 | | LV,\$2,WINTOR | EC000018 |
| 21* | 216345.00 | 215104.05 | 0D | | V-I,2,SIPT+1.0 -TYPE OF INTERRUPT AS FULL WORD | EC000019 |
| 22* | 216345.40 * | 000022.14 | 80 | 006064.20 50 | L(BU,6), \$2+.12,-24 -SHIFT INT TYPE TO BIT FIELD | EC000020 |
| 23* | 216346.40 | 000010.00 | 10 | | LX,0,\$L -INT TYPE IN BIT FIELD OF \$0 | EC000021 |
| 24* | 216347.00 | 000022.03 | 30 | | SV,1,\$2 -ADDRESS OF TCE | EC000022 |
| 25* | 216347.40 | 600000.07 | 0B | | LVS,3,\$0,\$1 -PREPARE TO CHECK PATTERN BIT | EC000023 |
| 26* | 216350.00 | 000003.00 | 83 | 216337.74 00 | BZB,3.0(\$3),WCONA -STANDARD FIXUP IF PATTERN BIT IS 0 | EC000024 |
| 27* | 216351.00 | 000001.00 | 80 | 422064.20 10 | W CCNE +I(BU,18),1.0,-24 -DEVELOP FIELD LENGTH | EC000025 |
| 28* | 216352.00 | 216356.43 | 80 | 006064.12 FO | SF(BU,6),WCONV+.35,-24-SET FIELD LENGTH | EC000026 |
| 29* | 216353.00 | 000100.00 | 80 | 422064.30 10 | -I(BU,18),64.0,-24 -DEVELOP OFFSET | EC000027 |
| 30* | 216354.00 | 216356.54 | 80 | 007064.12 FO | SF(BU,7),WCONV+.44,-24 -SET OFFSET | EC000028 |
| 31* | 216355.00 | 215166.04 | 80 | 054010.20 50 | L(BU,44),WPATT+.4,16 -MASK FOR PATTERN | EC000029 |
| 32* | 216356.00 | 000003.00 | 81 | 000000.03 70 | W CONV CT0001(BU,0),3.0(\$1) -SET ALL ONES COUNT | EC000030 |
| 33* | 216357.00 | 000007.40 | 30 | | LV,C,7.32 | EC000031 |
| 34* | 216357.40 | 000020.00 | 80 | | V+,C,\$0 -DEVELOP EXIT ADDRESS | EC000032 |
| 35* | 216360.00 | 500000.01 | 0B | | LVS,0,\$C,\$2 -DEVELOP EXIT ADDRESS | EC000033 |
| 36* | 216360.40 | 000003.01 | 05 | | V+I,0,3.0 -EXIT ADDRESS IN \$C | EC000034 |
| 37* | 216361.00 | 216371.01 | 00 | | SVA,0,WCONY -SET EXIT ADDRESS | EC000035 |
| 38* | 216361.40 * | 216371.25 | 80 | 216363.74 02 | BB,WCONY.21,\$+2.0 -IF MCP FIXUP | EC000036 |
| 39* | 216362.40 | 215001.13 | 80 | 001000.36 FO | CM1111(BU,1),SSPFIX -PUT PP IN SPECIAL FIXUP | EC000037 |
| 40* | 216363.40 | 215265.00 | 30 | | LV,\$0,STIC | EC000038 |
| 41* | 216364.00 | 000000.01 | 01 | | SVA,0,0.0(\$1) | EC000039 |
| 42* | 216364.40 | 215231.44 | A0 | | LFT(U),STLR+1.0 -RESTORE \$MR | EC000040 |
| 43* | 216365.00 | 215240.00 | 80 | 000001.04 A1 | TI,2,STLR+8.0,1.0(\$1) | EC000041 |
| 44* | 216366.00 | 215234.00 | 80 | 000007.32 AC | TI,13,STLR+4.0,7.0 -RESTORE USED LR | EC000042 |
| 45* | 216367.00 | 215373.00 | 80 | 000014.02 AO | TI,1,SLRMCP+9.0,\$MASK | EC000043 |
| 46* | 216370.00 | 000013.22 | 00 | | Z,\$IND | EC000044 |
| 47* | 216370.40 | 216371.11 | 46 | | BEXEZ,\$+.32 | EC000045 |
| 48* | 216371.00 | 216371.00 | 00 | W CCNY | BE,\$ -TO FIXUP ENABLED IF SPECIAL,DISABLED IF STANDARD | EC000046 |
| 49* | 215166.00+ | +00000000 | | N ,100,04 | WPATT SYN,SFPT+3.0 | EC000047 |
| 50* | 216371.40 | 000000.00+ | | WINTOR | VF,C - INTERRUPT PRESERVATION WORD | EC000048 |
| 51* | 216372.00 | 000407.35 | 01 | WJERR | LVI,\$14,SPTOEX | EC000049 |
| 52* | 216372.40 | 217451.40 | 80 | | SIC,SDISIC | EC000050 |
| 53* | 216373.00 | 217372.10 | 00 | | B,SDISP | EC000050 |
| 54* | 216371.40+ | +00000000 | | B ,31 ,01 | SINTC SYN,WINTOR | EC000051 |

| LINE | LOCATIONN | BINARY OUTPUT | NAME | STATEMENT | LOCATIONN |
|------|-------------|---------------------------|--------|--|-----------|
| 1* | | | | ***** | ED000001 |
| 2* | | | | ***** STANDARD FIXUPS ***** | ED000002 |
| 3* | | | | ***** | ED000003 |
| 4* | 216373.40 * | | | SLC,\$ | ED000004 |
| 5* | 216373.40 | 000000.30 00 | | CNOP | ED000005 |
| 6* | 216374.00 | 216406.00 80 | YFXMK | SIC,YMFL | ED000006 |
| 7* | 216374.40 | 216406.10 00 | | B,YMFL | ED000007 |
| 8* | 216375.00 | | | (IQSX)DD(BU), MK X | ED000008 |
| 9* | 216376.00 | 216406.00 80 | YFXIK | SIC,YMFL | ED000009 |
| 10* | 216376.40 | 216406.10 00 | | B,YMFL | ED000010 |
| 11* | 216377.00 | | | (IQSX)DD(BU), IK X | ED000011 |
| 12* | 216400.00 | 216406.00 80 | YFXIJ | SIC,YMFL | ED000012 |
| 13* | 216400.40 | 216406.10 00 | | B,YMFL | ED000013 |
| 14* | 216401.00 | | | (IQSX)DD(BU), IJ X | ED000014 |
| 15* | 216402.00 | 216406.00 80 | YFXEK | SIC,YMFL | ED000015 |
| 16* | 216402.40 | 216406.10 00 | | B,YMFL | ED000016 |
| 17* | 216403.00 | | | (IQSX)DD(BU), EK X | ED000017 |
| 18* | 216404.00 | 216406.00 80 | YFXCPU | SIC,YMFL | ED000018 |
| 19* | 216404.40 | 216406.10 00 | | B,YMFL | ED000019 |
| 20* | 216405.00 | | | (IQSX)DD(BU), CPUS X | ED000020 |
| 21* | 216406.00 * | 216406.00 80 216412.02 A0 | YMFL | TI,1,\$,YMFCM | ED000021 |
| 22* | 216407.00 | 215470.40 80 | | SIC,SCOMIC | ED000022 |
| 23* | 216407.40 | 215470.10 00 | | B,SCOMM | ED000023 |
| 24* | 216410.00 | 216412.00 80 | | ,YMFCM | ED000024 |
| 25* | 216410.40 | 000012.00 80 | | ,10. | ED000025 |
| 26* | 216411.00 | 216411.04 00 | | BD,\$ | ED000026 |
| 27* | 216411.40 | 216411.40 00 | YMFIC | BE,\$ | ED000027 |
| 28* | | | | CNOP | ED000028 |
| 29* | 216412.00 | | YMFICM | (IQS\$)DD(BU), INTERRUPT. THE NEXT INSTRUCTION IS A BE\$ | ED000029 |
| 30* | 216417.70 * | | | (IQS\$)DD(BU), TO THE INTERRUPTED ADDRESS. \$ | ED000030 |
| 31* | 216425.00 * | 000003.00 | YMFICF | DR(N),(3) | ED000031 |
| 32* | 216430.00 | 216457.40 80 | YFXEKJ | SIC,YPREL | ED000032 |
| 33* | 216430.40 | 216446.10 00 | | B,YPREFIX | ED000033 |
| 34* | 216431.00 | | | (AX)DD(BU,32), EKJX | ED000034 |
| 35* | 216431.40 | | | (IQSX)DD(BU,32), EKJX | ED000035 |
| 36* | 216432.00 | 216457.40 80 | YFXUNR | SIC,YPREL | ED000036 |
| 37* | 216432.40 | 216446.10 00 | | B,YPREFIX | ED000037 |
| 38* | 216433.00 | | | (AX)DD(BU,32),UNRJX | ED000038 |
| 39* | 216433.40 | | | (IQSX)DD(BU,32),UNRJX | ED000039 |
| 40* | 216434.00 | 216457.40 80 | YFXCBJ | SIC,YPREL | ED000040 |
| 41* | 216434.40 | 216446.10 00 | | B,YPREFIX | ED000041 |
| 42* | 216435.00 | | | (AX)DD(BU,32),CBJ X | ED000042 |
| 43* | 216435.40 | | | (IQSX)DD(BU,32), CBJX | ED000043 |
| 44* | 216436.00 | 216457.40 80 | YFXOP | SIC,YPREL | ED000044 |
| 45* | 216436.40 | 216446.10 00 | | B,YPREFIX | ED000045 |
| 46* | 216437.00 | | | (AX)DD(BU,32), OP X | ED000046 |
| 47* | 216437.40 | | | (IQSX)DD(BU,32), OP X | ED000047 |
| 48* | 216440.00 | 216457.40 80 | YFXAD | SIC,YPREL | ED000048 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 216440 |
|------|-------------|-----------|--------|-----------|-----------------------|----------|----------|
| 1* | 216440.40 | 216446.10 | 00 | | B,YPREFX | | ED000050 |
| 2* | 216441.00 | | | | (AX)DD(BU,32), AC X | | ED000051 |
| 3* | 216441.40 | | | | (IQSX)DD(BU,32), AD X | | ED000052 |
| 4* | 216442.00 | 216457.40 | 80 | YFXUSA | SIC,YPREL | | ED000053 |
| 5* | 216442.40 | 216446.10 | 00 | | B,YPREFX | | ED000054 |
| 6* | 216443.00 * | | | | (AX)DD(BU,32), USAX | | ED000055 |
| 7* | 216443.40 | | | | (IQSX)DD(BU,32), USAX | | ED000056 |
| 8* | 216444.00 | 216457.40 | 80 | YFXDS | SIC,YPREL | | ED000057 |
| 9* | 216444.40 | 216446.10 | 00 | | B,YPREFX | | ED000058 |
| 10* | 216445.00 | | | | (AX)DD(BU,32), DS X | | ED000059 |
| 11* | 216445.40 | | | | (IQSX)DD(BU,32), DS X | | ED000060 |
| 12* | 216446.00 | 215001.04 | 80 | 216453.34 | 02 | YPREFX | ED000061 |
| 13* | 216447.00 | 000003.00 | 80 | 215324.00 | AC | | ED000062 |
| 14* | 216450.00 | 000023.00 | 80 | 215344.32 | AC | | ED000063 |
| 15* | 216451.00 | 215373.00 | 80 | 000014.02 | A0 | | ED000064 |
| 16* | 216452.00 | 216604.02 | 30 | | LV,\$1,YSFIC | | ED000065 |
| 17* | 216452.40 | 215361.03 | 30 | | SV,\$1,SICBU | | ED000066 |
| 18* | 216453.00 | 216425.03 | 10 | | SX,\$1,YMFCF | | ED000067 |
| 19* | 216453.40 | 216454.03 | C6 | | BUNRJZ,\$.32 | | ED000068 |
| 20* | 216454.00 | 216454.44 | 46 | | BCBJ Z,\$.32 | | ED000069 |
| 21* | 216454.40 | 216455.07 | C6 | | BCP Z,\$.32 | | ED000070 |
| 22* | 216455.00 | 216455.50 | 46 | | BAD Z,\$.32 | | ED000071 |
| 23* | 216455.40 | 216456.11 | 46 | | BEXE Z,\$.32 | | ED000072 |
| 24* | 216456.00 | 216456.50 | C6 | | BUSAZ,\$.32 | | ED000073 |
| 25* | 216456.40 * | 216457.11 | C6 | | BDS Z,\$.32 | | ED000074 |
| 26* | 216457.00 | 216457.52 | C6 | | BIF Z,\$.32 | | ED000075 |
| 27* | 216457.40 | 216457.40 | 80 | 000000.20 | 50 | YPREL | ED000076 |
| 28* | 216460.40 | 216513.10 | 80 | 040020.20 | 00 | | ED000077 |
| 29* | 216461.40 | 216523.00 | 80 | 040000.20 | 00 | | ED000078 |
| 30* | 216462.40 | 000000.03 | 01 | | LVI,\$1,C | | ED000079 |
| 31* | 216463.00 | 000010.03 | 02 | | LCI,\$1,8 | | ED000080 |
| 32* | 216463.40 | 216604.22 | 80 | 001001.20 | 50 | | ED000081 |
| 33* | 216464.40 | 166000.00 | 80 | 410004.06 | 70 | | ED000082 |
| 34* | 216465.40 | 216604.00 | 80 | 022310.06 | 70 | | ED000083 |
| 35* | 216466.40 | 000000.00 | 80 | 010000.13 | 71 | YSFCL2 | ED000084 |
| 36* | 216467.40 | 216471.34 | 00 | | BZRZ,\$+1.32 | | ED000085 |
| 37* | 216470.00 | 024000.00 | 80 | 410000.06 | 71 | | ED000086 |
| 38* | 216471.00 | 000004.03 | 05 | | V+I,\$1,4.C | | ED000087 |
| 39* | 216471.40 | 216466.42 | 48 | | CB,\$1,YSFCL2 | | ED000088 |
| 40* | 216472.00 * | 216516.40 | 80 | 000000.20 | 00 | | ED000089 |
| 41* | 216473.00 | 215001.04 | 80 | 216500.74 | 0E | | ED000090 |
| 42* | 216474.00 | 215571.00 | 80 | | SIC,SPRIMR | | ED000091 |
| 43* | 216474.40 | 215570.10 | 00 | | B,SPRIME | | ED000092 |
| 44* | 216475.00 | 000104.00 | 80 | | ,DABECJ | | ED000093 |
| 45* | 216475.40 | 215224.06 | 10 | | LX,\$3,YSFBCR | | ED000094 |
| 46* | 216476.00 | 000003.07 | 10 | | SX,\$3,3.C | | ED000095 |
| 47* | 216476.40 | 224052.00 | 80 | | SIC,ZSPLP9 | | ED000096 |
| 48* | 216477.00 | 224046.50 | 00 | | B,ZSPLPR | | ED000097 |
| 49* | 216477.40 | 216513.00 | 80 | | ,YPPEM | | ED000098 |
| 50* | 216500.00 | 000005.00 | 80 | | ,5.0 | | ED000099 |

-LCAD IDENTIFYING INITIALS.

-CCONVERT IC TO BCD

-RESET BOUNDARY CONTROL.

-WRITE MESSAGE ON SPOOL TAPE.

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 216500 |
|------|-------------|------------------------------|------------|--|--|----------|
| 1* | 216500.40 | 215006.02 30 | YMCPE | LV,\$1,SYCOCH | -GET ABSOLUTE ADDRESSES FOR | ED000101 |
| 2* | 216501.00 | 000000.00 81 000000.33 00 | | REL(SEOP),0(\$1) | -CLEAR BOTH CHANNELS. | ED000102 |
| 3* | 216502.00 | 216426.00 80 000000.36 F0 | | CM1111(BU,64),YMFCF+1.0 | | ED000103 |
| 4* | 216503.00 | 216604.00 80 025300.06 70 | | LF(BU,21,3),YSFIC | -SET UP INT. ADDRESS FOR | ED000104 |
| 5* | 216504.00 | 216426.00 80 034400.12 F0 | | SF(BU,28,4),YMFCF+1.0 | -CCNSCLE LIGHTS. | ED000105 |
| 6* | 216505.00 * | 000000.00 81 231363.21 00 | | CCW,C(\$1),YUXSAV | | ED000106 |
| 7* | 216506.00 | 231363.30 80 216505.34 02 | | BB,YUXSAV+.24,\$-1.C | | ED000107 |
| 8* | 216507.00 | 000000.00 81 216512.13 00 | | W(SEOP),0(\$1),YMCPCW | | ED000108 |
| 9* | 216510.00 | 216510.04 00 | YMCPPH | BD,YMCPPH | | ED000109 |
| 10* | 216511.00 | 216521.00+ 000 000007 000000 | YMCPC2 | CW,YMCPCM,7,0 | | ED000110 |
| 11* | 216512.00 | 216425.00+ 100 000003 216511 | YMCPCW | CW(CCR),YMFCF,3,YMCPC2 | | ED000111 |
| 12* | 216513.00 | | YPPEM | (AX)DD(BU),- INTERRUPT AT LOCATION X | | ED000112 |
| 13* | 216516.40 | | YPEIC | (AX)DD(BU), X | | ED000113 |
| 14* | 216520.40 | C00000.30 00 | | CNOP | | ED000114 |
| 15* | 216521.00 | | 375 YMCPCM | DD(BU,8),(2)11111101 | | ED000115 |
| 16* | 216521.10 * | | | (IQSX)DD(BU),MCP ERROR-... X | | ED000116 |
| 17* | 216523.00 | | YMCPIH | (IQSX)CC(BU), INTERRUPT AT ABOVE LOCATION. X | | ED000117 |
| 18* | 216530.00 | 217343.10 00 | YFXTS | B,WRAM | | ED000118 |
| 19* | 216530.40 | 217343.10 00 | YEXEFX | B,WRAM | | ED000119 |
| 20* | 216531.00 | 215230.00 80 215324.00 A0 | YMSF | TI,16,STLR,SLRBU | | ED000120 |
| 21* | 216532.00 | 215250.00 80 215344.34 A0 | | TI,14,STLR+16.,SLRBU+16. | | ED000121 |
| 22* | 216533.00 | 000000.00 81 040000.20 50 | | L(BU,32),0(\$1) | -LOAD IDENTIFYING INITIALS-... | ED000122 |
| 23* | 216534.00 * | 216555.20 80 040000.20 D0 | | ST(BU,32),YMIMIN+.16 | -STORE IN SPOOL MESSAGE. | ED000123 |
| 24* | 216535.00 | 215224.02 10 | | LX,\$1,YSFBCR | -SET NEW BOUNDARY CONTRCL | ED000124 |
| 25* | 216535.40 | 000003.03 10 | | SX,\$1,3.0 | | ED000125 |
| 26* | 216536.00 | 215265.22 80 001001.20 50 | | L(BU,1),STIC+.18,2 | -CONVERT IC TO BCD. | ED000126 |
| 27* | 216537.00 | 166000.00 80 410004.06 70 | | LFI(BU,8),(2)00111011,8 | | ED000127 |
| 28* | 216540.00 | 215265.00 80 022310.06 70 | | LF(BU,18,3),STIC,16 | | ED000128 |
| 29* | 216541.00 | 000000.03 01 | | LVI,\$1,C | | ED000129 |
| 30* | 216541.40 | 000010.03 02 | | LVI,\$1,8 | | ED000130 |
| 31* | 216542.00 | 000000.00 80 010000.13 71 | YSFCL1 | CT0101(BU,8),C,0(\$1) | | ED000131 |
| 32* | 216543.00 | 216544.74 00 | | BZRZ,\$+1.32 | | ED000132 |
| 33* | 216543.40 | 024000.00 80 410000.06 71 | | LFI(BU,8),(2)00001010,0(\$1) | | ED000133 |
| 34* | 216544.40 | 000004.03 05 | | V+I,\$1,4.0 | | ED000134 |
| 35* | 216545.00 | 216542.02 48 | | CB,\$1,YSFCL1 | | ED000135 |
| 36* | 216545.40 | 216563.70 80 000000.20 D0 | | ST(BU),YMIMIC | | ED000136 |
| 37* | 216546.40 | 215466.42 50 | | LC,\$1,YMISCO | -GET CURRENT MASKABLE INTERRUPT | ED000137 |
| 38* | 216547.00 | 000001.03 08 | | C-I,\$1,1.0 | -COUNT. IF COUNT REACHES ZERO, P.P. IS | ED000138 |
| 39* | 216547.40 | 215466.43 50 | | SC,\$1,YMISCO | -TO BE KICKED OFF THE MACHINE | ED000139 |
| 40* | 216550.00 * | 216553.70 42 | | BXCZ,YTMMI | | ED000140 |
| 41* | 216550.40 | 215001.04 80 001000.36 F0 | | CM1111(BU,1),SL | | ED000141 |
| 42* | 216551.40 | 224052.00 80 | | SIC,ZSPLP9 | | ED000142 |
| 43* | 216552.00 | 224046.50 00 | | B,ZSPLPR | | ED000143 |
| 44* | 216552.40 | 216555.00 80 | | ,YMIMIN | | ED000144 |
| 45* | 216553.00 | 000010.00 80 | | ,8.C | | ED000145 |
| 46* | 216553.40 | 000403.35 01 | YTMMI | LVI,\$14,STMMI | | ED000146 |
| 47* | 216554.00 | 217372.10 00 | | B,SDISP | | ED000147 |
| 48* | 216554.40 | 000000.30 00 | | CNOP | | ED000148 |
| 49* | 216555.00 | | YMIMIN | (AX)DD(BU),- INTERRUPT-... INSTRUCTION COUNTER X | | ED000149 |
| 50* | 216562.20 | | | (AX)DD(BU),CONTENTS - X | | ED000150 |
| 51* | 216563.70 * | | YMIMIC | (AX)DD(BU), X | | ED000151 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 216565 | |
|------|-------------|---------------|--------------|--|----------------------------|---------------------------|----------|
| 1* | 216565.40 | 000000.30 00 | | CNOP | | ED000153 | |
| 2* | 216566.00 | | YINDF | (AA)DD(BU,32),DF A | | ED000154 | |
| 3* | 216566.40 | | YINLC | (AA)DD(BU,32),LC A | | ED000155 | |
| 4* | 216567.00 | | YINPF | (AA)DD(BU,32),PF A | | ED000156 | |
| 5* | 216567.40 | | YINZD | (AA)DD(BU,32),ZD A | | ED000157 | |
| 6* | 216570.00 | | YINIR | (AA)DD(BU,32),IR A | | ED000158 | |
| 7* | 216570.40 | | YINLS | (AA)DD(BU,32),LS A | | ED000159 | |
| 8* | 216571.00 | | YINPSH | (AA)DD(BU,32),PSHA | | ED000160 | |
| 9* | 216571.40 | | YINXPF | (AA)DD(BU,32),XPFPA | | ED000161 | |
| 10* | 216572.00 | | YINXPO | (AA)DD(BU,32),XPOA | | ED000162 | |
| 11* | 216572.40 | | YINXPH | (AA)DD(BU,32),XPFA | | ED000163 | |
| 12* | 216573.00 | | YINXPL | (AA)DD(BU,32),XPLA | | ED000164 | |
| 13* | 216573.40 | | YINZM | (AA)DD(BU,32),ZM A | | ED000165 | |
| 14* | 216574.00 | | YINRU | (AA)DD(BU,32),RU A | | ED000166 | |
| 15* | 216574.40 | | YINTF | (AA)DD(BU,32),TF A | | ED000167 | |
| 16* | 216575.00 | | YINUF | (AA)DD(BU,32),UF A | | ED000168 | |
| 17* | 216575.40 | | YINVF | (AA)DD(BU,32),VF A | | ED000169 | |
| 18* | 216576.00 | | YINXF | (AA)DD(BU,32),XF A | | ED000170 | |
| 19* | 216576.40 | | YINBTR | (AA)DD(BU,32),BTRA | | ED000171 | |
| 20* | 216577.00 * | | YINDTR | (AA)DD(BU,32),DTRA | | ED000172 | |
| 21* | 216577.40 | | YINPG0 | (AA)DD(BU,32),PG0A | | ED000173 | |
| 22* | 216600.00 | | YINPG1 | (AA)DD(BU,32),PG1A | | ED000174 | |
| 23* | 216600.40 | | YINPG2 | (AA)DD(BU,32),PG2A | | ED000175 | |
| 24* | 216601.00 | | YINPG3 | (AA)DD(BU,32),PG3A | | ED000176 | |
| 25* | 216601.40 | | YINPG4 | (AA)DD(BU,32),PG4A | | ED000177 | |
| 26* | 216602.00 | | YINPG5 | (AA)DD(BU,32),PG5A | | ED000178 | |
| 27* | 216602.40 | | YINPG6 | (AA)DD(BU,32),PG6A | | ED000179 | |
| 28* | 216603.00 | | YINXPU | (AA)DD(BU,32),XPUA | | ED000180 | |
| 29* | 216603.40 | 000000.30 00 | | CNOP | | ED000181 | |
| 30* | 216604.00 | 000000.00+ | YSFIC | VF,C | | ED000182 | |
| 31* | 215224.00+ | +00000000 | YSFBCR | SYN,SBNDRS | | ED000183 | |
| 32* | 231363.00+ | +00000000 | YSFLCR | SYN,YUXSAV | | ED000184 | |
| 33* | | | - | ***** SPECIAL INTERRUPT ROUTINE FOR TS ***** | | ED000185 | |
| 34* | | | - | | | ED000186 | |
| 35* | 216604.40 | 000003.00 80 | JWL0DE | TI,16,3.0,STLR | | ED000187 | |
| 36* | 216605.40 | 000023.00 80 | | TI,13,19.0,STLR+16.0 | | ED000188 | |
| 37* | 216606.40 | 215231.47 A0 | | BE,STLR+1.32(.26,2)111101 | -STM(U),STLR+1.0 SAVE \$MR | ED000189 | |
| 38* | 216607.00 | 216607.47 C6 | | BOPZ,\$+.32 | -FCR LASL LRL | ED000190 | |
| 39* | 216607.40 | 215001.04 80 | | BB,SL,JWL0D3 | -BR. IF MCP LEVEL | ED000191 | |
| 40* | 216610.40 | 215001.13 80 | | BB,SSPFIX,JWL0D4 | -IF NOW IN SPECIAL FIXUP | ED000192 | |
| 41* | 216611.40 | 215021.31 80 | | BZB,SPROGS+SAS,WL0DE+2.0 | -IF NOT AUTOSTACKED | ED000193 | |
| 42* | 216612.40 * | 000021.37 70 | | SR,\$15,\$1 | | ED000194 | |
| 43* | 216613.00 | 000000.03 30 | | SV,\$1,0 | | ED000195 | |
| 44* | 216613.40 | 216335.31 40 | | BZXVZ,WL0DE+2.0 | -LET HIM HAVE IT | ED000196 | |
| 45* | 216614.00 | 215276.04 80 | 001000.36 F0 | JWL0D2 | CM1111(BU,1),SLRPP+8.4 | -PUT TS IN PP BUFFER | ED000197 |
| 46* | 216615.00 | 216242.10 00 | | B,KSUPP | | ED000198 | |
| 47* | 216615.40 | 215001.14 80 | 001000.36 F0 | JWL0D4 | CM1111(BU,1),STSBIT | -SAVE TS WHILE IN SPECIAL | ED000199 |
| 48* | 216616.40 | 216242.10 00 | | B,KSUPP | | ED000200 | |
| 49* | 216617.00 | 215334.04 80 | 001000.36 F0 | JWL0D3 | CM1111(BU,1),SLRBU+8.4 | -PUT TS IN BACKUP BUFFER | ED000201 |
| 50* | 216620.00 | 216242.10 00 | | B,KSUPP | | ED000202 | |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|----------------|----------|---|----------|
| 1* | | | - | ***** | EE000001 |
| 2* | | | - | ***** THE CONCEPTOR ***** | EE000002 |
| 3* | | | - | ***** | EE000003 |
| 4* | | | - | -PCCNE1 IS THE ENTRY PT FROM RECEPTOR IF CS INTERRUPT ON | EE000004 |
| 5* | | | - | -ALCNE. | EE000005 |
| 6* | | | - | -P CON E2 IS THE ENTRY PT IF CS INTERRUPT IS NOT ON ALONE AND | EE000006 |
| 7* | | | - | -THE SETUP BIT IS ON. | EE000007 |
| 8* | 216620.40 * | | | SLC,\$ | EE000008 |
| 9* | 216620.40 | 000000.70 8A | P CON E1 | CM0000(BU,3), S UNIT(\$10) - SET UNIT NO EQUAL TO MCP IN CST | EE000009 |
| 10* | 216621.40 | 000000.04 3A | | LV,\$2,0(\$10) -GET ADDR OF UST | EE000010 |
| 11* | 216622.00 | 000000.47 82 | | CM0000(BU,1),S SEL(\$2) -SELECT MCP UNIT | EE000011 |
| 12* | 216623.00 | 000001.47 82 | | CM1111(BU,1),S SEL+1.(\$2) -UNSELECT PP UNIT | EE000012 |
| 13* | 216624.00 | 000000.26 3A | P RENT | LV,\$11,S UN A(\$10) -SELECT MCP UST | EE000013 |
| 14* | 216624.40 | 000000.30 3B | | LV,\$12,S UN A(\$11) -OBTAIN MCP UAT | EE000014 |
| 15* | 216625.00 | 216633.35 D0 | | SVA,\$14,WRESL1 | EE000015 |
| 16* | 216625.40 | 216633.00 80 | | TI,1,WRESL1,SIOINS(\$12) -PLACE RD INSTR IN UAT | EE000016 |
| 17* | 216626.40 | 000000.32 8A | | CM1111(BU,1),SCHOP(\$10),0 -CHAN OP CN | EE000017 |
| 18* | 216627.40 | 000000.37 8B | | CM1111(BU,1),SSETUP(\$11),0 -SET UP ON | EE000018 |
| 19* | 216630.40 | 000000.71 8B | | CM1111(BU,1),SRD(\$11),0 -READ ON | EE000019 |
| 20* | 216631.40 | 216644.37 C1 | | LVI,\$15,PCONE2 | EE000020 |
| 21* | 216632.00 | 000005.37 3C | | SV,\$15,SRETAD(\$12) | EE000021 |
| 22* | 216632.40 | 000000.30 00 | | CNOP | EE000022 |
| 23* | 216633.00 * | 000000.00 80 | WRESL1 | RD,C,WPCW | EE000023 |
| 24* | 216634.00 | 216242.03 C1 | | LVI,\$1,KSUPP | EE000024 |
| 25* | 216634.40 | 221261.10 C0 | | B,MIOREJ | EE000025 |
| 26* | 216635.00 | 216743.00+ 000 | WPCW | CW,PTEMBF,13,WPCW | EE000026 |
| 27* | 216636.00 | 217024.03 C1 | P EPGK E | LVI,\$1, P EPGK | EE000027 |
| 28* | 216636.40 | 000004.05 C1 | | LVI,\$2, 4.0 | EE000028 |
| 29* | 216637.00 | 216640.50 C0 | | B, P ERR EX | EE000029 |
| 30* | 216637.40 | 217030.03 C1 | | LVI,\$1,PUK | EE000030 |
| 31* | 216640.00 | 000004.05 C1 | | LVI,\$2,4.0 | EE000031 |
| 32* | 216640.40 | 215470.40 80 | P ERR EX | SIC, S COM IC | EE000032 |
| 33* | 216641.00 | 215470.10 00 | | B, S COMM | EE000032 |
| 34* | 216641.40 | 000000.00 81 | | ,0(\$1) | EE000033 |
| 35* | 216642.00 | 000000.00 82 | | ,0(\$2) | EE000034 |
| 36* | 216642.40 | 216242.10 C0 | | B, K SUPP | EE000035 |
| 37* | 216643.00 | 216624.06 C6 | | BCSZ,PRENT | EE000036 |
| 38* | 216643.40 | 216624.10 C0 | | B,PRENT -SAFETY FACTOR | EE000037 |
| 39* | 216644.00 | 000000.37 8B | P CON E2 | CM0000(BU,1),SSETUP(\$11) -SET UP OFF | EE000038 |
| 40* | 216645.00 | 000000.71 8B | | CM0000(BU,1),SRD(\$11) -RD OFF | EE000039 |
| 41* | 216646.00 | 000000.32 8A | | CM0000(BU,1),SCHOP(\$10) -CHAN OP OFF | EE000040 |
| 42* | 216647.00 * | 215240.11 80 | | BBZ, STLR+8.9, P EPGK E -EPGK INTERRUPT IS CN | EE000041 |
| 43* | 216650.00 | 215240.12 80 | | BBZ,STLR+8.10,PERREX-1.0 -IF UK | EE000042 |
| 44* | 216651.00 | 215240.15 80 | | BBZ,STLR+8.13,PCONE2-1.0 -IF CS | EE000043 |
| 45* | | | | -PRET-WHOSE MESSAGE WAS IT | EE000044 |
| 46* | 216652.00 | 215240.11 80 | | L(BU,5),STLR+8.9,50 -LOAD I/O INDICATORS | EE000045 |
| 47* | 216653.00 | 040000.00 80 | | KFI(BU,4),(2)001,51 -COMPARE IF ONLY*ECP*INDIC. IS CN | EE000046 |
| 48* | 216654.00 | 216735.36 C0 | | BZAE,G CDBOC -BRANCH IF *ECP*INDIC. IS NOT | EE000047 |
| 49* | | | | -ON ALONE | EE000048 |
| 50* | 216654.40 | 216745.77 80 | | BZB,P TEMBF+2.63,P PPRET -IF *END*CODE IN 3RD WRD GO TO | EE000049 |
| 51* | | | | -*PP* | EE000050 |
| 52* | 216655.40 | 216746.00 80 | | CO011(BU,8),P TEMBF+3.0 -LEADING 8BITS OF THE 4TH WRD | EE000051 |
| 53* | 216656.40 | 774000.00 80 | | KFI(BU,8),(2)1111 1110 -IS IT *END*CODE | EE000052 |
| 54* | 216657.40 | 216736.76 C2 | | BAE,P DBRET -IF YES GO TO *DB* | EE000053 |
| 55* | 216660.00 | 000000.26 3A | | LV,\$11,S UNA(\$10) -SELECT*MCP*UNIT ST.TAB.ADDR. | EE000054 |
| 56* | 216660.40 | 000000.30 3B | | LV,\$12,S UNA(\$11) -OBTAIN*MCP*UNIT AREA TAB.ADDR. | EE000055 |

| LINE | LOCATION | PRIMARY | OUTPUT | NAME | STATEMENT | LOCATION | 216661 |
|------|-------------|-----------|--------|-----------|--|--|----------|
| 1* | 216661.00 | 217063.00 | 80 | | SIC, G KONEC | | EE000056 |
| 2* | 216661.40 | 217045.10 | 00 | | B, G EDIT -EDIT MESSAGE | | EE000056 |
| 3* | 216662.00 * | 000024.53 | 80 | 003000.07 | 70 | CTOC11(BU,3), \$4 + .43 - IS NO. OF CHARS. DIVISIBLE BY 8 | EE000057 |
| 4* | 216663.00 | 216664.34 | C2 | | BRZ, \$+1.0 | | EE000058 |
| 5* | 216663.40 | 000010.11 | 00 | | C+I, \$4, 8.0 | | EE000059 |
| 6* | 216664.00 | 000024.34 | 80 | 017043.60 | 50 | L(BU,15), \$4+.28, 71 -PUT NO. OF FULL WDS. (TO BE TRANSFERRED) | EE000060 |
| 7* | | | | | | | EE000061 |
| 8* | 216665.00 | 217106.40 | 80 | 031040.12 | F0 | CM0101(BU,25), P OUT, 64 | EE000062 |
| 9* | 216666.00 | 217012.13 | 01 | | LVI, \$5, GMISTO | | EE000063 |
| 10* | 216666.40 | 000000.11 | 0A | | G ZPET KCI, \$4, 0 | | EE000064 |
| 11* | 216667.00 | 216703.32 | C2 | | BXE, PMCRET | | EE000065 |
| 12* | 216667.40 | 000000.10 | 85 | 110000.20 | 50 | L(V+I)(BU,8), .8(\$5) -LOAD CHARACTER AT TYPED MESSAGE- | EE000066 |
| 13* | 216670.40 | 772000.00 | 80 | 410000.23 | 10 | KFI(BU,8), (2)1111 1101 -IS IT CARRIAGE RETURN CODE | EE000067 |
| 14* | 216671.40 | 216666.76 | C2 | | BAE, GZPET | | EE000068 |
| 15* | 216672.00 | 766000.00 | 80 | 410000.23 | 10 | KFI(BU,8), (2)1111 1011 -IS IT A TAB CODE | EE000069 |
| 16* | 216673.00 | 216666.76 | C2 | | BAE, GZPET | | EE000070 |
| 17* | 216673.40 | 000000.00 | 80 | 410000.23 | 10 | KFI(BU,8), (2)C -IS IT A BLANK CODE | EE000071 |
| 18* | 216674.40 | 216666.76 | C2 | | BAE, GZPET | | EE000072 |
| 19* | 216675.00 | 000000.00 | 80 | 001000.36 | 70 | C1111(BU,1) -FORCE UPPER CASE CHARACTER | EE000073 |
| 20* | 216676.00 * | 226000.00 | 80 | 410000.23 | 10 | KFI(BU,8), (2)C100 1011 -IS IT A P CHARACTER | EE000074 |
| 21* | 216677.00 | 216703.36 | C0 | | BZAE, PMCRET | | EE000075 |
| 22* | 216677.40 | 000000.00 | 85 | 010000.20 | 50 | L(BU,8), 0(\$5) -LOAD NEXT CHARACTER | EE000076 |
| 23* | 216700.40 | 000000.00 | 80 | 001000.36 | 70 | C1111(BU,1) -FORCE UPPER CASE | EE000077 |
| 24* | 216701.40 | 226000.00 | 80 | 410000.23 | 10 | KFI(BU,8), (2)C100 1011 -IS IT A P CHARACTER | EE000078 |
| 25* | 216702.40 | 216722.36 | C2 | | BAE, P PP RET | | EE000079 |
| 26* | 216703.00 | 000010.03 | 01 | | P MC RET LVI, \$1, JC 100 | | EE000080 |
| 27* | 216703.40 | 215003.02 | 80 | | V+, \$1, SBAMCP | | EE000081 |
| 28* | 216704.00 | 000000.72 | 31 | | LV, \$13, .32(\$1) | | EE000082 |
| 29* | 216704.40 | 000003.33 | 3C | | SV, 13, S FI AAC(\$12) -ACTIVATED FILE AREA ADDR TO UA | | EE000083 |
| 30* | 216705.00 | 217106.50 | 50 | | LC, \$4, P OUT | | EE000084 |
| 31* | 216705.40 | 217012.00 | 80 | 217000.10 | 20 | T, \$4, G MISTO, P MCP BF+3.0 | EE000085 |
| 32* | 216706.40 | 215265.00 | 30 | | P MAIN LV, \$0, STIC | | EE000086 |
| 33* | 216707.00 | 000001.41 | 3D | | P MAIN1 SV, \$0, S INT AD(\$13) | | EE000087 |
| 34* | 216707.40 | 216743.00 | 80 | 216775.06 | AC | TI, 3, P TEM BF, P MCP BF | EE000088 |
| 35* | 216710.40 | 000000.70 | 8A | 003000.00 | FC | CM0000(BU,3), S UNIT(\$10) -SET MCP UNIT(=0) IN CST | EE000089 |
| 36* | 216711.40 * | 000001.47 | 8B | 001000.36 | F0 | CM1111(BU,1), S SEL+1.0(\$11) -UNSELECT PP UNIT | EE000090 |
| 37* | 216712.40 | 000000.47 | 8B | 001000.00 | F0 | P EX1 CM0000(BU,1), S SEL(\$11) -SELECT PREPARE UNIT | EE000091 |
| 38* | 216713.40 | 000000.57 | 8B | 001000.36 | F0 | CM1111(BU,1), S CNS SG(\$11) -TURN ON PROPER S CNS SG BIT | EE000092 |
| 39* | 216714.40 | 000020.17 | 02 | | LCI, \$7, (8)20.00 | | EE000093 |
| 40* | 216715.00 | 000000.36 | 8B | 216720.74 | 00 | BZB, SUNSLP(\$11), JPEX2 | EE000094 |
| 41* | 216716.00 | 000001.11 | 8D | 005071.60 | 50 | L(BU,5), SIOIND(\$13), -13 | EE000095 |
| 42* | 216717.00 | 000027.45 | 80 | 005071.56 | 70 | CO111(BU,5), \$7.37, -13 | EE000096 |
| 43* | 216720.00 | 000010.16 | 50 | | LC, 7, \$L | | EE000097 |
| 44* | 216720.40 | 000001.17 | 5D | | JPEX2 SC, 7, 1.0(\$13) | | EE000098 |
| 45* | 216721.00 | 215776.03 | 01 | | LVI, \$1, KNORM -FAT | | EE000099 |
| 46* | 216721.40 | 215762.10 | 00 | | B, KGIN | | EE000100 |
| 47* | 216722.00 | 000001.35 | 8B | 216733.74 | 02 | P PP RET BB, S UN ASG+1.0(\$11), G ERROR -IS CNSL ASSIGNED TO PP | EE000101 |
| 48* | 216723.00 | 000000.26 | 3A | | LV, \$11, S UN A(\$10) | | EE000102 |
| 49* | 216723.40 | 000001.27 | 05 | | V+I, \$11, 1.0 | | EE000103 |
| 50* | 216724.00 | 000000.30 | 3B | | LV, \$12, S UN A(\$11) -SELECT PPS UATA | | EE000104 |
| 51* | 216724.40 | 000003.32 | 3C | | LV, 13, S FI AAC(\$12) -GET FILE AREA ACTIVATED ADDR | | EE000105 |
| 52* | 216725.00 * | 216743.00 | 80 | 216760.32 | AC | TI, 13, P TEM BF, P PP BF | EE000106 |
| 53* | 216726.00 | 215001.04 | 80 | 216732.74 | 02 | BB, SL, P MP LEV | EE000107 |
| 54* | 216727.00 | 215265.00 | 30 | | LV, \$0, STIC -INTERRUPT AT PP LEVEL PUT | | EE000108 |
| 55* | 216727.40 | 000001.41 | 3D | | P CGM SV, \$0, S INT AD(\$13) -CONTENTS OF STIC | | EE000109 |
| 56* | 216730.00 | 000000.72 | 8A | 001000.36 | F0 | CM1111(BU,1), SUNIT+.2(\$10) -INTO INTER ADDR SLOT OF PPSFAT | EE000110 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 216731 |
|------|-------------|-----------|--------------|----------|---|---------------------------------------|----------|
| 1* | 216731.00 | 777777.47 | 88 001000.36 | FO | CM1111(BU,1),S SEL-1.0(\$11) | -UNSELECT MOP UNIT | EE000111 |
| 2* | 216732.00 | 216712.50 | 00 | | B,PEX1 | | EE000112 |
| 3* | 216732.40 | 215361.00 | 30 | | P MP LEV LV,\$0,S IC BU | -INTERRUPT AT MCP LEVEL CONT OF | EE000113 |
| 4* | | | | | - | -S IC BU | EE000114 |
| 5* | 216733.00 | 216727.50 | 00 | | B,P CCM | | EE000115 |
| 6* | 216733.40 | 217034.03 | 01 | G ERROR | LVI,\$1, P UN NOT | | EE000116 |
| 7* | 216734.00 | 000006.05 | 01 | | LVI,\$2, 6.0 | | EE000117 |
| 8* | 216734.40 | 216640.50 | 00 | | B, P ERR EX | | EE000118 |
| 9* | 216735.00 | 217042.03 | 01 | G CDBCC | LVI,\$1, P MSG ER | | EE000119 |
| 10* | 216735.40 | 000003.05 | 01 | | LVI,\$2, 3.0 | | EE000120 |
| 11* | 216736.00 | 216640.50 | 00 | | B, P ERR EX | | EE000121 |
| 12* | 216736.40 | 000012.03 | 01 | PDBRET | LVI,\$1,PCDEF2 | | EE000122 |
| 13* | 216737.00 | 215003.02 | 80 | | V+,\$1,SBAMCP | | EE000123 |
| 14* | 216737.40 | 000000.72 | 31 | | LV,\$13,.32(\$1) | | EE000124 |
| 15* | 216740.00 | 000003.33 | 30 | | SV,13,S FI AAC(\$12) | -ACTIVATED FILE AREA ADDR TO UA | EE000125 |
| 16* | 216740.40 * | 215001.04 | 80 216706.74 | 00 | BZB,SL,P MAIN | | EE000126 |
| 17* | 216741.40 | 215361.00 | 30 | | LV,\$0,SICBU | -ENTER AT MCP LEVEL CONTENTS OF SICBU | EE000127 |
| 18* | 216742.00 | 216707.10 | 00 | | B,PMAIN1 | | EE000128 |
| 19* | 216742.40 | 000000.30 | 00 | | CNOP | | EE000129 |
| 20* | 216743.00 * | 000015.00 | | P TEM BF | DR(BU,64),(13) | | EE000130 |
| 21* | 216760.00 | 000015.00 | | P PP BF | DR(BU,64),(13) | | EE000131 |
| 22* | 216775.00 | 000015.00 | | P MCP BF | DR(BU,64),(13) | | EE000132 |
| 23* | 217012.00 | 000012.00 | | G MISTC | DR(BU,64),(10) | | EE000133 |
| 24* | 217024.00 | | | PEPGK | (IQS*)DD(BU), MESSAGE NOT ACCEPTED EPGK ERROR* | | EE000134 |
| 25* | 217030.00 | | | PUK | (IQS*)DD(BU), MESSAGE NOT ACCEPTED UK ERROR * | | EE000135 |
| 26* | 217034.00 * | | | PUNNOT | (IQS*)DD(BU), MESSAGE NOT ACCEPTED PP HAS NO CONSOLE IOD * | | EE000136 |
| 27* | | | | | CNOP | | EE000137 |
| 28* | 217042.00 | | | PMSGER | (IQS*)DD(BU), MESSAGE HAS BEEN ERASED* | | EE000138 |
| 29* | | | | - | -GEDIT | | EE000139 |
| 30* | | | | - | -ITS FCN IS TO EDIT OUT FROM A STRING OF 8 BIT IQS | | EE000140 |
| 31* | | | | - | -CHARACTERS ALL BACK SPACE CHARACTERS. FOR EACH BACKSPACE | | EE000141 |
| 32* | | | | - | -CHARACTER BOTH IT AND THE PREVIOUS NON BACKSPACE CHARACTER | | EE000142 |
| 33* | | | | - | -ARE REMOVED FROM THE STRING. | | EE000143 |
| 34* | | | | - | -THE UNEDITED STRING OF CHARACTERS MUST BE LESS THAN 81 | | EE000144 |
| 35* | | | | - | -CHARACTERS LONG. | | EE000145 |
| 36* | | | | - | -AT THE CONCLUSION OF THE EDITING, THE CF OF \$4 CONTAINS | | EE000146 |
| 37* | | | | - | -THE NUMBER OF CHARACTERS IN THE EDITED MESSAGE. | | EE000147 |
| 38* | 217045.00 | 000024.22 | 00 | G EDIT | Z,\$4 | -INITIALIZE | EE000148 |
| 39* | 217045.40 | 216746.11 | 01 | | LVI,\$4,P TEMBF+3.0 | -FWA OF UNEDITED MSG. IN \$4 | EE000149 |
| 40* | 217046.00 | 217012.13 | 01 | | LVI,\$5,G MISTC | -FWA FOR EDITED MSG. IN \$5 | EE000150 |
| 41* | 217046.40 | 000120.13 | 02 | | LCI,\$5,80 | -SET MAX ALLOWABLE CHARS TO 80 | EE000151 |
| 42* | 217047.00 | 000000.10 | 84 110000.20 | 50 | G CKOLO | -LOAD A CHAR. | EE000152 |
| 43* | 217050.00 | 770000.00 | 80 410000.23 | 10 | KFI(BU,8),(2)1111 1100 | -IS IT BACKSPACE | EE000153 |
| 44* | 217051.00 | 217063.76 | 02 | | BAE,GVRAT | | EE000154 |
| 45* | 217051.40 | 000000.10 | 85 110000.20 | 00 | ST(V+I)(BU,8),.8(\$5) | -NC-STORE CHAR IN EDITED BUFFER | EE000155 |
| 46* | 217052.40 * | 000001.11 | 00 | | C+I,\$4,1 | -ADD ONE TO CCUNT OF EDITED | EE000156 |
| 47* | | | | | - | -CHARS. | EE000157 |
| 48* | 217053.00 | 774000.00 | 80 410000.23 | 10 | KFI(BU,8),(2)1111 1110 | -END CODE | EE000158 |
| 49* | 217054.00 | 217063.36 | 02 | | BAE,G KONEC | -YES-OUT | EE000159 |
| 50* | 217054.40 | 217047.12 | 48 | | CB,\$5,G OKOLO | | EE000160 |
| 51* | 217055.00 | 000120.11 | 0A | G KONTR | KCI,\$4,80 | -HAVE EDITED 80 CHARS WITHOUT | EE000161 |
| 52* | | | | - | - | -ENCOUNTERING- | EE000162 |
| 53* | | | | - | - | -AND END CODE | EE000163 |
| 54* | 217055.40 | 217063.32 | 40 | | BZXL,G KONEC | -IS EDITED CHARACTER CCUNT LESS | EE000164 |
| 55* | | | | - | - | -THAN 80 | EE000165 |
| 56* | 217056.00 | 000011.11 | 50 | | SC,\$4,\$R | -YES-PUT EDITED CHAR.CCUNT IN SR | EE000166 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 217056 | |
|------|-----------|-------------|--------|-----------|-----------|-----------------------------------|---|----------|
| 1* | 217056.40 | 000010.00 | 80 | 422027.21 | 90 | *I(BU,18),8,46 | -MULTIPLY CHAR. COUNT BY 8 | EE000167 |
| 2* | 217057.40 | 000026.00 | 80 | 031011.60 | 00 | ST(BU,25), \$6,19 | -STORE A POSITIVE PRODUCT | EE000168 |
| 3* | 217060.40 | 774000.00 | 80 | 410000.20 | 50 | LI(BU,8),(2)1111 1110 | | EE000169 |
| 4* | 217061.40 | 217012.00 | 86 | 010000.12 | FO | CM0101(BU,8),G MISTO(\$6) | -INSERT END CODE AFTER EDITED MSG | EE000170 |
| 5* | 217062.40 | 000001.11 | 00 | | | C+I,\$4,1 | -ADD ONE TO EDITED CHAR COUNT | EE000171 |
| 6* | 217063.00 | 217063.10 | 00 | | | G KONEC B,\$ | -OUT | EE000172 |
| 7* | 217063.40 | 217012.13 | 04 | | | G VRAT KVI,\$5, G MISTO | - IS BACKSPACE CHAR THE 1ST CHAR. | EE000173 |
| 8* | 217064.00 | 217066.72 | C2 | | | BXE,G DIAR | -OF THE MSG | EE000174 |
| 9* | 217064.40 | 000000.10 | 80 | 430000.20 | 50 | LI(EU,24),8 | -REMOVE PREVIOUS NON BACKSPACE | EE000175 |
| 10* | | | | | | | -CHAR- | EE000176 |
| 11* | 217065.40 | * 000025.00 | 80 | 030000.30 | 90 | M-(BU,24),\$5 | -FROM THE MSG | EE000177 |
| 12* | 217066.40 | 000000.11 | 0A | | | G DIAR KCI,\$4,0 | -IS EDITED CHAR. COUNT ZERO | EE000178 |
| 13* | 217067.00 | 217070.32 | C2 | | | BXE,\$+1.0 | | EE000179 |
| 14* | 217067.40 | 000001.11 | 08 | | | C-I,\$4,1.0 | -NO-REDUCE COUNT BY 1 | EE000180 |
| 15* | 217070.00 | 217047.12 | 48 | | | CB,\$5, G OKOLO | - LOOP IF 80 CHARS NOT TESTED | EE000181 |
| 16* | 217070.40 | 217055.10 | 00 | | | B,G KONTR | -80 CHAR TEST WITHOUT END CODE | EE000182 |
| 17* | | | | | | - | -PCSRC ROUTINE-ITS FCNS ARE | EE000183 |
| 18* | | | | | | - | -1. TO PERFORM A FAKE READ FROM THE CNSL WHEN \$RD PSEUDO | EE000184 |
| 19* | | | | | | - | -OP WAS ENCOUNTERED IF A CS HAD PREVIOUSLY BEEN GIVEN. | EE000185 |
| 20* | | | | | | - | -2. GENERATE A FAKE EOP IF NECESSARY | EE000186 |
| 21* | 217071.00 | 000000.02 | 3A | | | P CSRD LV,\$1,SUNA(\$10) | | EE000187 |
| 22* | 217071.40 | 000003.00 | 8D | 000000.06 | 70 | CO011(BU),S CW(\$13),0 | -PUT CW IN \$R | EE000188 |
| 23* | 217072.40 | 215001.04 | 80 | 217103.74 | 02 | BB,\$L,P MCP | -WHO ISSUED THE READ | EE000189 |
| 24* | 217073.40 | 216760.05 | 01 | | | LVI,\$2,PPPBF | -PP-SET TO TRANSFER FROM PP BF | EE000190 |
| 25* | 217074.00 | 000001.57 | 81 | 001000.00 | FO | CM0000(BU,1), S CNS SG+1.0(\$1),0 | - TURN OFF PP CNS SG BIT | EE000191 |
| 26* | 217075.00 | 000002.77 | 82 | 217105.74 | 00 | P CS RD1 BZB, 2.63(\$2), P3WD | -IS LAST BYTE OF 3RD WORD END CODE | EE000192 |
| 27* | 217076.00 | 217106.46 | 30 | | | LV,\$3, P CUT | - NO - SET TO TRANSFER UP TO 13 WORDS | EE000193 |
| 28* | 217076.40 | 217077.77 | 01 | | | PCSRD2 LVI,\$15,\$+1.0 | | EE000194 |
| 29* | 217077.00 | 217107.10 | 00 | | | B,GTRNF | -TRANSFER FROM PROPER BUFFER | EE000194 |
| 30* | 217077.40 | 000000.00 | 82 | | | ,0(\$2) | | EE000195 |
| 31* | 217100.00 | 000003.00 | 83 | | | ,3.0(\$3) | | EE000196 |
| 32* | 217100.40 | 000011.00 | 80 | | | ,\$R | | EE000197 |
| 33* | 217101.00 | * 000004.00 | 8D | 000040.20 | 00 | ST(BU),SCCW(\$13),64 | -STORE LAST CW IN FAT | EE000198 |
| 34* | 217102.00 | 000040.17 | 02 | | | LCI,\$7,(8)40.C | | EE000199 |
| 35* | 217102.40 | 215776.03 | 01 | | | LVI,\$1,KNORM | | EE000200 |
| 36* | 217103.00 | 215746.50 | 00 | | | B,KGATE | | EE000201 |
| 37* | 217103.40 | 216775.05 | 01 | | | P MCP LVI,\$2,P MCP BF | -SET TO TRANSFER FROM MCP BF | EE000202 |
| 38* | 217104.00 | 000000.57 | 81 | 001000.00 | FO | CM0000(BU,1), SCNSSG(\$1) | - TURN OFF MCP CNS SG BIT | EE000203 |
| 39* | 217105.00 | 217075.10 | 00 | | | B,PCSRD1 | | EE000204 |
| 40* | 217105.40 | 000000.07 | C1 | | | P3WD LVI,\$3,0 | | EE000205 |
| 41* | 217106.00 | 217076.50 | 00 | | | B,PCSRD2 | | EE000206 |
| 42* | 217106.40 | 000000.00+ | | | | P CUT VF, 0.0 | | EE000207 |
| 43* | | | | | | - | ***** TRANSFER SUBROUTINE ***** | EE000208 |
| 44* | 217107.00 | 000020.00 | 80 | 217134.00 | AO | G TRNF TI,16.0,\$0,G VODR | -SAVE \$C-\$15 IN LOC. G VODR | EE000209 |
| 45* | 217110.00 | 000000.43 | BF | | | LVE,\$1,.32(\$15) | -LOAD \$1 WITH TOT. NOS. OF FULL WORDS | EE000210 |
| 46* | 217110.40 | 000000.07 | BF | | | LVE,\$3,(\$15) | | EE000211 |
| 47* | 217111.00 | 000001.05 | BF | | | LVE,\$2,1.0(\$15) | | EE000212 |
| 48* | 217111.40 | 000000.04 | 12 | | | LX,\$2,0.0(\$2) | -LOAD \$2 WITH 1ST CONTROL WORD | EE000213 |
| 49* | 217112.00 | 000022.10 | 10 | | | LX,\$4,\$2 | -LOAD \$4 WITH 1ST CONTROL WORD | EE000214 |
| 50* | 217112.40 | 217132.70 | 42 | | | BXCZ, G HI | - IS CF OF CTL WORD ZERO | EE000215 |
| 51* | 217113.00 | 000021.05 | 90 | | | G KOLD KC,\$2,\$1 | -COMP. CO.F. \$2 WITH TOT. NOS OF FULL | EE000216 |
| 52* | | | | | | | -WORDS TO BE TRANSFERRED | EE000217 |
| 53* | 217113.40 | 217132.73 | 42 | | | BXH,G HI | -TEST INDICATOR IF HIGH | EE000218 |
| 54* | 217114.00 | 000022.33 | 80 | 217116.34 | 02 | G SKIP BB,\$2+.27,G SKIPA | -TEST IF ,SKIP, BIT IS ON | EE000219 |
| 55* | 217115.00 | * 000000.00 | 83 | 000000.04 | 22 | T,\$2,0.0(\$3),0.0(\$2) | -TRANS. \$2CF. WORDS FROM TEM. BUF. TO | EE000220 |
| 56* | | | | | | | -ADD. FROM VF. OF CONTROL WORD | EE000221 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 217116 |
|------|-------------|---------------|---------|--|--|----------|
| 1* | 217116.00 | 000036.05 50 | G SKIP | SC,\$2,\$14 | -STORE CF.\$2 IN VF.\$14 | EE000222 |
| 2* | 217116.40 | 217120.35 D0 | | SVA,\$14,GNWADD | | EE000223 |
| 3* | 217117.00 | 000024.30 80 | | BB,\$4.24,GNWADD+.32 | | EE000224 |
| 4* | 217120.00 | 000000.11 0D | GNWADD | V-I,\$4,C | | EE000225 |
| 5* | 217120.40 | 000036.06 B0 | | V+,\$3,\$14 - MOVE POINTER INTEMP BUFFER | | EE000226 |
| 6* | 217121.00 | 000024.30 80 | | BB,\$4.24,\$+1.32 | | EE000227 |
| 7* | 217122.00 | 000036.10 B0 | | V+,\$4,\$14 -NO, ADJUST STORE LCC | | EE000228 |
| 8* | 217122.40 | 217123.35 D0 | | SVA,\$14,G EMAN | -STORE VF.\$14 IN LCC. G EMAN ADD.F. | EE000229 |
| 9* | 217123.00 | 000000.11 C8 | G EMAN | C-I,\$4,C.0 | -SUBTRACT FROM CF.\$4 CF.\$2 | EE000230 |
| 10* | 217123.40 | 217124.35 D0 | | SVA,\$14,G IGCR | -STORE VF.\$14 IN LCC. G IGCR ADD.F. | EE000231 |
| 11* | 217124.00 | 000000.C3 0D | G IGCR | V-I,\$1,C.0 | -SUBTRACT FROM VF.\$1 CF.\$2 | EE000232 |
| 12* | 217124.40 | 000022.31 80 | | BZB,\$2+.25,G NOLOP | -TEST FOR CHAIN BIT | EE000233 |
| 13* | 217125.40 | 217127.71 42 | | BXVZ,G NOLOP | -TEST IF \$1 INDIC.,INDEX VAL.0, IS ON | EE000234 |
| 14* | 217126.00 | 000022.02 00 | | R,\$2 | -REFILL \$2 WITH NEXT CONTROL WORD | EE000235 |
| 15* | 217126.40 | 000024.02 00 | | R,\$4 | -REFILL \$4 WITH NEXT CONTROL WORD | EE000236 |
| 16* | 217127.00 | 217113.10 C0 | | B,G KCLC | -LOOP TO LCC. KOLO | EE000237 |
| 17* | 217127.40 | 000010.11 10 | G NOLOP | SX,\$4,\$L | -STORE \$4 IN \$L | EE000238 |
| 18* | 217130.00 * | 000010.22 80 | | CM1111(BU,1),\$L+.18 | -TURN ON UNIT READY BIT | EE000239 |
| 19* | 217131.00 | 217134.00 80 | | TI,16.0,G VODR,\$0 | -RESTORE \$0-\$15 FROM LOC. G VODR | EE000240 |
| 20* | 217132.00 | 000001.50 CF | | B,1.32(\$15) | -BRANCH OUT | EE000241 |
| 21* | 217132.40 | 000021.04 50 | G HI | LC,\$2,\$1 | -LOAD CF.\$2 WITH NCS FROM VF.\$1 | EE000242 |
| 22* | 217133.00 | 217114.10 00 | | B,G SKIP | -RETURN TO LCC. ,G SKIP, | EE000243 |
| 23* | 217133.40 | 000000.30 C0 | | CNOP | | EE000244 |
| 24* | 217134.00 * | 000020.00 | G VODR | DRZ(BU,64),16 | -RESERVE 16 FULL WORDS | EE000245 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-----------|-------------|--------|-----------|------------------------------------|----------|
| 1* | | | | | - ***** | FA000001 |
| 2* | | | | | -***** RETURN *****- | FA000002 |
| 3* | | | | | - ***** | FA000003 |
| 4* | 217154.00 | | | | SLC,\$ | FA000004 |
| 5* | 217154.00 | 215021.23 | 01 | C RETN | LVI,9,S PROG S | FA000005 |
| 6* | 217154.40 | 215001.04 | 80 | 217170.74 | 00 BZB,S L, C RET PP | FA000006 |
| 7* | 217155.40 | 000001.23 | 05 | | V+I,9, 1.0 | FA000007 |
| 8* | 217156.00 | 000000.31 | 89 | 217210.34 | 04 BZB,S AS(\$9),M D RET | FA000008 |
| 9* | 217157.00 | 000000.75 | 89 | 217164.34 | 02 BB,S SID(\$9),C M SNOW | FA000009 |
| 10* | 217160.00 | 000000.44 | 39 | | LV,2,S G K(\$9) | FA000010 |
| 11* | 217160.40 | 217164.31 | 42 | | BXVZ, C M SNOW | FA000011 |
| 12* | 217161.00 | 000000.32 | 39 | C RET 1 | LV,13, C.O(\$9) | FA000012 |
| 13* | 217161.40 | 222037.31 | 42 | | BXVZ, K UNSTC | FA000013 |
| 14* | 217162.00 | 217163.03 | 01 | | LVI,1,\$+1.0 | FA000014 |
| 15* | 217162.40 | 222020.10 | 00 | | B,K SERCH | FA000014 |
| 16* | 217163.00 | 222037.10 | 00 | | B,K UNSTC | FA000015 |
| 17* | 217163.40 | 216010.50 | 00 | | B,K INT TY | FA000016 |
| 18* | 217164.00 | 215373.00 | 80 | 217236.74 | 04 C M SNOW BZB,S LR MCP+9.C,M UPI | FA000017 |
| 19* | 217165.00 | 000035.37 | 02 | | LCI,15,29 | FA000018 |
| 20* | 217165.40 | 215417.20 | 30 | | LV,8,S IC MCP | FA000019 |
| 21* | 217166.00 | 217170.21 | 30 | | SV,8,\$+2.0 | FA000020 |
| 22* | 217166.40 | 215363.44 | A0 | | LFT(U),SLRMCP+1.0 | FA000021 |
| 23* | 217167.00 | * 215362.00 | 80 | 000003.36 | 20 T,15,S LR MCP,3.C | FA000022 |
| 24* | 217170.00 | 217170.00 | 00 | | BE,\$ | FA000023 |
| 25* | 217170.40 | 000000.31 | 89 | 217176.74 | 04 C RET PP BZB,S AS(\$9),K SUPP2 | FA000024 |
| 26* | 217171.40 | 000000.75 | 89 | 217205.34 | 02 BB, S SID(\$9), C P SID | FA000025 |
| 27* | 217172.40 | 000000.44 | 39 | | LV,2,S G K(\$9) | FA000026 |
| 28* | 217173.00 | 217200.31 | 42 | | BXVZ, C P SNOW | FA000027 |
| 29* | 217173.40 | 000000.32 | 39 | | LV,13,C.O(\$9) | FA000028 |
| 30* | 217174.00 | 222037.31 | 42 | | BXVZ,K UNSTC | FA000029 |
| 31* | 217174.40 | 217175.43 | 01 | | LVI,1,\$+1.0 | FA000030 |
| 32* | 217175.00 | 222020.10 | 00 | | B,K SERCH | FA000030 |
| 33* | 217175.40 | 222037.10 | 00 | | B,K UNSTC | FA000031 |
| 34* | 217176.00 | 216010.50 | 00 | | B,K INT TY | FA000032 |
| 35* | 217176.40 | 000000.45 | 05 | | K SUPP2 V+I,2,.32 | FA000033 |
| 36* | 217177.00 | 215265.05 | 30 | | SV,2,S TIC | FA000034 |
| 37* | 217177.40 | 216242.10 | 00 | | B,K SUPP | FA000035 |
| 38* | 217200.00 | 217201.03 | 01 | | C P SNOW LVI,1,\$+1.0 | FA000036 |
| 39* | 217200.40 | 217316.10 | 00 | | B,JTSEXE | FA000037 |
| 40* | 217201.00 | 215266.00+ | | | VF,SLRPP | FA000038 |
| 41* | 217201.40 | 000035.37 | 02 | | LCI,15,29 | FA000039 |
| 42* | 217202.00 | 215323.02 | 30 | | LV,1,SICPP | FA000040 |
| 43* | 217202.40 | * 217204.43 | 30 | | SV,\$1,\$+2.0 | FA000040 |
| 44* | 217203.00 | 215267.44 | A0 | | LFT(U),SLRPP+1.0 | FA000041 |
| 45* | 217203.40 | 215266.00 | 80 | 000003.36 | 20 T,15,S LR PP,3.0 | FA000042 |
| 46* | 217204.40 | 217204.40 | 00 | | BE,\$ | FA000043 |
| 47* | 217205.00 | 000000.32 | 39 | | C P SID LV,13, C.O(\$9) | FA000044 |
| 48* | 217205.40 | 217200.31 | 42 | | BXVZ, C P SNOW | FA000045 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 217206 |
|------|-------------|---------------|--------------|------------------------|-----------------------------|----------|
| 1* | 217206.00 | 217207.03 01 | | LVI,1,\$+1.0 | | FA000047 |
| 2* | 217206.40 | 222020.10 00 | | B,K SERCH | | FA000047 |
| 3* | 217207.00 | 217200.10 00 | | B, C P SNGW | | FA000048 |
| 4* | 217207.40 | 216010.50 00 | | B,K INT TY | | FA000049 |
| 5* | 217210.00 | 215636.02 10 | M C RET | LX,\$1,M C R | *****S D RET***** | FA000050 |
| 6* | 217210.40 | 000000.75 89 | 001000.00 FC | CM0000(BU,1),SSIC(\$9) | | FA000051 |
| 7* | 217211.40 | 000001.10 31 | | LV,4,1.0(\$1) | -CHECK USERS TT | FA000052 |
| 8* | 217212.00 | 000000.04 81 | 217213.74 00 | BZB,.4(\$1),M SD A | -USER IS PP | FA000053 |
| 9* | 217213.00 | 217236.71 46 | | BXVZZ,M UP 1 | -PRIMED GP | FA000054 |
| 10* | 217213.40 | 000002.04 11 | M SD A | LX,\$2,2.0(\$1) | -ADDR. OF USERS B,\$MCP | FA000055 |
| 11* | 217214.00 | 000000.06 84 | 217215.74 00 | BZB,.6(\$4),\$+1.32 | | FA000056 |
| 12* | 217215.00 | 000000.45 05 | | V+I,2,.32 | | FA000057 |
| 13* | 217215.40 | 000000.45 05 | | V+I,\$2,.32 | -ADDR. OF USERS \$OP IN \$2 | FA000058 |
| 14* | 217216.00 * | 000023.03 30 | | SV,\$1,\$3 | -SENDER'S K IN \$3 | FA000059 |
| 15* | 217216.40 | 217226.06 80 | | V+,3,M X | | FA000060 |
| 16* | 217217.00 | 000000.00 81 | 004067.20 50 | L(BU,4),0.0(\$1),-18 | | FA000061 |
| 17* | 217220.00 | 000002.43 05 | | V+I,1,2.32 | | FA000062 |
| 18* | 217220.40 | 000010.04 50 | | LC,\$2,\$L | -N IN C.F. \$2 | FA000063 |
| 19* | 217221.00 | 217226.44 CA | M SD 2A | CBZH,\$2,M SD 3A | | FA000064 |
| 20* | 217221.40 | 215637.06 80 | | V+,\$3,M C 1 | -GET NEXT RESTORE BIT | FA000065 |
| 21* | 217222.00 | 000000.43 05 | | V+I,\$1,.32 | | FA000066 |
| 22* | 217222.40 | 000000.00 83 | 217221.34 00 | BZB,0.0(\$3),M SD 2A | -NO RESTORE | FA000067 |
| 23* | 217223.40 | 000000.00 81 | 040060.20 50 | L(BU,32),0.0(\$1),-32 | | FA000068 |
| 24* | 217224.40 | 000000.00 82 | 040060.20 00 | ST(BU,32),0.0(\$2),-32 | -RESTORE | FA000069 |
| 25* | 217225.40 | 217221.10 00 | | B,M SD 2A | | FA000070 |
| 26* | 217226.00 | 000000.12+ | M X | VF,.10 | | FA000071 |
| 27* | 217226.40 | 215636.02 10 | M SD 3A | LX,\$1,M C R | | FA000072 |
| 28* | 217227.00 | 000000.04 81 | 217235.74 00 | BZB,.4(\$1),M IUP | -PP USER | FA000073 |
| 29* | 217230.00 | 000001.40 31 | | LV,\$0,1.32(\$1) | | FA000074 |
| 30* | 217230.40 | 215562.41 30 | | SV,C,MTC3A | | FA000075 |
| 31* | 217231.00 | 215265.01 30 | | SV,C,STIC | | FA000076 |
| 32* | 217231.40 * | 000001.02 31 | | LV,\$1,1.0(\$1) | | FA000077 |
| 33* | 217232.00 | 215636.03 30 | | SV,\$1,MCR | | FA000078 |
| 34* | 217232.40 | 000000.40 39 | | LV,C,SQK(\$9) | | FA000079 |
| 35* | 217233.00 | 215552.31 42 | | BXVZ,MTC2A | | FA000080 |
| 36* | 217233.40 | 000036.37 02 | M SD 3B | LCI,15,30 | | FA000081 |
| 37* | 217234.00 | 215230.00 80 | 215362.36 20 | T,15,STLR,SLRMCP | | FA000082 |
| 38* | 217235.00 | 222037.10 00 | | B,KUNSTC | | FA000083 |
| 39* | 217235.40 | 000001.42 31 | M IUP | LV,\$1,1.32(\$1) | | FA000084 |
| 40* | 217236.00 | 215361.03 30 | | SV,\$1,S IC BU | -RET. AD. SET | FA000085 |
| 41* | 217236.40 | 000000.40 39 | M UP 1 | LV,C,SQK(\$9) | | FA000086 |
| 42* | 217237.00 | 222037.31 40 | | BZXVZ,KUNSTC | | FA000087 |
| 43* | 217237.40 | 215640.02 30 | | LV,1,MPRMQK | | FA000088 |
| 44* | 217240.00 | 217260.31 46 | | BXVZZ,M PP 1 | | FA000089 |
| 45* | 217240.40 | 215645.04 30 | | LV,\$2,M R 5 | | FA000090 |
| 46* | 217241.00 | 000000.04 32 | | LV,\$2,C.0(\$2) | -\$OP CODE IN \$2 | FA000091 |
| 47* | 217241.40 | 000022.30 80 | 001000.00 FC | CM0000(BU,1),\$2+.24 | -MAKE OP CODE + | FA000092 |
| 48* | 217242.40 | 215566.04 32 | | LV,2,MIFTTT-64.0(\$2) | -GET ADDRESS OF TT | FA000093 |
| 49* | 217243.00 | 000000.11 82 | 217256.74 02 | BB,.9(\$2),M B1 | | FA000094 |
| 50* | 217244.00 | 000000.00 82 | 004066.60 50 | L(BU,4),0.0(\$2),-19 | | FA000095 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 217245 |
|------|-------------|---------------|--------------|------------------------|---|---------------------------------------|
| 1* | 217245.00 * | 000010.00 30 | | LV,\$0,\$L | | FA000097 |
| 2* | 217245.40 | 000020.00 80 | | V+,\$0,\$0 | | FA000098 |
| 3* | 217246.00 | 000020.00 50 | | LC,\$0,\$0 | -N IN \$0 | FA000099 |
| 4* | 217246.40 | 215640.00 80 | 023066.70 90 | M-(BU,19),M PRM GK,-19 | | FA000100 |
| 5* | 217247.40 | 215645.06 10 | | LX,\$3,M R 5 | -TRANSMIT CONTROL | FA000101 |
| 6* | 217250.00 | 000000.04 82 | 001000.36 FO | CM1111(BU,1),.4(\$2) | -SET USER TO MCP | FA000102 |
| 7* | 217251.00 | 215636.05 30 | | SV,\$2,M CR | -SET K IN MCR | FA000103 |
| 8* | 217251.40 | 215546.05 30 | | SV,\$2,MR3 AD | | FA000104 |
| 9* | 217252.00 | 000001.22 02 | | Z,1.0(\$2) | | FA000105 |
| 10* | 217252.40 | 000002.45 05 | | V+I,\$2,2.32 | | FA000106 |
| 11* | 217253.00 | 000000.40 83 | 340000.20 50 | M UP 5A | L(V+ICR)(BU,32),.32(\$3) | FA000107 |
| 12* | 217254.00 | 000000.40 82 | 140000.20 DC | | ST(V+I)(BU,32),.32(\$2) -PARAM. TC TENT. | FA000108 |
| 13* | 217255.00 | 217253.00 48 | | CB,\$0,M UP 5A | -PARAM FINISHED | FA000109 |
| 14* | 217255.40 | 215645.07 10 | | SX,\$3,M R 5 | -SAVE UNPRIME CONTROL | FA000110 |
| 15* | 217256.00 | 215546.50 00 | | B,M TC 1 | -ENTER | FA000111 |
| 16* | 217256.40 | 215265.00 80 | 023000.32 BC | M B1 | M-1(BU,19),S TIC | FA000112 |
| 17* | 217257.40 | 216242.10 00 | | B,K SUPP | | FA000113 |
| 18* | 217260.00 | 215636.22 00 | | M PPI | Z,M CR | FA000114 |
| 19* | 217260.40 * | 000001.23 00 | | V-I,9,1.0 | | FA000115 |
| 20* | 217261.00 | 217310.40 80 | | SIC,JMPP2 | | FA000116 |
| 21* | 217261.40 | 217306.50 00 | | B,JMPP1 | -CHECK FOR OP, AD, USA, DS | FA000116 |
| 22* | 217262.00 | 000000.31 89 | 217277.74 02 | BB,SAS(\$9),CRETBU | -RETURN TO PP IF HE IS AUTO STACKED | FA000117 |
| 23* | 217263.00 | 000000.32 39 | | LV,\$13,(\$9) | | FA000118 |
| 24* | 217263.40 | 217271.71 42 | | BXVZ,RSIOTT | | FA000118 |
| 25* | 217264.00 | 217265.03 01 | | LVI,\$1,\$+1.0 | | FA000119 |
| 26* | 217264.40 | 222020.10 00 | | B,KSERCH | | FA000119 |
| 27* | 217265.00 | 217271.50 00 | | B,RSIOTT | | FA000120 |
| 28* | 217265.40 | 000036.37 02 | | LCI,\$15,30.0 | | FA000121 |
| 29* | 217266.00 | 215324.00 80 | 215266.36 20 | T,\$15,SLRBU,SLRPP | | FA000122 |
| 30* | 217267.00 | 215335.00 80 | 001000.00 FO | CM0000(BU,1),SLRBU+9.0 | | FA000123 |
| 31* | 217270.00 | 215001.04 80 | 001000.00 FO | CM0000(BU,1),SL | | FA000124 |
| 32* | 217271.00 | 216010.50 00 | | B,KINTTY | | FA000125 |
| 33* | 217271.40 | 000000.75 89 | 217277.74 02 | RSIOTT | BB,SSIO(\$9),CRETBU | FA000126 |
| 34* | 217272.40 | 000000.40 39 | | LV,0,SQK(\$9) | | FA000127 |
| 35* | 217273.00 | 217277.71 42 | | BXVZ,CRETBU | -NO PP INTERRUPTS STACKED | FA000128 |
| 36* | 217273.40 | 000036.37 02 | | LCI,15,30 | | FA000129 |
| 37* | 217274.00 * | 215324.00 80 | 215266.36 20 | T,15,SLRBU,SLRPP | | FA000130 |
| 38* | 217275.00 | 215335.00 80 | 001000.00 FO | CM0000(BU,1),SLRBU+9.0 | | FA000131 |
| 39* | 217276.00 | 215001.04 80 | 001000.00 FO | CM0000(BU,1),SL | | FA000132 |
| 40* | 217277.00 | 222037.10 00 | | B,KUNSTC | | FA000133 |
| 41* | 217277.40 | 000035.37 02 | | C RET BU | LCI,15,29.0 | FA000134 |
| 42* | 217300.00 | 215001.04 80 | 001000.00 FC | CM0000(BU,1),S L | | FA000135 |
| 43* | 217301.00 | 215335.00 80 | 001000.00 FC | CM0000(BU,1),SLRBU+9.0 | | FA000136 |
| 44* | 217302.00 | 217303.03 01 | | LVI,1,\$+1.0 | -CHECK FOR TS, EXE | FA000137 |
| 45* | 217302.40 | 217316.10 00 | | B,JTSEXE | | FA000138 |
| 46* | 217303.00 | 215324.00+ | | VF,SLRBU | | FA000139 |
| 47* | 217303.40 | 215361.02 30 | | LV,1,SICBU | | FA000140 |
| 48* | 217304.00 | 217306.03 00 | | SVA,1,\$+2. | | FA000140 |
| 49* | 217304.40 | 215325.44 A0 | | LFT(U),SLRBU+1.0 | -RESTORE \$MR | FA000141 |
| 50* | 217305.00 | 215324.00 80 | 000003.36 20 | T,15,SLRBU,3.0 | | FA000142 |
| 51* | 217306.00 | 217306.00 00 | | BE,\$ | | FA000143 |
| 52* | | | | - | | FA000144 |
| 53* | | | | - | | FA000145 |
| 54* | | | | - | *****CHECK FOR OP, AD, USA, OR DS IN BACKUP BUFFER***** | FA000146 |
| 55* | | | | - | | FA000147 |
| 56* | 217306.40 | 215334.17 80 | 005000.06 70 | JMPP1 | LF(BU,5),SLRBU+8.15 | -PICK UP OP, USA, EXE, DS FA000148 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 217307 |
|------|-------------|-----------|--------------|--------|-------------------------------------|----------|----------|
| 1* | 217307.40 * | 720000.00 | 80 405000.C3 | | CT10001(BU,5),(2)11101 | | FA000149 |
| 2* | 217310.40 | 217310.74 | C2 | JMPP2 | BRZ,\$ -SIC INTO HERE | | FA000150 |
| 3* | 217311.00 | 000036.37 | O2 | | LCI,15,30.0 | | FA000151 |
| 4* | 217311.40 | 215324.00 | 80 215230.36 | | T,\$15,SLRBU,STLR | | FA000152 |
| 5* | 217312.40 | 215335.00 | 80 001000.CC | | CM0000(BU,1),SLRBU+9.0 | | FA000153 |
| 6* | 217313.40 | 215001.04 | 80 001000.CC | | CM0000(BU,1),SL -CHANGE TO PP LEVEL | | FA000154 |
| 7* | 217314.40 | 000404.35 | O1 | | LVI,\$14,SOAUD -ERROR CCDE | | FA000155 |
| 8* | 217315.00 | 217451.40 | 80 | | SIC,SDISIC | | FA000156 |
| 9* | 217315.40 | 217372.10 | 00 | | B,SDISP | | FA000156 |
| 10* | | | | - | | | FA000157 |
| 11* | | | | - | *****CHECK FOR TS OR EXE***** | | FA000158 |
| 12* | | | | - | LINKAGE... LVI,\$1,\$+1.0 | | FA000159 |
| 13* | | | | - | B,JTSEXE | | FA000160 |
| 14* | | | | - | VF,BUFFER | | FA000161 |
| 15* | 217316.00 | 000000.36 | 31 | JTSEXE | LV,\$15,0.0(\$1) -ADDRESS OF BUFFER | | FA000162 |
| 16* | 217316.40 | 000010.04 | 8F 217324.34 | | BZBZ,8.4(\$15),JTSEX1 - IF NO TS | | FA000163 |
| 17* | 217317.40 | 215107.C3 | O1 | | LVI,\$1,SIPT+4.0 | | FA000164 |
| 18* | 217320.00 | 217323.43 | D0 | JTSEX3 | SVA,\$1,JTSEXT | | FA000165 |
| 19* | 217320.40 | 000035.02 | 3F | | LV,\$1,29.0(\$15) | | FA000166 |
| 20* | 217321.00 | 215265.C3 | D0 | | SVA,\$1,STIC | | FA000167 |
| 21* | 217321.40 | 000035.37 | O2 | | LCI,\$15,29.0 | | FA000168 |
| 22* | 217322.00 | 000001.44 | AF | | LFT(U),1.0(\$15) | | FA000169 |
| 23* | 217322.40 * | 000000.00 | 8F 000003.36 | | T,\$15,0.0(\$15),3.0 | | FA000170 |
| 24* | 217323.40 | 217323.50 | 00 | JTSEXT | B,\$ -GO TO PARALLEL TABLE | | FA000171 |
| 25* | 217324.00 | 000010.22 | 8F 000000.74 | JTSEX1 | BZBZ,8.18(\$15),.32(\$1) -IF NO EXE | | FA000172 |
| 26* | 217325.00 | 215125.C3 | O1 | | LVI,\$1,SIPT+18.0 | | FA000173 |
| 27* | 217325.40 | 217320.10 | C0 | | B,JTSEX3 | | FA000174 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|---------|---|----------|
| 1* | | | - | ***** | FB000001 |
| 2* | | | - | *****RETURN AFTER MASKABLE INTERRUPT***** | FB000002 |
| 3* | | | - | ***** | FB000003 |
| 4* | | | - | | FB000004 |
| 5* | 217326.00 * | | | SLC,\$ | FB000005 |
| 6* | 217326.00 | 000021.37 70 | WRAMPP | SR,15,\$1 -GET PTQE | FB000006 |
| 7* | 217326.40 | 215230.42 90 | | KV,\$1,SLOWER | FB000007 |
| 8* | 217327.00 | 216372.32 42 | | BXL,WJERR | FB000007 |
| 9* | 217327.40 | 215230.02 90 | | KV,\$1,SUPPER | FB000008 |
| 10* | 217330.00 | 216372.32 40 | | BZXL,WJERR | FB000008 |
| 11* | 217330.40 | 215001.13 80 001000.00 FC | | CMOC00(BU,1),SSPFIX -TAKE PP OUT OF SPECIAL | FB000009 |
| 12* | 217331.40 | 215234.00 80 000007.02 AC | | TI,1,STLR+4.0,\$LZC | FB000010 |
| 13* | 217332.40 | 215001.14 80 217344.34 06 | | BBZ,STSBIT,JWRAM1 -IF TS STACKED | FB000011 |
| 14* | 217333.40 | 000000.00 31 | W CON 1 | LV,0,0.0(\$1) -GET INT. AD. | FB000012 |
| 15* | 217334.00 | 000001.22 81 217340.34 02 | | BB,1.18(\$1),JWFINI -IF PP TRIES TO RESTORE EXE | FB000013 |
| 16* | 217335.00 | 217337.41 00 | | SVA,0,WFINI -SET TCE ADDRESS | FB000014 |
| 17* | 217335.40 | 000001.00 81 000013.04 AC | | TI,2,1.0(\$1),\$IND -RESTORE IND + MASK REGS. | FB000015 |
| 18* | 217336.40 | 215245.00 80 000020.10 AC | | TI,4,STLR+13.0,\$C -RESTORE USED INDEX REGS | FB000016 |
| 19* | 217337.40 | 217337.40 00 | W FINI | BE,\$ -RETURN TO PP INTERRUPTED ADDRESS | FB000017 |
| 20* | 217340.00 | 215265.01 00 | JWFINI | SVA,\$0,STIC -MUST FAKE EXE | FB000018 |
| 21* | 217340.40 * | 000001.00 81 000013.04 AC | | TI,2,1.0(\$1),\$IND | FB000019 |
| 22* | 217341.40 | 215245.00 80 000020.10 AC | | TI,4,STLR+13.0,\$C | FB000020 |
| 23* | 217342.40 | 215125.10 00 | | B,SIPT+18.0 -FAKE EXE | FB000021 |
| 24* | 217343.00 | 215163.03 01 | WRAM | LVI,1,SFPT | FB000022 |
| 25* | 217343.40 | 217333.50 00 | | B,WCON1 | FB000023 |
| 26* | 217344.00 | 000000.00 31 | JWRAM1 | LV,0,0.0(\$1) | FB000024 |
| 27* | 217344.40 | 215265.01 00 | | SVA,0,STIC | FB000025 |
| 28* | 217345.00 | 000001.00 81 000013.04 AC | | TI,2,1.0(\$1),\$IND | FB000026 |
| 29* | 217346.00 | 215245.00 80 000020.10 AC | | TI,4,STLR+13.0,\$C | FB000027 |
| 30* | 217347.00 | 215107.10 00 | | B,SIPT+4.0 -FAKE TS | FB000028 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-------|----------------------------------|----------|
| 1* | | | | - ***** | FD000001 |
| 2* | | | | - ***** SET INTERVAL TIMER ***** | FD000002 |
| 3* | | | | - ***** | FD000003 |
| 4* | | | | - | FD000004 |
| 5* | 217347.4C * | | | SLC,\$ | FD000005 |
| 6* | 217347.4C | 000000.45 C5 | JSITX | V+I,\$2,.32 | FD000006 |
| 7* | 217350.00 | 217352.45 D0 | | SVA,\$2,JSITF | FD000007 |
| 8* | 217350.40 | 000000.45 05 | | V+I,\$2,.32 | FD000008 |
| 9* | 217351.00 | 215265.05 D0 | | SVA,\$2,STIC | FD000009 |
| 10* | 217351.40 | 215246.00 80 | | TI,3,STLR+14.0,\$1 | FD000010 |
| 11* | 217352.4C | 217352.43 B0 | JSITF | LVE,\$1,\$ | FD000011 |
| 12* | 217353.00 | 000000.02 31 | | LV,\$1,0.0(\$1) | FD000012 |
| 13* | 217353.40 | 000001.03 D0 | | SVA,\$1,\$IT | FD000013 |
| 14* | 217354.00 | 217354.50 C6 | | BUSAZ,\$+.32 | FD000014 |
| 15* | 217354.4C | 217355.10 46 | | BADZ,\$+.32 | FD000014 |
| 16* | 217355.00 | 216242.10 C0 | | B,KSUPP | FD000015 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------|-----------------------------------|----------|
| 1* | | | | ***** | FF000001 |
| 2* | | | | ***** I/O DEFINITION REPORT ***** | FF000002 |
| 3* | | | | ***** | FF000003 |
| 4* | | | | | FF000004 |
| 5* | 217355.4C * | | | SLC,\$ | FF000005 |
| 6* | 217355.4C | 220706.CC 30 | JZICR | LV,\$0,KICDRN-.32 | FF000006 |
| 7* | 217356.CC | 217357.41 D0 | | SVA,\$0,JZLCC -LOC OF FWA(J) | FF000006 |
| 8* | 217356.4C | 215246.CC 80 | | SWAPI,15,STLR+14.,\$1 | FF000007 |
| 9* | 217357.4C | 217357.41 80 | JZLCC | LVE,\$0,\$ | FF000008 |
| 10* | 217360.CC | 000021.CC 80 | | SWAPI,15,\$1,STLR+14. | FF000009 |
| 11* | 217361.CC | 000020.02 30 | | LV,\$1,\$C | FF000010 |
| 12* | 217361.4C | 220443.50 C6 | | BUSAZ,KGCOF | FF000011 |
| 13* | 217362.00 | 220444.10 46 | | BAUZ,KGCOF.32 | FF000011 |
| 14* | 217362.4C | 221350.CC 80 | JZECBR | SIC,K CONVR | FF000012 |
| 15* | 217363.00 | 221335.10 00 | | B,K CONV -GET CF AND UN NUMBER | FF000012 |
| 16* | 217363.4C | 217370.60+ | | VF,JZCHU.16 | FF000013 |
| 17* | 217364.CC | 233141.CC 80 | | SIC,ZI81 | FF000014 |
| 18* | 217364.4C | 233136.1C C0 | | B,ZI8 -CHECK PP LIMITS | FF000014 |
| 19* | 217365.00 | 217370.40 80 | | L(BU,56),JZCHU,8 -CHXX,UNO | FF000015 |
| 20* | 217366.00 | 217371.60 80 | | LF(BU,8),JZCHU.80 -CHXX,UNY | FF000016 |
| 21* | 217367.00 | 000000.CC 81 | | SF(BU),C.0(\$1) -DELIVER TO PP | FF000017 |
| 22* | 217370.CC | 216242.1C C0 | JZECM | B,KSUPP | FF000018 |
| 23* | 217370.4C * | | JZCHU | (IQS*)CC(BU),CHXX,UNIT X* | FF000019 |

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| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------|--------|--------------|--|----------|
| 1* | | | | | - ***** | HA000001 |
| 2* | | | | | - ***** ERROR CONTROL ***** | HA000002 |
| 3* | | | | | - ***** | HA000003 |
| 4* | 217371.70 * | | | | SLC,\$ | HA000004 |
| 5* | 217372.CC | 215001.04 | 80 | 217415.34 OE | S DISP BBI,SL,MCPERR -MCP CONTAMINATION IF BRANCH | HA000005 |
| 6* | 217373.CC | C04C02.35 | C4 | | KVI,\$14,SASNER | HA000006 |
| 7* | 217373.4C | 217375.33 | 42 | | BXH,\$+1.32 | HA000007 |
| 8* | 217374.CC | C03405.35 | 04 | | KVI,\$14,SIGERR | HA000008 |
| 9* | 217374.40 | 217415.32 | 40 | | BZXL,MCPERR | HA000009 |
| 10* | 217375.CC | CCCC13.22 | 00 | | Z,\$INC | HA000010 |
| 11* | 217375.40 | 215224.CC | 10 | | LX,C,SBNDRS | HA000011 |
| 12* | 217376.CC | C00C03.C1 | 10 | | SX,C,3.C -SET MCP BOUNDS | HA000011 |
| 13* | 217376.40 | 215373.CC | 10 | | LX,C,SLRMCP+9.0 | HA000012 |
| 14* | 217377.CC | C00C14.C1 | 10 | | SX,C,\$MASK -SET MCP MASK | HA000012 |
| 15* | 217377.40 | C00C36.37 | 02 | | LGI,15,30.0 | HA000013 |
| 16* | 217400.CC | 215230.CC | 80 | 215324.36 20 | T,15,STLR,SLRBU -MOVE PP LOWER REGS. TO PERM. BUFFER | HA000014 |
| 17* | 217401.CC | 215571.CC | 80 | | SIC,SPRIMR | HA000015 |
| 18* | 217401.4C | 215570.C4 | C0 | | BC,SPRIME | HA000015 |
| 19* | 217402.CC | C0C104.CC | 80 | | ,DABEOJ -PRIME ABNORMAL E O J | HA000016 |
| 20* | 217402.40 | C00C10.35 | 30 | | SV,14,\$L -GET ERROR CODE | HA000017 |
| 21* | 217403.00 | 217413.20 | 80 | 020067.12 FO | SF(BU,16),MPPBAD+5.16,-18 -SET ERROR CODE IN SPOOL MESSAGE | HA000018 |
| 22* | 217404.CC | 224C52.CC | 80 | | SIC,ZSPLP9 | HA000019 |
| 23* | 217404.40 | 224046.5C | C0 | | B,ZSPLPR | HA000020 |
| 24* | 217405.00 * | 217406.00 | 80 | | ,MPPBAD | HA000021 |
| 25* | 217405.4C | C00C07.CC | 80 | | ,7.C | HA000022 |
| 26* | | | | | CNOP | HA000023 |
| 27* | 217406.00 | | | MPPBAD | (AX)DD(BU),1YOUR PROGRAM WAS ENDED BECAUSE X | HA000024 |
| 28* | 217412.00 | | | | (A*)DD(BU),OF A TYPE XX ERROR * | HA000025 |
| 29* | 217415.00 | C00C36.CC | 80 | 217441.04 AC | MCPERR TI,2,\$14,MMPCW+1.C -SAVE 14 AND 15 | HA000026 |
| 30* | 217416.CC | C00C10.35 | 30 | | SV,\$14,\$L | HA000027 |
| 31* | 217416.40 | 217446.70 | 80 | 020067.12 FO | SF(BU,16),MCPBAD+3.56,-18 -ERROR CODE | HA000028 |
| 32* | 217417.40 | C03405.35 | 04 | | KVI,14,S IO ERR | HA000029 |
| 33* | 217420.CC | 217432.32 | C2 | | BXE,Z EC 75 | HA000030 |
| 34* | 217420.4C * | C03406.35 | 04 | | KVI,14,S REJ | HA000031 |
| 35* | 217421.CC | 217432.32 | C2 | | BXE,Z EC 75 | HA000032 |
| 36* | 217421.40 | 215006.34 | 30 | | Z EC99 LV,14,SYCOCH -CONSOLE CHANNEL NUMBER | HA000033 |
| 37* | 217422.CC | C00C00.CC | 8E | 000000.33 00 | REL(SECP),.0(\$14) | HA000034 |
| 38* | 217423.CC | 217424.37 | 01 | | LVI,\$15,\$+1.0 | HA000035 |
| 39* | 217423.40 | 230566.10 | C0 | | B,SA8IQS | HA000036 |
| 40* | 217424.00 | 217446.70+ | | | VF,MCPBAD+3.56 | HA000037 |
| 41* | 217424.4C | CCCC02 | | | CF,2.C | HA000038 |
| 42* | 217425.CC | 217446.70+ | | | VF,MCPBAD+3.56 | HA000039 |
| 43* | 217425.40 | C00C00.CC | 8E | 217437.21 00 | MCCW CCW,0.0(\$14),MCCW1 -LOOP UNTIL CHANNEL | HA000040 |
| 44* | 217426.40 | 217437.30 | 80 | 217425.74 02 | BB,MCCW1+.24,MCCW -IS RELEASED | HA000041 |
| 45* | 217427.4C | C00C00.CC | 8E | 217440.13 00 | W(SECP),0.0(\$14),MMPCW | HA000042 |
| 46* | 217430.40 | 217441.00 | 80 | 000036.04 A0 | TI,2,MMPCW+1.0,\$14 | HA000043 |
| 47* | 217431.4C | 217431.44 | C0 | | RD,\$ | HA000044 |
| 48* | 217432.00 | 217451.03 | 30 | | Z EC 75 SV,1,ZEC75S -MCP CANNOT CONTINUE | HA000045 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 217432 |
|------|-------------|------------------------------|---------|---|----------|----------|
| 1* | 217432.40 | 217450.03 C1 | | LVI,1,Z EC75M | | HA000047 |
| 2* | 217433.00 | 217370.00 80 | | SIC,JZECM | | HA000048 |
| 3* | 217433.40 | 217362.50 00 | | B,JZECBR | | HA000048 |
| 4* | 217434.00 * | 216242.35 C1 | | LVI,14,KSUPP | | HA000049 |
| 5* | 217434.40 | 217370.35 D0 | | SVA,14,JZECM | | HA000050 |
| 6* | 217435.00 | 217451.02 30 | | LV,1,ZEC75S | | HA000051 |
| 7* | 217435.40 | 217440.53 80 003000.22 B0 | | M+1(BU,3),M MCP CW+.43 | | HA000052 |
| 8* | 217436.40 | 217421.50 00 | | B,Z EC99 | | HA000053 |
| 9* | 217437.00 | CC0000.00+ C00 C00000 0CCCC0 | MCCW1 | CW,C | | HA000054 |
| 10* | 217440.00 | 217443.00+ C00 C00005 0CCCC0 | MMCPCW | CW,MCPBAD,5.C | | HA000055 |
| 11* | 217441.00 * | 000002.C0 | | DRZ(N),(2) | | HA000056 |
| 12* | 217443.00 | 17777777777777777777 | MCPBAD | DD(BU),(16)FFFFFFFFFFFFFFFF | | HA000057 |
| 13* | 217444.00 | 12525252525252525252 | | DD(BU),(16)AAAAAAAAAAAAAAAA | | HA000058 |
| 14* | 217445.00 | 1777777777740000000000 | | DD(BU),(16)FFFFFFFFC0000000 | | HA000059 |
| 15* | 217446.00 | 176775 | | DD(BU,16),(16)FD0D | | HA000060 |
| 16* | 217446.20 | | | (IQS*)DD(BU),TYPE XX ERROR * | | HA000061 |
| 17* | 217450.00 * | 000001.C0 | Z EC75M | DRZ(N),(1) | | HA000062 |
| 18* | 217451.00 | CC0000.00+ | Z EC75S | VF,C.0 | | HA000063 |
| 19* | 217451.40 | CC0000.00+ | S DISIC | VF,C | | HA000064 |
| 20* | | | - | ***** ENTER HERE FROM B, DMCP ERROR ***** | | HA000065 |
| 21* | 217452.00 | 217452.52 C6 | SDSPDS | BIFZ,\$.32 | | HA000066 |
| 22* | 217452.40 | 000040.35 01 | | LVI,\$14,32.0 | | HA000067 |
| 23* | 217453.00 | 215265.35 D0 | | SVA,\$14,STIC | | HA000067 |
| 24* | 217453.40 | 000003.00 80 215230.34 AC | | TI,14,3.0,STLR | | HA000068 |
| 25* | 217454.40 | 000021.00 80 215246.36 AC | | TI,15,17.0,STLR+14.C | | HA000068 |
| 26* | 217455.40 | 215231.47 AC | | BE,STLR+1.32(.26,2)111101 | | HA000069 |
| 27* | 217456.00 | 217456.47 C6 | | BOPZ,\$.32 | | HA000069 |
| 28* | 217456.40 | 000406.35 C1 | | LVI,\$14,SBR40 | | HA000070 |
| 29* | 217457.00 | 217451.40 80 | | SIC,SCISIC | | HA000071 |
| 30* | 217457.40 | 217372.10 C0 | | B,SDISP | | HA000071 |

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| LINE | LOCATION | INARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|----------------|---------|--------------------------------------|----------|
| 1* | | | | - ***** | HB000001 |
| 2* | | | | - ***** THE ERROR DUMP ROUTINE ***** | HB000002 |
| 3* | | | | - ***** | HB000003 |
| 4* | 217460.CC * | | | SLC,\$ | HB000004 |
| 5* | | | | CNCP, | HB000005 |
| 6* | 217460.00 | 10010000000000 | AEDMPT | DD(BU,45),0(.3)2(.11)1 | HB000006 |
| 7* | | | | EXT(0,18) | HB000007 |
| 8* | 217460.55 | | 0437147 | B,AEDUMP | HB000007 |
| 9* | 217461.00 * | 000002.00 | | DRZ(N),2 | HB000008 |
| 10* | 217463.00 | 000000.40 | | DRZ(BU,32),1 | HB000009 |
| 11* | 217463.40 | 217463.00 | 30 | AEDUMP LV,\$0,AEDMPT+3. -FWA(I) | HB000010 |
| 12* | 217464.00 | 217530.10 | 10 | LX,4,AEDMPA | HB000011 |
| 13* | 217464.40 | 217527.11 | 10 | SX,4,AEDMPI | HB000012 |
| 14* | 217465.00 | 215324.40 | 90 | AEDMP2 KV,\$0,SPPLB | HB000013 |
| 15* | 217465.40 | 217526.32 | 42 | BXL,AEDRET | HB000014 |
| 16* | 217466.00 | 215324.00 | 90 | KV,\$0,SPPLB | HB000015 |
| 17* | 217466.40 | 217526.33 | 42 | BXH,AEDRET | HB000016 |
| 18* | 217467.00 | 217471.01 | D0 | SVA,\$0,ALDMP1 | HB000017 |
| 19* | 217467.40 | 215342.00 | 80 | 000021.36 AC TI,15,SLRBU+14.,\$1 | HB000018 |
| 20* | 217470.40 | 217471.04 | 00 | BD,\$.32 | HB000019 |
| 21* | 217471.00 | 217471.03 | 80 | AEDMP1 LVE,1,\$ | HB000020 |
| 22* | 217471.40 | 217541.03 | 30 | SV,\$1,AEDMPB+8.0 | HB000021 |
| 23* | 217472.00 | 215342.00 | 80 | 000021.02 AC TI,1,SLRBU+14.,\$1 | HB000022 |
| 24* | 217473.00 | 000000.41 | 05 | V+I,\$0,.32 | HB000023 |
| 25* | 217473.40 | 217474.01 | D0 | SVA,\$0,\$.32 | HB000024 |
| 26* | 217474.00 | 217474.03 | 80 | LVE,\$1,\$ | HB000025 |
| 27* | 217474.40 | 000001.03 | 05 | V+I,\$1,1. | HB000026 |
| 28* | 217475.00 | 217541.43 | 30 | SV,\$1,AEDMPB+8.32 | HB000027 |
| 29* | 217475.40 | 215342.00 | 80 | 000021.02 AC TI,1,SLRBU+14.,\$1 | HB000028 |
| 30* | 217476.40 * | 000000.41 | 05 | V+I,\$0,.32 | HB000029 |
| 31* | 217477.00 | 217477.41 | D0 | SVA,\$0,\$.32 | HB000030 |
| 32* | 217477.40 | 217477.45 | 80 | LVE,\$2,\$ | HB000031 |
| 33* | 217500.00 | 217500.50 | C6 | BUSAZ,\$.32 | HB000032 |
| 34* | 217500.40 | 217501.10 | 46 | BADZ,\$.32 | HB000033 |
| 35* | 217501.00 | 217501.40 | 00 | BE,\$.32 | HB000034 |
| 36* | 217501.40 | 217541.02 | 30 | LV,\$1,AEDMPB+8.0 | HB000035 |
| 37* | 217502.00 | 217541.46 | 30 | LV,\$3,AEDMPB+8.32 | HB000036 |
| 38* | 217502.40 | 215324.42 | 90 | KV,\$1,SPPLB | HB000037 |
| 39* | 217503.00 | 217526.32 | 42 | BXL,AEDRET | HB000038 |
| 40* | 217503.40 | 215012.46 | 90 | KV,\$3,SMARK | HB000039 |
| 41* | 217504.00 | 217526.33 | 42 | BXH,AEDRET | HB000040 |
| 42* | 217504.40 | 000021.06 | 90 | KV,\$3,\$1 | HB000041 |
| 43* | 217505.00 | 217526.33 | 40 | BZXF,AEDRET | HB000042 |
| 44* | 217505.40 | 000025.05 | 30 | SV,\$2,\$5 | HB000043 |
| 45* | 217506.00 | 000003.13 | 04 | KVI,\$5,3. | HB000044 |
| 46* | 217506.40 | 217511.32 | 42 | BXL,AEDMP4 | HB000045 |
| 47* | 217507.00 | 000017.13 | 04 | KVI,\$5,15. | HB000046 |
| 48* | 217507.40 | 217511.32 | C2 | BXE,AEDMP4 | HB000047 |
| 49* | 217510.00 | 000017.53 | C4 | KVI,\$5,15.32 | HB000048 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 217510 |
|------|-------------|------------|--------|---------------|------------------------|----------|----------|
| 1* | 217510.40 | 217526.32 | C0 | | BZXE,AEDRET | | HB000050 |
| 2* | 217511.00 | 217527.10 | 10 | AEDMP4 | LX,4,AEDMPI | | HB000051 |
| 3* | 217511.40 | 000000.03 | D4 | | SVA,1,(\$4) | | HB000052 |
| 4* | 217512.00 * | 000000.47 | D4 | | SVA,3,.32(\$4) | | HB000053 |
| 5* | 217512.40 | 000001.05 | 34 | | SV,2,1.(\$4) | | HB000054 |
| 6* | 217513.00 | 000021.01 | D0 | | SVA,\$0,\$1 | | HB000055 |
| 7* | 217513.40 | 000001.30 | 84 | 001000.36 FO | CM1111(BU,1),1.24(\$4) | | HB000056 |
| 8* | 217514.40 | 000000.30 | 81 | 217520.34 OC | BZB,.24(\$1),AEDMP7 | | HB000057 |
| 9* | 217515.40 | 000000.41 | C5 | | V+I,\$0,.32 | | HB000058 |
| 10* | 217516.00 | 000001.51 | C6 | | V+IC,\$4,1.32 | | HB000059 |
| 11* | 217516.40 | 217527.11 | 10 | | SX,4,AEDMPI | | HB000060 |
| 12* | 217517.00 | 217465.30 | 40 | | BZXCZ,AEDMP2 | | HB000061 |
| 13* | 217517.40 | 000001.51 | CD | | V-I,4,1.32 | | HB000062 |
| 14* | 217520.00 | 215005.12 | 30 | AEDMP7 | LV,5,SBAPP | | HB000063 |
| 15* | 217520.40 | 000001.53 | 34 | | SV,5,1.32(\$4) | | HB000064 |
| 16* | 217521.00 | 215012.52 | 30 | | LV,5,SMARK | | HB000065 |
| 17* | 217521.40 | 000002.13 | 34 | | SV,5,2.C(\$4) | | HB000066 |
| 18* | 217522.00 | 215005.12 | 90 | | KV,5,SBAPP | | HB000067 |
| 19* | 217522.40 | 217524.33 | 42 | | BXH,RDUMPT | | HB000068 |
| 20* | 217523.00 | 000001.30 | 84 | 001000.00 FO | CM0000(BU,1),1.24(\$4) | | HB000069 |
| 21* | 217524.00 | 000017.53 | 01 | RDUMPT | LVI,5,15.32 | | HB000070 |
| 22* | 217524.40 | 000002.53 | 34 | | SV,5,2.32(\$4) | | HB000071 |
| 23* | 217525.00 * | 217531.00 | 80 | 231430.26 AC | TI,11,AEDMPB,YEDLL | | HB000072 |
| 24* | 217526.00 | 000040.10 | C0 | AEDRET | B,DMCP | | HB000073 |
| 25* | 217526.40 | 000041.00 | 80 | | ,DRET | | HB000073 |
| 26* | 217527.00 | 217531.00+ | 000 | 000006 000000 | XW,AEDMPB,6 | | HB000074 |
| 27* | 217530.00 | 217531.00+ | 000 | 000006 000000 | AECMPA XW,AEDMPB,6 | | HB000075 |
| 28* | 217531.00 * | 000013.00 | | AECMPB | DRZ(N),11 | | HB000076 |

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| LINE | LOCATCN | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-------------------|--|----------|
| 1* | | | | - ***** | IA000001 |
| 2* | | | | -***** R E A D *****- | IA000002 |
| 3* | | | | - ***** | IA000003 |
| 4* | 217544.CC | | | SLC,\$ | IA000004 |
| 5* | 217544.CC | 221140.CC 80 | Z START | SIC,B 1RA | IA000005 |
| 6* | 217544.40 | 221102.10 00 | | B,B CWCR -BRANCH TO CHECK CW | IA000006 |
| 7* | 217545.00 | 221152.21 01 | | LVI,8,Z EVL MK | IA000007 |
| 8* | 217545.40 | 000002.61 3C | | SV,8,S EVL MK(\$12) -STORE MASK ADDR IN UA | IA000008 |
| 9* | 217546.00 | 000000.32 8A | 001000.36 FC | CM1111(BU,1),S CH OP(\$10) | IA000009 |
| 10* | 217547.00 | 217560.61 01 | | LVI,8,K FORK | IA000010 |
| 11* | 217547.40 | 000002.21 3C | | SV,8,S EVL TB(\$12) -STORE TABLE BASE ADDR IN UA | IA000011 |
| 12* | 217550.00 | 000000.14 04 | | BR,C,C(\$4) -FOR BRANCH INTO EQUIP TABLE | IA000012 |
| 13* | 217550.40 | 220064.10 00 | | B,K ILEGL -ILLEGAL EQUIP CODE - FAKE EPGK | IA000013 |
| 14* | 217551.00 | 217577.10 00 | | B,Z DISK 1 -DISK - 1 | IA000014 |
| 15* | 217551.40 | 221144.50 00 | | B,Z STEVL -CONSOLE - 2 | IA000015 |
| 16* | 217552.00 | 217565.10 00 | | B,K TEST M -CARD READER - 3 | IA000016 |
| 17* | 217552.40 | 220064.10 00 | | B,K ILEGL -INCORRECT EQUIPMENT - 4 | IA000017 |
| 18* | 217553.00 | 220064.10 00 | | B,K ILEGL -INCORRECT EQUIPMENT - 5 | IA000018 |
| 19* | 217553.40 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 6 | IA000019 |
| 20* | 217554.00 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 7 | IA000020 |
| 21* | 217554.40 | 221144.50 00 | | B,Z STEVL -TAPE - 10 | IA000021 |
| 22* | 217555.00 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 11 | IA000022 |
| 23* | 217555.40 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 12 | IA000023 |
| 24* | 217556.00 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 13 | IA000024 |
| 25* | 217556.40 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 14 | IA000025 |
| 26* | 217557.00 * | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 15 | IA000026 |
| 27* | 217557.40 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 16 | IA000027 |
| 28* | 217560.00 | 220064.10 00 | | B,K ILEGL -NO EQUIPMENT - 17 | IA000028 |
| 29* | 217560.40 | 220065.50 00 | K FORK | B,K K LCC | IA000029 |
| 30* | 217561.00 | 221161.10 00 | | B,R VFY | IA000030 |
| 31* | 217561.40 | 217071.10 00 | | B,P CSRD | IA000031 |
| 32* | 217562.00 | 000004.11 04 | | KVI,4,4.0 -TEST IF TAPE | IA000032 |
| 33* | 217562.40 | 217567.72 00 | | BZXE,K YCME -BR. IF CCNSOLE | IA000033 |
| 34* | 217563.00 | 000007.52 3C | | LV,5,S FILE K(\$12) -IF TAPE, TEST IF FILE K IS ZERO | IA000034 |
| 35* | 217563.40 | 217565.31 40 | | BZXVZ,K TEST M | IA000035 |
| 36* | 217564.00 | 000006.00 8C | | SIC,S SCRPM(\$12) | IA000036 |
| 37* | 217564.40 | 220143.10 00 | | B,RSI FLK -IF SC, SPACE OVER LABEL | IA000036 |
| 38* | 217565.00 | 000002.42 3D | K TEST M | LV,1,S F MODE(\$13) -IF NOT, SET CHAN TO FILE MODE | IA000037 |
| 39* | 217565.40 | 217566.71 40 | | BZXVZ,\$+1.0 -IF ICD NULL, USE LABEL MODE | IA000038 |
| 40* | 217566.00 | 000007.02 3C | | LV,1,S LABM(\$12) | IA000039 |
| 41* | 217566.40 | 217624.40 80 | | SIC,K K MCDE | IA000040 |
| 42* | 217567.00 | 217615.10 00 | | B,K MCDE | IA000040 |
| 43* | 217567.40 | 000003.40 3C | K YCME | LV,C,S CW ADR(\$12) | IA000041 |
| 44* | 217570.00 | 217572.41 00 | | SVA,0,K GO+.32 | IA000042 |
| 45* | 217570.40 | 000000.30 00 | | CNOP | IA000043 |
| 46* | 217571.00 | 217572.00 10 | | LX,C,\$+1.0 | IA000044 |
| 47* | 217571.40 | 000004.01 1C | | SX,C,S IO INS(\$12) | IA000044 |
| 48* | 217572.00 * | 000000.00 8E | 000000.C1 00 K GC | RD,C.0(\$14),0 -ISSUE RD COMMAND | IA000045 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 217573 |
|------|-------------|------------|-------------------|-------------|---|---|----------|
| 1* | 217573.CC | 000000.71 | 8B 001000.36 | FO | CM1111(BU,1),S RD(\$11) | | IA000047 |
| 2* | 217574.00 | 000000.51 | 04 | | KVI,4,.32 | | IA000048 |
| 3* | 217574.40 | 217576.32 | 00 | | BZXE,\$+1.32 | | IA000048 |
| 4* | 217575.CC | 215001.01 | 80 001000.36 | FO | CM1111(BU,1),S HS ECH | | IA000049 |
| 5* | 217576.CC | 216242.03 | 01 | | LVI,1,K SUPP | | IA000050 |
| 6* | 217576.40 | 221261.10 | 00 | | B,M IOREJ | | IA000050 |
| 7* | 217577.00 | 215001.21 | 80 217601.34 | 02 ZDISK1 | BB,SLOCSU,\$+2.0 | | IA000051 |
| 8* | 217600.00 | 215001.01 | 80 217602.34 | 00 | BZB,SHSECH,\$+2.0 | | IA000052 |
| 9* | 217601.CC | 000000.32 | 8A 221065.34 | 06 | BBZ,SCHOP(\$10),KCBUSY | | IA000053 |
| 10* | 217602.00 | 000003.34 | 8D 011067.20 | 50 | L(BU,9-SDD),SCW.28(\$13),-18 | -CW COUNT OFFSET BY 9 FOR ARCS | IA000054 |
| 11* | 217603.00 | 000010.20 | 30 | | LV,8,\$L | | IA000055 |
| 12* | 217603.40 | 000003.45 | 8D 011062.57 | 70 | CT0111(BU,9),S CW+.37(\$13),-27 | -TEST IF COMPLETE ARC | IA000056 |
| 13* | | | | | | -TABLES ARE ONE ARC AHEAD OF MACHINE AND ASSIGNMENT | IA000057 |
| 14* | 217604.40 | 217605.74 | 00 | | BZRZ,\$+1.0 | -BRANCH IF NOT COMPLETE ARC | IA000058 |
| 15* | 217605.00 | 000001.21 | 0D | | V-1,8,1.0 | -SUBTRACT 1 FOR FULL ARC REQUEST | IA000059 |
| 16* | 217605.40 | 000006.20 | 8D | | V+,8,S CU ARC(\$13) | -ADD CURRENT ARC ADDRESS | IA000060 |
| 17* | 217606.00 * | 000005.60 | 9D | | KV,8,S MX ARC(\$13) | -COMPARE WITH MAX ARC ADDR FOR FILE | IA000061 |
| 18* | 217606.40 | 220064.33 | 42 | | BXH,K ILEGL | -TOO MANY ARCS | IA000062 |
| 19* | 217607.00 | 000006.00 | 3D | | LV,0,S CU ARC(\$13) | | IA000063 |
| 20* | 217607.40 | 000000.40 | 8A 022067.20 | 50 | L(BU,18),S ARCAD(\$10),-18 | | IA000064 |
| 21* | 217610.40 | 000010.00 | 90 | | KV,0,\$L | -TEST IF LCC NEEDED | IA000065 |
| 22* | 217611.00 | 217612.72 | 02 | | BXE,\$+1.32 | | IA000066 |
| 23* | 217611.40 | 215001.21 | 80 220065.74 | 00 | BZB1,SLOCSU,KKLOC | | IA000067 |
| 24* | 217612.40 | 000000.47 | 8B 221144.74 | 04 | BZBZ,S SEL(\$11),Z STEVL | | IA000068 |
| 25* | 217613.40 | 220105.40 | 80 | | SIC,K G LOCR | | IA000069 |
| 26* | 217614.00 | 220100.50 | 00 | | B,K G LCC | | IA000069 |
| 27* | 217614.40 | 221144.50 | 00 | | B,Z STEVL | | IA000070 |
| 28* | | | | | | | IA000071 |
| 29* | | | | | | ***** CHANGE MODE ***** | IA000072 |
| 30* | | | | | | | IA000073 |
| 31* | | | | | CALLING SEQUENCE ** LV,1,(CODE) | | IA000074 |
| 32* | | | | | SIC,K K MODE+B,K MODE | | IA000075 |
| 33* | | | | | *** CODE ** 01 - ECC ODD# 10 - NECC EVEN# 11 - NECC ODD | | IA000076 |
| 34* | | | | | | | IA000077 |
| 35* | 217615.00 | 000010.03 | 30 | K MCDE | SV,1,\$L | | IA000078 |
| 36* | 217615.40 | 000000.62 | 8A 002067.23 | 10 | KF(BU,2),S C MCDE(\$10),-18 | -IS CHAN SET TO DESIRED MCDE | IA000079 |
| 37* | 217616.40 | 217624.76 | 02 | | BAE,K K MCDE | -IF SO, RETURN | IA000080 |
| 38* | 217617.00 | 217624.02 | 31 | | LV,1,K M CODE-1.0(\$1) | -IF NOT, PICK UP OCTAL CODE | IA000081 |
| 39* | 217617.40 | 217622.43 | 00 | | SVA,1,K MCDE C.32 | | IA000082 |
| 40* | 217620.00 | 000000.62 | 8A 002067.12 | FO | SF(BU,2),S C MCDE(\$10),-18 | -RESET CHAN ST TABLE | IA000083 |
| 41* | | | | | CNOP | | IA000084 |
| 42* | 217621.00 | 217622.00 | 10 | | LX,C,\$+1. | | IA000085 |
| 43* | 217621.40 * | 000004.01 | 10 | | SX,C,S IO INS(\$12) | | IA000085 |
| 44* | 217622.00 | 000000.00 | 8E 000000.15 | 00 K MCDE C | CTL(SEOP),0.0(\$14),C.C | -MODE CHANGE COMMAND | IA000086 |
| 45* | 217623.00 | 221350.43 | 01 | | LVI,1,K SEOP T | | IA000087 |
| 46* | 217623.40 | 221354.40 | 80 | | SIC,K ECP R | | IA000088 |
| 47* | 217624.00 | 221261.10 | 00 | | B,M IO REJ | -WAIT FOR END OP | IA000088 |
| 48* | 217624.40 | 217624.50 | 00 | K K MCDE | B,\$ | | IA000089 |
| 49* | 217625.00 | 000057.00+ | 000 000000 000000 | K M CODE | XW,(8)57., | -ECC ODD PARITY | IA000090 |
| 50* | 217626.00 | 000156.00+ | 000 000000 000000 | | XW,(8)156., | -NO-ECC EVEN PARITY | IA000091 |
| 51* | 217627.00 | 000157.00+ | 000 000000 000000 | | XW,(8)157., | -NO-ECC ODD PARITY | IA000092 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|--|----------|
| 1* | | | | - ***** | IB000001 |
| 2* | | | | -***** WR I T E *****- | IB000002 |
| 3* | | | | - ***** | IB000003 |
| 4* | 217630.CC * | | | SLC,\$ | IB000004 |
| 5* | 217630.CC | 221140.CC 80 | E WR1 | SIC, P 1RA | IB000005 |
| 6* | 217630.40 | 221102.10 00 | | B, B CWR | IB000005 |
| 7* | 217631.00 | 221152.41 C1 | | LVI, 0, E MK1A | IB000006 |
| 8* | 217631.40 | 000000.32 8A | 001000.36 FC | CM1111(BU,1),S CH CP(\$10) | IB000007 |
| 9* | 217632.40 | 000002.41 3C | | SV, 0, S EVL MK(EA) -MASK AD. IN SLCT IN U.A.T. | IB000008 |
| 10* | 217633.00 | 217644.41 01 | | LVI, 0, E WR18 | IB000009 |
| 11* | 217633.40 | 000002.01 3C | | SV, C, S EVL TB(\$12) | IB000009 |
| 12* | 217634.CC | 000000.14 C4 | | BR, C.0(\$4) -BRANCH ACCORDING TO EQUIP | IB000010 |
| 13* | 217634.40 | 220064.10 00 | | B, K ILEGL -NO EQUIP - SYSTEM ERROR | IB000011 |
| 14* | 217635.00 | 217577.10 00 | | B, Z DISK1 -DISK | IB000012 |
| 15* | 217635.40 | 221144.50 00 | | B, Z STEVL -CONSOLE | IB000013 |
| 16* | 217636.00 | 220064.10 C0 | | B, K ILEGL -CARD READER - SYSTEM GOOD | IB000014 |
| 17* | 217636.40 | 217656.10 00 | | B, EW MODE -PUNCH | IB000015 |
| 18* | 217637.00 | 217667.10 C0 | | B, E WR31 -PRINTER | IB000016 |
| 19* | 217637.40 | 220064.10 00 | | B, K ILEGL -6 RESERVED | IB000017 |
| 20* | 217640.00 | 220064.10 C0 | | B, K ILEGL -7 RESERVED | IB000018 |
| 21* | 217640.40 | 221144.50 00 | | B, Z STEVL -TEAPE | IB000019 |
| 22* | 217641.00 | 220064.10 C0 | | B, K ILEGL -11 RESERVED | IB000020 |
| 23* | 217641.40 | 220064.10 C0 | | B, K ILEGL -12 RESERVED | IB000021 |
| 24* | 217642.00 | 220064.10 C0 | | B, K ILEGL -13 RESERVED | IB000022 |
| 25* | 217642.40 | 220064.10 00 | | B, K ILEGL -14 RESERVED | IB000023 |
| 26* | 217643.00 * | 220064.10 00 | | B, K ILEGL -15 RESERVED | IB000024 |
| 27* | 217643.40 | 220064.10 C0 | | B, K ILEGL -16 RESERVED | IB000025 |
| 28* | 217644.00 | 220064.10 C0 | | B, K ILEGL -17 - RESERVED | IB000026 |
| 29* | 217644.40 | 220065.50 00 | E WR18 | B, K K LOC -SEL BIT ON | IB000027 |
| 30* | 217645.00 | 221161.10 00 | | B, R VFY -VER BIT ON | IB000028 |
| 31* | 217645.40 | 000004.11 04 | | KVI, 4, 4.0 -TEST IF EQUIP IS TAPE | IB000029 |
| 32* | 217646.00 | 217652.72 C0 | | BZXE, E WR26 | IB000030 |
| 33* | 217646.40 | 000010.50 3C | | LV, 4, S C REEL(\$12) -TEST IF TAPE FILE PROTECTED | IB000031 |
| 34* | 217647.00 | 000000.32 84 | 220064.34 02 | BB, S FP(\$4), K ILEGL -IF SC, FAKE EPGK | IB000032 |
| 35* | 217650.00 | 000007.52 3C | | LV, 5, S FILE K(\$12) -IF TAPE, TEST IF AT LABEL | IB000033 |
| 36* | 217650.40 | 217656.31 40 | | BZXVZ, E W MODE -IF NOT, PROCEED | IB000034 |
| 37* | 217651.00 | 217656.01 01 | | LVI, 0, E W MODE -IF SO, SPACE OVER LABEL | IB000035 |
| 38* | 217651.40 | 000006.01 3C | | SV, 0, S SCR PM(\$12) | IB000036 |
| 39* | 217652.00 | 220143.10 C0 | | B, RS1 FLK | IB000036 |
| 40* | 217652.40 | 000000.51 04 | E WR26 | KVI, 4, .32 -TEST IF DISK | IB000037 |
| 41* | 217653.00 | 217655.32 C0 | | BZXE, \$+2.C | IB000038 |
| 42* | 217653.40 | 215001.01 80 | 001000.36 FC | CM1111(BU,1),S HS ECH | IB000039 |
| 43* | 217654.40 | 217667.10 C0 | | B, E WR31 | IB000040 |
| 44* | 217655.00 | 000001.11 04 | | KVI, 4, 1.0 -TEST IF CONSOLE | IB000041 |
| 45* | 217655.40 | 217667.32 C2 | | BXE, E WR31 | IB000042 |
| 46* | 217656.00 | 000002.42 3D | E W MODE | LV, 1, S F MODE(\$13) -SET CHAN TO FILE MODE | IB000043 |
| 47* | 217656.40 * | 217657.71 4C | | BZXVZ, \$+1.0 | IB000044 |
| 48* | 217657.00 | 000003.03 01 | | LVI, 1, S TD MOD -IF IOD NULL, USE STANDARD MODE | IB000044 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 217657 |
|------|-------------|-----------|--------|--------------|--|----------------------------------|----------|
| 1* | 217657.40 | 217624.40 | 80 | | SIC,K K MODE | | 1B000046 |
| 2* | 217660.00 | 217615.10 | 00 | | B,K MODE | | 1B000046 |
| 3* | 217660.40 | 000000.33 | 8A | 217667.34 00 | BZB,S MULTI(\$10),E WR31 | -IF SINGLE UNIT C, PROCEED TO RD | 1B000047 |
| 4* | 217661.40 | 000000.62 | 8B | 217667.34 04 | BZBZ,S ELG(EU),EWR31 | -GO TO SET UP WRITE IF NOT ELG | 1B000048 |
| 5* | 217662.40 | 000000.30 | 00 | | CNOP | | 1B000049 |
| 6* | 217663.00 | 217664.00 | 10 | | LX,C,\$+1.0 | | 1B000050 |
| 7* | 217663.40 | 000004.01 | 1C | | SX,C,S ID INS(\$12) | | 1B000050 |
| 8* | 217664.00 | 000000.00 | 8E | 000056.15 00 | CTL(SEOP),0.0(\$14),46. | -ERASE LONG GAP COMMAND | 1B000051 |
| 9* | 217665.00 | 217666.03 | 01 | | LVI,1,\$+1.0 | | 1B000052 |
| 10* | 217665.40 | 221261.10 | 00 | | B,M ID REJ | | 1B000052 |
| 11* | 217666.00 | 221354.40 | 8C | | SIC,K ECP R | | 1B000053 |
| 12* | 217666.40 | 221350.50 | 00 | | B,K SEOP T | -CHECK FOR INDICATORS | 1B000053 |
| 13* | 217667.00 | 000003.60 | 3C | EWR31 | LV,\$8,S CW ADR(EA) | | 1B000054 |
| 14* | 217667.40 | 217671.61 | D0 | | SVA,EX,E WR311+.32 | -CTW AD. IN WRITE INST. | 1B000055 |
| 15* | | | | | CNOP | | 1B000056 |
| 16* | 217670.00 | 217671.00 | 10 | | LX,C,\$+1.0 | | 1B000057 |
| 17* | 217670.40 | 000004.01 | 1C | | SX,C,S ID INS(\$12) | | 1B000057 |
| 18* | 217671.00 | 000000.00 | 8E | 000000.03 00 | EWR311 W,0.0(\$14),0.0 | | 1B000058 |
| 19* | 217672.00 * | 217673.03 | 01 | | LVI,1,\$+1.0 | | 1B000059 |
| 20* | 217672.40 | 221261.10 | 00 | | B,M ID REJ | | 1B000059 |
| 21* | 217673.00 | 000000.72 | 8B | 001000.36 F0 | CM1111,S WR(EU) | -TURN ON WRITE BIT IN U.S.T. | 1B000060 |
| 22* | 217674.00 | 216242.10 | 00 | | B,K SUPP | | 1B000061 |
| 23* | 000014.00+ | +00000000 | | EA | SYN,12.C | -UNIT AREA TABLE INDEX | 1B000062 |
| 24* | | | | - | \$10 | -CHANNEL STATUS TABLE INDEX | 1B000063 |
| 25* | 000015.00+ | +00000000 | | EF | SYN,13.0 | -FILE AREA TABLE INDEX | 1B000064 |
| 26* | 000010.00+ | +00000000 | | EX | SYN,8.C | -SCRATCH INDEX | 1B000065 |
| 27* | | | | - | \$9 | SCRATCH INDEX | 1B000066 |
| 28* | 000013.00+ | +00000000 | | EU | SYN,11.0 | -UNIT STATUS TABLE INDEX | 1B000067 |
| 29* | | | | - | | | 1B000068 |
| 30* | | | | - | ***** DENSITY ***** | | 1B000069 |
| 31* | | | | - | | | 1B000070 |
| 32* | | | | - | CALLING SEQUENCE ** LV,C,(DEN CODE)+ (1 - LOW, 0 - HIGH) | | 1B000071 |
| 33* | | | | - | SIC,S RET AD(\$12)+B,K DENST | | 1B000072 |
| 34* | | | | - | (EOP) | | 1B000073 |
| 35* | | | | - | (UNIT DENSITY SET TO DESIRED DENSITY) | | 1B000074 |
| 36* | | | | - | | | 1B000075 |
| 37* | 217674.40 | 000020.21 | 80 | 001027.20 50 | KDENST L(BU,1),\$0.17,46 | | 1B000076 |
| 38* | 217675.40 | 000000.41 | 8B | 217701.34 00 | BZB1,SSETDN(\$11),ZCHDEN | | 1B000077 |
| 39* | 217676.40 | 000000.61 | 8B | 001027.23 10 | KF(BU,1),SUDENS(\$11),46 | | 1B000078 |
| 40* | 217677.40 | 217701.36 | 00 | | BZAE,ZCHDEN | | 1B000079 |
| 41* | 217700.00 | 000005.02 | 3C | | LV,1,S RET AD(\$12) | | 1B000080 |
| 42* | 217700.40 | 000001.10 | 01 | | B,1.0(\$1) -IF SO, RETURN | | 1B000080 |
| 43* | 217701.00 | 217702.74 | 00 | ZC+DEN | BZRZ,KLGWD | | 1B000081 |
| 44* | 217701.40 | 000036.03 | 01 | | LVI,1,(8)36. | -HIGH DENSITY DESIRED | 1B000082 |
| 45* | 217702.00 | 217703.10 | 00 | | B,\$+1.0 | | 1B000083 |
| 46* | 217702.40 | 000037.03 | 01 | K LGW D | LVI,1,(8)37. | -LOW DENSITY DESIRED | 1B000084 |
| 47* | 217703.00 | 000000.61 | 8B | 001027.20 D0 | ST(BU,1),SUDENS(\$11),46 | | 1B000085 |
| 48* | 217704.00 | 217707.43 | D0 | | SVA,1,K DEN OP+.32 | | 1B000086 |

| LINE | LOCATICN | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 217704 |
|------|-------------|-----------|--------------|----------|-------------------------------|---------------------------------|----------|
| 1* | 217704.40 | 000000.37 | 8B 001000.36 | FO | CM1111(BU,1),S SET UP(\$11) | | IB000088 |
| 2* | 217705.40 * | C00000.30 | 00 | | CNOP | | IB000089 |
| 3* | 217706.00 | 217707.00 | 10 | | LX,C,\$+1. | | IB000090 |
| 4* | 217706.40 | C00004.01 | 1C | | SX,C,S IOINS(\$12) | | IB000090 |
| 5* | 217707.00 | C00000.00 | 8E 000000.05 | 00 | K DEN CP CTL,0.0(\$14),0.0 | -CHANGE DENSITY COMMAND | IB000091 |
| 6* | 217710.00 | 216242.03 | C1 | | LVI,1,K SUPP | | IB000092 |
| 7* | 217710.40 | 221261.10 | 00 | | B,M IO REJ | -CHECK IF ACCEPTED | IB000092 |
| 8* | | | | | - | | IB000093 |
| 9* | | | | | - | | IB000094 |
| 10* | | | | | ***** WRITE LABEL ***** | | IB000095 |
| 11* | 217711.00 | 216242.03 | C1 | K W LABL | LVI,1,K SUPP | -BACKSPACE BLOCK | IB000096 |
| 12* | 217711.40 | C00010.62 | 3C | | LV,9,S C REEL(\$12) | | IB000097 |
| 13* | 217712.00 | C00000.32 | 89 220064.34 | 02 | BB,S FP(\$9),K ILEGL | -IF FILE PROTECTED, FAKE EPGK | IB000098 |
| 14* | | | | | CNOP | | IB000099 |
| 15* | 217713.00 | 000000.37 | 8B 001000.36 | FO | CM1111(BU,1),S SET UP(\$11) | | IB000100 |
| 16* | 217714.00 | 217715.00 | 10 | | LX,C,\$+1. | | IB000101 |
| 17* | 217714.40 | C00004.01 | 1C | | SX,C,S IO INS(\$12) | | IB000101 |
| 18* | 217715.00 | C00000.00 | 8E 000176.05 | 00 | CTL,0.0(\$14),(8)176. | -BSP COMMAND | IB000102 |
| 19* | 217716.00 | 000005.00 | 8C | | SIC,S RET AD(\$12) | | IB000103 |
| 20* | 217716.40 | 221261.10 | 00 | | B,M IO REJ | | IB000103 |
| 21* | 217717.00 | 221371.00 | 80 | | SIC,K K IND | | IB000104 |
| 22* | 217717.40 | 221370.10 | 00 | | B,K IO IND | | IB000104 |
| 23* | 217720.00 | C00002.60 | 8D 002000.60 | 50 | L,S F MCDE(EF),1 | -LOAD FILE MCDE IN \$R | IB000105 |
| 24* | 217721.00 * | 217723.34 | C2 | | BRZ,Z WLABL | | IB000106 |
| 25* | 217721.40 | 600000.00 | 80 402000.55 | 70 | CTIC110(BU,2),(8)60000.,1 | -TEST IF 11 (NO ECC ODD) | IB000107 |
| 26* | 217722.40 | 217724.74 | C0 | | BZRZ,\$+2.0 | -IF NOT,BRANCH | IB000108 |
| 27* | 217723.00 | 460000.00 | 80 406000.06 | 70 | Z WLABL LFI(BU,6),(8)460000.0 | -GET BCD 0 FOR NECC ODD | IB000109 |
| 28* | 217724.00 | 217725.50 | 00 | | B,\$+1.32 | | IB000110 |
| 29* | 217724.40 | 610000.00 | 80 406000.16 | 70 | CI0111(BU,6),(8)610000. | -MAKE BCD C OR E | IB000111 |
| 30* | 217725.40 | C00002.33 | 8D 001003.06 | 70 | CO011(BU,1),S F DEN(\$13),6 | | IB000112 |
| 31* | 217726.40 | 217730.74 | C0 | | BZRZ,\$+2.0 | -TEST IF DESIRED DESITY IS HIGH | IB000113 |
| 32* | 217727.00 | C00000.00 | 80 003004.76 | 70 | C1111(BU,3),,9 | -IF SO,MAKE BCD H | IB000114 |
| 33* | 217730.00 | 217731.50 | 00 | | B,\$+1.32 | | IB000115 |
| 34* | 217730.40 | 420000.00 | 80 406003.16 | 70 | CI0111(BU,6),(8)420000.,6 | -IF NOT,MAKE BCD L FOR LOW DENS | IB000116 |
| 35* | 217731.40 | 221201.01 | 80 | | LVE,0,R V4 | | IB000117 |
| 36* | 217732.00 | 217765.01 | 30 | | SV,0,E LAB CW | | IB000117 |
| 37* | 217732.40 | C00007.20 | 8C 002000.52 | FC | SF(BU,2),S LABM(\$12),1 | -SET MCDE | IB000118 |
| 38* | 217733.40 | 000007.35 | 8C 001003.12 | FO | SF(BU,1),S LAB D(\$12),6 | -SET DENSITY | IB000119 |
| 39* | 217734.40 * | C00006.36 | 8C 014000.12 | FO | SF(BU,12),S SCR PM+.30(\$12) | -SET UP LABEL | IB000120 |
| 40* | 217735.40 | 202020.20 | 80 430000.20 | 50 | LI(BU,24),(8)202020.20 | | IB000121 |
| 41* | 217736.40 | C00006.52 | 8C 026001.12 | FC | SF(BU,22),S SCR PM.42(\$12),2 | | IB000122 |
| 42* | 217737.40 | C00000.30 | 00 | | CNOP | | IB000123 |
| 43* | 217740.00 | 217741.00 | 10 | | LX,C,\$+1.0 | | IB000124 |
| 44* | 217740.40 | 000004.01 | 1C | | SX,C,S IO INS(\$12) | | IB000124 |
| 45* | 217741.00 | 000000.00 | 8E 217765.03 | 00 | W,0.0(\$14),E LAB CW | -WRITE LABEL COMMAND | IB000125 |
| 46* | 217742.00 | 216242.03 | C1 | | LVI,1,K SUPP | | IB000126 |
| 47* | 217742.40 | C00000.74 | 8B 001000.00 | FO | CM0000(BU,1),S CTL(\$11) | | IB000127 |
| 48* | 217743.40 | C00000.37 | 8B 001000.36 | FO | CM1111,S SET UP(EU) | -TURN ON SET UP BIT | IB000128 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 217744 |
|------|-------------|----------------|------------------------|--|----------|--------|
| 1* | 217744.40 | 000005.00 8C | | SIC,S RET AD(\$12) | IB000130 | |
| 2* | 217745.00 | 221261.10 00 | | B,M IOREJ -RETURN CONTROL IF I/O ACCEPTED | IB000130 | |
| 3* | 217745.40 | 221371.00 80 | | SIC,E IND R | IB000131 | |
| 4* | 217746.00 | 221370.10 00 | | B,E IO IND -CHECK IO INDS | IB000131 | |
| 5* | 217746.40 | 000002.33 8D | 001027.20 50 K KF DEN | L(BU,1),S F DEN(\$13),46 -SET UNIT TO FILE DENSITY | IB000132 | |
| 6* | 217747.40 | 000011.00 30 | | LV,C,\$R | IB000133 | |
| 7* | 217750.00 * | 000005.00 8C | | SIC,S RET AD(\$12) | IB000134 | |
| 8* | 217750.40 | 217674.50 00 | | B,K DENST | IB000134 | |
| 9* | 217751.00 | 221371.00 80 | | SIC,K K IND | IB000135 | |
| 10* | 217751.40 | 221370.10 00 | | B,K IO IND | IB000135 | |
| 11* | | | | CNOP | IB000136 | |
| 12* | 217752.00 | 217753.00 10 | | LX,C,\$+1.C | IB000137 | |
| 13* | 217752.40 | 000004.01 1C | | SX,C,S IO INS(\$12) | IB000137 | |
| 14* | 217753.00 | 000000.00 8E | 000117.05 00 | CTL,0.0(\$14),(8)117. -WEF COMMAND | IB000138 | |
| 15* | 217754.00 | 216242.03 01 | | LVI,1,K SUPP | IB000139 | |
| 16* | 217754.40 | 000000.37 8P | 001000.36 F0 | CM1111(BU,1),S SET UP(\$11) | IB000140 | |
| 17* | 217755.40 | 000005.00 8C | | SIC,S RET AD(\$12) | IB000141 | |
| 18* | 217756.00 | 221261.10 00 | | B,M IOREJ | IB000141 | |
| 19* | 217756.40 | 221371.00 80 | | SIC,E IND R | IB000142 | |
| 20* | 217757.00 | 221370.10 00 | | B,E IO IND -GO TO IO IND ROUTINE | IB000142 | |
| 21* | 217757.40 | 000010.50 3C | K WLTMK | LV,4,S C REEL(\$12) -UPDATE REEL PCCL | IB000143 | |
| 22* | 217760.00 | 000006.00 3C | 036000.20 50 | L(BU,30),S SCR PM(\$12) | IB000144 | |
| 23* | 217761.00 | 000000.40 8B | 217763.34 02 | BB,SOWNER(\$11),\$+2.C | IB000145 | |
| 24* | 217762.00 | 000000.42 84 | 036000.20 00 | ST(BU,30),.34(\$4) | IB000146 | |
| 25* | 217763.00 | 000001.01 01 | | LVI,0,1. | IB000147 | |
| 26* | 217763.40 * | 000007.41 3C | | SV,0,S FILEK(\$12) -UPDATE FILE COUNT | IB000147 | |
| 27* | 217764.00 | 221144.50 00 | | B,Z STEVL -BRANCH TO EVAL. ROUTINE | IB000148 | |
| 28** | 217765.00 | 000006.00+ 000 | 000001 217765 E LAB CW | XW,S SCR PM(\$12),1,\$ -WRITE LABEL CTL WD | IB000149 | |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------|-------------------------------|----------|
| 1* | | | | - ***** | IC000001 |
| 2* | | | | ***** COPY CONTROL WORD ***** | IC000002 |
| 3* | | | | - ***** | IC000003 |
| 4* | 217766.CC * | | | SLC,\$ | IC000004 |
| 5* | 217766.CC | COCC20.C2 30 | B CCW R | LV,1,\$C | IC000005 |
| 6* | 217766.4C | 215001.C4 80 | | BB,S L,B 3MCP | IC000006 |
| 7* | 217767.40 | 000021.22 80 | | L(BU,6),\$X1+0.18 | IC000007 |
| 8* | 217770.40 | 220005.34 C0 | | BZRZ,B 3ER1 | IC000008 |
| 9* | 217771.CC | 215230.42 90 | | KV,\$X1,S TLR+C.32 | IC000009 |
| 10* | 217771.40 | 220005.32 42 | | BXL,B 3ER1 | IC000010 |
| 11* | 217772.CC | 215230.C2 90 | | KV,\$X1,S TLR | IC000011 |
| 12* | 217772.40 | 220005.33 42 | | BXH,B 3ER1 | IC000012 |
| 13* | 217773.CC | 000000.32 8A | B 3MCP | BZB,S CF OP(\$10),K DCNE | IC000013 |
| 14* | 217774.CC | 000000.51 C4 | | KVI,\$4,.32 | IC000014 |
| 15* | 217774.40 | 221065.32 C2 | | BXE,K C BUSY | IC000015 |
| 16* | 217775.CC | 000000.37 8B | | BB,S SET UP(\$11),B 3 FAT | IC000016 |
| 17* | 217776.CC | 000000.47 8B | | RB,SSEL(\$11),B 3FAT | IC000017 |
| 18* | 217777.CC | 000003.32 9C | | KV,13,S FI AAC(\$12) | IC000018 |
| 19* | 217777.40 | 220007.72 C0 | | BZXE,B 3FAT | IC000019 |
| 20* | 220000.00 | 000003.15 02 | B 3TRY | LCI,\$X6,3.0 | IC000020 |
| 21* | 220000.40 * | 000000.CC 8E | | CCW,C.C(\$14),C.C(\$1) | IC000021 |
| 22* | 220001.40 | 000003.30 8D | | LF(BU,1),3.24(\$13) | IC000022 |
| 23* | 220002.40 | 000000.30 81 | | SF(BU,1),C.24(\$1) | IC000023 |
| 24* | 220003.40 | 216242.C3 44 | | BZEKJZ,K SUPP | IC000024 |
| 25* | 220004.CC | 220000.54 48 | | CB,6,B3TRY+.32 | IC000025 |
| 26* | 220004.40 | 221300.10 00 | | B,KREJT | IC000025 |
| 27* | 220005.CC | 010010.35 01 | B 3ER1 | LVI,14,S CCW AD | IC000026 |
| 28* | 220005.40 | 217451.40 80 | | SIC,S DISIC | IC000027 |
| 29* | 220006.CC | 217372.1C C0 | | B,S DISP | IC000027 |
| 30* | 220006.40 | 000001.51 C4 | K DCNE | KVI,4,1.32 | IC000028 |
| 31* | 220007.CC | 220000.32 C2 | | BXE,B 3TRY | IC000029 |
| 32* | 220007.40 | 000004.CC 1D | B 3FAT | LX,C,S CCW(\$13) | IC000030 |
| 33* | 220010.CC | 000000.C1 11 | | SX,C,C.C(\$1) | IC000031 |
| 34* | 220010.40 | 216242.10 C0 | | B,K SUPP | IC000032 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|---|----------|
| 1* | | | | - ***** | ID000001 |
| 2* | | | | -***** -***** RELEASE *****- | ID000002 |
| 3* | | | | - ***** | ID000003 |
| 4* | 220011.00 * | | | SLC, 5 | ID000004 |
| 5* | 220011.00 | 00000.45 0D | W REL | V-I, 2, .32 | ID000005 |
| 6* | 220011.40 | 215265.05 30 | | SV, 2, S TIC | ID000006 |
| 7* | 220012.00 | 00000.32 8A | 220017.74 00 | BZB, S CH OP(\$10), W 23K | ID000007 |
| 8* | 220013.00 | 00000.33 8A | 220015.34 00 | BZB, S MULTI(\$10), W 22D | ID000008 |
| 9* | 220014.00 | 00000.47 8B | 220017.74 02 | BB, S SEL(\$11), W 23K | ID000009 |
| 10* | 220015.00 | 00003.32 9C | W 22D | KV, \$X13, S FI A AC(\$X12) - COMPARE FILE AREA ADDRESS | ID000010 |
| 11* | 220015.40 | 220017.72 00 | | BZXE, W 23K | ID000011 |
| 12* | 220016.00 | 00000.75 8B | 001000.36 F0 | CM1111(BU, 1), S REL(\$11) | ID000012 |
| 13* | 220017.00 | 216242.10 00 | | B, K SUPP | ID000013 |
| 14* | 220017.40 | 00040.17 02 | W 23K | LCI, 7, (8)40 | ID000014 |
| 15* | 220020.00 | 00004.23 8D | 006000.00 F0 | CM0000(BU, 6), SCCW+.19(\$13) | ID000015 |
| 16* | 220021.00 | 220064.50 00 | | B, K ILEGL.32 | ID000016 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|-----------------------------------|----------|
| 1* | | | | - ***** | IE000001 |
| 2* | | | | -***** LOCATE *****- | IE000002 |
| 3* | | | | - ***** | IE000003 |
| 4* | 220021.40 * | | | SLC,\$ | IE000004 |
| 5* | 220021.40 | CCCC00.51 04 | K S LCC | KVI,4,.32 | IE000005 |
| 6* | 220022.00 | 220064.32 C0 | | BXE,K ILEGL | IE000006 |
| 7* | 220022.40 | 215246.00 80 | 000021.36 E0 | SWAPI,15,S TLR+14.,\$1 | IE000007 |
| 8* | 220023.40 | 220706.01 80 | | LVE,0,K IOD RN-.32 | IE000008 |
| 9* | 220024.00 | 000020.22 80 | 007000.00 F0 | CMOC00(BU,7),\$0.18 | IE000009 |
| 10* | 220025.00 | 215246.00 80 | 000021.36 E0 | SWAPI,15,S TLR+14.,\$1 | IE000010 |
| 11* | 220026.00 | 000005.00 8D | | V+,C,S OR ARC(\$13) | IE000011 |
| 12* | 220026.40 | 000005.40 9D | | KV,C,S MX ARC(\$13) | IE000012 |
| 13* | 220027.00 | 220064.33 42 | | BXH,K ILEGL | IE000013 |
| 14* | 220027.40 | 000005.00 9D | | KV,C,SCRARC(\$13) | IE000014 |
| 15* | 220030.00 | 220064.32 42 | | BXL,KILEGL | IE000015 |
| 16* | 220030.40 | 000000.40 8A | 022067.20 50 | L(BU,18),S ARC AD(\$1C),-18 | IE000016 |
| 17* | 220031.40 | 000010.00 90 | | KV,C,\$L | IE000017 |
| 18* | 220032.00 | 220057.32 C2 | | BXE,K FINI | IE000018 |
| 19* | 220032.40 | 220054.47 01 | | LVI,3,K MOON | IE000019 |
| 20* | 220033.00 | 000005.07 3C | | SV,3,S RETAD(\$12) | IE000020 |
| 21* | 220033.40 | 220105.40 80 | | SIC,K G LOCR | IE000021 |
| 22* | 220034.00 | 220100.50 00 | | B,K G LCC | IE000021 |
| 23* | 220034.40 * | 000000.51 04 | | KVI,4,.32 | IE000022 |
| 24* | 220035.00 | 220047.72 C2 | | BXE,K DISK | IE000023 |
| 25* | 220035.40 | 000001.11 04 | | KVI,4,1.0 | IE000024 |
| 26* | 220036.00 | 220046.32 C2 | | BXE,K LOCTD-1.0 | IE000025 |
| 27* | 220036.40 | 000000.40 3C | | LV,0,S UNIT N(\$12) | IE000026 |
| 28* | 220037.00 | 220042.41 00 | | SVA,0,K SLECT+.32 | IE000027 |
| 29* | 220037.40 | 220042.64 80 | 001000.36 F0 | CM1111(BU,1),K SLECT+.52 | IE000028 |
| 30* | 220040.40 | 000000.30 00 | | CNCP | IE000029 |
| 31* | 220041.00 | 220042.00 10 | | LX,0,\$+1.0 | IE000030 |
| 32* | 220041.40 | 000004.01 1C | | SX,0,S IC INS(\$12) | IE000030 |
| 33* | 220042.00 | 000000.00 8E | 000000.07 00 | K SLECT LOC,0.0(\$14),0 | IE000031 |
| 34* | 220043.00 | 220044.03 01 | | LVI,1,\$+1.0 | IE000032 |
| 35* | 220043.40 | 221261.10 00 | | B,M IC REJ | IE000032 |
| 36* | 220044.00 | 000004.64 8C | 216242.34 00 | BZB,4.52 (\$12),K SUPP | IE000033 |
| 37* | 220045.00 | 221354.40 80 | | SIC,K ECP R | IE000034 |
| 38* | 220045.40 | 221350.50 00 | | B,K SECP T | IE000034 |
| 39* | 220046.00 | 000000.47 8B | 001000.00 F0 | ZLCCXX CMOC00(BU,1),SSEL(\$11) | IE000035 |
| 40* | 220047.00 | 221144.50 00 | | K LOCTD B,Z STEVL | IE000036 |
| 41* | 220047.40 * | 000000.32 8A | 001000.36 F0 | K DISK CM1111(BU,1),S CH OP(\$1C) | IE000037 |
| 42* | 220050.40 | 220042.41 00 | | SVA,0,K SLECT+.32 | IE000038 |
| 43* | 220051.00 | 000000.37 8B | 001000.36 F0 | CM1111(BU,1),S SET UP(\$11) | IE000039 |
| 44* | 220052.00 | 220042.64 80 | 001000.00 F0 | CMOC00(BU,1),K SLECT+.52 | IE000040 |
| 45* | 220053.00 | 000000.47 8B | 001000.00 F0 | CMOC00,SSEL(\$11) | IE000041 |
| 46* | 220054.00 | 220041.10 00 | | B,K SLECT-1.0 | IE000042 |
| 47* | 220054.40 | 000004.40 3C | | KMCCN LV,\$0,SICINS.32(\$12) | IE000043 |
| 48* | 220055.00 | 000001.12 8D | 220047.74 02 | BB,SICIND.1(\$13),KDISK | IE000044 |
| 49* | 220056.00 | 220100.00 80 | | SIC,K PCSLD | IE000045 |
| 50* | 220056.40 | 220074.10 00 | | B,K POST L | IE000045 |

| LINE | LOCATICN | BINARY | CUTPUT | NAME | STATEMENT | LOCATICN | 220057 |
|------|-----------|-------------|--------------|----------|-----------------------------|--------------------------------|----------|
| 1* | 220057.00 | 000020.17 | 02 | K FINI | LCI,7,16 | | IE000047 |
| 2* | 220057.40 | 000000.40 | 8A 022000.20 | | L(BU,18),SARCAD(\$10) | | IE000048 |
| 3* | 220060.40 | 000006.00 | 8D 022000.20 | | ST(BU,18),SCUARC(\$13) | | IE000049 |
| 4* | 220061.40 | 000000.47 | 8B 220064.74 | | BZBZ,S SEL(\$11),K ILEGL.32 | | IE000050 |
| 5* | 220062.40 | 220105.40 | 80 | | SIC,K G LCCR | | IE000051 |
| 6* | 220063.00 | 220100.50 | 00 | | B,K G LCC | | IE000051 |
| 7* | 220063.40 | * 220064.50 | 00 | | B,K ILEGL.32 | | IE000052 |
| 8* | 220064.00 | 000400.17 | 02 | K ILEGL | LCI,7,(8)400 | | IE000053 |
| 9* | 220064.40 | 215776.03 | 01 | | LVI,1,K NORM | | IE000054 |
| 10* | 220065.00 | 215746.50 | 00 | | B,K GATE | | IE000055 |
| 11* | 220065.40 | 221144.63 | 01 | K K LOC | LVI,9,Z STEVL | | IE000056 |
| 12* | 220066.00 | 220047.23 | 00 | | SVA,9,K LOCTD | | IE000056 |
| 13* | 220066.40 | 000005.00 | 8C | | SIC,S RET AD(\$12) | | IE000057 |
| 14* | 220067.00 | 220033.50 | 00 | | B,K LOCAT -SELECT THE UNIT | | IE000057 |
| 15* | 220067.40 | 000000.51 | 04 | | KVI,4,.32 | | IE000058 |
| 16* | 220070.00 | 220071.72 | 00 | | BZXE,\$+1.32 | | IE000058 |
| 17* | 220070.40 | 215001.21 | 80 001000.00 | | CM0000,SLOCSU | | IE000059 |
| 18* | 220071.40 | 221371.00 | 80 | | SIC,E IND R | | IE000060 |
| 19* | 220072.00 | 221370.10 | 00 | | B,E IC IND | | IE000060 |
| 20* | 220072.40 | 220100.00 | 80 | | SIC,K POSLD | | IE000061 |
| 21* | 220073.00 | 220074.10 | 00 | | B,K POST L | | IE000061 |
| 22* | 220073.40 | 221144.50 | 00 | | B,Z STEVL | | IE000062 |
| 23* | 220074.00 | 000004.40 | 8C 022000.20 | K PCST L | L(BU,18),S ID INS+.32(\$12) | | IE000063 |
| 24* | 220075.00 | 000000.40 | 8A 022000.20 | | ST(BU,18),S ARC AD(\$10) | | IE000064 |
| 25* | 220076.00 | 000006.00 | 8D 022000.20 | | ST(BU,18),S CU ARC(\$13) | | IE000065 |
| 26* | 220077.00 | * 000000.47 | 8B 001000.00 | | CM0000(BU,1),S SEL(\$11) | | IE000066 |
| 27* | 220100.00 | 220100.10 | 00 | K POSLD | B,\$ | -RETURN CONTROL | IE000067 |
| 28* | 220100.40 | 000000.22 | 3A | K G LOC | LV,9,S UN A(\$10) | -TURN ON SEL BIT FOR LAST UNIT | IE000068 |
| 29* | 220101.00 | 000000.70 | 8A 003067.20 | | L(BU,3),S UNIT(\$10),-18 | | IE000069 |
| 30* | 220102.00 | 000010.22 | 80 | | V+,9,\$L | | IE000070 |
| 31* | 220102.40 | 000000.47 | 89 001000.36 | | CM1111(BU,1),S SEL(\$9) | | IE000071 |
| 32* | 220103.40 | 000000.57 | 8C 003000.20 | | L(BU,3),S UNIT N(\$12) | -SELECT CURRENT UNIT | IE000072 |
| 33* | 220104.40 | 000000.70 | 8A 003000.12 | | CM0101(BU,3),S UNIT(\$10) | | IE000073 |
| 34* | 220105.40 | 220105.50 | 00 | K G LCCR | B,\$ | -RETURN | IE000074 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|-------|--|----------|
| 1* | | | - | ***** | IF000001 |
| 2* | | | | ***** FEED CARD ***** | IF000002 |
| 3* | | | - | ***** | IF000003 |
| 4* | 22C106.00 * | | | SLC,\$ | IF000004 |
| 5* | 22C106.00 | 000000.45 0D | W FC | V-I,2,.32 | IF000005 |
| 6* | 22C106.40 | 215265.05 30 | | SV,2,S TIC | IF000006 |
| 7* | 22C107.00 | 000002.11 04 | | KVI,4,2.0 - IS IT A PUNCH | IF000007 |
| 8* | 22C107.40 | 220064.32 C0 | | BZXE,K ILEGL -IF NOT, ERROR | IF000008 |
| 9* | 22C110.00 | 000000.32 8A 001000.36 F0 | | CM1111(BU,1),S CH CP(\$10) | IF000009 |
| 10* | | | | CNOP | IF000010 |
| 11* | 22C111.00 | 22C112.00 10 | | LX,C,\$+1.0 | IF000011 |
| 12* | 22C111.40 | 000004.01 1C | | SX,C,S IO INS(\$12) | IF000011 |
| 13* | 22C112.00 | 000000.00 8E 000056.05 00 | | CTL,0.0(\$14),(8)56. -CARD RUN OUT COMMAND | IF000012 |
| 14* | 22C113.00 | 000000.74 8B 001000.36 F0 | | CM1111(BU,1),S CTL(\$11) | IF000013 |
| 15* | 22C114.00 | 216242.03 01 | | LVI,1,K SUPP | IF000014 |
| 16* | 22C114.40 | 221261.10 00 | | B,M IC RLJ -CHECK IF COMMAND ACCEPTED | IF000014 |
| 17* | | | - | | IF000015 |
| 18* | | | - | | IF000016 |
| 19* | | | - | ***** | IG000001 |
| 20* | | | - | ***** ERASE LONG GAP ***** | IG000002 |
| 21* | | | - | ***** | IG000003 |
| 22* | 22C115.00 * | | | SLC,\$ | IG000004 |
| 23* | 22C115.00 | 000000.45 0D | E ELG | V-I,2,.32 | IG000005 |
| 24* | 22C115.40 | 215265.05 30 | | SV,2,S TIC -SET RETURN ADDRESS | IG000005 |
| 25* | 22C116.00 | 000004.11 04 | | KVI,4,4.0 | IG000006 |
| 26* | 22C116.40 | 220064.32 C0 | | BZXE,K ILEGL | IG000007 |
| 27* | 22C117.00 | 000000.62 8B 001000.36 F0 | | CM1111(BU,1),S ELG(\$11) | IG000008 |
| 28* | 22C120.00 | 220017.50 C0 | | B,W 23K -FAKE ECP | IG000009 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------|--|----------|
| 1* | | | | - ***** | IH000001 |
| 2* | | | | -***** S P A C E *****- | IH000002 |
| 3* | | | | - ***** | IH000003 |
| 4* | 220120.40 * | | | SLC,\$ | IH000004 |
| 5* | 220120.40 | 000076.01 01 | R 1 | LVI,\$0,62.0 | IH000005 |
| 6* | 220121.00 | 220124.10 00 | | B,R 2 - PP HAS REQUESTED SPACE BLOCK | IH000005 |
| 7* | 220121.40 | 000176.01 01 | | LVI,\$0,126.0 | IH000006 |
| 8* | 220122.00 | 220124.10 00 | | B,R 2 - PP HAS REQUESTED BACKSPACE BLOCK | IH000006 |
| 9* | 220122.40 | 000077.01 01 | | LVI,\$0,63.0 | IH000007 |
| 10* | 220123.00 | 220124.10 00 | | B,R 2 - PP HAS REQUESTED SPACE FILE | IH000007 |
| 11* | 220123.40 | 000177.01 01 | | LVI,\$0,127.0 | IH000008 |
| 12* | 220124.00 | 000000.45 00 | R 2 | V-I,2,.32 -SET RETURN ADDRESS | IH000009 |
| 13* | 220124.40 | 000000.32 8A | | 001000.36 FC CM1111(BU,1),S CH OP(\$10) | IH000010 |
| 14* | 220125.40 | 215265.05 30 | | SV,2,S TIC | IH000011 |
| 15* | 220126.00 | 000004.11 04 | | KVI,4,4.0 -TEST IF EQUIP IS TAPE | IH000012 |
| 16* | 220126.40 | 220064.32 00 | | BZXE,K ILEGL -IF NOT, FAKE EPGK | IH000013 |
| 17* | 220127.00 | 221153.07 01 | | LVI,3,R MASK | IH000014 |
| 18* | 220127.40 | 000005.41 30 | | SV,C,S CTL OP(\$12) | IH000015 |
| 19* | 220130.00 | 000002.47 30 | | SV,\$3,S EVL MK(\$12) | IH000016 |
| 20* | 220130.40 | 000002.00 8C | | SIC,S EVL TB(\$12) | IH000017 |
| 21* | 220131.00 | 221144.50 00 | | B,Z STEVL | IH000017 |
| 22* | 220131.40 | 220065.50 00 | | B,KKLC | IH000018 |
| 23* | 220132.00 | 221161.10 00 | | B,R VFY | IH000019 |
| 24* | 220132.40 | 000007.52 30 | | LV,5,S FILEK(\$12) | IH000020 |
| 25* | 220133.00 | 220135.71 02 | | BXVGZ,R 9 SKP -TEST FOR FILE K ZERO | IH000021 |
| 26* | 220133.40 * | 000005.53 8C | | 220064.34 02 BB,S CTL OP+.1(\$12),K ILEGL -BSP OR REW AT LABEL ** EPGK | IH000022 |
| 27* | 220134.40 | 000006.00 8C | | SIC,S SCR PM(\$12) | IH000023 |
| 28* | 220135.00 | 220143.10 00 | | B,RS1 FLK | IH000023 |
| 29* | 220135.40 | 000005.42 30 | R 9 SKP | LV,\$1,S CTL OP(\$12) | IH000024 |
| 30* | 220136.00 | 220140.43 00 | | SVA,1,RIC.32 -CTL OP CODE TO RT EFFECT ADDR | IH000025 |
| 31* | 220136.40 | 000000.30 00 | | CNOP | IH000026 |
| 32* | 220137.00 | 220140.00 10 | | LX,C,\$+1.0 | IH000027 |
| 33* | 220137.40 | 000004.01 10 | | SX,C,S IO INS(\$12) | IH000027 |
| 34* | 220140.00 | 000000.00 8E | R10 | 000000.05 00 CTL,C.C(\$14),C.0 | IH000028 |
| 35* | 220141.00 | 000000.74 8B | | 001000.36 FC CM1111(BU,1),S CTL(\$11) | IH000029 |
| 36* | 220142.00 | 216242.03 01 | | LVI,1,K SUPP | IH000030 |
| 37* | 220142.40 | 221261.10 00 | | B,M IOREJ | IH000030 |
| 38* | | | | - | IH000031 |
| 39* | | | | - ***** SPACE LABEL ***** | IH000032 |
| 40* | | | | - CALLING SEQUENCE ** LV,5,S FILE K(\$12) (FILE K +0 OR -0) | IH000033 |
| 41* | | | | - SIC,S SCRPM(\$12)#B,RS1 FLK | IH000034 |
| 42* | | | | - | IH000035 |
| 43* | 220143.00 | 000007.31 8C | RS1 FLK | 220174.74 00 BZB,S SYSTM(\$12),K N SYST | IH000036 |
| 44* | 220144.00 | 000000.74 8B | | 001000.36 FC CM1111(BU,1),S CTL(\$11) | IH000037 |
| 45* | 220145.00 | 000025.30 80 | | 220156.74 00 BZB,\$5.24,K SP TM -BRANCH IF FILE COUNT IS +0 | IH000038 |
| 46* | 220146.00 | 000000.01 01 | | LVI,0,S INST 0 -IF FILE COUNT -0 | IH000039 |
| 47* | 220146.40 | 000005.00 8C | | SIC,S RET AD(\$12) | IH000040 |
| 48* | 220147.00 * | 217674.50 00 | | B,K DENST -SET UNIT TO INSTALATION DEN | IH000040 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 220147 |
|------|-------------|-----------|--------|--------------|-----------------------------|--------------------------|----------|
| 1* | 220147.40 | 221371.00 | 80 | | SIC,K K IND | | IH000042 |
| 2* | 220150.00 | 221370.10 | 00 | | B,K IC IND | | IH000042 |
| 3* | 220150.40 | 000000.30 | 00 | | CNOP | | IH000043 |
| 4* | 220151.00 | 220152.00 | 10 | | LX,C,\$+1.0 | | IH000044 |
| 5* | 220151.40 | 000004.01 | 10 | | SX,C,S IC INS(\$12) | | IH000044 |
| 6* | 220152.00 | 000000.00 | 8E | 000076.C5 00 | CTL,0.C(\$14),62. | -SPACE BLOCK COMMAND | IH000045 |
| 7* | 220153.00 | 216242.03 | 01 | | LVI,1,K SUPP | | IH000046 |
| 8* | 220153.40 | 000000.37 | 8B | 001000.36 FC | CM1111(BU,1),S SET UP(\$11) | | IH000047 |
| 9* | 220154.40 | 000005.00 | 8C | | SIC,S RET AD(\$12) | | IH000048 |
| 10* | 220155.00 | 221261.10 | 00 | | B,M IC REJ | | IH000048 |
| 11* | 220155.40 | 221371.00 | 80 | | SIC,E IND R | | IH000049 |
| 12* | 220156.00 | 221370.10 | 00 | | B,E IC IND | | IH000049 |
| 13* | 220156.40 | 000002.33 | 8D | 002127.00 50 | L(B,2,1),S FDEN(\$13),46 | -SPACE OVER TAPE MARK | IH000050 |
| 14* | 220157.40 | 220161.35 | C2 | | BRN,\$+1.32 | | IH000051 |
| 15* | 220160.00 | 000007.35 | 8C | 001027.20 50 | L(BU,1),S LABD(\$12),46 | | IH000052 |
| 16* | 220161.00 | 000011.00 | 30 | | LV,C,\$R | | IH000053 |
| 17* | 220161.40 | 000005.00 | 8C | | SIC,S RET AD(\$12) | | IH000054 |
| 18* | 220162.00 | 217674.50 | 00 | | B,K DENST | | IH000054 |
| 19* | 220162.40 * | 221371.00 | 80 | | SIC,K K IND | | IH000055 |
| 20* | 220163.00 | 221370.10 | 00 | | B,K IC IND | | IH000055 |
| 21* | 220163.40 | 000000.30 | 00 | | CNOP | | IH000056 |
| 22* | 220164.00 | 220165.00 | 10 | | LX,0,\$+1.0 | | IH000057 |
| 23* | 220164.40 | 000004.01 | 10 | | SX,C,S IC INS(\$12) | | IH000057 |
| 24* | 220165.00 | 000000.00 | 8E | 000077.C5 00 | CTL,0.C(\$14),(8)77. | -SPACE FILE COMMAND | IH000058 |
| 25* | 220166.00 | 216242.03 | 01 | | LVI,1,K SUPP | | IH000059 |
| 26* | 220166.40 | 000000.37 | 8B | 001000.36 FC | CM1111(BU,1),S SET UP(\$11) | | IH000060 |
| 27* | 220167.40 | 000005.00 | 8C | | SIC,S RET AD(\$12) | | IH000061 |
| 28* | 220170.00 | 221261.10 | 00 | | B,M IC REJ | | IH000061 |
| 29* | 220170.40 | 221371.00 | 80 | | SIC,K K IND | | IH000062 |
| 30* | 220171.00 | 221370.10 | 00 | | B,K IC IND | | IH000062 |
| 31* | 220171.40 | 000001.01 | C1 | K FIL K1 | LVI,0,1. | | IH000063 |
| 32* | 220172.00 | 000007.41 | 3C | | SV,0,S FILEK(\$12) | -SET FILE COUNT TO +1 | IH000063 |
| 33* | 220172.40 | 000006.02 | 3C | | LV,1,S SCRPM(\$12) | -PICK UP RETURN ADDRESS | IH000064 |
| 34* | 220173.00 | 000000.74 | 8B | 001000.00 FC | CM0000(BU,1),S CTL(\$11) | | IH000065 |
| 35* | 220174.00 | 000000.10 | C1 | | B,0.0(\$1) | | IH000066 |
| 36* | 220174.40 | 000001.01 | 01 | K N SYST | LVI,0,1.0 | | IH000067 |
| 37* | 220175.00 | 000007.41 | 3C | | SV,0,S FILE K(\$12) | -SET FILE COUNT TO +1 | IH000067 |
| 38* | 220175.40 * | 000002.33 | 8D | 002127.00 50 | L(B,2,1),S FDEN(\$13),46 | -SET UNIT TO ICD DENSITY | IH000068 |
| 39* | 220176.40 | 220200.35 | C2 | | BRN,\$+1.32 | | IH000069 |
| 40* | 220177.00 | 000000.00 | 80 | 401027.20 50 | LI(BU,1),S TD DEN,46 | | IH000070 |
| 41* | 220200.00 | 000011.00 | 30 | | LV,C,\$R | | IH000071 |
| 42* | 220200.40 | 000005.00 | 8C | | SIC,S RET AD(\$12) | | IH000072 |
| 43* | 220201.00 | 217674.50 | 00 | | B,K DENST | | IH000072 |
| 44* | 220201.40 | 221371.00 | 80 | | SIC,K K IND | | IH000073 |
| 45* | 220202.00 | 221370.10 | 00 | | B,K IC IND | | IH000073 |
| 46* | 220202.40 | 221144.50 | 00 | | B,Z STEVL | | IH000074 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|-------|--|----------|
| 1* | | | | - ***** | IJ000001 |
| 2* | | | | -***** WRITE END OF FILE *****- | IJ000002 |
| 3* | | | | - ***** | IJ000003 |
| 4* | 220203.CC * | | | SLC,\$ | IJ000004 |
| 5* | 220203.CC | C00000.45 CD | E WT1 | V-1,2,.32 -SET RETURN ADDRESS | IJ000005 |
| 6* | 220203.4C | 215265.05 30 | | SV,2,S TIC | IJ000006 |
| 7* | 220204.00 | C00004.11 04 | | KVI,4,4.0 | IJ000007 |
| 8* | 220204.40 | 220064.32 C0 | | BZXE,K ILEGL -IF EQUIP IS NOT TAPE, FAKE EPGK | IJ000008 |
| 9* | 220205.00 | C00010.62 3C | | LV,9,S C REEL(\$12) | IJ000009 |
| 10* | 220205.4C | 000000.32 89 220064.34 02 | | BB,S FP(\$9),K ILEGL -IF FILE PROTECTED, FAKE EPGK | IJ000010 |
| 11* | 220206.40 | 221152.61 C1 | | LVI,EX,E MK 1A | IJ000011 |
| 12* | 220207.00 | C00000.32 8A 001000.36 FC | | CM1111(BU,1),S CH OP(\$10) | IJ000012 |
| 13* | 220210.00 | C00002.61 3C | | SV,EX,S EVL MK(EA) -MASK IN EVAL MASK AD | IJ000013 |
| 14* | 220210.40 | C00002.00 8C | | SIC,S EVL TB(\$12) | IJ000014 |
| 15* | 220211.00 | 221144.50 00 | | B,Z STEVL | IJ000014 |
| 16* | 220211.40 | 220065.50 C0 | | B,K K LCC -SEL BIT ON | IJ000015 |
| 17* | 220212.00 | 221161.10 C0 | | B,R VFY -VER BIT ON | IJ000016 |
| 18* | 220212.40 | C00007.52 3C | | LV,5,S FILEK(\$12) -TEST IF IN LABEL FILE | IJ000017 |
| 19* | 220213.00 | 220214.71 40 | | BZXVZ,\$+1.32 | IJ000018 |
| 20* | 220213.40 | C00006.00 8C | | SIC,S SCR PM(\$12) | IJ000019 |
| 21* | 220214.00 | 220143.10 C0 | | B,RS1 FLK -IF SC, SPACE OVER LABEL | IJ000019 |
| 22* | 220214.40 | 000000.62 8B 220222.34 04 | | BZBZ,S ELG(\$11),E WT31-1.C | IJ000020 |
| 23* | 220215.40 | C00000.30 C0 | | CNOP | IJ000021 |
| 24* | 220216.00 * | 220217.00 10 | | LX,C,\$+1.0 | IJ000022 |
| 25* | 220216.40 | C00004.01 1C | | SX,C,S IO INS(\$12) | IJ000022 |
| 26* | 220217.00 | C00000.00 8E 000056.15 00 | | CTL(SECP),0.0(\$14),46 -ERASE LONG GAP COMMAND | IJ000023 |
| 27* | 220220.00 | 220221.03 01 | | LVI,1,\$+1.0 | IJ000024 |
| 28* | 220220.40 | 221261.10 C0 | | B,M IC REJ | IJ000024 |
| 29* | 220221.00 | 221354.40 80 | | SIC,K ECP R | IJ000025 |
| 30* | 220221.40 | 221350.50 C0 | | B,K SECP T | IJ000025 |
| 31* | 220222.00 | 220223.00 10 | | LX,C,\$+1.0 | IJ000026 |
| 32* | 220222.40 | C00004.01 1C | | SX,C,S IO INS(\$12) | IJ000026 |
| 33* | 220223.00 | 000000.00 8E 000117.05 00 | EWT31 | CTL,0.0(\$14),79.0 | IJ000027 |
| 34* | 220224.00 | C00000.74 8B 001000.36 FC | | CM1111,S CTL(EU) -TURN ON CONTRCL BIT | IJ000028 |
| 35* | 220225.00 | 216242.03 C1 | | LVI,1,K SUPP | IJ000029 |
| 36* | 220225.40 | 221261.10 C0 | | B,M ICREJ | IJ000029 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|----------|---|----------|
| 1* | | | - | ***** | IK000001 |
| 2* | | | | ***** REWIND ***** | IK000002 |
| 3* | | | - | ***** | IK000003 |
| 4* | 220226.00 * | | | SLC, \$ | IK000004 |
| 5* | 220226.00 | 220243.40 80 | Z REW ST | SIC, Z TB RW+.32 | IK000005 |
| 6* | 220226.40 | 220234.50 00 | | B, Z COM RT | IK000005 |
| 7* | 220227.00 | 000000.64 88 001000.36 F0 | | CM1111(BU,1), S REW(\$11) | IK000006 |
| 8* | | | | CNOP | IK000007 |
| 9* | 220230.00 | 220231.00 10 | | LX, C, \$+1.0 | IK000008 |
| 10* | 220230.40 | 000004.01 10 | | SX, 0, S IC INS(\$12) | IK000008 |
| 11* | 220231.00 | 000000.00 8E 000136.15 00 | Z CTL RW | REW(SECP), 0.0(\$14) -ISSUE REWIND | IK000009 |
| 12* | 220232.00 | 220233.03 01 | | LVI, 1, \$+1.0 | IK000010 |
| 13* | 220232.40 | 221261.10 00 | | B, M IO REJ | IK000010 |
| 14* | 220233.00 | 221354.40 80 | | SIC, K ECP R | IK000011 |
| 15* | 220233.40 | 221350.50 00 | | B, K SECP T | IK000011 |
| 16* | 220234.00 | 216242.10 00 | | B, K SUPP | IK000012 |
| 17* | 220234.40 | 000000.45 0D | Z COM RT | V-1, 2, .32 | IK000013 |
| 18* | 220235.00 | 215265.05 30 | | SV, 2, S TIC | IK000014 |
| 19* | 220235.40 | 000004.11 04 | | KVI, 4, 4.0 | IK000015 |
| 20* | 220236.00 | 220064.32 00 | | BZXE, K ILEGL -TEST IF EQUIP IS TAPE | IK000016 |
| 21* | 220236.40 | 221153.57 01 | | LVI, 7, Z EVL RW -IF NOT, FAKE EPGK | IK000017 |
| 22* | 220237.00 | 000002.57 30 | | SV, 7, S EVL MK(\$12) -SET EVAL MASK ADDR | IK000018 |
| 23* | 220237.40 | 000004.22 8D 001000.00 F0 | | CM0000(BU,1), S CCh.18(\$13) -TURN OFF UNR STATUS BIT IN CW | IK000019 |
| 24* | 220240.40 | 220243.17 01 | | LVI, 7, Z TB RW -SET EVAL TABLE ADDR | IK000020 |
| 25* | 220241.00 * | 000002.17 30 | | SV, 7, S EVL TB(\$12) | IK000021 |
| 26* | 220241.40 | 000000.74 8B 001000.36 F0 | | CM1111, S CTL(\$11) -TURN CTL BIT ON IN UST | IK000022 |
| 27* | 220242.40 | 221144.50 00 | | B, Z STEVL | IK000023 |
| 28* | 220243.00 | 220065.50 00 | Z TB RW | B, K K LCC | IK000024 |
| 29* | 220243.40 | 220243.50 00 | | B, \$ -BRANCH BACK TO MOTHER ROUTINE | IK000025 |
| 30* | | | - | | IK000026 |
| 31* | | | - | | IK000027 |
| 32* | | | - | ***** | IL000001 |
| 33* | | | | ***** UNLOAD ***** | IL000002 |
| 34* | | | - | ***** | IL000003 |
| 35* | 220244.00 * | | | SLC, \$ | IL000004 |
| 36* | 220244.00 | 220243.40 80 | Z UNLDB | SIC, Z TB RW+.32 | IL000005 |
| 37* | 220244.40 | 220234.50 00 | | B, Z COM RT | IL000005 |
| 38* | 220245.00 | 221733.10 00 | | B, K UNLDB | IL000006 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------------|------|---|----------|
| 1* | | | | - | ***** | IM000001 |
| 2* | | | | | ***** FREE ***** | IM000002 |
| 3* | | | | - | ***** | IM000003 |
| 4* | 220245.40 | 000000.32 | 8A 220320.74 | 02 | Z FREE BB,S CH OP(\$10),K K MARK | IM000004 |
| 5* | 220246.40 | 220243.40 | 80 | | Z Z FREE SIC,Z TR RW.32 | IM000005 |
| 6* | 220247.00 | 220234.50 | 00 | | B,Z CCM RT | IM000005 |
| 7* | 220247.40 | 000000.35 | 8B 001000.36 | F0 | CM1111(BU,1),S UN ASG(\$11) | IM000006 |
| 8* | 220250.40 | 215001.06 | 80 220300.34 | 02 | BB,S P INCL,Z F2 | IM000007 |
| 9* | 220251.40 | 000002.36 | 8D 220301.74 | 02 | BB,2.30(\$13),Z F SAVE -BRANCH IF SAVE | IM000008 |
| 10* | 220252.40 | 000010.60 | 3C | | LV,8,S C REEL(\$12) -GET CURRENT REEL ADDR | IM000009 |
| 11* | 220253.00 | 000000.32 | 8B 002000.00 | F0 | ZFFLIP CM0000(BU,2),STAT1(\$11) | IM000010 |
| 12* | 220254.00 | 000000.33 | 88 220256.34 | 00 | BZB,TRELB(\$8),ZFRENS -BR IF NON- SYSTEM TAPE TO UNLOAD | IM000011 |
| 13* | 220255.00 | 000000.32 | 88 220227.34 | 00 | BZB,.26(\$8),ZREWST+1.0 | IM000012 |
| 14* | 220256.00 | 220313.00 | 80 220311.04 | AC | Z FRE NS TI,2,K N SAVE,Z FRO3 | IM000013 |
| 15* | 220257.00 * | 220306.05 | 01 | | K DFREE LVI,2,Z FRO4 | IM000014 |
| 16* | 220257.40 | 220303.13 | 01 | | LVI,5,K FRE M | IM000015 |
| 17* | 220260.00 | 000000.40 | 8B 220262.34 | 00 | BZB,OWNER(\$11),ZFRC5B -IF PP OWNER | IM000016 |
| 18* | 220261.00 | 022133.31 | 80 220267.34 | 04 | BZBZ,TFREJ,ZFRO5 -IF ENRY WAS NOT FROM THE MOVE ROUTINE | IM000017 |
| 19* | 220262.00 | 220310.17 | 01 | | Z FRO5B LVI,7,ZFRO2 | IM000018 |
| 20* | 220262.40 | 000000.40 | 8B 220272.34 | 02 | BB,SOWNER(\$11),ZFRO5 -BR. IF ASSIGN DISMNT REQUEST | IM000019 |
| 21* | 220263.40 | 220310.17 | 01 | | LVI,7,Z FRO2 | IM000020 |
| 22* | 220264.00 | 221045.00 | 80 | | SIC,Z ID09X | IM000021 |
| 23* | 220264.40 | 221042.10 | 00 | | B,Z ID09 -CONVERT JCB NAME | IM000021 |
| 24* | 220265.00 | 000010.17 | 01 | | ZFRO6 LVI,7,8. | IM000022 |
| 25* | 220265.40 | 000000.33 | 8B 001000.36 | F0 | CM1111(BU,1),SDISPO(\$11) | IM000023 |
| 26* | 220266.40 | 221752.50 | 00 | | B,K UNLC1+1.32 | IM000024 |
| 27* | 220267.00 | 000000.77 | 8B 220271.34 | 00 | ZFRO5 BZB,SOVRES(\$11),ZFRO5A -IF NOT OVERLAP RESERED | IM000025 |
| 28* | 220270.00 | 000000.76 | 8B 220274.74 | 02 | BB,SUNRES(\$11),ZFRO7 -IF IT IS NOT OVERLAP RESERVED | IM000026 |
| 29* | 220271.00 | 222013.20 | 80 000000.20 | 50 | ZFRO5A L(BU,64),KSCRAC.16 -REMOVE THE SCRATCH TAPE | IM000027 |
| 30* | 220272.00 * | 000000.77 | 8B 220274.74 | 02 | ZFRO5 BB,SOVRES(\$11),ZFRO7 | IM000028 |
| 31* | 220273.00 | 220310.00 | 80 000000.20 | 00 | ST(BU,64),ZFRO2 | IM000029 |
| 32* | 220274.00 | 220265.10 | 00 | | B,ZFRO6 | IM000030 |
| 33* | 220274.40 | 220317.00 | 80 220310.02 | AC | ZFRO7 TI,1,ZFR17,ZFRO2 | IM000031 |
| 34* | 220275.40 | 220320.00 | 80 010000.20 | 50 | L(BU,8),ZFR17+1.0 -GET PREASSIGN NAME | IM000032 |
| 35* | 220276.40 | 220311.00 | 80 010000.20 | 00 | ST(BU,8),ZFRO3 | IM000033 |
| 36* | 220277.40 | 220265.10 | 00 | | B,ZFRO6 | IM000034 |
| 37* | 220300.00 | 000002.37 | 8D 220301.74 | 02 | Z F 2 BB,2.31(\$13),Z F SAVE -BRANCH IF SAVE | IM000035 |
| 38* | 220301.00 | 220252.50 | 00 | | B,ZFFLIP-.32 | IM000036 |
| 39* | 220301.40 | 220315.00 | 80 220311.04 | AC | Z FSAVE TI,2,KSAVE,Z FRO3 | IM000037 |
| 40* | 220302.40 | 220257.10 | 00 | | B,K D FREE | IM000038 |
| 41* | | | | | CNOP | IM000039 |
| 42* | 220303.00 | | | | K FREM (IQSX)DD(BU), UNLOAD TAPE ON CHANNEL X | IM000040 |
| 43* | 220306.00 * | | | | Z FRO4 (IQSX)DD(BU), UNIT X | IM000041 |
| 44* | 220307.00 | | | | Z FRO1 (IQSX)DD(BU), . JOB X | IM000042 |
| 45* | 220310.00 | | | | Z FRO2 (IQSX)DD(BU), X | IM000043 |
| 46* | 220311.00 * | 000002.00 | | | Z FRO3 DRZ(N),(2) | IM000044 |
| 47* | 220313.00 | | | | K NSAVE (IQSX)DD(BU), DO NOT SAVE X | IM000045 |
| 48* | 220315.00 | | | | K SAVE (IQSX)DD(BU), SAVE X | IM000046 |
| 49* | 220317.00 | | | | Z FR17 (IQSX)DD(BU),PREASSIGNX | IM000047 |
| 50* | 220320.40 | 000000.45 | 0D | | K K MARK V-I,2,.32 | IM000048 |
| 51* | 220321.00 | 215265.05 | 30 | | SV,2,S TIC | IM000048 |
| 52* | 220321.40 | 000000.47 | 8B 220374.34 | 02 | BB,S SEL(\$11),K E LCOP | IM000049 |
| 53* | 220322.40 | 220246.41 | 01 | | LVI,0,Z Z FREE | IM000050 |
| 54* | 220323.00 | 000000.37 | 8B 220374.34 | 0E | BB1,S SET UP(\$11),K E LCOP | IM000051 |
| 55* | 220324.00 | 000005.01 | 3C | | SV,C,S RET AD(\$12) | IM000052 |
| 56* | 220324.40 | 216242.10 | 00 | | B,K SUPP | IM000052 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------|---|----------|
| 1* | | | | | IN000001 |
| 2* | | | | -----DENSITY AND MODE CHANGE PSEUDO-OPS----- | IN000002 |
| 3* | | | | | IN000003 |
| 4* | 220325.00 * | | | SLC, \$ | IN000004 |
| 5* | 220325.00 | 000001.13 C1 | RFD | LVI,5,1.0 | IN000005 |
| 6* | 220325.40 | 220326.50 C0 | | B,RLD.32 | IN000006 |
| 7* | 220326.00 | 000003.13 C1 | RLD | LVI,5,3.0 | IN000007 |
| 8* | 220326.40 | 000011.13 30 | | SV,5,\$R | IN000008 |
| 9* | 220327.00 | 000002.33 8D | | ST(BU,2),SFDEN(\$13),46 | IN000009 |
| 10* | 220330.00 | 000000.50 8B | | 002027.20 D0 001000.36 F0 CM1111(BU,1),SVER(\$11) | IN000010 |
| 11* | 220331.00 | 000007.52 3C | | LV,5,SFILEK(\$12) | IN000011 |
| 12* | 220331.40 | 000000.13 C0 | | KVNI,5,C | IN000012 |
| 13* | 220332.00 | 220064.32 C0 | | BZXE,KILEGL | IN000012 |
| 14* | 220332.40 | 000004.11 04 | RTAPE | KVI,4,4.0 | IN000013 |
| 15* | 220333.00 | 220064.32 C0 | | BZXE,KILEGL | IN000013 |
| 16* | 220333.40 | 000015.47 01 | | LVI,3,13.32 | IN000014 |
| 17* | 220334.00 | 220727.50 C0 | | B,KNI+1.0 | IN000015 |
| 18* | 220334.40 | 000002.13 01 | REVEN | LVI,5,2.0 | IN000016 |
| 19* | 220335.00 | 220336.10 C0 | | B,RCCD.32 | IN000017 |
| 20* | 220335.40 | 000003.13 01 | RCCD | LVI,5,3.0 | IN000018 |
| 21* | 220336.00 | 000011.13 30 | | SV,5,\$R | IN000019 |
| 22* | 220336.40 | 000002.60 8D | | 002027.20 D0 ST(BU,2),SFMODE(\$13),46 | IN000020 |
| 23* | 220337.40 | 220332.50 C0 | | B,RTAPE | IN000021 |
| 24* | 220340.00 * | 000001.13 C1 | RECC | LVI,5,1.0 | IN000022 |
| 25* | 220340.40 | 000004.11 04 | | KVI,4,4.0 | IN000023 |
| 26* | 220341.00 | 220342.72 C0 | | BZXE,RNCECC.32 | IN000024 |
| 27* | 220341.40 | 220344.10 C0 | | B,RSFMCD | IN000025 |
| 28* | 220342.00 | 000003.13 C1 | RNCECC | LVI,5,3.0 | IN000026 |
| 29* | 220342.40 | 000001.51 04 | | KVI,4,1.32 | IN000027 |
| 30* | 220343.00 | 220344.32 C2 | | BXE,RSFMCD | IN000028 |
| 31* | 220343.40 | 000002.11 04 | | KVI,4,2.0 | IN000029 |
| 32* | 220344.00 | 000011.13 30 | RSFMCD | SV,5,\$R | IN000030 |
| 33* | 220344.40 | 000002.60 8D | | 002027.20 D0 ST(BU,2),SFMODE(\$13),46 | IN000031 |
| 34* | 220345.40 | 220333.10 C0 | | B,RTAPE.32 | IN000032 |
| 35* | 220346.00 | 000000.45 C0 | RALLPS | V-I,2,.32 | IN000033 |
| 36* | 220346.40 | 215265.05 30 | | SV,2,STIC | IN000034 |
| 37* | 220347.00 | 220017.50 00 | | B,W23K | IN000035 |

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| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|-----------------|---------|---|----------|
| 1* | | | | | - ***** | JA000001 |
| 2* | | | | | - ***** WAIT ***** | JA000002 |
| 3* | | | | | - ***** | JA000003 |
| 4* | 220347.40 * | | | | SLC, \$ | JA000004 |
| 5* | 220347.40 | 000000.40 | 8B 001067.20 50 | K WAIT | L(BU,1),S OWNER(\$11),-18 -DETERMINE LEVEL OF INTERRUPT | JAC00005 |
| 6* | 220350.40 | 000000.45 | 0D | | V-1,2,.32 | JAC00006 |
| 7* | 220351.00 | 215265.05 | 30 | | SV,2,S TIC | JA000007 |
| 8* | 220351.40 | 215001.05 | 8Q 001067.20 00 | | ST(BU,1),S M,-18 | JAC00008 |
| 9* | 220352.40 | 000010.22 | 30 | | LV,9,\$L | JA000009 |
| 10* | 220353.00 | 215021.23 | 05 | | V+1,9,S PROG S -PRG STAT TABLE ADDR | JA000010 |
| 11* | 220353.40 | 000001.42 | 3D | | LV,1,SINTAD(\$13) | JAC00011 |
| 12* | 220354.00 | 220356.71 | 42 | | BXVZ,\$+2.32 | JAC00012 |
| 13* | 220354.40 | 000000.31 | 89 220356.74 02 | | BB,SAS(\$9),\$+2.0 | JA000013 |
| 14* | 220355.40 | 000001.71 | 8D 220375.74 06 | | BBZ,SEWAIL(\$13),KPASS | JA000014 |
| 15* | 220356.40 | 000000.32 | 8A 220366.74 02 | | BB,S CH OP(\$10),K MISU | JA000015 |
| 16* | 220357.40 | 220360.43 | 01 | K DIG | LVI,1,\$+1. | JAC00016 |
| 17* | 220360.00 | 220202.10 | 00 | | B,K SERCH | JAC00016 |
| 18* | 220360.40 | 220375.50 | 00 | | B,K PASS | JA000017 |
| 19* | 220361.00 | 000000.31 | 89 216010.74 02 | | BB,S AS(\$9),K INT TY | JA000018 |
| 20* | 220362.00 | 000036.37 | 02 | | LCI,15,30 | JA000019 |
| 21* | 220362.40 * | 215001.05 | 80 220365.34 02 | | BB,S M,\$+2.32 | JA000020 |
| 22* | 220363.40 | 215230.00 | 80 215266.36 20 | | T,15,S TLR,S LR PP | JA000021 |
| 23* | 220364.40 | 216010.50 | 00 | | B,K INT TY | JA000022 |
| 24* | 220365.00 | 215230.00 | 80 215362.36 20 | | T,15,S TLR,S LR MCP | JA000023 |
| 25* | 220366.00 | 216010.50 | 00 | | B,K INT TY | JA000024 |
| 26* | 220366.40 | 000000.47 | 8B 220357.74 02 | K MISU | BB,SSEL(\$11),KDIG | JA000025 |
| 27* | 220367.40 | 000003.32 | 9C | | KV,13,S FI AAC(\$12) | JA000026 |
| 28* | 220370.00 | 220357.72 | 00 | | BZXE,K DIG | JA000026 |
| 29* | 220370.40 | 000000.31 | 89 220374.34 02 | | BB,S AS(\$9),K E LCCP | JAC00027 |
| 30* | 220371.40 | 000000.33 | 39 | | SV,13,0.0(\$9) -FILE A ADDR TO WAIT FIELD | JA000028 |
| 31* | 220372.00 | 000001.40 | 8D 031000.00 FC | | CM0000(BU,25),SINTAD(\$13) | JA000029 |
| 32* | 220373.00 | 000001.71 | 8D 001000.36 FC | | CM1111,SEWAIL(\$13) | JA000030 |
| 33* | 220374.00 | 000001.45 | 0D | KE LCCP | V-1,2,1.32 | JA000031 |
| 34* | 220374.40 | 215265.05 | 30 | | SV,2,STIC | JA000032 |
| 35* | 220375.00 | 216242.10 | 00 | | B,K SUPP | JAC00033 |
| 36* | 220375.40 * | 000000.00 | 89 030000.00 FC | K PASS | CM0000(BU,24),0.0(\$9) | JA000034 |
| 37* | 220376.40 | 216242.10 | 00 | | B,K SUPP | JA000035 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|--|----------|
| 1* | | | | - ***** | JB000001 |
| 2* | | | | -***** CHANGE IO TABLE OF EXITS *****- | JB000002 |
| 3* | | | | - ***** | JB000003 |
| 4* | 220377.00 * | | | SLC,\$ | JB000004 |
| 5* | 220377.00 | 215246.00 80 | 000021.36 EC | C CHEX SWAPI,15,S TLR+14.,\$1 -COMPUTE 3RD PARAMETER | JB000005 |
| 6* | 220400.00 | 220706.01 80 | | LVE,0,K IOO RN-.32 | JB000006 |
| 7* | 220400.40 | 215246.00 80 | 000021.36 EO | SWAPI,15,S TLR+14.,\$1 | JB000007 |
| 8* | 220401.40 | 220402.10 C6 | | BUSAZ,\$+.32 | JB000008 |
| 9* | 220402.00 | 220402.50 46 | | BADZ,\$+.32 | JB000008 |
| 10* | 220402.40 | 000020.00 50 | | LC,C,\$0 | JB000009 |
| 11* | 220403.00 | 215230.71 80 | 220406.34 00 | BZB, S T LR + 0.57, C CHEKT -BRANCH IF MCP NEXIT | JB000010 |
| 12* | 220404.00 | 215230.01 90 | | KC, 0, S UPPER -IF IN PP, CHECK THAT NEXIT | JB000011 |
| 13* | 220404.40 | 220407.32 40 | | BZXL, C NX OUT -IS WITHIN PP BOUNDARIES | JB000012 |
| 14* | 220405.00 | 215230.41 90 | | KC, 0, S LOWER | JB000013 |
| 15* | 220405.40 | 220407.32 42 | | BXL, C NX OUT | JB000014 |
| 16* | 220406.00 | 000002.01 50 | | C CHEKT SC,C, S TGE LO(\$13) -STORE IN FILE AREA TABLE | JB000015 |
| 17* | 220406.40 | 216242.10 C0 | | R,K SUPP | JB000016 |
| 18* | 220407.00 | 000401.35 01 | | C NX OUT LVI, 14, S NX OUT | JB000017 |
| 19* | 220407.40 | 217451.40 80 | | SIC,S DISIC | JB000018 |
| 20* | 220410.00 | 217372.10 00 | | B,S DISP | JB000018 |

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| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|-----------------|--------|---|----------|
| 1* | | | | - | ***** | JC000001 |
| 2* | | | | - | *****SUPPRESS I/O INTERRUPT***** | JC000002 |
| 3* | | | | - | ***** | JC000003 |
| 4* | 220410.40 * | | | | SLC,\$ | JC000004 |
| 5* | 220410.40 | 215001.04 | 30 001067.20 50 | K SIC | L(BU,1),S L,-18 -DETERMINE LEVEL OF IC | JC000005 |
| 6* | 220411.40 | 000010.22 | 30 | | LV,9,\$L | JC000006 |
| 7* | 220412.00 | 215021.23 | 05 | | V+I,9,S PROG S -PRCG STAT TABLE FOR SL | JC000007 |
| 8* | 220412.40 | 000000.75 | 89 001000.36 F0 | | CM1111(BU,1),S SIO(\$9) | JC000008 |
| 9* | 220413.40 | 000000.45 | 05 | | V+I,2,.32 | JC000009 |
| 10* | 220414.00 | 215265.05 | 30 | | SV,2,S TIC | JC000010 |
| 11* | 220414.40 | 216242.10 | 00 | | B,K SUPP | JC000011 |
| 12* | | | | - | | JC000012 |
| 13* | | | | - | | JC000013 |
| 14* | | | | - | ***** | JD000001 |
| 15* | | | | - | ***** RELEASE I/O INTERRUPTS ***** | JD000002 |
| 16* | | | | - | ***** | JD000003 |
| 17* | 220415.00 * | | | | SLC,\$ | JD000004 |
| 18* | 220415.00 | 215001.04 | 80 001067.20 50 | K RIC | L(BU,1),S L,-18 -DETERMINE LEVEL OF IC | JD000005 |
| 19* | 220416.00 | 000010.22 | 30 | | LV,9,\$L | JD000006 |
| 20* | 220416.40 | 215021.23 | 05 | | V+I,9,S PROG S -PRCG STAT TABLE FOR SL | JD000007 |
| 21* | 220417.00 | 000000.75 | 89 001000.00 F0 | | CM0000(BU,1),S SIO(\$9) -TURN OFF SIO BIT | JD000008 |
| 22* | 220420.00 | 000000.45 | 05 | | V+I,2,.32 | JD000009 |
| 23* | 220420.40 | 215265.05 | 30 | | SV,2,S TIC | JD000010 |
| 24* | 220421.00 | 000000.31 | 89 216242.34 02 | | BB,S AS(\$9),K SUPP -DETERMINE IF IN FIX UP | JD000011 |
| 25* | 220422.00 | 000000.60 | 59 | | LC,8,S Q K(\$9) -IF NOT, UNSTACK | JD000012 |
| 26* | 220422.40 | 216242.30 | 42 | | BXCZ,K SUPP | JD000013 |
| 27* | 220423.00 | 000036.37 | 02 | | LCI,15,30 | JD000014 |
| 28* | 220423.40 | 215001.04 | 80 220426.34 02 | | BB,S L,K MOVE | JD000015 |
| 29* | 220424.40 | 215230.00 | 80 215266.36 20 | | T,15,S TLR,S LR PP | JD000016 |
| 30* | 220425.40 | 222037.10 | 00 | | B,KUNSTC | JD000017 |
| 31* | 220426.00 | 215230.00 | 80 215362.36 20 | K MOVE | T,15,S TLR, S LR MCP | JD000018 |
| 32* | 220427.00 | 222037.10 | 00 | | B,KUNSTC | JD000019 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|---|----------|
| 1* | | | | - ***** | KA000001 |
| 2* | | | | -***** STORE IN COMMUNICATION REGION *****- | KA000002 |
| 3* | | | | - ***** | KA000003 |
| 4* | 220427.40 * | | | SLC,\$ | KA000004 |
| 5* | 220427.40 | 000031.07 C2 | KSTRG | LCI,3,KQUANT | KA000005 |
| 6* | 220430.00 | 220431.03 C1 | | LVI,1,\$+1.0 | KA000006 |
| 7* | 220430.40 | 220432.50 00 | | B,K CAB | KA000006 |
| 8* | 220431.00 | 000000.00 89 | 220451.06 2C | T,\$3,C(\$9),KSILO | KA000007 |
| 9* | 220432.00 | 216242.10 00 | | B,K SUPP | KA000008 |
| 10* | 220432.40 | 000001.05 05 | K CAB | V+I,2,1.0 | KA000009 |
| 11* | 220433.00 | 215265.05 30 | | SV,2,S TIC | KA000010 |
| 12* | 220433.40 | 000000.45 00 | | V-I,2,.32 | KA000011 |
| 13* | 220434.00 | 220435.45 D0 | | SVA,2,\$+1.32 | KA000012 |
| 14* | 220434.40 | 000021.00 80 | 215246.06 EC | SWAPI,3,\$1,S TLR+14. | KA000013 |
| 15* | 220435.40 | 220435.63 80 | | LVE,9,\$ | KA000014 |
| 16* | 220436.00 | 000021.00 80 | 215246.06 EC | SWAPI,3,\$1,S TLR+14.C | KA000015 |
| 17* | 220437.00 | 220443.50 C6 | | BUSAZ,K GOOF | KA000016 |
| 18* | 220437.40 | 220444.10 46 | | BADZ,K GOOF+.32 | KA000017 |
| 19* | 220440.00 | 215230.62 90 | | KV,9,SLCWER | KA000018 |
| 20* | 220440.40 | 220443.72 42 | | BXL,KGCOF | KA000019 |
| 21* | 220441.00 | 000014.63 C5 | | V+I,9,KQUANT | KA000020 |
| 22* | 220441.40 | 215230.22 90 | | KV,9,S UPPER | KA000021 |
| 23* | 220442.00 | 220443.72 40 | | BZXL,K GCOF | KA000022 |
| 24* | 220442.40 * | 000014.63 00 | | V-I,9,KQUANT | KA000023 |
| 25* | 220443.00 | 000000.10 C1 | | B,0.0(\$1) | KA000024 |
| 26* | 220443.40 | 220444.10 46 | K GCOF | BADZ,\$+.32 | KA000025 |
| 27* | 220444.00 | 010011.35 01 | | LVI,14,S FORBD | KA000026 |
| 28* | 220444.40 | 217451.40 80 | | SIC,S DISIC | KA000027 |
| 29* | 220445.00 | 217372.10 C0 | | B,S DISP | KA000027 |
| 30* | | | | - | KA000028 |
| 31* | | | | - | KA000029 |
| 32* | | | | - ***** | KB000001 |
| 33* | | | | -***** FETCH FROM COMMUNICATION REGION *****- | KB000002 |
| 34* | | | | - ***** | KB000003 |
| 35* | 220445.40 * | | | SLC,\$ | KB000004 |
| 36* | 220445.40 | 000031.07 C2 | K FECRG | LCI,3,K QUANT | KB000005 |
| 37* | 220446.00 | 220447.03 C1 | | LVI,1,\$+1.0 | KB000006 |
| 38* | 220446.40 | 220432.50 C0 | | B,K CAB | KB000006 |
| 39* | 220447.00 | 220451.00 80 | 000000.06 29 | T,3,K SILO,0.0(\$9) | KB000007 |
| 40* | 220450.00 | 216242.10 C0 | | B,K SUPP | KB000008 |
| 41* | 220450.40 | 000000.30 00 | | CNOP | KB000009 |
| 42* | 000000.00+ | +00000031 | NULL | K QUANT SYN,25 | KB000010 |
| 43* | 220451.00 * | 000031.00 | K SILO | DR(BU,64),(K QUANT) -COMMUNICATION REGION | KB000011 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|-------|---|----------|
| 1* | | | | | KC000001 |
| 2* | | | | -----STORE LOWER REGISTERS----- | KC000002 |
| 3* | | | | | KC000003 |
| 4* | 220502.00 | 215021.23 01 | TSTLR | LVI,\$9,SPROGS | KC000004 |
| 5* | 220502.40 | 00000.31 89 220543.74 00 | | BZB,SAS(\$9),TMR2 - PSEUDC-CP AVAILABLE ONLY IF AUTC-ST | KC000005 |
| 6* | 220503.40 | 00000.45 05 | | V+I,\$2,.32 - GET TC BUFFER ADDRESS | KC000006 |
| 7* | 220504.00 | 220506.45 00 | | SVA,\$2,TMSET | KC000007 |
| 8* | 220504.40 | 00000.45 05 | | V+I,\$2,.32 | KC000008 |
| 9* | 220505.00 | 215265.05 00 | | SVA,\$2,STIC - RETURN ADDRESS | KC000009 |
| 10* | 220505.40 | 215246.00 80 000021.04 A0 | | TI,2,STLR+14.C,\$1 - RESTORE INDEXES NEEDED | KC000010 |
| 11* | 220506.40 | 220506.43 80 | TMSET | LVE,\$1,\$ - BUFFER SHOULD BE THERE IN VF OF \$1 | KC000011 |
| 12* | 220507.00 | 220507.50 06 | | BUSAZ,\$+.32 | KC000012 |
| 13* | 220507.40 | 220510.10 46 | | BADZ,\$+.32 | KC000013 |
| 14* | 220510.00 | 220541.40 80 | | SIC,TCHEK | KC000014 |
| 15* | 220510.40 | 220536.50 00 | | B,TCHEK1 - CHECK BOUNDS ON PP BUFFER | KC000014 |
| 16* | 220511.00 | 000036.04 31 | | LV,\$2,30.0(\$1) | KC000015 |
| 17* | 220511.40 | 215230.04 90 | | KV,\$2,STLR - CHECK BOUNDS ON PP IC | KC000016 |
| 18* | 220512.00 | 220542.32 40 | | BZXL,TMR1 | KC000017 |
| 19* | 220512.40 | 215230.44 90 | | KV,\$2,STLR+.32 | KC000018 |
| 20* | 220513.00 | 220542.32 42 | | BXL,TMR1 | KC000019 |
| 21* | 220513.40 | 215276.04 10 | | LX,\$2,SLRPP+8.0 - SAVE INDICATORS | KC000020 |
| 22* | 220514.00 | 220545.05 10 | | SX,\$2,TMSVIN | KC000021 |
| 23* | 220514.40 | 000035.03 02 | | LCI,\$1,29.0 | KC000022 |
| 24* | 220515.00 * | 000002.00 81 215267.02 20 | | T,\$1,2.0(\$1),SLRPP+1.0 - STORE LOWER REGISTERS | KC000023 |
| 25* | 220516.00 | 215300.25 80 001000.36 F0 | | CM1111(BU,1),SLRPP+10.21 - IF FORCED ON IN MASK | KC000024 |
| 26* | 220517.00 | 220545.04 80 001000.06 70 | | LF(BU,1),TMSVIN+.4 | KC000025 |
| 27* | 220520.00 | 215277.04 80 001000.12 F0 | | SF(BU,1),SLRPP+9.4 - CANNOT CHANGE TS | KC000026 |
| 28* | 220521.00 | 220545.22 80 001000.06 70 | | LF(BU,1),TMSVIN+.18 | KC000027 |
| 29* | 220522.00 | 215277.22 80 001000.12 F0 | | SF(BU,1),SLRPP+9.18 - CANNOT CHANGE EXE | KC000028 |
| 30* | 220523.00 | 216242.10 00 | | B,KSUPP | KC000029 |

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| LINE | LOCATIONN | BINARY OUTPUT | NAME | STATEMENT | LOCATIONN |
|------|-------------|---------------|--------------|----------------------|--------------------------------------|
| 1* | | | | | K0000001 |
| 2* | | | | | K0000002 |
| 3* | | | | | K0000003 |
| 4* | 220523.40 | C00000.45 05 | TFCHLR | V+I,\$2,.32 | - GET IC ADDRESS OF BUFFER |
| 5* | 220524.00 | 220526.45 D0 | | SVA,\$2,TFSET | |
| 6* | 220524.40 | C00000.45 C5 | | V+I,\$2,.32 | |
| 7* | 220525.00 | 215265.05 D0 | | SVA,\$2,STIC | - RETURN ADDRESS |
| 8* | 220525.40 | 215246.00 80 | 000021.04 AC | TI,2,STLR+14.0,\$1 | - RESTORE INDEXES |
| 9* | 220526.40 | 220526.43 B0 | TFSET | LVE,\$1,\$ | - PICK UP BUFFER ADDRESS |
| 10* | 220527.00 | 220527.50 C6 | | BUSAZ,\$+.32 | - PP CATCHES THESE INTERRUPTS |
| 11* | 220527.40 | 220530.10 46 | | BADZ,\$+.32 | |
| 12* | 220530.00 | 220541.40 80 | | SIC,TMCHEK | |
| 13* | 220530.40 * | 220536.50 00 | | B,TCHEK1 | - CHECK BOUNDS ON PP BUFFER |
| 14* | 220531.00 | 000036.03 C2 | | LCL,\$1,30.0 | |
| 15* | 220531.40 | 215266.00 80 | 000001.02 21 | T,\$1,SLRPP,1.(\$1) | - FETCH LOWER REGISTERS |
| 16* | 220532.40 | 215005.00 80 | 040000.20 50 | L(BU,32),SBAPP | |
| 17* | 220533.40 | 000036.40 81 | 040000.20 D0 | ST(BU,32),30.32(\$1) | - PP GETS SBAPP IN BUFFER + 30.32 |
| 18* | 220534.40 | 215021.04 10 | | LX,\$2,SPROGS | |
| 19* | 220535.00 | C00000.04 32 | | LV,\$2,0(\$2) | - CONVERSION OF FAT TO ICD NO. |
| 20* | 220535.40 | C00000.05 11 | | SX,\$2,0(\$1) | - PP GETS SPROGS IN FIRST WRD OF BUF |
| 21* | 220536.00 | 216242.10 00 | | B,KSUPP | |
| 22* | 220536.40 | 215230.42 90 | | TCHEK1 | KV,\$1,STLR+.32 |
| 23* | 220537.00 | 220542.32 42 | | BXL,TMER1 | - CHECK LOWER BOUND |
| 24* | 220537.40 | C00036.03 05 | | V+I,\$1,30.0 | - ERROR |
| 25* | 220540.00 | 215230.02 90 | | KV,\$1,STLR | - BUFFER 31 WORDS LONG |
| 26* | 220540.40 | 220542.32 40 | | BZXL,TMER1 | - CHECK UPPER BOUND |
| 27* | 220541.00 | C00036.03 00 | | V-I,\$1,30.0 | - ERROR |
| 28* | 220541.40 | 220541.50 00 | | TMCHEK | B,\$ |
| 29* | 220542.00 | C1CC11.35 C1 | | TMER1 | LVI,\$14,SFORBD |
| 30* | 220542.40 | 217451.40 80 | | SIC,SDISIC | |
| 31* | 220543.00 | 217372.10 00 | | B,SDISP | |
| 32* | 220543.40 | C01012.35 01 | | TMER2 | LVI,\$14,SERCCD |
| 33* | 220544.00 * | 217451.40 80 | | SIC,SDISIC | - ERROR ROUTINE |
| 34* | 220544.40 | 217372.10 C0 | | B,SDISP | |
| 35* | 220545.00 * | C0CC01.00 | | TMSVIN | DRZ(BU),1 |
| 36* | 220546.00 | C0CC12.00 | | | DRZ(BU),10 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|--|----------|
| 1* | | | | | KE000001 |
| 2* | | | | THE \$FIXUP PSEUDO OP | KE000002 |
| 3* | | | | | KE000003 |
| 4* | | | | | KE000004 |
| 5* | | | | | KE000005 |
| 6* | | | | THE CALLING SEQUENCE FOR \$FIXUP | KE000006 |
| 7* | | | | | KE000007 |
| 8* | | | | B,\$MCP | KE000008 |
| 9* | | | | ,\$FIXUP | KE000009 |
| 10* | | | | ,A(I) | KE000010 |
| 11* | | | | ,B(J) | KE000011 |
| 12* | | | | -RETURN- | KE000012 |
| 13* | | | | | KE000013 |
| 14* | | | | A(I), IF NOT ZERO, IS THE LOCATION IN PP MEMORY WHERE THE | KE000014 |
| 15* | | | | PATTERN WORD AND THE PRESENT INTERRUPT TABLE ARE SAVED. | KE000015 |
| 16* | | | | B(J) IS THE LOCATION WHERE THE PP PATTERN WORD AND THE ONE | KE000016 |
| 17* | | | | WORD FIXUPS ARE, IN ORDER OF APPEARANCE. | KE000017 |
| 18* | | | | | KE000018 |
| 19* | 220560.00 | 000000.45 05 | F FXP | V+I,\$2,.32 | KE000019 |
| 20* | 220560.40 | 220564.05 D0 | | SVA,\$2,FSVEF -ADDRESS OF A(I) | KE000019 |
| 21* | 220561.00 | 000000.45 05 | | V+I,\$2,.32 | KE000020 |
| 22* | 220561.40 | 220564.45 D0 | | SVA,\$2,FSTEF -ADDRESS OF B(J) | KE000020 |
| 23* | 220562.00 | 000000.45 05 | | V+I,\$2,.32 | KE000021 |
| 24* | 220562.40 | 215265.05 D0 | | SVA,\$2,STIC -RETURN ADDRESS | KE000021 |
| 25* | 220563.00 | 215247.00 80 | 000022.04 AC | TI,2,STLR+15.,\$2 -RESTORE PP INDICES 2-3 | KE000022 |
| 26* | 220564.00 | 220564.01 B0 | F SVEF | LVE,\$0,\$ -A(I) EFFECTIVE ADDRESS | KE000023 |
| 27* | 220564.40 | 220564.43 B0 | F STEF | LVE,\$1,\$ -B(J) EFFECTIVE ADDRESS | KE000024 |
| 28* | 220565.00 | 220636.10 C6 | | BUSAZ,FERRZ | KE000025 |
| 29* | 220565.40 | 220636.50 46 | | BADZ,FERRZ+.32 -USA OR AD ERROR | KE000025 |
| 30* | 220566.00 | 000003.42 90 | | KV,\$1,3.32 | KE000026 |
| 31* | 220566.40 | 220636.72 42 | | BXL,FERRX -BRANCH IF B(J) IS NOT | KE000026 |
| 32* | 220567.00 | 000003.02 90 | | KV,\$1,3.0 | KE000027 |
| 33* | 220567.40 | 220636.72 40 | | BZXL,FERRX -WITHIN PP BOUNDS | KE000027 |
| 34* | | | | | KE000028 |
| 35* | 220570.00 | 000000.00 81 | 000000.20 50 | L(BU),0.(\$1) -LOAD THE PP PATTERN WORD | KE000029 |
| 36* | 220571.00 | 220641.00 80 | 000000.02 70 | COOC1(BU),FBMSK -REMOVE UNWANTED ONES ONLY | KE000030 |
| 37* | 220572.00 | 220640.00 80 | 000000.12 FC | SF(BU,64),FPTWD -SAVE DOCTORED PATTERN WORD | KE000031 |
| 38* | | | | | KE000032 |
| 39* | 220573.00 * | 000007.00 80 | 000000.20 50 | L(BU),7.0 -LOAD COUNTERS | KE000033 |
| 40* | 220574.00 | 220642.13 80 | 007006.60 DC | ST(BU,7),FALOC.11,13 -ALL ONES COUNTER | KE000034 |
| 41* | 220575.00 | 220642.62 80 | 006024.20 D0 | ST(BU,6),FLZCN.18,40 -LEFT ZEROS COUNT AS VF BIT ADDR. | KE000035 |
| 42* | 220576.00 | 220643.14 80 | 006024.20 D0 | ST(BU,6),FADC.12,40 -LEFT ZEROS COUNT AS VF FWA | KE000036 |
| 43* | | | | | KE000037 |
| 44* | 220577.00 | 000021.04 30 | | LV,\$2,\$1 | KE000038 |
| 45* | 220577.40 | 220642.04 B0 | | V+,\$2,FALOC | KE000038 |
| 46* | 220600.00 | 000003.04 90 | | KV,\$2,3.0 | KE000039 |
| 47* | 220600.40 | 220636.72 40 | | BZXL,FERRX -BRANCH IF B(J) ABOVE PP BOUNDS | KE000039 |
| 48* | 220601.00 | 000020.04 30 | | LV,\$2,\$C | KE000040 |
| 49* | 220601.40 | 220607.31 42 | | BXVZ,FSTUP -BRANCH IF A(I) IS ZERO | KE000040 |
| 50* | 220602.00 | 000003.44 90 | | KV,\$2,3.32 | KE000041 |
| 51* | 220602.40 | 220636.72 42 | | BXL,FERRX -BRANCH IF A(I) BELOW PP BOUNDS | KE000041 |
| 52* | 220603.00 | 220642.04 B0 | | V+,\$2,FALOC | KE000042 |
| 53* | 220603.40 | 000003.04 90 | | KV,\$2,3.0 | KE000042 |
| 54* | 220604.00 | 220636.72 40 | | BZXL,FERRX -BRANCH IF A(I) ABOVE PP BOUNDS | KE000043 |
| 55* | 220604.40 | 000020.04 30 | | LV,\$2,\$C -RESTORE A(I) IN \$2 | KE000044 |
| 56* | 220605.00 | 000000.00 81 | 000000.20 50 | L(BU),0.(\$1) | KE000045 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 220606 | | |
|------|-------------|--------------------------|--------|-----------|-----------|----------------|-----------------------------|------------------------------------|----------|
| 1* | 220606.00 * | 000000.00 | 82 | 000000.20 | DC | ST(BU),C.(\$2) | -SAVE PATTERN WORD AT A(I) | KE000045 | |
| 2* | | | | | | | | KE000046 | |
| 3* | 220607.00 | 220642.46 | 30 | | | F STUP | LV,\$3,FLZCN | -B.A. OF 1ST ONE BIT IN PATTERN WD | KE000047 |
| 4* | 220607.40 | 220643.10 | 30 | | | | LV,\$4,FADC | | KE000048 |
| 5* | 220610.00 | 220642.10 | 50 | | | | LC,\$4,FALOC | -FWA OF WD TO BE CHANGED + CCOUNT | KE000048 |
| 6* | 220610.40 | 216242.30 | 42 | | | | BXCZ,KSUPP | -RETURN IF PATTERN WORD IS ZERO | KE000049 |
| 7* | 220611.00 | 220612.10 | 00 | | | | B,FCKBT+.32 | | KE000050 |
| 8* | 220611.40 | 220643.46 | 80 | | | F CKBT | V+,\$3,FOVF | -INCREMENT B.A. +0.01 | KE000051 |
| 9* | 220612.00 | 220640.00 | 83 | 220614.34 | 02 | | BB,FPTWD(\$3),FSVI | -BRANCH IF PATTERN BIT ON | KE000052 |
| 10* | 220613.00 | 000001.11 | 05 | | | | V+I,\$4,1.C | | KE000053 |
| 11* | 220613.40 | 220611.50 | 00 | | | | B,FCKBT | -NO INCREMENT \$4 AND CONTINUE | KE000053 |
| 12* | 220614.00 | 000000.01 | 04 | | | F SVI | KVI,\$0,C.0 | | KE000054 |
| 13* | 220614.40 | 220621.72 | 02 | | | | BXE,FSTN | -BRANCH IF A(I) IS ZERO | KE000054 |
| 14* | 220615.00 | 215023.00 | 84 | 000000.20 | 50 | | L(BU),SIT(\$4) | | KE000055 |
| 15* | 220616.00 | 220620.00 | 84 | 000000.23 | 10 | | KF(BU,64),FWIT-20.(\$4) | -IS WD AN MCP ST FXUP | KE000055 |
| 16* | 220617.00 | 220620.76 | 00 | | | | BZAE,FSVT | | KE000056 |
| 17* | 220617.40 | 000000.00 | 80 | 000000.20 | 50 | | L(BU),C- | NO, SAVE AS IS, YES, SAVE ZERO | KE000056 |
| 18* | 220620.40 | 000001.00 | 82 | 000000.20 | 00 | F SVT | ST(BU,64),1.C(\$2) | -STORE IN A(I) | KE000057 |
| 19* | 220621.40 * | 000001.00 | 81 | 000000.20 | 50 | F STN | L(BU),1.0(\$1) | | KE000058 |
| 20* | 220622.40 | 220632.34 | 02 | | | | BRZ,FSTZ | -BRANCH IF FIXUP WORD IS ZERO | KE000058 |
| 21* | 220623.00 | 000011.30 | 80 | 220633.74 | 00 | | BZB,9.24,FSBD | -BRANCH IF NOT A SIC INSTR | KE000059 |
| 22* | 220624.00 | 400000.00 | 80 | 405002.23 | 10 | | KFI(BU,5),16,4 | | KE000060 |
| 23* | 220625.00 | 220635.36 | 02 | | | | BAE,FERRY | -I/O INSTRUCTION ERROR | KE000060 |
| 24* | 220625.40 | 100000.00 | 80 | 411002.23 | 10 | | KFI(BU,9),64,4 | | KE000061 |
| 25* | 220626.40 | 220635.36 | 02 | | | | BAE,FERRY | -SIC-BC ERROR | KE000061 |
| 26* | 220627.00 | 215023.00 | 84 | 000000.20 | 00 | F INS | ST(BU),SIT(\$4) | -INSERT FIXUP INTO INTERPT TABLE | KE000062 |
| 27* | 220630.00 | 000001.05 | 05 | | | F BTCK | V+I,\$2,1.0 | | KE000063 |
| 28* | 220630.40 | 000001.03 | 05 | | | | V+I,\$1,1.0 | - INCREMENT VALUES OF \$1 AND \$2 | KE000063 |
| 29* | 220631.00 | 220611.51 | 48 | | | | CB+,\$4,FCKBT | | KE000064 |
| 30* | 220631.40 | 216242.10 | 00 | | | | B,KSUPP | -UPDATE \$4 AND RETURN IF CNT ZERO | KE000064 |
| 31* | 220632.00 | 220620.00 | 84 | 215023.02 | A4 | F STZ | TI,1,FWIT-20.(\$4),SIT(\$4) | | KE000065 |
| 32* | 220633.00 | 220630.10 | 00 | | | | B,FPTCK | -STORE ST MCP FXUP IN TABLE | KE000065 |
| 33* | 220633.40 | 100000.00 | 80 | 411022.23 | 10 | F SBD | KFI(BU,9),64,36 | | KE000066 |
| 34* | 220634.40 | 220627.36 | 00 | | | | BZAE,FINS | -NOT A BD INSTR ERROR BRANCH | KE000066 |
| 35* | 220635.00 | 000411.35 | 01 | | | F ERRY | LVI,\$14,SFIXP | | KE000067 |
| 36* | 220635.40 * | 220637.10 | 00 | | | | B,FPIER | -ILLEGAL FIXUP WORD ERROR | KE000067 |
| 37* | 220636.00 | 220636.50 | 46 | | | F ERRZ | BADZ,\$.32 | -TURN OFF AD IND. | KE000068 |
| 38* | 220636.40 | 010011.35 | 01 | | | F ERRX | LVI,\$14,SFORBC | | KE000069 |
| 39* | 220637.00 | 217451.40 | 80 | | | F BIER | SIC,SDISIC | | KE000070 |
| 40* | 220637.40 | 217372.10 | 00 | | | | B,SDISP | -EXIT TO ERROR ROUTINE | KE000070 |
| 41* | | | | | | | | | KE000071 |
| 42* | 220640.00 | 000000000000000000000000 | | | | F PTWD | DD(BU),C | -TO SAVE PATTERN WORD | KE000072 |
| 43* | 220641.00 | 0000000277777777600000 | | | | F BMSK | (16)DD(BU),BFFFFFF0000 | -MASK TO REMOVE UNWANTED ONES | KE000073 |
| 44* | 220642.00 | 000000.00+ | | | | F ALOC | VF,C.C | -TO SAVE AOC | KE000074 |
| 45* | 220642.40 | 000000.00+ | | | | F LZCN | VF,0.0 | -TO SAVE LZC AS B.A. | KE000075 |
| 46* | 220643.00 | 000000.00+ | | | | F ADC | VF,C.C | -TO SAVE LZC AS FWA | KE000076 |
| 47* | 220643.40 | 000000.01+ | | | | F CVF | VF,C.C1 | -TO INCREMENT PATTERN WD B.A. | KE000077 |
| 48* | | | | | | | CNCP | | KE000078 |
| 49* | 220644.00 | 215265.00 | 80 | | | F WIT | SIC,STIC | | KE000079 |
| 50* | 220644.40 | 215127.04 | 00 | | | | BD,SIPT+20. | | KE000079 |
| 51* | 220645.00 | 215265.00 | 80 | | | | SIC,STIC | | KE000080 |
| 52* | 220645.40 | 215471.04 | 00 | | | | BD,SIFAE | | KE000080 |
| 53* | 220646.00 | 215265.00 | 80 | | | | SIC,STIC | | KE000081 |
| 54* | 220646.40 | 215131.04 | 00 | | | | BD,SIPT+22. | | KE000081 |
| 55* | 220647.00 | 215265.00 | 80 | | | | SIC,STIC | | KE000082 |
| 56* | 220647.40 | 215132.04 | 00 | | | | BD,SIPT+23. | | KE000082 |

| LINE | LOCATIONN | BINARY OUTPUT | NAME | STATEMENT | LOCATIONN | 220650 |
|------|-------------|---------------|------|-------------|-----------|----------|
| 1* | 220650.CC | 215265.00 80 | | SIC,STIC | | KE000083 |
| 2* | 220650.40 | 215133.04 00 | | BD,SIPT+24. | | KE000083 |
| 3* | 220651.00 * | 215265.00 80 | | SIC,STIC | | KE000084 |
| 4* | 220651.40 | 215134.04 00 | | BD,SIPT+25. | | KE000084 |
| 5* | 220652.CC | 215265.00 80 | | SIC,STIC | | KE000085 |
| 6* | 220652.40 | 215135.04 00 | | BD,SIPT+26. | | KE000085 |
| 7* | 220653.00 | 215265.00 80 | | SIC,STIC | | KE000086 |
| 8* | 220653.40 | 215136.04 00 | | BD,SIPT+27. | | KE000086 |
| 9* | 220654.CC | 215265.00 80 | | SIC,STIC | | KE000087 |
| 10* | 220654.40 | 215137.04 00 | | BD,SIPT+28. | | KE000087 |
| 11* | 220655.CC | 215265.00 80 | | SIC,STIC | | KE000088 |
| 12* | 220655.40 | 215140.04 00 | | BD,SIPT+29. | | KE000088 |
| 13* | 220656.CC | 215265.00 80 | | SIC,STIC | | KE000089 |
| 14* | 220656.40 | 215141.04 00 | | BD,SIPT+30. | | KE000089 |
| 15* | 220657.CC | 215265.00 80 | | SIC,STIC | | KE000090 |
| 16* | 220657.40 | 215142.04 00 | | BD,SIPT+31. | | KE000090 |
| 17* | 220660.CC | 215265.00 80 | | SIC,STIC | | KE000091 |
| 18* | 220660.40 | 215143.04 00 | | BD,SIPT+32. | | KE000091 |
| 19* | 220661.CC | 215265.00 80 | | SIC,STIC | | KE000092 |
| 20* | 220661.40 | 215144.04 00 | | BD,SIPT+33. | | KE000092 |
| 21* | 220662.CC | 215265.00 80 | | SIC,STIC | | KE000093 |
| 22* | 220662.40 | 215145.04 00 | | BD,SIPT+34. | | KE000093 |
| 23* | 220663.CC | 215265.00 80 | | SIC,STIC | | KE000094 |
| 24* | 220663.40 | 215146.04 00 | | BD,SIPT+35. | | KE000094 |
| 25* | 220664.CC | 215265.00 80 | | SIC,STIC | | KE000095 |
| 26* | 220664.40 * | 215147.04 00 | | BD,SIPT+36. | | KE000095 |
| 27* | 220665.CC | 215265.00 80 | | SIC,STIC | | KE000096 |
| 28* | 220665.40 | 215150.04 00 | | BD,SIPT+37. | | KE000096 |
| 29* | 220666.CC | 215265.00 80 | | SIC,STIC | | KE000097 |
| 30* | 220666.40 | 215151.04 00 | | BD,SIPT+38. | | KE000097 |
| 31* | 220667.CC | 215265.00 80 | | SIC,STIC | | KE000098 |
| 32* | 220667.40 | 215152.04 00 | | BD,SIPT+39. | | KE000098 |
| 33* | 220670.CC | 215265.00 80 | | SIC,STIC | | KE000099 |
| 34* | 220670.40 | 215153.04 00 | | BD,SIPT+40. | | KE000099 |
| 35* | 220671.CC | 215265.00 80 | | SIC,STIC | | KE000100 |
| 36* | 220671.40 | 215154.04 00 | | BD,SIPT+41. | | KE000100 |
| 37* | 220672.CC | 215265.00 80 | | SIC,STIC | | KE000101 |
| 38* | 220672.40 | 215155.04 00 | | BD,SIPT+42. | | KE000101 |
| 39* | 220673.CC | 215265.00 80 | | SIC,STIC | | KE000102 |
| 40* | 220673.40 | 215156.04 00 | | BD,SIPT+43. | | KE000102 |
| 41* | 220674.CC | 215265.00 80 | | SIC,STIC | | KE000103 |
| 42* | 220674.40 | 215157.04 00 | | BD,SIPT+44. | | KE000103 |
| 43* | 220675.CC | 215265.00 80 | | SIC,STIC | | KE000104 |
| 44* | 220675.40 | 215160.04 00 | | BD,SIPT+45. | | KE000104 |
| 45* | 220676.CC | 215265.00 80 | | SIC,STIC | | KE000105 |
| 46* | 220676.40 | 215161.04 00 | | BD,SIPT+46. | | KE000105 |
| 47* | 220677.CC | 215265.00 80 | | SIC,STIC | | KE000106 |
| 48* | 220677.40 | 215162.04 00 | | BD,SIPT+47. | | KE000106 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|-----------|-------------------------------|----------|
| 1* | | | | | - ***** | LA000001 |
| 2* | | | | | -***** IDENTIFIER *****- | LA000002 |
| 3* | | | | | - ***** | LA000003 |
| 4* | 220700.CC * | | | | SLC,\$ | LA000004 |
| 5* | 220700.CC | 000040.07 | 04 | K FRONT | KVI,3,32.C | LA000005 |
| 6* | 220700.40 | 000023.23 | 80 | | CM0000(BU,5), \$3.19 | LA000006 |
| 7* | 220701.40 | 220761.72 | 40 | | BZXL,K PLUG1 | LA000007 |
| 8* | 220702.00 | 000000.45 | 05 | | V+I,2,.32 | LA000008 |
| 9* | 220702.40 | 220706.45 | 00 | | SVA,2,K ICD RN | LA000009 |
| 10* | 220703.00 | 000000.45 | 05 | | V+I,2,.32 | LA000010 |
| 11* | 220703.40 | 220706.05 | 00 | | SVA,2,K ICD RN-.32 | LA000011 |
| 12* | 220704.00 | 000002.07 | 04 | | KVI,3,2.0 | LA000012 |
| 13* | 220704.40 | 000022.00 | 80 | 215247.04 | EO SWAPI,2,\$2,S TLR+15. | LA000013 |
| 14* | 220705.40 | 220706.73 | 42 | | BXH,K ICD RN | LA000014 |
| 15* | 220706.00 | 220706.01 | 80 | | LVE,0,\$ | LA000015 |
| 16* | 220706.40 | 220706.43 | 80 | K ICD RN | LVE,1,\$ | LA000016 |
| 17* | 220707.00 | 220707.50 | 06 | | BUSAZ,\$+.32 | LA000017 |
| 18* | 220707.40 | 220710.10 | 46 | | BADZ,\$+.32 | LA000018 |
| 19* | 220710.00 | 215247.00 | 80 | 000022.04 | EO SWAPI,2,S TLR+15.,\$2 | LA000019 |
| 20* | 220711.00 | 221002.31 | 42 | | BXVZ,Z IODH | LA000020 |
| 21* | 220711.40 | 215001.04 | 80 | 221000.34 | 02 BB,S L,K MCP | LA000021 |
| 22* | 220712.40 | 215005.42 | 90 | | KV,1,S MAX RN | LA000022 |
| 23* | 220713.00 * | 221002.33 | 42 | | BXH,ZICD H | LA000023 |
| 24* | 220713.40 | 000021.22 | 80 | 007000.20 | 50 L(BU,7), \$1.18 | LA000024 |
| 25* | 220714.40 | 221002.34 | 00 | | BZRZ,ZICD H | LA000025 |
| 26* | 220715.00 | 215005.02 | 80 | | V+,1,S BA PP | LA000026 |
| 27* | 220715.40 | 000000.30 | 31 | K SDAR | LV,12,0.0(\$1) | LA000027 |
| 28* | 220716.00 | 221002.31 | 42 | | BXVZ,Z ICD H | LA000028 |
| 29* | 220716.40 | 000000.72 | 31 | | LV,13,.32(\$1) | LA000029 |
| 30* | 220717.00 | 000001.45 | 00 | | V-I,2,1.32 | LA000030 |
| 31* | 220717.40 | 000000.24 | 30 | | LV,10,0.0(\$12) | LA000031 |
| 32* | 220720.00 | 000032.34 | 30 | | LV,14,\$10 | LA000032 |
| 33* | 220720.40 | 000032.24 | 80 | | V+,10,\$10 | LA000033 |
| 34* | 220721.00 | 215002.24 | 80 | | V+,10,S CHAN S | LA000034 |
| 35* | 220721.40 | 000000.64 | 8A | 004066.60 | 50 L(BU,4),S EQUIP(\$10),-19 | LA000035 |
| 36* | 220722.40 | 000010.10 | 30 | | LV,4,\$L | LA000036 |
| 37* | 220723.00 | 000000.33 | 8A | 221003.74 | 00 BZB,S MULTI(\$10),K UNA | LA000037 |
| 38* | 220724.00 | 000000.26 | 3A | | LV,11,0.0(\$10) | LA000038 |
| 39* | 220724.40 | 000000.66 | 8C | | V+,11,0.32(\$12) | LA000039 |
| 40* | 220725.00 | 000000.63 | 8B | 002000.20 | 50 L(BU,2),S MCUNT(\$11) | LA000040 |
| 41* | 220726.00 | 221004.74 | 00 | | BZRZ,K NO GO | LA000041 |
| 42* | 220726.40 * | 000013.47 | 04 | K NI | KVI,3,11.32 | LA000042 |
| 43* | 220727.00 | 220771.32 | 40 | | BZXL,K C OP | LA000043 |
| 44* | 220727.40 | 000000.31 | 8A | 002077.20 | 50 L(BU,2),S CH AVL(\$10),-2 | LA000044 |
| 45* | 220730.40 | 221004.74 | 00 | | BZRZ,K NO GO | LA000045 |
| 46* | 220731.00 | 000000.34 | 8B | 221154.34 | 02 BB,S UN AVL(\$11),Z E1 | LA000046 |
| 47* | 220732.00 | 000000.35 | 8B | 221077.74 | 02 BB,S UN ASG(\$11),K ASIGN | LA000047 |
| 48* | 220733.00 | 000002.07 | 04 | | KVI,3,D CCW | LA000048 |
| 49* | 220733.40 | 220743.32 | 02 | | BXE,K OP OK | LA000048 |
| 50* | 220734.00 | 000000.36 | 8B | 221067.74 | 06 BBZ,S UN SUP(\$11),K 2 INT | LA000049 |
| 51* | 220735.00 | 000000.45 | 30 | K K NI | SV,2,S ACT AD(\$13) | LA000050 |
| 52* | 220735.40 | 000003.33 | 30 | | SV,13,S FI AAC(\$12) | LA000051 |
| 53* | 220736.00 | 000000.67 | 82 | 001000.20 | 50 L(BU,1),.55(\$2) | LA000052 |
| 54* | 220737.00 | 000000.56 | 8B | 001000.20 | 00 ST(BU,1),SSEOP(\$11) | LA000053 |
| 55* | 220740.00 | 400000.00 | 80 | 406000.46 | 70 LFI(BU,6),(2)100000,1 | LA000054 |
| 56* | 220741.00 | 000004.22 | 80 | 007000.20 | 00 ST(BU,7),SCCW+.18(\$13) | LA000055 |

| LINE | LOCATICN | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 220742 |
|------|-------------|---------------|--------------|------------------------|----------------------------------|----------|
| 1* | 220742.00 * | 000003.22 8D | 007000.20 D0 | ST(RU,7),SCW+.18(\$13) | | LA000056 |
| 2* | 220743.00 | 000002.05 05 | K CP OK | V+I,2,2.0 | | LA000057 |
| 3* | 220743.40 | 215265.05 30 | | SV,2,S TIC | | LA000058 |
| 4* | 220744.00 | 777777.14 03 | | BR,-1.0(\$3) | | LA000059 |
| 5* | 220744.40 | 217544.10 00 | | B,Z START | -READ | LA000060 |
| 6* | 220745.00 | 217630.10 C0 | | B,E WR1 | | LA000061 |
| 7* | 220745.40 | 217766.10 00 | | B,B CCW R | | LA000062 |
| 8* | 220746.00 | 220011.10 00 | | B,W REL | -RELEASE | LA000063 |
| 9* | 220746.40 | 220021.50 00 | | B,K S LCC | -LCCATE - DISK ONLY | LA000064 |
| 10* | 220747.00 | 220106.10 C0 | | B,W FC | -FEED CARD - PUNCH ONLY | LA000065 |
| 11* | 220747.40 | 222051.50 00 | | B,B TIF R | -TAPE INDICATOR OFF ROUTINE | LA000066 |
| 12* | 220750.00 | 215630.50 00 | | B,M CP CI | -INVALID OP | LA000067 |
| 13* | 220750.40 | 220115.10 00 | | B,E ELG | -ERASE LONG GAP | LA000068 |
| 14* | 220751.00 | 220120.50 00 | | B,R 1 | -SPACE BLOCK | LA000069 |
| 15* | 220751.40 | 220121.50 00 | | B,R 1+1.0 | -BACKSPACE BLOCK | LA000070 |
| 16* | 220752.00 | 220122.50 C0 | | B,R 1+2.0 | -SPACE FILE | LA000071 |
| 17* | 220752.40 | 220123.50 C0 | | B,R2-.32 | | LA000072 |
| 18* | 220753.00 | 220203.10 C0 | | B,E WT1 | -WRITE TAPE MARK | LA000073 |
| 19* | 220753.40 | 220226.10 00 | | B,Z REW ST | -REWIND | LA000074 |
| 20* | 220754.00 | 220244.10 00 | | B,Z UNLD B | -REWIND AND UNLOAD | LA000075 |
| 21* | 220754.40 | 222053.50 00 | | B,B RLF R | -RESERVED LIGHT OFF ROUTINE | LA000076 |
| 22* | 220755.00 | 222054.50 C0 | | B,B RLN R | -RESERVED LIGHT ON ROUTINE | LA000077 |
| 23* | 220755.40 * | 222055.50 C0 | | B,B KLN R | -CHECK LIGHT ON ROUTINE | LA000078 |
| 24* | 220756.00 | 220245.50 C0 | | B,Z FREE | -FREE REEL AND DRIVE | LA000079 |
| 25* | 220756.40 | 222073.10 00 | | B,W GONG | -SOUND GONG - CONSOLE ONLY | LA000080 |
| 26* | 220757.00 | 220347.50 C0 | | B,K WAIT | -WAIT FOR I/O INTERRUPT | LA000081 |
| 27* | 220757.40 | 220377.10 00 | | B,C CHEX | -CHANGE I/O TABLE OF EXITS | LA000082 |
| 28* | 220760.00 | 220245.50 C0 | | B,Z FREE | -UNASSIGN TAPE UNIT | LA000083 |
| 29* | 220760.40 | 217355.50 C0 | | B,JZIOR | | LA000084 |
| 30* | 220761.00 | 220346.10 C0 | | B,RALLPS | | LA000085 |
| 31* | 220761.40 | 000045.47 04 | KPLUG1 | KVI,3,37.32 | | LA000086 |
| 32* | 220762.00 | 215630.73 42 | | BXH,M CP CI | | LA000087 |
| 33* | 220762.40 | 777740.14 03 | | BR,-32.0(\$3) | | LA000088 |
| 34* | 220763.00 | 220410.50 C0 | | B,K SID | -STACK I/O INTERRUPTS | LA000089 |
| 35* | 220763.40 | 220415.10 00 | | B,K RIO | -RELEASE I/O INTERRUPTS | LA000090 |
| 36* | 220764.00 | 217154.10 00 | | B,C RETN | -RETURN AFTER I/O INTERRUPT | LA000091 |
| 37* | 220764.40 | 217326.10 00 | | B,WRAMPP | -RETURN AFTER MASKABLE | LA000092 |
| 38* | 220765.00 | 220427.50 C0 | | B,K STRG | -STORE IN COMMUNICATION REGION | LA000093 |
| 39* | 220765.40 | 220445.50 00 | | B,K FECRG | -FETCH FROM COMMUNICATION REGION | LA000094 |
| 40* | 220766.00 | 233107.10 00 | | B,ZTIME | | LA000095 |
| 41* | 220766.40 | 233154.10 C0 | | B,JCGMM | | LA000096 |
| 42* | 220767.00 | 217347.50 C0 | | B,JSITX | -SET INTERVAL TIMER | LA000097 |
| 43* | 220767.40 | 220560.10 00 | | B,FFXP | | LA000098 |
| 44* | 220770.00 | 220502.10 00 | | B,TSTLR | | LA000099 |
| 45* | 220770.40 | 220523.50 C0 | | B,TFCHLR | | LA000100 |
| 46* | 220771.00 * | 000020.47 04 | KCCP | KVI,3,16.32 | | LA000101 |
| 47* | 220771.40 | 215630.73 42 | | BXH,MOPCI | | LA000101 |
| 48* | 220772.00 | 777764.54 03 | | BR,-11.32(\$3) | | LA000102 |
| 49* | 220772.40 | 220743.10 C0 | | B,KCPCK | | LA000103 |
| 50* | 220773.00 | 220743.10 00 | | B,KCPCK | | LA000104 |
| 51* | 220773.40 | 220727.50 00 | | B,KNI+1.0 | | LA000105 |
| 52* | 220774.00 | 220743.10 C0 | | B,KCPCK | | LA000106 |
| 53* | 220774.40 | 215630.50 C0 | | B,MCPCI | | LA000107 |
| 54* | 220775.00 | 220325.10 C0 | | B,RFD | | LA000108 |
| 55* | 220775.40 | 220326.10 C0 | | B,RLD | | LA000109 |
| 56* | 220776.00 | 220334.50 00 | | B,REVEN | | LA000110 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 220776 |
|------|-----------|-------------|--------|--------------|--------------------------------|-----------------------------------|----------|
| 1* | 220776.40 | 220335.50 | 00 | | B,RCCD | | LA000111 |
| 2* | 220777.00 | 220340.10 | 00 | | B,RECC | | LA000112 |
| 3* | 220777.40 | 220342.10 | 00 | | B,RNOECC | | LA000113 |
| 4* | 221000.00 | 000014.47 | 04 | K MCP | KVI,3,S FREE | | LA000114 |
| 5* | 221000.40 | 220715.32 | C2 | | BXE,K SCAR-.32 | | LA000115 |
| 6* | 221001.00 | 215003.02 | 80 | | V+,1,S BA MCP | | LA000116 |
| 7* | 221001.40 | 220715.50 | 00 | | B,K SOAR | | LA000117 |
| 8* | 221002.00 | 010004.35 | 01 | Z ICD H | LVI,14,S IOD I | -INVALID ICD REF NO | LA000118 |
| 9* | 221002.40 | 217451.40 | 80 | | SIC,S DISIC | | LA000119 |
| 10* | 221003.00 | 217372.10 | 00 | | B,S DISP | | LA000119 |
| 11* | 221003.40 | 000032.26 | 30 | K UNA | LV,11,\$10 | | LA000120 |
| 12* | 221004.00 | 220726.50 | 00 | | B,K NI | | LA000121 |
| 13* | 221004.40 | * 000010.00 | 80 | 221066.34 02 | K NO GO BB,\$L,K NOT AV | | LA000122 |
| 14* | 221005.40 | 000002.07 | 04 | | KVI,3,2.0 | -IF ICCW, PROCEED | LA000123 |
| 15* | 221006.00 | 220743.32 | C2 | | BXE,K OP CK | | LA000124 |
| 16* | 221006.40 | 000002.47 | 04 | | KVI,3,2.32 | -IF \$REL, PROCEED | LA000125 |
| 17* | 221007.00 | 220735.32 | C2 | | BXE,K K NI | | LA000126 |
| 18* | 221007.40 | 000014.07 | 04 | | KVI,3,D CHEX | -IF \$CHEX, PROCEED | LA000127 |
| 19* | 221010.00 | 220743.32 | C2 | | BXE,K OP CK | | LA000128 |
| 20* | 221010.40 | 000012.47 | 04 | | KVI,3,D FREE | -IF \$FREE, PROCEED | LA000129 |
| 21* | 221011.00 | 220735.32 | C2 | | BXE,K K NI | | LA000130 |
| 22* | 221011.40 | 000015.07 | 04 | | KVI,3,DIODEF | | LA000131 |
| 23* | 221012.00 | 220743.32 | C2 | | BXE,K OPOK | | LA000132 |
| 24* | 221012.40 | 000000.33 | 8A | 221041.34 00 | BZB,SMULTI(\$10),K CHOPN | | LA000133 |
| 25* | 221013.40 | 000000.63 | 8B | 221041.34 00 | BZB,SMOUNT(\$11),KCHOPN | | LA000134 |
| 26* | 221014.40 | 000001.34 | 80 | 032000.20 50 | L(BU,26),\$TC | | LA000135 |
| 27* | 221015.40 | 000001.40 | 8C | 032000.30 10 | -(BU,26),S RMT(\$12) | -COMPUTE TIME LAG | LA000136 |
| 28* | 221016.40 | 770000.00 | 80 | 406000.21 10 | KI(BU,6),Z RMTCC | | LA000137 |
| 29* | 221017.40 | 221041.37 | 40 | | BZAF,KCHOPN | -BRANCH IF TIME NOT ELAPSED | LA000138 |
| 30* | 221020.00 | * 000001.77 | 8C | 221041.34 0E | BDI,SRMIND(\$12),KCHOPN | -BR. IF REMINDER SENT, SET SWITCH | LA000139 |
| 31* | 221021.00 | 000010.56 | 3C | | LV,7,SCREEL(\$12) | | LA000140 |
| 32* | 221021.40 | 000000.65 | 8B | 221023.34 02 | BB,SIMNT(\$11),Z ID06 | -BR. IF REEL SLOT IS ORIG REEL | LA000141 |
| 33* | 221022.40 | 000000.16 | 37 | | LV,7,0.C(\$7) | -GET NEXT REEL SLOT ADDRESS | LA000142 |
| 34* | 221023.00 | 000000.42 | 87 | 036000.06 70 | Z ID06 LF,TRENME(\$7) | -TEST IF REEL IS SCRATCH | LA000143 |
| 35* | 221024.00 | 000027.20 | 30 | | LV,8,\$7 | | LA000144 |
| 36* | 221024.40 | 221063.34 | C2 | | BRZ,ZID14 | -BR. IF SCRATCH | LA000145 |
| 37* | 221025.00 | 221064.56 | 80 | | V+,7,Z RENME | | LA000146 |
| 38* | 221025.40 | 221030.17 | 30 | | SV,7,ZID 10 | | LA000147 |
| 39* | 221026.00 | 222015.00 | 80 | 221055.04 A0 | TI,2,KEXTAP,ZID03 | | LA000148 |
| 40* | 221027.00 | 221030.37 | 01 | | LVI,15,\$+1.0 | | LA000149 |
| 41* | 221027.40 | 230567.50 | 00 | | B,SA6IGS | -CONVERT REEL NAME | LA000150 |
| 42* | 221030.00 | 000000.00+ | | Z ID 10 | VF,0.0 | | LA000151 |
| 43* | 221030.40 | 000005 | | | CF,5 | | LA000152 |
| 44* | 221031.00 | 221056.10+ | | | VF,Z ID 04 | | LA000153 |
| 45* | 221031.40 | 000000.40 | 8B | 221045.74 02 | Z ID09A BB,SOWNER(\$11),Z ID15 | | LA000154 |
| 46* | 221032.40 | 221060.17 | 01 | | LVI,7,ZID04A | | LA000155 |
| 47* | 221033.00 | 221045.00 | 80 | | SIC,ZID09X | | LA000156 |
| 48* | 221033.40 | * 221042.10 | 00 | | B,Z ID09 | -GET JOB NAME | LA000156 |
| 49* | 221034.00 | 000000.32 | 88 | 221047.34 02 | BB,TREPR(\$8),Z ID13 | -BR. IF REEL FILE PROTECTED | LA000157 |
| 50* | 221035.00 | 000011.17 | 01 | Z ID08 | LVI,7,9.0 | | LA000158 |
| 51* | 221035.40 | 221350.00 | 80 | ZID07 | SIC,KCONVR | | LA000159 |
| 52* | 221036.00 | 221335.10 | 00 | | B,KCONV | -CONVERT CH AND UN NUMBERS | LA000159 |
| 53* | 221036.40 | 221053.00+ | | | VF,Z ID 02A | | LA000160 |
| 54* | 221037.00 | 215470.40 | 80 | | SIC,SCOMIC | | LA000161 |
| 55* | 221037.40 | 215470.10 | 00 | | B,SCOMM | | LA000161 |
| 56* | 221040.00 | 221050.00 | 80 | | ,ZID01 | | LA000162 |

| LINE | LOCATICN | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 221040 |
|------|-------------|------------|--------|--------------|--------------------------------|---------------------------------|----------|
| 1* | 221040.40 | 000000.00 | 87 | | ,0.C(\$7) | | LA000162 |
| 2* | 221041.00 | 215265.05 | 30 | K CHOP N | SV,2,S TIC | | LA000163 |
| 3* | 221041.40 | 216242.10 | 00 | | B,K SUPP | -LOOP TO ACTUATED ADDRESS | LA000164 |
| 4* | 221042.00 | 221044.57 | D0 | Z ID09 | SVA,7,Z ID12 | | LA000165 |
| 5* | 221042.40 | 221043.77 | C1 | | LVI,15,\$+1.0 | | LA000166 |
| 6* | 221043.00 | 230567.50 | 00 | | B,SA61QS | -CCNVERT JOB NAME | LA000167 |
| 7* | 221043.40 | 231444.00+ | | | VF,YJCDB1+1.0 | | LA000168 |
| 8* | 221044.00 | CCCC10 | | | CF,8 | | LA000169 |
| 9* | 221044.40 | CC0000.00+ | | Z ID12 | VF,C.0 | | LA000170 |
| 10* | 221045.00 | 000000.10 | 00 | Z ID09X | B,0.0 | | LA000171 |
| 11* | 221045.40 | 221062.00 | 80 | 221060.02 A0 | Z ID 15 | TI,1,Z ID16,Z IDC4A | LA000172 |
| 12* | 221046.40 | 221035.10 | C0 | | B,Z ID08 | | LA000173 |
| 13* | 221047.00 * | 000012.17 | 01 | Z ID 13 | LVI,7,1C.0 | | LA000174 |
| 14* | 221047.40 | 221035.50 | 00 | | B,Z ID 07 | | LA000175 |
| 15* | | | | | CNOP | | LA000176 |
| 16* | 221050.00 | | | Z ID01 | (IQSX)DC(BU),OPERATOR** LOAD X | | LA000177 |
| 17* | 221052.00 | | | Z ID 02 | (IQSX)DD(BU),CHANNEL X | | LA000178 |
| 18* | 221053.00 | | | Z ID02A | (IQSX)DD(BU), UNIT WITH X | | LA000179 |
| 19* | 221055.00 | | | Z ID03 | (IQSX)DC(BU),REEL NO. X | | LA000180 |
| 20* | 221056.10 | | | Z ID04 | (IQSX)DC(BU), JOB X | | LA000181 |
| 21* | 221060.00 | | | Z ID04A | (IQSX)DD(BU), PROTECTX | | LA000182 |
| 22* | 221062.00 * | | | ZID16 | (IQSX)DC(BU), **MCP**X | | LA000183 |
| 23* | 221063.00 | 222013.00 | 80 | 221055.04 A0 | Z ID14 | TI,2,KSCRAC,ZID03 | LA000184 |
| 24* | 221064.00 | 221031.50 | C0 | | B,Z ID09A | | LA000185 |
| 25* | 000000.00+ | +00000077 | | BU,06 ,10 | Z RMTCC | DDI(BU,6),(2)111111 | LA000186 |
| 26* | 221064.40 | CC0000.42+ | | | Z RENME | VF,0.34 | LA000187 |
| 27* | 221065.00 | 000002.05 | 0D | | K C BUSY | V-I,2,2. | LA000188 |
| 28* | 221065.40 | 221041.10 | C0 | | B,K CH CP N | | LA000188 |
| 29* | 221066.00 | 010003.35 | C1 | | K NCT AV | LVI,14,S CH NAV | LA000189 |
| 30* | 221066.40 | 217451.40 | 80 | | SIC,S DISIC | | LA000190 |
| 31* | 221067.00 | 217372.10 | 00 | | B,S DISP | | LA000190 |
| 32* | 221067.40 | 221076.73 | D0 | K2INT | SVA,\$13,RK2INT | | LA000191 |
| 33* | 221070.00 | 000003.32 | 3C | | LV,\$13,SFIAAC(\$12) | | LA000191 |
| 34* | 221070.40 | 221071.43 | C1 | | LVI,\$1,\$+1.0 | | LA000192 |
| 35* | 221071.00 | 222020.10 | C0 | | B,KSERCH | | LA000192 |
| 36* | 221071.40 | 221072.10 | C0 | | B,\$.32 | | LA000193 |
| 37* | 221072.00 | 000002.47 | 04 | | KVI,3,D REL | -IF \$REL OR \$FREE, DISCARD | LA000194 |
| 38* | 221072.40 | 221076.72 | C2 | | BXE,RK2INT | | LA000195 |
| 39* | 221073.00 | 000012.47 | 04 | | KVI,3,D FREE | | LA000196 |
| 40* | 221073.40 | 221076.72 | C2 | | BXE,RK2INT | | LA000197 |
| 41* | 221074.00 | 000014.47 | C4 | | KVI,\$3,SFREE | | LA000198 |
| 42* | 221074.40 | 221076.72 | C2 | | BXE,RK2INT | | LA000198 |
| 43* | 221075.00 | 000001.11 | 8D | 004000.20 50 | L(BU,4),S IG IND(\$13) | -OTHERWISE, TEST IF Q INT IS CS | LA000199 |
| 44* | 221076.00 * | 221157.34 | C0 | | BZRZ,Z E4 | -IF NOT CS, THROW HIM OFF | LA000200 |
| 45* | 221076.40 | 221076.73 | C1 | RK2INT | LVI,\$13,\$ | | LA000201 |
| 46* | 221077.00 | 220735.10 | 00 | | B,K K NI | -IF CS (STRAY), PROCEED | LA000202 |
| 47* | 221077.40 | 000014.47 | C4 | K ASIGN | KVI,3,S FREE | -TEST IF S FREE OP | LA000203 |
| 48* | 221100.00 | 221155.72 | C0 | | BZXE,Z E2 | | LA000204 |
| 49* | 221100.40 | 000001.45 | 05 | | V+I,2,1.32 | | LA000205 |
| 50* | 221101.00 | 215265.05 | 30 | | SV,2,S TIC | -IF SO, NOP | LA000206 |
| 51* | 221101.40 | 216242.10 | C0 | | B,K SUPP | | LA000207 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|---------|---|----------|
| 1* | | | | | - ***** | LB000001 |
| 2* | | | | | -***** CONTROL WORD CHECK *****- | LB000002 |
| 3* | | | | | - ***** | LB000003 |
| 4* | 221102.00 | 221133.01 | D0 | B CWC R | SVA,\$0,JPICK -ADDR OF CW | LB000004 |
| 5* | 221102.40 | 215001.04 | 80 | | BB,SL,JPICK1 -BRANCH IF MCP | LB000005 |
| 6* | 221103.40 | 000020.22 | 80 | | CT0011(BU,7),\$X0+.18 -CHECK IF ADDR. OF CW | LB000006 |
| 7* | 221104.40 | 221143.34 | C0 | | BZRZ,BCWERR | LB000007 |
| 8* | 221105.00 | 215230.00 | 80 | | L(BU,18),SUPPER,46 | LB000008 |
| 9* | 221106.00 | 215230.40 | 80 | | -(BU,18),SLOWER,46 | LB000009 |
| 10* | 221107.00 | 000011.00 | 50 | | LC,\$0,\$R -MAX NO OF CONTROL WORDS | LB000010 |
| 11* | 221107.40 | 000020.02 | 30 | | LV,\$1,\$XC | LB000011 |
| 12* | 221110.00 | 215230.00 | 80 | | L(BU,18),S UPPER -SET BOUNDS IN \$R | LB000012 |
| 13* | 221111.00 * | 215230.40 | 80 | | LF(BU,18),S LOWER,19 | LB000013 |
| 14* | 221112.00 | 000021.00 | 80 | JMORCW | LF(BU,18),\$1,38 -CW ADDR. | LB000014 |
| 15* | 221113.00 | 221142.40 | 80 | | SIC,JADOUT | LB000015 |
| 16* | 221113.40 | 221140.50 | C0 | | B,JADIN | LB000015 |
| 17* | 221114.00 | 000000.02 | 11 | | LX,\$1,0.0(\$1) -ACTUAL CW | LB000016 |
| 18* | 221114.40 | 000021.33 | 80 | | BZB,\$1.27,JJSKP -IF NO SKIP BIT | LB000017 |
| 19* | 221115.40 | 000000.51 | 04 | | KVI,4,.32 | LB000018 |
| 20* | 221116.00 | 221117.72 | C2 | | BXE,JJSKP | LB000019 |
| 21* | 221116.40 | 000001.07 | 04 | | KVI,\$3,1.0 -READ = 1.0 | LB000020 |
| 22* | 221117.00 | 221127.32 | C2 | | BXE,JDISCK | LB000021 |
| 23* | 221117.40 | 000021.00 | 80 | JJSKP | LF(BU,18),\$1,38 -GET 1ST ADDRESS | LB000022 |
| 24* | 221120.40 | 221142.40 | 80 | | SIC,JACOUT | LB000023 |
| 25* | 221121.00 | 221140.50 | C0 | | B,JADIN | LB000023 |
| 26* | 221121.40 | 000026.03 | 50 | | SC,\$1,\$6 -COMPUTE | LB000024 |
| 27* | 221122.00 | 221124.70 | 40 | | BZXCZ,JJSKP1 -LASTADDRESS WHEN UNDER | LB000025 |
| 28* | 221122.40 | 000000.51 | 04 | | KVI,4,.32 -BLOCK CONTROL | LB000026 |
| 29* | 221123.00 | 000021.32 | 80 | | BB,\$1.26,BCW ERR -TEST MULTI BIT | LB000027 |
| 30* | 221124.00 | 221143.32 | C2 | | BXE,BCWERR -BR IF DISK CW IS ZERO | LB000028 |
| 31* | 221124.40 | 000001.15 | 0D | JJSKP1 | V-I,6,1. | LB000029 |
| 32* | 221125.00 * | 000026.00 | 80 | | +(BU,18),\$6,38 -BLOCK CONTROL | LB000030 |
| 33* | 221126.00 | 221142.40 | 80 | | SIC,JADOUT | LB000031 |
| 34* | 221126.40 | 221140.50 | C0 | | B,JADIN | LB000031 |
| 35* | 221127.00 | 000000.51 | 04 | JDISCK | KVI,\$4,.32 -IF DISK, NO | LB000032 |
| 36* | 221127.40 | 221131.72 | C2 | | BXE,JPICK1 -CHAINING | LB000033 |
| 37* | 221130.00 | 000021.03 | 70 | | SR,\$1,\$1 -CHAINED ADDR. | LB000034 |
| 38* | 221130.40 | 221131.63 | 40 | | BZXF,JPICK1 -END OF CHAIN | LB000035 |
| 39* | 221131.00 | 221112.00 | 48 | | CB,\$0,JMORCW | LB000036 |
| 40* | 221131.40 | 000035.00 | 30 | JPICK1 | LV,C,\$13 | LB000037 |
| 41* | 221132.00 | 000003.01 | 05 | | V+I,0,3. | LB000038 |
| 42* | 221132.40 | 000003.41 | 3C | | SV,0,3.32(\$12) -CW ADD IN FET TO LAT | LB000039 |
| 43* | 221133.00 | 221133.00 | 80 | JPICK | LF(BU,64),\$ -INITIAL CW | LB000040 |
| 44* | 221134.00 | 400000.00 | 80 | | LF(BU,6),(2)100000,40 -SET STATUS BITS | LB000041 |
| 45* | 221135.00 | 777776.67 | 82 | | LF(BU,1),-1.09(\$2),39 -SEOP BIT | LB000042 |
| 46* | 221136.00 | 000003.00 | 8D | | SF(BU,64),SCW(\$13) -CW TO FAT SLOTS | LB000043 |
| 47* | 221137.00 | 000004.00 | 8D | | SF(BU,64),SCW(\$13) | LB000044 |
| 48* | 221140.00 | 221140.10 | C0 | BIRA | B,\$ -EXIT PRESET BY SIC | LB000045 |
| 49* | 221140.40 * | 000011.32 | 80 | JADIN | KF(BU,19),SLOWA,38 -TEST ADDR. FOR | LB000046 |
| 50* | 221141.40 | 000011.55 | 80 | | KFR(BU,19),SUPPB,38 -RANGE | LB000047 |
| 51* | 221142.40 | 221142.76 | C2 | JADOUT | BAE,\$ -AE WHEN OK | LB000048 |
| 52* | 221143.00 | 010007.35 | 01 | BCWERR | LVI,\$14,SCWINV | LB000049 |
| 53* | 221143.40 | 217451.40 | 80 | | SIC,S DISIC | LB000050 |
| 54* | 221144.00 | 217372.10 | C0 | | B,S DISP | LB000050 |
| 55* | 000011.32+ | +00000000 | | S LCWA | SYN,\$R.26 | LB000051 |
| 56* | 000011.55+ | +00000000 | | S UPPB | SYN,\$R.45 | LB000052 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|----------|---|----------|
| 1* | | | | - ***** | LC000001 |
| 2* | | | | -***** STATUS EVALUATION *****- | LC000002 |
| 3* | | | | - ***** | LC000003 |
| 4* | 221144.40 * | | | SLC, \$ | LC000004 |
| 5* | 221144.40 | COCC02.54 3C | Z STEVL | LV,6,S EVL MK(\$12) -GET MASK ADDR | LC000005 |
| 6* | 221145.00 | COCC00.00 86 040000.2C 50 | | L(BU,32),0.0(\$6) -LOAD MASK INTO \$R | LC000006 |
| 7* | 221146.00 | COCC00.00 88 000000.03 70 | | CTOC01(BU,64,8),0.0(\$11) -GET LZC ON MASK AND STATUS BITS | LC000007 |
| 8* | 221147.00 | 000007.06 30 | | LV,3,\$LZC -LOAD LZC AS BIT POSITION INDEX FOR | LC000008 |
| 9* | 221147.40 | 000010.00 83 000000.06 FC | | CMOC11(BU,64,8),\$L(\$3) -CONNECT WITH MASK TO GET RESULT AOC | LC000009 |
| 10* | 221150.40 | 000007.46 30 | | LV,3,\$AOC | LC000010 |
| 11* | 221151.00 | COCC02.06 BC | | V+,3,S EVL TB(\$12) -ADD TABLE BASE ADDR | LC000011 |
| 12* | 221151.40 | COCC00.1C C3 | | B,0.0(\$3) | LC000012 |
| 13* | 221152.00 | CC3004.00+ | Z EVL MK | VF,(8)3004. -\$RD MASK - SEL,VER,CONSG | LC000013 |
| 14* | 221152.40 | CC3000.00+ | E MK1A | VF,(8)3000. -\$w AND \$wEF MASK - SEL,VER | LC000014 |
| 15* | 221153.00 | CC3000.00+ | R MASK | VF,(8)3000. -SPACE MASK - SEL,VER | LC000015 |
| 16* | 221153.40 | CC2000.00+ | Z EVL RW | VF,(8)2000. -REW,UNLD,FREE MASK - SEL | LC000016 |
| 17* | 221154.00 | 010003.35 C1 | Z E1 | LVI,14,S UN NAV -UNIT NOT AVAILABLE | LC000017 |
| 18* | 221154.40 | 217451.40 80 | | SIC,S DISIC | LC000018 |
| 19* | 221155.00 | 217372.10 00 | | B,S DISP | LC000018 |
| 20* | 221155.40 | 010004.35 C1 | Z E2 | LVI,14,S UN NAS -UNIT NOT ASSIGNED | LC000019 |
| 21* | 221156.00 | 217451.40 80 | | SIC,S DISIC | LC000020 |
| 22* | 221156.40 | 217372.10 00 | | B,S DISP | LC000020 |
| 23* | 221157.00 | 000402.35 01 | Z E4 | LVI,14,S U SUPP -I/C INTERRUPT STACKED CN UNIT | LC000021 |
| 24* | 221157.40 * | 217451.40 80 | | SIC,S DISIC | LC000022 |
| 25* | 221160.00 | 217372.10 00 | | B,S DISP | LC000022 |
| 26* | 221160.40 | 221065.10 00 | ZE 3 | B,KCBUSY | LC000023 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|--------------|---|----------|
| 1* | | | | - | ***** | LD000001 |
| 2* | | | | | ***** VERIFY ***** | LD000002 |
| 3* | | | | - | ***** | LD000003 |
| 4* | 221161.00 * | | | | SLC,\$ | LD000004 |
| 5* | 221161.00 | 000007.31 | 8C | 221165.74 02 | R VFY BB,S SYSTM(\$12),R RR -TEST IF SYSTEM TAPE | LD000005 |
| 6* | 221162.00 | 000003.01 | 01 | | LVI,0,S TD MCD | LD000006 |
| 7* | 221162.40 | 000007.01 | 3C | | SV,0,S LAB M(\$12) | LD000006 |
| 8* | 221163.00 | 000007.35 | 8C | 001000.00 FO | CM0000(BU,1),S LAB D(\$12) -SET LAB DEN TO HIGH FOR UNLAB TAPES | LD000007 |
| 9* | 221164.00 | 000000.50 | 8B | 001000.00 FO | CM0000(BU,1),S VER(\$11) -IF NON SYSTEM, SKIP VERIFY | LD000008 |
| 10* | 221165.00 | 221144.50 | 00 | | B,Z STEVL | LD000009 |
| 11* | 221165.40 | 000000.01 | 01 | | R RR LVI,0,S INST D -SET UNIT TO INSTALLATION DENS | LD000010 |
| 12* | 221166.00 | 000005.00 | 8C | | SIC,S RET AD(\$12) | LD000011 |
| 13* | 221166.40 | 217674.50 | 00 | | B,K DENST | LD000011 |
| 14* | 221167.00 | 221371.00 | 80 | | SIC,K K IND | LD000012 |
| 15* | 221167.40 | 221370.10 | 00 | | B,K IO IND | LD000012 |
| 16* | 221170.00 | 000002.03 | 01 | | LVI,1,S INST M -SET CHAN TO INSTALLATION MODE | LD000013 |
| 17* | 221170.40 | 217624.40 | 80 | | SIC,K K MODE | LD000014 |
| 18* | 221171.00 | 217615.10 | 00 | | B,K MODE | LD000014 |
| 19* | 221171.40 | 221201.23 | 80 | | LVE,9,RV4 | LD000015 |
| 20* | 221172.00 | 000000.37 | 8B | 001000.36 FO | CM1111(BU,1),S SET UP(\$11) | LD000016 |
| 21* | 221173.00 | 221260.23 | 30 | | SV,9,R RDL | LD000017 |
| 22* | 221173.40 | 000000.30 | 00 | | CNOP | LD000018 |
| 23* | 221174.00 * | 221175.00 | 10 | | LX,C,\$+1.0 | LD000019 |
| 24* | 221174.40 | 000004.01 | 1C | | SX,0,S IO INS(\$12) | LD000019 |
| 25* | 221175.00 | 000000.00 | 8E | 221260.01 00 | RD,C.0(\$14),R RD L -READ LABEL COMMAND | LD000020 |
| 26* | 221176.00 | 221177.03 | 01 | | LVI,1,\$+1.0 | LD000021 |
| 27* | 221176.40 | 221261.10 | 00 | | B,M IO REJ | LD000021 |
| 28* | 221177.00 | 000005.00 | 8C | | SIC,S RET AD(\$12) | LD000022 |
| 29* | 221177.40 | 216242.10 | 00 | | B,K SUPP | LD000022 |
| 30* | 221200.00 | 221371.00 | 80 | | SIC,K K IND | LD000023 |
| 31* | 221200.40 | 221370.10 | 00 | | B,K IO IND -CHECK IF SUCCESSFUL END OP | LD000023 |
| 32* | 221201.00 | 000006.00 | 8C | 000000.20 50 | RV4 L(BU),S SCR PM(\$12) -BRING LABEL WORD INTO \$R | LD000024 |
| 33* | 221202.00 | 000000.50 | 8B | 001000.00 FO | CM0000(BU,1),S VER(\$11) | LD000025 |
| 34* | 221203.00 | 000010.50 | 3C | | LV,4,S C REEL(\$12) | LD000026 |
| 35* | 221203.40 | 000002.40 | 3C | | LV,C,S EVL MK(\$12) | LD000027 |
| 36* | | | | - | *****NOP FOLLOWING COMMAND IF CHECKING***** | LD000028 |
| 37* | | | | - | *****OF MCP REEL LABELS DESIRED***** | LD000029 |
| 38* | 221204.00 | 000000.40 | 8B | 221206.74 02 | BB,SOOWNER(\$11),\$+2.32 | LD000030 |
| 39* | 221205.00 | 000000.42 | 84 | 036621.23 10 | KF(BU,30,6),0.34(\$4),34 -K LAB REEL NO TO CU REEL NO | LD000031 |
| 40* | 221206.00 | 221214.76 | 00 | | BZAE,RV3 SCR -BRANCH IF THEY DO NOT AGREE | LD000032 |
| 41* | 221206.40 | 221152.41 | 04 | | KVI,0,E MK1A | LD000033 |
| 42* | 221207.00 | 217711.32 | 02 | | BXE,K W LABL -IF \$W OR \$WEF, REWRITE LABEL | LD000033 |
| 43* | 221207.40 * | 000000.00 | 80 | 402013.63 10 | KFI(BU,2),0,23 -CHECK LABEL MODE | LD000034 |
| 44* | 221210.40 | 221217.76 | 02 | | BAE,K RELOD | LD000035 |
| 45* | 221211.00 | 000007.20 | 8C | 002013.52 FO | SF(BU,2),S LAB M(\$12),23 -RECORD LABEL MODE | LD000036 |
| 46* | 221212.00 | 000007.35 | 8C | 001016.12 FO | CM0101(BU,1),S LABD(\$12),28 -RECORD LABEL DENSITY | LD000037 |
| 47* | 221213.00 | 221144.41 | 01 | | LVI,0,Z STEVL | LD000038 |
| 48* | 221213.40 | 000006.01 | 3C | | SV,C,S SCRPM(\$12) | LD000038 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 221214 |
|------|-----------|-------------|------------|--------------|---------------|--|----------|
| 1* | 221214.00 | 220156.50 | CC | | B,K SP TM | | LD000040 |
| 2* | 221214.40 | 000000.42 | 84 | 036040.21 10 | RV3 SCR | K(BU,30),.34(\$4),64 | LD000041 |
| 3* | 221215.40 | 221217.76 | CC | | BZAE,K RELOD | | LD000042 |
| 4* | 221216.00 | 221152.41 | 04 | | KVI,0,E MK 1A | | LD000043 |
| 5* | 221216.40 | 220064.32 | CC | | BZXE,K ILEGL | | LD000044 |
| 6* | 221217.00 | 217711.10 | 00 | | B,K W LABL | | LD000045 |
| 7* | 221217.40 | 000000.40 | 8B | 221221.74 02 | KRELOD | BB,SOWNER(\$11),\$+2.C | LD000046 |
| 8* | 221220.40 | 000003.75 | 8C | 221233.74 0E | | BB1,SREMNT(\$12),KBOUNC | LD000047 |
| 9* | 221221.40 | 000024.20 | 30 | | | LV,8,\$4 | LD000048 |
| 10* | 221222.00 | 222001.13 | CI | | | LVI,5,KUNLM | LD000049 |
| 11* | 221222.40 | 222011.17 | CI | | | LVI,\$7,ZUNLC2 | LD000050 |
| 12* | 221223.00 | * 221045.00 | 80 | | | SIC,ZIDC9X | LD000051 |
| 13* | 221223.40 | 221042.10 | 00 | | | B,ZIDC9 | LD000051 |
| 14* | 221224.00 | 000011.17 | 01 | | | LVI,\$7,9.0 | LD000052 |
| 15* | 221224.40 | 222017.44 | 30 | | | LV,\$2,KULMES | LD000053 |
| 16* | 221225.00 | 233666.04 | 80 | 001000.C6 7C | | LF(BU,1),JIOBSY | LD000054 |
| 17* | 221226.00 | 233666.00 | 80 | 001000.12 FC | | SF(BU,1),JWAIT | LD000055 |
| 18* | 221227.00 | 221766.00 | 80 | | | SIC,K NEW TP | LD000056 |
| 19* | 221227.40 | 221743.10 | 00 | | | B,K RITE T | LD000056 |
| 20* | 221230.00 | 216242.01 | 01 | | | LVI,0,K SUPP | LD000057 |
| 21* | 221230.40 | 221766.01 | 00 | | | SVA,0,K NEW TP | LD000057 |
| 22* | 221231.00 | 221325.40 | 80 | | | SIC,K UNR R | LD000058 |
| 23* | 221231.40 | 221321.50 | 00 | | | B,K K LCCP | LD000058 |
| 24* | 221232.00 | 221313.40 | 80 | | | SIC,K CBJ R | LD000059 |
| 25* | 221232.40 | 221302.50 | 00 | | | B,K CLEAR | LD000059 |
| 26* | 221233.00 | 221165.50 | 00 | | | B,R RR | LD000060 |
| 27* | 221233.40 | 221237.03 | 01 | | K BOUNC | LVI,1,K LETTR | LD000061 |
| 28* | 221234.00 | 000000.42 | 84 | 036600.C6 7C | | LF(BU,30,6),.34(\$4) | LD000062 |
| 29* | 221235.00 | 221250.50 | 80 | 050000.2C CC | | ST(BU,40),K DRAG | LD000063 |
| 30* | 221236.00 | 221546.50 | 00 | | | B,J GETCF | LD000064 |
| 31* | 221236.40 | * 000000.30 | 00 | | | CNOP | LD000065 |
| 32* | 221237.00 | | | | K LETTR | (A*)DD(BU),1YOUR JOB HAS BEEN TERMINATED BECAUSE THE * | LD000066 |
| 33* | 221244.20 | | | | | (A*)DD(BU),OPERATOR COULD NOT LOCATE REEL NO. * | LD000067 |
| 34* | 221250.50 | * 221250.50 | | | K DRAG | (A*)DD(BU), | LD000068 |
| 35* | 221255.50 | | | | | (A*)DD(BU), | LD000069 |
| 36* | 221260.00 | 221260.00+ | CCC 000001 | 221260 | R RDL | XW,\$,1.C,\$ | LD000070 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------------------------|-----------|---|----------|
| 1* | | | - | ***** | LE000001 |
| 2* | | | - | ***** I/O REJECT TEST ***** | LE000002 |
| 3* | | | - | ***** | LE000003 |
| 4* | 221261.00 * | | | SLC,5 | LE000004 |
| 5* | | | - | CALLING SEQUENCE ** LVI,1,RETURN#B,M IO REJ | LE000005 |
| 6* | | | - | RETURN (I/O ACCEPTED) | LE000006 |
| 7* | | | - | CONDITION ** I/O COMMAND IN S IO INS(\$12) | LE000007 |
| 8* | | | - | | LE000008 |
| 9* | 221261.00 | 221262.43 46 | M IO REJ | BEKJZ,K RETRY-.32 | LE000009 |
| 10* | 221261.40 | 221262.43 C6 | | BUNRJZ,K RETRY-.32 | LE000010 |
| 11* | 221262.00 | C00000.04 45 | | BZCEJZ,C.0(\$1) | LE000011 |
| 12* | 221262.40 | C00036.27 C2 | | LCI,11,30 | LE000012 |
| 13* | 221263.00 | 000004.00 1C | K RETRY | LX,0,S IO INS(\$12) | LE000013 |
| 14* | 221263.40 | 000000.30 00 | | CNOP | LE000014 |
| 15* | 221264.00 | C00036.03 02 | | LCI,1,K REP | LE000015 |
| 16* | 221264.40 | 221265.01 10 | | SX,C,5.32 | LE000016 |
| 17* | 221265.00 | C00000.00+ C00 000000 C00000 | | XW,C | LE000017 |
| 18* | 221266.00 | 221267.43 44 | | BZEKJZ,\$+1.32 | LE000018 |
| 19* | 221266.40 | 221265.02 48 | | CB,1,\$-1.32 | LE000019 |
| 20* | 221267.00 | 221300.10 C0 | | B,K REJT | LE000019 |
| 21* | 221267.40 | 221263.05 C1 | | LVI,2,K RETRY | LE000020 |
| 22* | 221270.00 | 221272.43 C4 | | BZUNRJZ,K K CBJ | LE000021 |
| 23* | 221270.40 | 221760.03 04 | | KVI,1,K FIRE+2.0 | LE000022 |
| 24* | 221271.00 | C00001.32 C3 | | BXE,1.0(\$1) | LE000023 |
| 25* | 221271.40 | 221325.45 D0 | | SVA,2,K UNR R | LE000024 |
| 26* | 221272.00 | 221314.10 00 | | B,K UNR | LE000025 |
| 27* | 000000.00+ | +00000036 | BU,22 ,10 | SYN(BU,18),30 | LE000026 |
| 28* | 221272.40 | C00000.04 45 | K K CBJ | BZCEJZ,C.0(\$1) | LE000027 |
| 29* | 221273.00 | 221313.45 D0 | | SVA,2,K CBJ R | LE000028 |
| 30* | 221273.40 | 221275.50 00 | | B,K CBJ | LE000029 |
| 31* | 221274.00 * | 003405.35 01 | K SOS | LVI,14,S IO ERR | LE000030 |
| 32* | 221274.40 | 217451.40 80 | | SIC,S DISIC | LE000031 |
| 33* | 221275.00 | 217372.10 00 | | B,S DISP | LE000031 |
| 34* | | | - | | LE000032 |
| 35* | | | - | ***** CHANNEL BUSY REJECT ***** | LE000033 |
| 36* | | | - | | LE000034 |
| 37* | | | - | CALLING SEQUENCE ** SIC,K CBJ R/B,K CBJ | LE000035 |
| 38* | | | - | | LE000036 |
| 39* | 221275.40 | 000036.03 C2 | K CBJ | LCI,1,K REP | LE000037 |
| 40* | 221276.00 | C00000.00 8E 221326.21 CC | | CCW,0.0(\$14),K K CCW | LE000038 |
| 41* | 221277.00 | 221301.43 44 | | BZEKJZ,\$+2.32 | LE000039 |
| 42* | 221277.40 | 221276.02 48 | | CB,1,K CBJ.32 | LE000040 |
| 43* | 221300.00 | 003406.35 C1 | K REJT | LVI,14,S REJ | LE000041 |
| 44* | 221300.40 | 217451.40 80 | | SIC,S DISIC | LE000042 |
| 45* | 221301.00 | 217372.10 00 | | B,S DISP | LE000042 |
| 46* | 221301.40 | 221326.27 80 221274.34 00 | | BZB,K K CCW+.23,K SOS | LE000043 |
| 47* | | | - | ***** CLEAR CONTROL WORD ***** | LE000044 |
| 48* | | | - | | LE000045 |
| 49* | | | - | CALLING SEQUENCE ** SIC,K CBJ R#B,K CLEAR | LE000046 |
| 50* | | | - | | LE000047 |
| 51* | 221302.40 | 000036.03 C2 | K CLEAR | LCI,1,K REP | LE000048 |
| 52* | 221303.00 | 000000.00 8E 000000.33 00 | | REL(SECP),0.0(\$14) | LE000049 |
| 53* | 221304.00 | 221305.43 44 | | BZEKJZ,\$+1.32 | LE000050 |
| 54* | 221304.40 | 221303.02 48 | | CB,1,\$-1.32 | LE000051 |
| 55* | 221305.00 | 221300.10 C0 | | B,K REJT | LE000051 |
| 56* | 221305.40 | 000000.33 8A 221307.74 00 | | BZB,SMULTI(\$10),KSEQL | LE000052 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 221306 |
|------|-------------|---------------|--------|----------|--|----------|----------|
| 1* | 221306.40 | 216272.40 | 80 | | SIC,K ST CS | | LE000053 |
| 2* | 221307.00 | 216267.10 | 00 | | B,K CS IN | | LE000053 |
| 3* | 221307.40 * | 000036.03 | 02 | K SEUCL | -STACK CHANNEL SIGNAL | | LE000054 |
| 4* | 221310.00 | 000000.00 | 8E | | LCI,1,K REP | | LE000055 |
| 5* | 221311.00 | 221312.43 | 44 | | -CHECK FOR END OP OF REL | | LE000056 |
| 6* | 221311.40 | 221310.02 | 48 | | CCW,0.0(\$14),K K CCW | | LE000057 |
| 7* | 221312.00 | 221300.10 | 00 | | BZEKJZ,\$+1.32 | | LE000057 |
| 8* | 221312.40 | 221326.30 | 80 | | CB,1,\$-1.32 | | LE000058 |
| 9* | 221313.40 | 221263.10 | 00 | K CBJ R | B,K REJT | | LE000059 |
| 10* | | | | | -IF 3 EKJ, GIVE UP | | LE000060 |
| 11* | | | | | BB,K K CCW+.24,K SEUCL | | LE000061 |
| 12* | | | | | -IF SEOP BIT ON, LOOP | | LE000062 |
| 13* | | | | | B,K RETRY | | LE000063 |
| 14* | | | | | -CTL WORD CLEARED FOR RETRY | | LE000064 |
| 15* | 221314.00 | 221350.00 | 80 | K UNR | | | LE000065 |
| 16* | 221314.40 | 221335.10 | 00 | | SIC,K CONV R | | LE000065 |
| 17* | 221315.00 | 221333.00+ | | | B,K CONV | | LE000066 |
| 18* | 221315.40 | 233666.04 | 80 | | -CONVERT CHAN + UNIT NO TO IQS | | LE000067 |
| 19* | 221316.40 | 233666.00 | 80 | | VF,K NN | | LE000068 |
| 20* | 221317.40 | 215470.40 | 80 | | LF(BU,1),JICBSY | | LE000069 |
| 21* | 221320.00 | 215470.10 | 00 | | SF(BU,1),JWAIT | | LE000069 |
| 22* | 221320.40 | 221327.00 | 80 | | SIC,S COMIC | | LE000070 |
| 23* | 221321.00 | 000006.00 | 80 | | B,S COMM | | LE000070 |
| 24* | 221321.40 | 000036.03 | 02 | K K LOOP | -CALL COMMENTATOR | | LE000071 |
| 25* | 221322.00 | 000000.00 | 8E | | ,K SERV M | | LE000072 |
| 26* | 221323.00 * | 221324.43 | 44 | | ,6. | | LE000073 |
| 27* | 221323.40 | 221322.02 | 48 | | -LOCATION + LENGTH OF MESSAGE | | LE000074 |
| 28* | 221324.00 | 221300.10 | 00 | | -WAIT FOR UNIT TO BECOME READY | | LE000075 |
| 29* | 221324.40 | 221326.22 | 80 | | LCI,1,K REP | | LE000076 |
| 30* | 221325.40 | 221325.50 | 00 | K UNR R | CCW,0.0(\$14),K K CCW | | LE000077 |
| 31* | 221326.00 | 000000.00+ | 000 | K K CCW | BZEKJZ,\$+1.32 | | LE000078 |
| 32* | 221327.00 | 000000 000000 | | K SERV M | CB,1,\$-1.32 | | LE000079 |
| 33* | 221333.00 | | | K NN | B,K REJT | | LE000080 |
| 34* | | | | | -IF REPEATED EKJ, GIVE UP | | LE000081 |
| 35* | | | | | BZB,K K CCW.18,K K LOOP | | LE000082 |
| 36* | | | | | -CHECK UNR STATUS BIT | | LE000083 |
| 37* | | | | | B,\$ | | LE000084 |
| 38* | 221335.00 | 221326.03 | 10 | K CONV | -IF UNR ON, ALLS WELL | | LE000085 |
| 39* | 221335.40 | 000000.14 | 80 | | XW,C | | LE000086 |
| 40* | 221336.40 * | 221350.03 | 80 | | (IQSX)DD(BU,64),*** OPERATOR *** READY CHANNEL X | | LE000087 |
| 41* | 221337.00 | 000011.70 | 80 | | (IQSY)DD(BU,64), UNIT . Y | | LE000088 |
| 42* | 221340.00 | 000011.77 | 80 | | VF, LOC OF CHAN NO (IGS) | | LE000089 |
| 43* | 221341.00 | 300600.00 | 80 | | | | LE000090 |
| 44* | 221342.00 | 000000.02 | 31 | | | | LE000091 |
| 45* | 221342.40 | 000000.00 | 81 | | | | LE000092 |
| 46* | 221343.40 | 000000.57 | 80 | | | | LE000093 |
| 47* | 221344.40 | 300600.00 | 80 | | | | LE000094 |
| 48* | 221345.40 | 000001.00 | 81 | | | | LE000095 |
| 49* | 221346.40 | 221326.02 | 10 | | | | LE000096 |
| 50* | 221347.00 | 221350.00 | 80 | | | | LE000097 |
| 51* | 221350.00 | 221350.10 | 00 | K CONV R | B,\$ | | LE000097 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|----------|--|----------|
| 1* | | | | ***** | LF000001 |
| 2* | | | | ***** ECP TEST FOR SEOP TYPE I/O ***** | LF000002 |
| 3* | | | | ***** | LF000003 |
| 4* | | | | CALLING SEQUENCE ** SIC,K EOP R+B,K SEOP T | LF000004 |
| 5* | | | | | LF000005 |
| 6* | 221350.40 | 000036.03 02 | K SEOP T | LCI,1,K REP | LF000006 |
| 7* | 221351.00 | 000000.00 8E 221367.21 00 | | CCW,0.0(\$14),K WS | LF000007 |
| 8* | 221352.00 * | 221353.43 44 | | BZEKJZ,\$+1.32 | LF000008 |
| 9* | 221352.40 | 221351.02 48 | | CB,1,\$-1.32 | LF000009 |
| 10* | 221353.00 | 221300.10 00 | | B,K REJT | LF000009 |
| 11* | 221353.40 | 221367.23 80 006000.20 50 | | L(BU,6),K WS.19 -TEST STATUS INDICATORS | LF000010 |
| 12* | 221354.40 | 221354.74 02 | K ECP R | BRZ,\$ -IF NONE ON, ALLS WELL | LF000011 |
| 13* | 221355.00 | 221367.30 80 221350.74 02 | | BB,K WS.24,K SEOP T -IF SEOP BIT ON, LOOP | LF000012 |
| 14* | 221356.00 | 750000.00 80 406000.02 70 | | CI0001(BU,6),(.5,2)111101 -TEST IF ONLY CS IS ON | LF000013 |
| 15* | 221357.00 | 221354.74 02 | | BRZ,K ECP R -IF SO, ALLS WELL | LF000014 |
| 16* | 221357.40 | 221367.25 80 221365.34 00 | | BZR,KWS.21,ZTSEOP | LF000015 |
| 17* | 221360.40 | 221364.43 00 | | SVA,\$1,RSVRTN | LF000016 |
| 18* | 221361.00 | 221313.40 80 | | SIC,KCBJR | LF000017 |
| 19* | 221361.40 | 221302.50 00 | | B,KCLEAR | LF000017 |
| 20* | 221362.00 | 221354.43 80 | | LVE,\$1,KEOPR | LF000018 |
| 21* | 221362.40 | 220046.03 04 | | KVI,\$1,ZLGCXX | LF000019 |
| 22* | 221363.00 | 000000.32 03 | | BXE,(\$1) | LF000019 |
| 23* | 221363.40 | 217624.43 04 | | KVI,\$1,KKMODE | LF000020 |
| 24* | 221364.00 | 000000.32 03 | | BXE,(\$1) | LF000020 |
| 25* | 221364.40 | 221364.43 01 | RSVRTN | LVI,\$1,\$ | LF000021 |
| 26* | 221365.00 | 221274.26 4A | ZTSEOP | CBZ,\$11,KSQS | LF000022 |
| 27* | 221365.40 * | 221313.40 80 | | SIC,K CBJ R | LF000023 |
| 28* | 221366.00 | 221302.50 00 | | B,K CLEAR -CLEAR CONTROL WORD FOR RETRY | LF000023 |
| 29* | 221366.40 | 221263.10 00 | | B,K RETRY | LF000024 |
| 30* | | | | CNOP | LF000025 |
| 31* | 221367.00 * | 000001.00 | KWS | DRZ(N),(1) | LF000026 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|--|----------|
| 1* | | | | - ***** | LG000001 |
| 2* | | | | -***** I/O INDICATOR CHECK *****- | LG000002 |
| 3* | | | | - ***** | LG000003 |
| 4* | 221370.00 | | | SLC,\$ | LG000004 |
| 5* | | | | - | LG000005 |
| 6* | | | | CALLING SEQUENCE ** SIC,K K IND#B,K IO IND | LG000006 |
| 7* | | | | - | LG000007 |
| 8* | 221370.00 | 000001.11 8D | 002000.20 50 | K IO IND L(BU,2),S IO IND(\$13) | LG000008 |
| 9* | 221371.00 | 221371.34 C2 | | K K IND BRZ,\$ | LG000009 |
| 10* | 221371.40 | 221371.05 80 | | LVE,2,K K IND | LG000010 |
| 11* | 221372.00 | 220171.45 04 | | KVI,2,K FIL K1 | LG000011 |
| 12* | 221372.40 | 221424.32 C2 | | BXE,K K SPAC | LG000012 |
| 13* | 221373.00 | 217746.45 04 | | KVI,2,K KF DEN | LG000013 |
| 14* | 221373.40 | 221421.72 C2 | | BXE,K LABEL | LG000014 |
| 15* | 221374.00 | 221201.05 04 | | KVI,2,R V4 | LG000015 |
| 16* | 221374.40 | 221405.32 C2 | | BXE,K R READ | LG000016 |
| 17* | 221375.00 | 217757.45 04 | | KVI,2,K WL TMK | LG000017 |
| 18* | 221375.40 | 221444.72 C2 | | BXE,K R WEF | LG000018 |
| 19* | 221376.00 | 000036.05 02 | | K REPET LCI,2,K REP | LG000019 |
| 20* | 221376.40 | 000004.00 1C | | LX,C,S IO INS(\$12) | LG000020 |
| 21* | 221377.00 | 000020.64 80 | 001000.36 FO | CM1111(BU,1), \$0.52 | LG000021 |
| 22* | 221400.00 | 221512.40 80 | | SIC,K K RET | LG000022 |
| 23* | 221400.40 | 221505.10 C0 | | B,K IO REJ -AND RETRY | LG000022 |
| 24* | 221401.00 | 221402.03 C1 | | LVI,1,\$+1.0 | LG000023 |
| 25* | 221401.40 | 221525.10 C0 | | B,J SECP T -CHECK TERMINATION | LG000023 |
| 26* | 221402.00 | 221274.10 00 | | B,K SGS -EPGK - GIVE UP | LG000024 |
| 27* | 221402.40 | 221404.10 00 | | B,K CCUNT -UK | LG000025 |
| 28* | 221403.00 * | 221274.10 00 | | B,K SGS -EE - IMPOSSIBLE | LG000026 |
| 29* | 221403.40 | 221422.50 00 | | B,K K EXIT -SUCCESSFUL END | LG000027 |
| 30* | 221404.00 | 221376.44 48 | | K CCUNT CB,2,K REPET.32 | LG000028 |
| 31* | 221404.40 | 221274.10 00 | | B,K SGS -TRY KREP TIMES BEFORE GIVING UP | LG000028 |
| 32* | 221405.00 | 000036.05 02 | | K R READ LCI,2,K REP | LG000029 |
| 33* | 221405.40 | 221520.40 80 | | SIC,J BSP X | LG000030 |
| 34* | 221406.00 | 221514.10 00 | | B,J BSP E -BACKSPACE TO LOAD POINT | LG000030 |
| 35* | 221406.40 | 000004.00 1C | | K R NEW LX,C,S IO INS(\$12) | LG000031 |
| 36* | 221407.00 | 000020.64 80 | 001000.36 FO | CM1111(BU,1), \$0.52 | LG000032 |
| 37* | 221410.00 | 221201.23 80 | | LVE,9,RV4 | LG000033 |
| 38* | 221410.40 | 221260.23 30 | | SV,9,R RDL | LG000033 |
| 39* | 221411.00 | 221512.40 80 | | SIC,K K RET | LG000034 |
| 40* | 221411.40 | 221505.10 C0 | | B,K IO REJ -AND RETRY | LG000034 |
| 41* | 221412.00 | 221413.03 C1 | | LVI,1,\$+1.0 | LG000035 |
| 42* | 221412.40 | 221525.10 00 | | B,J SECP T -CHECK TERMINATION | LG000035 |
| 43* | 221413.00 | 221274.10 00 | | B,K SGS -EPGK - GIVE UP | LG000036 |
| 44* | 221413.40 | 221415.10 00 | | B,K R UK -UK | LG000037 |
| 45* | 221414.00 | 221420.50 00 | | B,K R EE -EE | LG000038 |
| 46* | 221414.40 | 221422.50 00 | | B,K K LXIT -SUCCESSFUL END | LG000039 |
| 47* | 221415.00 | 221405.44 48 | | K R UK CB,2,K R READ.32 | LG000040 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 221415 |
|------|-------------|---------------|--------------|---------------------------|------------------------------------|----------|
| 1* | 221415.40 | 000011.77 80 | 221274.34 00 | BZB,\$R.63,K SOS | -IF UK ALONE, MACHINE ERROR | LG000042 |
| 2* | 221416.40 * | 221614.00 80 | K NEW T | SIC,J NEW T | | LG000043 |
| 3* | 221417.00 | 221541.10 00 | | B,J NEW TE | -IF UK + EOP, BAD TAPE | LG000043 |
| 4* | 221417.40 | 000003.05 02 | | LC1,2,3 | | LG000044 |
| 5* | 221420.00 | 221406.50 00 | | B,K R NEW | -NEW TAPE IS READY | LG000044 |
| 6* | 221420.40 | 221405.44 48 | KREE | CB,2,KRREAD.32 | | LG000045 |
| 7* | 221421.00 | 221416.50 00 | | B,KNEW T | | LG000045 |
| 8* | 221421.40 | 221660.00 80 | K LABEL | SIC,JWRITX | | LG000046 |
| 9* | 221422.00 | 221622.10 00 | | B,JWRITL | -RETRY WRITE LABEL | LG000046 |
| 10* | 221422.40 | 000000.00 80 | 010000.00 70 | K K EXIT COOCO(BU,8),, | | LG000047 |
| 11* | 221423.40 | 221371.10 00 | | B,K K IND | | LG000047 |
| 12* | 221370.00+ | +00000000 | BU,100,10 | E IC IND SYN,K IC IND | | LG000048 |
| 13* | 221371.00+ | +00000000 | BU,40,10 | E IND R SYN,K K IND | | LG000049 |
| 14* | | | | - | | LG000050 |
| 15* | | | | - | ***** RETRY FOR SPACEFILE OP ***** | LG000051 |
| 16* | | | | - | | LG000052 |
| 17* | 221424.00 | 000036.05 02 | K K SPAC | LC1,2,K REP | | LG000053 |
| 18* | 221424.40 | 000136.05 01 | | LVI,2,(8)136. | -REWIND TAPE | LG000054 |
| 19* | 221425.00 | 221475.00 10 | | LX,C,K CTL CM | | LG000055 |
| 20* | 221425.40 | 221502.00 80 | | SIC,K SECP R | | LG000056 |
| 21* | 221426.00 | 221476.10 00 | | B,K K ECP | | LG000056 |
| 22* | 221426.40 | 221325.40 80 | | SIC,K LNR R | | LG000057 |
| 23* | 221427.00 | 221321.50 00 | | B,K K LCCP | -WAIT FOR END OP REW | LG000057 |
| 24* | 221427.40 | 221313.40 80 | | SIC,K CBJ R | | LG000058 |
| 25* | 221430.00 | 221302.50 00 | | B,K CLEAR | -CLEAR CONTROL WORD | LG000058 |
| 26* | 221430.40 | 000000.03 01 | | LVI,1,S INST D | -SET UNIT TO INSTALLATION DENS | LG000059 |
| 27* | 221431.00 | 221474.40 80 | | SIC,K DEN OK | | LG000060 |
| 28* | 221431.40 | 221466.10 00 | | B,K K DENS | | LG000060 |
| 29* | 221432.00 * | 000076.05 01 | | LVI,2,(8)76. | -SPACEBLOCK | LG000061 |
| 30* | 221432.40 | 221502.00 80 | | SIC,K SECP R | | LG000062 |
| 31* | 221433.00 | 221476.10 00 | | B,K K ECP | | LG000062 |
| 32* | 221433.40 | 000002.33 8D | 001027.20 50 | L(BU,1),S F DEN(\$13),46 | -SET UNIT TO FILE DENSITY | LG000063 |
| 33* | 221434.40 | 000011.02 30 | | LV,1,\$R | | LG000064 |
| 34* | 221435.00 | 221474.40 80 | | SIC,K DEN OK | | LG000065 |
| 35* | 221435.40 | 221466.10 00 | | B,K K DENS | | LG000065 |
| 36* | 221436.00 | 000077.05 01 | | LVI,2,(8)77. | -RETRY SPACEFILE | LG000066 |
| 37* | 221436.40 | 221512.40 80 | | SIC,K K RET | | LG000067 |
| 38* | 221437.00 | 221505.10 00 | | B,K IC REJ | | LG000067 |
| 39* | 221437.40 | 221440.43 01 | | LVI,1,\$+1.0 | | LG000068 |
| 40* | 221440.00 | 221525.10 00 | | B,J SECP T | -CHECK TERMINATION | LG000068 |
| 41* | 221440.40 | 221443.50 00 | | B,K SOS SP | -EPGK - GIVE UP AFTER 3 TRIES | LG000069 |
| 42* | 221441.00 | 221442.50 00 | | B,RKI | | LG000070 |
| 43* | 221441.40 | 221422.50 00 | | B,K K EXIT | -EE - SUCCESSFUL END | LG000071 |
| 44* | 221442.00 | 221422.50 00 | | B,K K EXIT | -EOP - IMPOSSIBLE | LG000072 |
| 45* | 221442.40 | 000011.77 80 | 221274.34 00 | RK1 BZB,\$R.63,K SOS | | LG000073 |
| 46* | 221443.40 | 221424.44 48 | | K SOS SP CB,2,K K SPAC.32 | | LG000074 |
| 47* | 221444.00 | 221274.10 00 | | B,K SCS | | LG000074 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|---|----------|
| 1* | | | - | | LG000076 |
| 2* | | | - | ***** RETRY FOR WRITE TAPE MARK CP ***** | LG000077 |
| 3* | | | - | | LG000078 |
| 4* | 221444.40 | 000036.05 02 | K R WEF | LCI,2,K REP | LG000079 |
| 5* | 221445.00 | 000136.05 01 | | LVI,2,(8)136. -REWIND TAPE | LG000080 |
| 6* | 221445.40 * | 221475.00 10 | | LX,C,K CTL CM | LG000081 |
| 7* | 221446.00 | 221502.00 80 | | SIC,K SECP R | LG000082 |
| 8* | 221446.40 | 221476.10 00 | | B,K K ECP | LG000082 |
| 9* | 221447.00 | 221325.40 80 | | SIC,K UNR R | LG000083 |
| 10* | 221447.40 | 221321.50 00 | | B,K K LOOP -WAIT FOR END CP REW | LG000083 |
| 11* | 221450.00 | 221313.40 80 | | SIC,K CBJ R | LG000084 |
| 12* | 221450.40 | 221302.50 00 | | B,K CLEAR -CLEAR CONTROL WORD | LG000084 |
| 13* | 221451.00 | 000000.03 01 | | LVI,1,S INST D -SET UNIT TO INSTALLATION DENS | LG000085 |
| 14* | 221451.40 | 221474.40 80 | | SIC,K DEN OK | LG000086 |
| 15* | 221452.00 | 221466.10 00 | | B,K K DENS | LG000086 |
| 16* | 221452.40 | 000021.00 80 | 221730.06 AC | TI,3,\$1,J PREV X | LG000087 |
| 17* | 221453.40 | 221660.00 80 | | SIC,J WRIT X | LG000088 |
| 18* | 221454.00 | 221644.50 00 | | B,J R WRIT -ERASE LONG GAP + REWRITE LABEL | LG000088 |
| 19* | 221454.40 | 000002.33 8D | 001027.20 50 | L(BU,1),S F DEN(\$13),46 -SET UNIT TO FILE DENSITY | LG000089 |
| 20* | 221455.40 | 000011.02 30 | | LV,1,\$R | LG000090 |
| 21* | 221456.00 | 221474.40 80 | | SIC,K DEN OK | LG000091 |
| 22* | 221456.40 | 221466.10 00 | | B,K K DENS | LG000091 |
| 23* | 221457.00 | 000117.05 01 | | LVI,2,(8)117. -RETRY WEF CP | LG000092 |
| 24* | 221457.40 | 221475.00 10 | | LX,C,K CTL CM | LG000093 |
| 25* | 221460.00 | 221512.40 80 | | SIC,K K RET | LG000094 |
| 26* | 221460.40 | 221505.10 00 | | B,K IO REJ | LG000094 |
| 27* | 221461.00 * | 221462.03 01 | | LVI,1,\$+1.0 | LG000095 |
| 28* | 221461.40 | 221525.10 00 | | B,J SECP T -CHECK TERMINATION | LG000095 |
| 29* | 221462.00 | 221465.10 00 | | B,K SOS TM -EPGK - GIVE UP AFTER 3 TRIES | LG000096 |
| 30* | 221462.40 | 221464.10 00 | | B,RK2 | LG000097 |
| 31* | 221463.00 | 221274.10 00 | | B,K SCS -EE - VERY SHORT TAPE | LG000098 |
| 32* | 221463.40 | 221422.50 00 | | B,K K EXIT -SUCCESSFUL END | LG000099 |
| 33* | 221464.00 | 000011.77 80 | 221274.34 00 | RK2 BZB,\$R.63,K SCS | LG000100 |
| 34* | 221465.00 | 221445.04 48 | | K SCS TM CB,2,K R WEF.32 | LG000101 |
| 35* | 221465.40 | 221274.10 00 | | B,K SCS | LG000101 |
| 36* | | | | | LG000102 |
| 37* | | | | ***** DENSITY CHECK ***** | LG000103 |
| 38* | | | | | LG000104 |
| 39* | | | | | LG000105 |
| 40* | | | | CALLING SEQUENCE ** LVI,1,DEN CODE (0 - HIGH, 1.0 - LOW) | LG000106 |
| 41* | | | | SIC,K DEN OK+B,K K DENS | LG000107 |
| 42* | | | | | LG000108 |
| 43* | 221466.00 | 000000.61 88 | 001027.20 50 | K K DENS L(BU,1),S U DENS(\$11),46 -TEST IF UNIT SET TO DESIRED DEN | LG000109 |
| 44* | 221467.00 | 000011.02 90 | | KV,1,\$R | LG000110 |
| 45* | 221467.40 | 221474.72 C2 | | BXE,K DEN OK | LG000111 |
| 46* | 221470.00 | 221471.74 C2 | | BRZ,K LOW -IF NOT SEE WHATS DESIRED | LG000112 |
| 47* | 221470.40 | 000036.05 01 | | LVI,2,(8)36. -HIGH DENSITY DESIRED | LG000113 |
| 48* | 221471.00 | 221472.10 00 | | B,\$+1.0 | LG000114 |
| 49* | 221471.40 | 000037.05 01 | | K LOW LVI,2,(8)37. -LOW DENSITY DESIRED | LG000115 |
| 50* | 221472.00 | 000000.61 88 | 001000.30 F0 | CM1100(BU,1),S U DENS(\$11) -SET UNIT DENSITY BIT IN UST | LG000116 |
| 51* | 221473.00 | 221475.00 10 | | LX,C,K CTL CM | LG000117 |
| 52* | 221473.40 | 221502.00 80 | | SIC,K SECP R | LG000118 |
| 53* | 221474.00 | 221476.10 00 | | B,K K ECP | LG000118 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 221474 |
|------|-------------|------------------------------|---------------------------------------|--|----------|--------|
| 1* | 221474.40 * | 221474.50 C0 | K DEN OK B,\$ | -DENSITY SET | LG000120 | |
| 2* | 221475.00 | 000000.00 8E 000000.15 02 | K CTL CM CTL(SECP),0.0(\$14),0.0(\$2) | | LG000121 | |
| 3* | | | - | | LG000122 | |
| 4* | | | - | ***** EOP TEST FOR SECP CTL CP ***** | LG000123 | |
| 5* | | | - | | LG000124 | |
| 6* | | | - | CALLING SEQUENCE ** SIC,K SECP R+B,K K EOP | LG000125 | |
| 7* | | | - | | LG000126 | |
| 8* | 221476.00 | 000036.13 02 | K KEOP LCI,5,KREP | | LG000127 | |
| 9* | 221476.40 | 221512.40 80 | Z KEOP SIC,KKRET | | LG000128 | |
| 10* | 221477.00 | 221505.10 C0 | B,KIOREJ | -ISSUE COMMAND | LG000128 | |
| 11* | 221477.40 | 221500.43 C1 | LVI,1,\$+1.0 | | LG000129 | |
| 12* | 221500.00 | 221525.10 C0 | B,J SECP T | -CHECK TERMINATION | LG000129 | |
| 13* | 221500.40 | 221274.10 C0 | B,K SCS | -EPGK - GIVE UP | LG000130 | |
| 14* | 221501.00 | 221502.50 C0 | B,RK3 | | LG000131 | |
| 15* | 221501.40 | 221274.10 C0 | B,K SCS | -EE - IMPOSSIBLE | LG000132 | |
| 16* | 221502.00 | 221502.10 C0 | K SECP R B,\$ | -EOP | LG000133 | |
| 17* | 221502.40 | 000011.77 80 221274.34 00 | RK3 BZB,\$R.63,K SOS | | LG000134 | |
| 18* | 221503.40 | 221476.52 48 | CB,5,Z KEOP | | LG000135 | |
| 19* | 221504.00 | 221274.10 C0 | B,K SCS | | LG000136 | |
| 20* | | | - | | LG000137 | |
| 21* | | | - | ***** K I/O REJECT ***** | LG000138 | |
| 22* | | | - | | LG000139 | |
| 23* | | | - | CALLING SEQUENCE ** LX,C,I/O COMMAND | LG000140 | |
| 24* | | | - | SIC,K K RET+B,K IC REJ | LG000141 | |
| 25* | | | - | | LG000142 | |
| 26* | 221504.40 | 000000.30 C0 | CNOP | | LG000143 | |
| 27* | 221505.00 | 000036.03 02 | K IO REJ LCI,1,K REP | | LG000144 | |
| 28* | 221505.40 | 221506.01 10 | SX,0,\$.32 | | LG000145 | |
| 29* | 221506.00 | 000000.00+ 000 000000 000000 | XW,C | -ISSUE COMMAND | LG000146 | |
| 30* | 221507.00 | 221510.43 44 | BZEKJZ,\$+1.32 | | LG000147 | |
| 31* | 221507.40 | 221506.02 48 | CB,1,\$-1.32 | | LG000148 | |
| 32* | 221510.00 * | 221300.10 00 | B,K REJT | -IF REPEATED EKJ, GIVE UP | LG000148 | |
| 33* | 221510.40 | 221505.03 01 | LVI,1,K IC REJ | | LG000149 | |
| 34* | 221511.00 | 221512.43 C4 | BZUNRJZ,K K RET | | LG000150 | |
| 35* | 221511.40 | 221325.43 C0 | SVA,1,K UNR R | | LG000151 | |
| 36* | 221512.00 | 221314.10 C0 | B,K UNR | | LG000151 | |
| 37* | 221512.40 | 221512.44 44 | K K RET BZCBJZ,\$ | -RETURN | LG000152 | |
| 38* | 221513.00 | 221313.43 D0 | SVA,1,K CBJ R | | LG000153 | |
| 39* | 221513.40 | 221275.50 C0 | B,K CBJ | | LG000153 | |
| 40* | | | - | | LG000154 | |
| 41* | | | - | | LG000155 | |
| 42* | | | - | ***** BACKSPACE ROUTINE***** | LG000156 | |
| 43* | | | - | | LG000157 | |
| 44* | | | - | LINKAGE.....SIC,JBSPX | LG000158 | |
| 45* | | | - | B,JBSPX | LG000159 | |
| 46* | | | - | | LG000160 | |
| 47* | 221514.00 | 000003.33 02 | JBSPX LCI,\$13,3.0 | | LG000161 | |
| 48* | 221514.40 | 221524.00 10 | LX,\$0,JBSPX | -BSP COMMAND | LG000162 | |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 221515 | |
|------|-------------|------------|--------|---------------|---------------------|---|-------------------------------------|----------|
| 1* | 221515.00 | 221512.40 | 80 | | SIC,KKRET | -TO REJECT ROUTINE | LG000164 | |
| 2* | 221515.40 | 221505.10 | 00 | | B,KIOREJ | | LG000165 | |
| 3* | 221516.00 | 221517.03 | 01 | | LVI,\$1,\$+1.0 | -TC SECP TEST | LG000166 | |
| 4* | 221516.40 | 221525.10 | 00 | | B,JSEOPT | | LG000167 | |
| 5* | 221517.00 | 221520.50 | 00 | | B,JBSPX | -EPGK IF AT LOAD POINT | LG000168 | |
| 6* | 221517.40 | 221521.10 | 00 | | B,JBSPX+.32 | -UK NOT ACCEPTABLE | LG000169 | |
| 7* | 221520.00 | 000000.30 | 00 | | NCP | -EE OK | LG000170 | |
| 8* | 221520.40 | 221520.50 | 00 | JBSPX | B,\$ | -NORMAL EXIT | LG000171 | |
| 9* | 221521.00 | 000011.77 | 80 | 221274.34 00 | BZB,\$R+.63,K SOS | -BR. IF UK ALONE TO SETUP ERR | LG000172 | |
| 10* | 221522.00 | 221514.72 | 48 | | CB,\$13,JBSPE+.32 | -REISSUE IF UK ALONE | LG000173 | |
| 11* | 221522.40 | 003406.35 | 01 | | LVI,\$14,SREJ | | LG000174 | |
| 12* | 221523.00 | 217451.40 | 80 | | SIC,SDISIC | -TO ERROR CONTRCL | LG000175 | |
| 13* | 221523.40 * | 217372.10 | 00 | | B,SDISP | | LG000176 | |
| 14* | | | | | CNCP | | LG000177 | |
| 15* | 221524.00 | 000000.00 | 8E | 000176.15 00 | JBSPC | CTL(SEOP),0.0(\$14),(8)176.0 | -BSP COMMAND | LG000178 |
| 16* | | | | | -- | | LG000179 | |
| 17* | | | | | -- | | LG000180 | |
| 18* | | | | | -- | ***** TEST FOR END CF SEOP I/O WITH ERRCR RETURNS ***** | LG000181 | |
| 19* | | | | | -- | | LG000182 | |
| 20* | | | | | -- | LINKAGE....LVI,\$1,\$+1.0 | LG000183 | |
| 21* | | | | | -- | B,JSEOPT | LG000184 | |
| 22* | | | | | -- | EPGK RETURN BIT 60 CF \$R | LG000185 | |
| 23* | | | | | -- | UK RETURN BIT 61 CF \$R | LG000186 | |
| 24* | | | | | -- | EE RETURN BIT 62 CF \$R, EOP IN BIT 63 | LG000187 | |
| 25* | | | | | -- | NORMAL RETURN | LG000188 | |
| 26* | | | | | -- | | LG000189 | |
| 27* | 221525.00 | 000036.35 | 02 | J SEOP T | LCI,14,K REP | | LG000190 | |
| 28* | 221525.40 | 000000.00 | 8E | 221540.21 00 | CCW,0.0(\$14),JKCCW | | LG000191 | |
| 29* | 221526.40 | 221531.03 | 44 | | BZEKJZ,JSEOPZ | | LG000192 | |
| 30* | 221527.00 | 221525.74 | 48 | | CB,\$14,JSEOPT+.32 | | LG000193 | |
| 31* | 221527.40 | 003406.35 | 01 | | LVI,\$14,SREJ | -IF EXCHANGE BAD | LG000194 | |
| 32* | 221530.00 | 217451.40 | 80 | | SIC,SDISIC | | LG000195 | |
| 33* | 221530.40 | 217372.10 | 00 | | B,SDISP | | LG000195 | |
| 34* | 221531.00 | 221540.30 | 80 | 221525.34 02 | JSEOPZ | BB,JKCCW+.24,JSEOPT | -LOOP ON SEOP BIT UNTIL I/O IS DONE | LG000196 |
| 35* | 221532.00 | 221540.23 | 80 | 004000.20 50 | L(BU,4),JKCCW+.19 | -EPGK,UK,EE,ECP BITS | LG000197 | |
| 36* | 221533.00 | 000001.74 | 03 | | BRZ,1.32(\$1) | -NEVER HAVE ECP ALONE | LG000198 | |
| 37* | 221533.40 | 221313.40 | 80 | | SIC,KCBJR | -RELEASE | LG000199 | |
| 38* | 221534.00 | 221302.50 | 00 | | B,KCLEAR | -THE CHANNEL | LG000200 | |
| 39* | 221534.40 | 221540.23 | 80 | 004000.20 50 | L(BU,4),JKCCW.19 | | LG000201 | |
| 40* | 221535.40 | 000011.74 | 80 | 000000.34 03 | BB,\$R+.60,0.0(\$1) | -IF EPGK | LG000202 | |
| 41* | 221536.40 * | 000011.75 | 80 | 000000.74 03 | BB,\$R+.61,.32(\$1) | -IF UK | LG000203 | |
| 42* | 221537.40 | 000001.10 | 01 | | B,1.0(\$1) | -MUST BE EE OR EE,ECP | LG000204 | |
| 43* | 221540.00 | 000000.00+ | 000 | 000000 000000 | JKCCW | CW,0 | -COPIED CW | LG000205 |
| 44* | | | | | -- | | LG000206 | |
| 45* | | | | | -- | | LG000207 | |
| 46* | | | | | -- | ***** TRY TO GET A NEW TAPE ***** | LG000208 | |
| 47* | | | | | -- | | LG000209 | |
| 48* | | | | | -- | LINKAGE.... SIC,JNEW T | LG000210 | |
| 49* | | | | | -- | B,JNEWTE | LG000211 | |
| 50* | | | | | -- | | LG000212 | |
| 51* | 221541.00 | 000021.00 | 80 | 221617.06 AC | JNEWTE | TI,3,\$1,JNEWXR | LG000213 | |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 221542 | |
|------|-----------|-------------|--------|-----------|-----------|--|---------------------------|----------|
| 1* | 221542.00 | C00000.40 | 8B | 221614.74 | 02 | BB, SOWNER(\$11), JITSMC | -IF MCP UNIT | LG000215 |
| 2* | 221543.00 | C00010.44 | 3C | | | LV, \$2, SCREEL(\$12) | | LG000216 |
| 3* | 221543.40 | C00000.42 | 82 | 036600.06 | 70 | LF(BU, 30, 6), .34(\$2) | -PICK UP REEL NAME | LG000217 |
| 4* | 221544.40 | 221600.34 | C2 | | | BRZ, JITSSC | -IF SCRATCH | LG000218 |
| 5* | 221545.00 | 221566.40 | 80 | 050000.12 | F0 | SF(BU, 40), JSPRNO | -REEL NO. | LG000219 |
| 6* | 221546.00 | 221557.03 | C1 | | | LVI, \$1, JLBMES | | LG000220 |
| 7* | 221546.40 | C00000.32 | 8A | 001000.00 | F0 | J GETOF CMOC00(BU, 1), S CH OP(\$10) | | LG000221 |
| 8* | 221547.40 | 215571.00 | 80 | | | SIC, SPRIMR | -PUT REEL NO. IN MESSAGE | LG000222 |
| 9* | 221550.00 | 215570.10 | C0 | | | B, SPRIME | -OUT ON SPOOL | LG000223 |
| 10* | 221550.40 | C00103.40 | 80 | | | , DSPR | | LG000224 |
| 11* | 221551.00 | C00000.00 | 81 | | | , O(\$1) | | LG000225 |
| 12* | 221551.40 | C00001.00 | 80 | | | , I.C | | LG000226 |
| 13* | 221552.00 | * 215001.04 | 80 | 221554.74 | 02 | BB, SL, JPREOJ | | LG000227 |
| 14* | 221553.00 | 000405.35 | C1 | | | LVI, \$14, SLABNG | -IF AT PP LEVEL | LG000228 |
| 15* | 221553.40 | 217451.40 | 80 | | | SIC, SDISIC | -USE ERROR CONTROL | LG000229 |
| 16* | 221554.00 | 217372.10 | 00 | | | B, SCISP | | LG000230 |
| 17* | 221554.40 | 215571.00 | 80 | | | JPRECJ SIC, SPRIMR | -IF AT MCP LEVEL | LG000231 |
| 18* | 221555.00 | 215570.10 | C0 | | | B, SPRIME | -USE ABE0J | LG000232 |
| 19* | 221555.40 | 000104.00 | 80 | | | , DABECJ | | LG000233 |
| 20* | 221556.00 | 216242.10 | 00 | | | B, KSUPP | -RETURN TO I/A IN MCP | LG000234 |
| 21* | 221556.40 | 000000.30 | C0 | | | CNOP | | LG000235 |
| 22* | 221557.00 | | | | | JLBMES (A*)DD(BU), 1YOUR JOB HAS BEEN TERMINATED BECAUSE * | | LG000236 |
| 23* | 221563.60 | * | | | | (A*)DC(BU), THE LABEL ON REEL NO. * | | LG000237 |
| 24* | 221566.40 | | | | | JSPRNO (A*)DD(BU), XXXXX GIVES REPEATED UNIT CHECK. * | | LG000238 |
| 25* | 221573.00 | | | | | (A*)DD(BU), * | | LG000239 |
| 26* | 221600.00 | 221350.00 | 80 | | | JITSSC SIC, KCONVR | -COMPUTE CH-UNIT NO. | LG000240 |
| 27* | 221600.40 | 221335.10 | C0 | | | B, KCONV | | LG000241 |
| 28* | 221601.00 | 221674.50+ | | | | VF, JREPCU | | LG000242 |
| 29* | 221601.40 | * 221671.05 | C1 | | | LVI, \$2, JREPSC | -SET UP SCRATCH MESSAGE | LG000243 |
| 30* | 221602.00 | 221721.00 | 10 | | | JTAKF LX, \$0, JUNLDK | -UNLOAD COMMAND | LG000244 |
| 31* | 221602.40 | 221512.40 | 80 | | | SIC, KKRET | | LG000245 |
| 32* | 221603.00 | 221505.10 | 00 | | | B, KIOREJ | | LG000246 |
| 33* | 221603.40 | 221604.43 | 01 | | | LVI, \$1, \$+1.0 | -WAIT FOR TERMINATION | LG000247 |
| 34* | 221604.00 | 221525.10 | C0 | | | B, JSECPT | | LG000248 |
| 35* | 221604.40 | C00000.30 | 00 | | | NOP | | LG000249 |
| 36* | 221605.00 | C00000.30 | 00 | | | NOP | | LG000250 |
| 37* | 221605.40 | 221602.10 | 00 | | | B, JTAKF | | LG000251 |
| 38* | 221606.00 | 233666.04 | 80 | 001000.06 | 70 | LF(BU, 1), JIOBSY | | LG000252 |
| 39* | 221607.00 | 233666.00 | 80 | 001000.12 | F0 | SF(BU, 1), JWAIT | | LG000253 |
| 40* | 221610.00 | 215470.40 | 80 | | | SIC, SCCMIC | -TELL OPERATOR WHAT TO DO | LG000254 |
| 41* | 221610.40 | 215470.10 | C0 | | | B, SCCMM | | LG000255 |
| 42* | 221611.00 | C00000.00 | 82 | | | , O.C(\$2) | | LG000256 |
| 43* | 221611.40 | C00010.00 | 80 | | | , 8.0 | | LG000257 |
| 44* | 221612.00 | 221325.40 | 80 | | | SIC, KUNRR | | LG000258 |
| 45* | 221612.40 | 221321.50 | 00 | | | B, KKLCCP | | LG000258 |
| 46* | 221613.00 | 221617.00 | 80 | 000021.06 | AC | TI, 3, JNEWXR, \$1 | | LG000259 |
| 47* | 221614.00 | 221614.10 | C0 | | | JNEWT B, \$ | | LG000260 |
| 48* | 221614.40 | 221350.00 | 80 | | | JITSMC SIC, KCCNVR | | LG000261 |
| 49* | 221615.00 | * 221335.10 | C0 | | | B, KCCNV | | LG000262 |
| 50* | 221615.40 | 221714.50+ | | | | VF, JRCTCU | | LG000263 |
| 51* | 221616.00 | 221711.05 | 01 | | | LVI, \$2, JREPCT | | LG000264 |
| 52* | 221616.40 | 221602.10 | 00 | | | B, JTAKF | | LG000265 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 221617 |
|------|-------------|------------|--------|-----------|--|---------------------------|----------|
| 1* | 221617.00 * | 000003.00 | | JNEWXR | DRZ(N),(3) | | LG000267 |
| 2* | | | | -- | | | LG000268 |
| 3* | | | | -- | | | LG000269 |
| 4* | | | | -- | *****ANALYSIS OF I/O INDICATORS FOR WRITE LABEL***** | | LG000270 |
| 5* | | | | -- | | | LG000271 |
| 6* | | | | -- | LINKAGE....SIC,JWRITX...B,JWRITL | | LG000272 |
| 7* | | | | -- | | | LG000273 |
| 8* | 221622.00 | 000021.00 | 80 | 221730.06 | AC J WRITL | TI,3,\$1,JPREVX | LG000274 |
| 9* | 221623.00 | 221350.00 | 80 | | | SIC,KCONVR | LG000275 |
| 10* | 221623.40 | 221335.10 | 00 | | | B,KCCNV | LG000276 |
| 11* | 221624.00 | 221704.20+ | | | | VF,JINSCU | LG000277 |
| 12* | 221624.40 | 000001.11 | 8D | 221626.74 | 02 | BB,SIOIND(\$13),JEPGKF | LG000278 |
| 13* | 221625.40 | 000001.12 | 8D | 221644.74 | 02 | BB,SIOIND+.1(\$13),JRWRIT | LG000279 |
| 14* | 221626.40 | 221721.00 | 10 | | | JEPGKF LX,\$0,JUNLDK | LG000280 |
| 15* | 221627.00 | 221512.40 | 80 | | | SIC,KKRET | LG000281 |
| 16* | 221627.40 | 221505.10 | 00 | | | B,KIOREJ | LG000282 |
| 17* | 221630.00 | 221631.03 | 01 | | | LVI,\$1,\$+1.0 | LG000283 |
| 18* | 221630.40 | 221525.10 | 00 | | | B,JSEOPT | LG000284 |
| 19* | 221631.00 | 000000.30 | 00 | | | NOP | LG000285 |
| 20* | 221631.40 | 000000.30 | 00 | | | NOP | LG000286 |
| 21* | 221632.00 | 221626.50 | 00 | | | B,JEPGKF | LG000287 |
| 22* | 221632.40 | 215470.40 | 80 | | | SIC,SCOMIC | LG000288 |
| 23* | 221633.00 | 215470.10 | 00 | | | B,SCOMM | LG000289 |
| 24* | 221633.40 | 221701.00 | 80 | | | ,JINSM | LG000290 |
| 25* | 221634.00 | 000010.00 | 80 | | | ,8.C | LG000291 |
| 26* | 221634.40 | 221325.40 | 80 | | | JUNRL SIC,KUNRR | LG000292 |
| 27* | 221635.00 * | 221321.50 | 00 | | | B,KKLOOP | LG000293 |
| 28* | 221635.40 | 000003.07 | 02 | | | LCI,\$3,3 | LG000294 |
| 29* | 221636.00 | 221722.00 | 10 | | | JRDLAB LX,\$0,JRDLK | LG000295 |
| 30* | 221636.40 | 221512.40 | 80 | | | SIC,KKRET | LG000296 |
| 31* | 221637.00 | 221505.10 | 00 | | | B,KIOREJ | LG000297 |
| 32* | 221637.40 | 221640.43 | 01 | | | LVI,\$1,\$+1.0 | LG000298 |
| 33* | 221640.00 | 221525.10 | 00 | | | B,JSECPT | LG000299 |
| 34* | 221640.40 | 000000.30 | 00 | | | NOP | LG000300 |
| 35* | 221641.00 | 000000.30 | 00 | | | NOP | LG000301 |
| 36* | 221641.40 | 221661.50 | 00 | | | B,JERRC | LG000302 |
| 37* | 221642.00 | 221724.00 | 80 | 036000.06 | 70 | LF(BU,30),JLABIN | LG000303 |
| 38* | 221643.00 | 000006.00 | 80 | 036000.23 | 10 | KF(BU,30),SSCRPM(\$12) | LG000304 |
| 39* | 221644.00 | 221664.76 | 00 | | | BZAE,JBCLAB | LG000305 |
| 40* | | | | -- | ***** ENTER HERE IF ONLY WRITE LABEL REQUIRED ***** | | LG000306 |
| 41* | 221644.40 | 000003.07 | 02 | | | JRWRIT LCI,\$3,3 | LG000307 |
| 42* | 221645.00 | 221520.40 | 80 | | | JBACKT SIC,JBSPX | LG000308 |
| 43* | 221645.40 | 221514.10 | 00 | | | B,JBSPE | LG000309 |
| 44* | 221646.00 | 221725.00 | 10 | | | JTRYLG LX,\$0,JERGK | LG000310 |
| 45* | 221646.40 | 221512.40 | 80 | | | SIC,KKRET | LG000311 |
| 46* | 221647.00 | 221505.10 | 00 | | | B,KIOREJ | LG000312 |
| 47* | 221647.40 | 221650.43 | 01 | | | LVI,\$1,\$+1.0 | LG000313 |
| 48* | 221650.00 | 221525.10 | 00 | | | B,JSECPT | LG000314 |
| 49* | 221650.40 * | 000000.30 | 00 | | | NOP | LG000315 |
| 50* | 221651.00 | 000000.30 | 00 | | | NOP | LG000316 |

| LINE | LOCATICN | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 221651 | |
|------|-------------|------------|--------|---------------|---|------------------------------|----------------------|----------|
| 1* | 221651.40 | 221646.10 | 00 | | B,JTRYLG | | LG000318 | |
| 2* | 221652.00 | 221201.01 | 80 | | LVE,0,RV4 | | LG000319 | |
| 3* | 221652.40 | 221727.01 | 30 | | SV,C,J WKOM+1.C | | LG000319 | |
| 4* | 221653.00 | 221726.00 | 10 | | LX,\$C,JWKCM | -REWRITE LABEL | LG000320 | |
| 5* | 221653.40 | 221512.40 | 80 | | SIC,KKRET | | LG000321 | |
| 6* | 221654.00 | 221505.10 | 00 | | B,KIOREJ | | LG000322 | |
| 7* | 221654.40 | 221655.43 | 01 | | LVI,\$1,\$+1.0 | | LG000323 | |
| 8* | 221655.00 | 221525.10 | 00 | | B,JSEOPT | | LG000324 | |
| 9* | 221655.40 | 000000.30 | 00 | | NOP | | LG000325 | |
| 10* | 221656.00 | 000000.30 | 00 | | NOP | | LG000326 | |
| 11* | 221656.40 | 221660.50 | 00 | | B,JWTERR | | LG000327 | |
| 12* | 221657.00 | 221730.00 | 80 | 000021.C6 AC | TI,3,JPREVX,\$1 | -NORMAL RETURN | LG000328 | |
| 13* | 221660.00 | 221660.10 | 00 | JWRITX | B,\$ | | LG000329 | |
| 14* | 221660.40 | 221645.06 | 48 | JWTERR | CB,\$3,JBACKT | -TRY AGAIN | LG000330 | |
| 15* | 221661.00 | 221663.10 | 00 | | B,JNEUT | | LG000331 | |
| 16* | 221661.40 | 221520.40 | 80 | JERRD | SIC,JBSPX | -BACKSPACE THE TAPE | LG000332 | |
| 17* | 221662.00 | 221514.10 | 00 | | B,JBSPE | | LG000333 | |
| 18* | 221662.40 | 221636.06 | 48 | | CB,\$3,JRDLAB | | LG000334 | |
| 19* | 221663.00 | 221614.00 | 80 | JNEUT | SIC,JNEWT | -TRY TO GET A NEW TAPE | LG000335 | |
| 20* | 221663.40 | 221541.10 | 00 | | B,JNEWTE | | LG000336 | |
| 21* | 221664.00 * | 221634.50 | 00 | | B,JUNRL | -TRY AGAIN | LG000337 | |
| 22* | 221664.40 | 000010.44 | 30 | JBDLAB | LV,\$2,SCREEL(\$12) | -IS IT A SCRATCH TAPE | LG000338 | |
| 23* | 221665.00 | 000000.42 | 82 | 036017.C6 70 | LF(BU,30),.34(\$2),30 | -CURRENT REEL NAME | LG000339 | |
| 24* | 221666.00 | 000000.40 | 88 | 221667.74 02 | BB,SOWNER(\$11),\$+1.32 | | LG000340 | |
| 25* | 221667.00 | 221663.34 | 00 | | BZRZ,JNEUT | -IF NOT A SCRATCH TAPE | LG000341 | |
| 26* | 221667.40 | 000006.00 | 80 | 036000.12 F0 | SF(BU,30),SSCRPM(\$12) | -AND IN UAT | LG000342 | |
| 27* | 221670.40 | 221644.50 | 00 | | B,JRWRT | -GO TO REWRITE LABEL | LG000343 | |
| 28* | | | | | CNOP | - 8 WORD MESSAGE | LG000344 | |
| 29* | 221671.00 | | | JREPSC | (IQS*)DD(BU), REPLACE THE REEL ON CHANNEL * | | LG000345 | |
| 30* | 221674.50 * | | | JREPCU | (IQS*)DD(BU),XX UNIT X WITH A SCRATCH TAPE. * | | LG000346 | |
| 31* | | | | | CNOP | - 8 WORD MESSAGE | LG000347 | |
| 32* | 221701.00 | | | JINSM | (IQS*)DD(BU), INSERT A RING ON CHANNEL * | | LG000348 | |
| 33* | 221704.20 | | | JINSCU | (IQS*)DD(BU),XX UNIT X AND READY THE UNIT. * | | LG000349 | |
| 34* | | | | | CNOP | - 8 WORD MESSAGE | LG000350 | |
| 35* | 221711.00 * | | | JREPCT | (IQS*)DD(BU), REPLACE THE REEL ON CHANNEL * | | LG000351 | |
| 36* | 221714.50 | | | JRCTCU | (IQS*)DD(BU),XX UNIT X WITH APPROPRIATE MCP REEL* | | LG000352 | |
| 37* | | | | | CNOP | | LG000353 | |
| 38* | 221721.00 | 000000.00 | 8E | 000137.15 00 | JUNLDK | CTL(SECP),0.0(\$14),(8)137.0 | -UNLOAD COMMAND | LG000354 |
| 39* | 221722.00 | 000000.00 | 8E | 221723.11 00 | JRDLC | RD(SEOP),0.0(\$14),\$+1.0 | -READ LABEL COMMAND | LG000355 |
| 40* | 221723.00 | 221724.00+ | 000 | 000001 000000 | | CW,\$+1.C,1.C | | LG000356 |
| 41* | 221724.00 | 000000.00+ | 000 | 000000 000000 | JLABIN | XW,C | -LABEL SLCT | LG000357 |
| 42* | 221725.00 | 000000.00 | 8E | 000056.15 00 | JERGK | CTL(SECP),0.0(\$14),(8)56.0 | | LG000358 |
| 43* | 221726.00 * | 000000.00 | 8E | 221727.13 00 | JWKOM | W(SEOP),0.0(\$14),\$+1.0 | -WRITE LABEL COMMAND | LG000359 |
| 44* | 221727.00 | 000006.00+ | 000 | 000001 000000 | | CW,SSCRPM(\$12),1.0 | | LG000360 |
| 45* | 221730.00 * | 000003.00 | | | JPREVX | DRZ(N),(3) | -FOR INDEX REGISTERS | LG000361 |
| 46* | | | | | -- | | LG000362 | |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|------------|--------|-----------|---|----------|
| 1* | | | | | - ***** | LH000001 |
| 2* | | | | | -***** UNLOAD *****- | LH000002 |
| 3* | | | | | - ***** | LH000003 |
| 4* | 221733.00 | 222017.44 | 30 | K UNL00 | LV,2,K UL MES | LH000004 |
| 5* | 221733.40 * | | | | SLC,\$ | LH000005 |
| 6* | 221733.40 | 000000.63 | 8B | 001000.36 | FC CM1111(BU,1),SMCUNT(\$11) | LH000006 |
| 7* | 221734.40 | 222001.13 | 01 | | LVI,5,K UNL M | LH000007 |
| 8* | 221735.00 | 000000.40 | 8B | 221740.34 | 02 BB,S CWNER(\$11),Z UNL01 | LH000008 |
| 9* | 221736.00 | 222011.17 | 01 | | LVI,7,Z UNL 02 | LH000009 |
| 10* | 221736.40 | 221045.00 | 80 | | SIC,Z ID09X | LH000010 |
| 11* | 221737.00 | 221042.10 | 00 | | B,Z ID09 -CONVERT NAME | LH000010 |
| 12* | 221737.40 | 221741.10 | 00 | | B,Z UNL 03 | LH000011 |
| 13* | 221740.00 | 221062.00 | 80 | 222011.02 | A0 Z UNL01 TI,1,Z ID16,Z UNL02 | LH000012 |
| 14* | 221741.00 | 000011.17 | 01 | | Z UNL03 LVI,7,9. | LH000013 |
| 15* | 221741.40 | 000010.62 | 30 | | K F UNLD LV,9,S C REEL(\$12) | LH000014 |
| 16* | 221742.00 | 000000.20 | 39 | | LV,8,0.C(\$9) -ADDR OF NEXT REEL NAME | LH000015 |
| 17* | 221742.40 | 221766.71 | 42 | | BXVZ,KCUSTM -IF SCRATCH NEEDED | LH000016 |
| 18* | 221743.00 | 000000.42 | 88 | 036600.06 | 70 K RITE T LF(RU,30,6),.34(\$8) -IF NOT, GET NEW REEL NC | LH000017 |
| 19* | 221744.00 | 221775.34 | 02 | | BRZ,KKTAPE | LH000018 |
| 20* | 221744.40 | 222015.00 | 80 | 222006.04 | AC TI,2,K EX TAP,K REEL N | LH000019 |
| 21* | 221745.40 | 222007.10 | 80 | 050000.12 | FO SF(BU,40),KREELN+.72 | LH000020 |
| 22* | 221746.40 * | 221747.77 | 01 | | LVI,15,\$+1.0 | LH000021 |
| 23* | 221747.00 | 230566.10 | 00 | | B,S AB IGS | LH000021 |
| 24* | 221747.40 | 222007.10+ | | | VF,K REEL N+.72 | LH000022 |
| 25* | 221750.00 | 000005 | | | CF,5 | LH000023 |
| 26* | 221750.40 | 222007.10+ | | | VF,K REEL N+.72 | LH000024 |
| 27* | 221751.00 | 000000.32 | 88 | 221752.74 | 00 K UNLD1 BZB,.26(\$8),\$+1.32 -TEST IF PROTECTED | LH000025 |
| 28* | 221752.00 | 000012.17 | 01 | | LVI,7,10. -FILE PROTECT MESSAGE LENGTH | LH000026 |
| 29* | 221752.40 | 221754.05 | 30 | | SV,2,\$+1.32 | LH000027 |
| 30* | 221753.00 | 221350.00 | 80 | | SIC,K CCNV R | LH000028 |
| 31* | 221753.40 | 221335.10 | 00 | | B,K CCNV | LH000028 |
| 32* | 221754.00 | 000000.00+ | | | VF,0.0 | LH000029 |
| 33* | 221754.40 | 000000.30 | 00 | | CNOP | LH000030 |
| 34* | 221755.00 | 221756.00 | 10 | | LX,C,\$+1.0 | LH000031 |
| 35* | 221755.40 | 000004.01 | 10 | | SX,C,S ID INS(\$12) | LH000031 |
| 36* | 221756.00 | 000000.00 | 8E | 000137.15 | 00 K FIRE UNL0AD(SEOP),C.C(\$14) | LH000032 |
| 37* | 221757.00 | 221760.03 | 01 | | LVI,1,\$+1.0 | LH000033 |
| 38* | 221757.40 | 221261.10 | 00 | | B,M ID REJ | LH000033 |
| 39* | 221760.00 | 221354.40 | 80 | | SIC,K ECP R | LH000034 |
| 40* | 221760.40 | 221350.50 | 00 | | B,K SEOP T | LH000034 |
| 41* | 221761.00 | 215470.40 | 80 | | SIC,S CCMIC | LH000035 |
| 42* | 221761.40 | 215470.10 | 00 | | B,S CCM | LH000035 |
| 43* | 221762.00 * | 000000.00 | 85 | | ,0.C(\$5) | LH000036 |
| 44* | 221762.40 | 000000.00 | 87 | | ,0.C(\$7) | LH000037 |
| 45* | 221763.00 | 000001.34 | 80 | 032000.20 | 50 L(BU,26),\$TC -SET TIME FOR REMINDER MESSAGE | LH000038 |
| 46* | 221764.00 | 000001.40 | 80 | 032000.20 | 00 ST,S RMTC(\$12) | LH000039 |
| 47* | 221765.00 | 000001.77 | 80 | 001000.00 | FO CM0000,S RMIND(\$12) -CLEAR INDICATOR | LH000040 |
| 48* | 221766.00 | 216242.10 | 00 | | K NEW TP B,K SUPP | LH000041 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 221766 |
|------|-------------|---------------|--------------|-----------|--|----------|
| 1* | 221766.40 | 000000.40 88 | 221770.74 00 | KCUSTM | BZB,SOWNER(\$11),KKUSTM | LH000043 |
| 2* | 221767.40 | 000000.23 39 | | | SV,\$9,0.0(\$9) | LH000044 |
| 3* | 221770.00 | 221742.10 00 | | | B,KFUNLD.32 | LH000045 |
| 4* | 221770.40 | 215012.60 30 | | KKUSTM | LV,8,SMARK | LH000046 |
| 5* | 221771.00 | 215225.20 90 | | | KV,8,SMAXUB | LH000047 |
| 6* | 221771.40 | 221777.72 40 | | | BZXL,K 2 MUCH | LH000048 |
| 7* | 221772.00 | 000000.21 39 | | | SV,8,0.0(\$9) | LH000049 |
| 8* | 221772.40 | 215012.40 80 | 022000.22 BC | | M+1(BU,18),S MARK | LH000050 |
| 9* | 221773.40 | 000000.22 08 | | | Z,0.0(\$8) | LH000051 |
| 10* | 221774.00 | 000000.33 88 | 001000.36 FO | | CM1111(BU,1),.27(\$8) | LH000052 |
| 11* | 221775.00 * | 222013.00 80 | 222006.04 AC | K K TAPE | TI,2,K SCRAC,K REEL N | LH000053 |
| 12* | 221776.00 | 221751.10 00 | | | B,K UNLD1 | LH000054 |
| 13* | 221776.40 | 000011.17 01 | | K R ONLY | LVI,7,9. | LH000055 |
| 14* | 221777.00 | 221752.50 00 | | | B,K UNLD1+1.32 | LH000056 |
| 15* | 221777.40 | 010006.35 01 | | K 2 MUCH | LVI,14,S 2 BIG | LH000057 |
| 16* | 222000.00 | 217451.40 80 | | | SIC,S DISIC | LH000058 |
| 17* | 222000.40 | 217372.10 00 | | | B,S DISP. | LH000058 |
| 18* | | | | | CNOP | LH000059 |
| 19* | 222001.00 | | | K UNL M | (IQSX)DD(BU,64),REPLACE TAPE ON CHANNEL 32 UNIT 8 WITH X | LH000060 |
| 20* | 222006.00 | | | K REELN | (IQSX)DD(BU),REEL NO. 12345 JOB X | LH000061 |
| 21* | 222011.00 * | | | Z UNL02 | (IQSX)DD(BU), X | LH000062 |
| 22* | 222012.00 | | | | (IQSX)DD(BU), PROTECTX | LH000063 |
| 23* | | | | | CNOP | LH000064 |
| 24* | 222013.00 | | | K SCRAC | (IQSX)DD(BU,64),A SCRATCH TAPE X | LH000065 |
| 25* | 222015.00 | | | K EX TAP | (IQSX)DD(BU,64),REEL NO. X | LH000066 |
| 26* | 222017.40 | 222004.00+ | | K UL MES | VF,K UNL M+.192 | LH000067 |

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| LINE | LOCATICN | BINARY CUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|---------------------|---|----------|
| 1* | | | - | ***** | LI000001 |
| 2* | | | - | ***** S E A R C H ***** | LI000002 |
| 3* | | | - | ***** | LI000003 |
| 4* | | | - | CALL SEG LVI,1,DCG | LI000004 |
| 5* | | | - | B,K SERCH | LI000005 |
| 6* | | | - | DCG (NOT FOUND) | LI000006 |
| 7* | | | - | DCG+.32 (FOUND) | LI000007 |
| 8* | 222017.71 * | | | SLC,\$ | LI000008 |
| 9* | 222020.00 | 215021.23 01 | K SERCH | LVI,9,S PROG S | LI000009 |
| 10* | 222020.40 | 000000.60 39 | | LV,8,S Q K(\$9) | LI000010 |
| 11* | 222021.00 | 000001.60 89 | | V+,8,S Q K + 1.0(\$9) -TOTAL Q K | LI000011 |
| 12* | 222021.40 | 000000.31 43 | | BXVZ,C.C(\$1) | LI000012 |
| 13* | 222022.00 | 000030.20 50 | | LC,8,\$8 | LI000013 |
| 14* | 222022.40 | 215420.21 01 | | LVI,8,S QUE | LI000014 |
| 15* | 222023.00 | 000000.23 88 | 122067.20 50 K CLUB | L(V+I)(BU,18),.19(\$8),-18 | LI000015 |
| 16* | 222024.00 | 000010.32 90 | | KV,13,\$L | LI000016 |
| 17* | 222024.40 | 222026.32 02 | | BXE,K PACK | LI000017 |
| 18* | 222025.00 | 222023.20 48 | | CB,8,K CLUB | LI000018 |
| 19* | 222025.40 | 000000.10 01 | | B,0.0(\$1) | LI000019 |
| 20* | 222026.00 | 777777.77 88 | 222027.74 00 K PACK | BZB,-.1(\$8),Z PACK -TEST LEVEL - BR. IF PP | LI000020 |
| 21* | 222027.00 | 000001.23 05 | | V+I,9,1.0 | LI000021 |
| 22* | 222027.40 | 777777.55 88 | 123000.20 50 Z PACK | L(V+I)(BU,19),-.19(\$8) -PACK QUELE | LI000022 |
| 23* | 222030.40 | 000000.46 88 | 123000.20 00 | ST(V+I)(BU,19),.38(\$8) | LI000023 |
| 24* | 222031.40 | 222027.60 48 | | CB,8,\$-2.0 | LI000024 |
| 25* | 222032.00 | 000000.40 89 | 022000.32 00 | M-1(BU,18),S Q K(\$9) -REDUCE Q K | LI000025 |
| 26* | 222033.00 * | 222036.60 80 | | V+,8,K STEP | LI000026 |
| 27* | 222033.40 | 215466.21 30 | | SV,8,S CUM Q | LI000027 |
| 28* | 222034.00 | 000000.31 89 | 000000.74 03 | BB,S AS(\$9),.32(\$1) | LI000028 |
| 29* | 222035.00 | 000000.00 89 | 030000.00 00 | CM0000(BU,24),0.0(\$9) -CLEAR WAIT FIELD | LI000029 |
| 30* | 222036.00 | 000000.50 01 | | B,.32(\$1) | LI000030 |
| 31* | 222036.40 | 000000.46- | K STEP | VF, -.38 | LI000031 |
| 32* | | | - | ***** | LI000032 |
| 33* | | | - | ***** U N S T A C K ***** | LI000033 |
| 34* | | | - | ***** | LI000034 |
| 35* | 222037.00 | 215021.23 01 | K UNSTC | LVI,9,S PROG S | LI000035 |
| 36* | 222037.40 | 216010.03 01 | | LVI,1,K NINTY | LI000036 |
| 37* | 222040.00 | 215420.21 01 | | LVI,8,S QUE | LI000037 |
| 38* | 222040.40 | 000001.46 39 | | LV,3,S Q K+1.0(\$9) | LI000038 |
| 39* | 222041.00 | 222046.71 42 | | BXVZ,K CONT -IS MCP QUE EMPTY | LI000039 |
| 40* | 222041.40 | 000000.46 89 | | V+,3,S Q K(\$9) | LI000040 |
| 41* | 222042.00 | 000023.20 50 | | LC,8,\$3 | LI000041 |
| 42* | 222042.40 | 000000.23 88 | 123066.60 50 K FLIP | L(V+I)(BU,19),.19(\$8),-19 | LI000042 |
| 43* | 222043.40 | 000010.22 80 | 222045.74 04 | BZBZ,8.18,K SOSA | LI000043 |
| 44* | 222044.40 | 000010.32 30 | | LV,13,\$L | LI000044 |
| 45* | 222045.00 | 222027.10 00 | | B,K PACK+1.0 | LI000045 |
| 46* | 222045.40 | 222042.60 48 | K SOSA | CB,8,K FLIP | LI000046 |
| 47* | 222046.00 | 222046.20 00 | | BEW,\$ | LI000047 |
| 48* | 222046.40 * | 000000.60 59 | K CCNT | LC,8,S Q K(\$9) | LI000048 |
| 49* | 222047.00 | 216242.30 42 | | BXCZ,K SUPP | LI000049 |
| 50* | 222047.40 | 000000.23 88 | 122067.20 50 | L(V+I)(BU,18),.19(\$8),-18 | LI000050 |
| 51* | 222050.40 | 000010.32 30 | | LV,13,\$L | LI000051 |
| 52* | 222051.00 | 222027.50 00 | | B,Z PACK | LI000052 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|-------------------------------|---|
| 1* | | | | - ***** | LJ000001 |
| 2* | | | | -***** UNIT LIGHTS *****- | LJ000002 |
| 3* | | | | - ***** | LJ000003 |
| 4* | 222051.4C * | | | SLC, \$ | LJ000004 |
| 5* | 222051.4C | 000416.01 01 | B TIF R | LVI, B XA, 14.0(.9)1 | -SAVE TAPE INDICATOR OFF CODE LJ000005 |
| 6* | 222052.00 | 222056.10 00 | | B, B TFCK | -BRANCH TO IO REF NO EVALUATION LJ000006 |
| 7* | 222052.40 | 000417.01 01 | | LVI, 0, 15. (.9)1 | LJ000007 |
| 8* | 222053.00 | 222056.10 00 | | B, B TFCK | LJ000008 |
| 9* | 222053.40 | 000016.01 01 | B RLF R | LVI, B XA, 14.0 | -SAVE RESERVED LIGHT OFF CODE LJ000009 |
| 10* | 222054.00 | 222056.10 00 | | B, B TFCK | -BRANCH TO IO REF NO EVALUATION LJ000010 |
| 11* | 222054.40 | 000017.01 01 | B RLN R | LVI, B XA, 15.0 | -SAVE RESERVED LIGHT ON CODE LJ000011 |
| 12* | 222055.00 | 222056.10 00 | | B, B TFCK | -BRANCH TO IO REF NO EVALUATION LJ000012 |
| 13* | 222055.40 | 000116.01 01 | B KLN R | LVI, B XA, 78.0 | -SAVE CHECK LIGHT ON CODE LJ000013 |
| 14* | 222056.00 | 000000.45 00 | B TFCK | V-1, 2, .32 | LJ000014 |
| 15* | 222056.40 | 215265.05 30 | | SV, 2, S TIC | LJ000015 |
| 16* | 222057.00 | 000005.41 30 | | SV, C, S CTL OP(\$12) | -CTL OP CODE TO UNIT AREA LJ000016 |
| 17* | 222057.40 | 222065.41 00 | | SVA, 0, B 4CTL+.32 | -INITIALIZE RT EFFECTIVE ADDR LJ000017 |
| 18* | 222060.00 | 000400.01 04 | | KVI, B XA, C.C(.9)1 | -TEST FOR TAPE INDICATOR LJ000018 |
| 19* | 222060.40 | 222070.72 42 | | BXL, B RONK | -IF NOT TAPE INDICATOR TO B RONK LJ000019 |
| 20* | 222061.00 | 000004.11 04 | | KVI, 4, 4.0 | -TEST IF TAPE LJ000020 |
| 21* | 222061.40 | 220064.32 00 | | BZXE, K ILEGL | -IF NOT TAPE TO ERROR ROUTINE LJ000021 |
| 22* | 222062.00 | 000000.47 8B | 222064.34 04 | BZBZ, S SEL(\$11), B 4CTL-1.0 | LJ000022 |
| 23* | 222063.00 | 220047.00 80 | | SIC, K LCCID | LJ000023 |
| 24* | 222063.40 | 220033.50 00 | | B, K LOCAT | -SELECT THE UNIT LJ000023 |
| 25* | | | | CNOP | LJ000024 |
| 26* | 222064.00 | 222065.00 10 | | LX, 0, \$+1.0 | LJ000025 |
| 27* | 222064.40 * | 000004.01 10 | | SX, C, S IO INS(\$12) | LJ000025 |
| 28* | 222065.00 | 000000.00 8E | 000000.05 00 | B 4CTL | CTL, 0.0(\$14), 0.0 LJ000026 |
| 29* | 222066.00 | 222067.03 01 | | LVI, 1, \$+1.0 | LJ000027 |
| 30* | 222066.40 | 221261.10 00 | | B, M IC REJ | LJ000027 |
| 31* | 222067.00 | 000000.32 8A | 001000.36 FC | CM1111, S CH OP(\$10) | LJ000028 |
| 32* | 222070.00 | 216242.10 00 | | B, K SUPP | LJ000029 |
| 33* | 222070.40 | 000000.51 04 | | B RONK | KVI, 4, .32 LJ000030 |
| 34* | 222071.00 | 220064.32 C2 | | BXE, K ILEGL | -IF DISK, ERROR LJ000031 |
| 35* | 222071.40 | 000004.11 C4 | | KVI, 4, 4.0 | LJ000032 |
| 36* | 222072.00 | 220064.32 C2 | | BXE, K ILEGL | -IF TAPE, ERROR LJ000033 |
| 37* | 222072.40 | 222064.10 00 | | B, B 4CTL-1.0 | LJ000034 |
| 38* | 000020.00+ | +00000000 | BU, 100, 10 | B XA | SYN, \$XC LJ000035 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|------------------------------|----------|
| 1* | | | | ***** | LK000001 |
| 2* | | | | ***** SOUND GONG ***** | LK000002 |
| 3* | | | | ***** | LK000003 |
| 4* | | | | | LK000004 |
| 5* | 222073.00 * | | | SLC,\$ | LK000005 |
| 6* | 222073.00 | 000000.45 CD | W GONG | V-I,2,.32 | LK000006 |
| 7* | 222073.40 | 215265.05 30 | | SV,2,S TIC | LK000006 |
| 8* | 222074.00 | 000001.11 04 | | KVI,4,1.0 | LK000007 |
| 9* | 222074.40 | 220064.32 00 | | BZXE,K ILEGL | LK000008 |
| 10* | 222075.00 | 000000.47 8B | 222077.34 04 | BZBZ,S SEL(\$11),W G CTL-1.0 | LK000009 |
| 11* | 222076.00 | 220105.40 80 | | SIC,K G LCC R | LK000010 |
| 12* | 222076.40 | 220100.50 00 | | B,K G LCC | LK000010 |
| 13* | | | | CNGP | LK000011 |
| 14* | 222077.00 | 222100.00 10 | | LX,C,\$+1.0 | LK000012 |
| 15* | 222077.40 | 000004.01 1C | | SX,C,S IC INS(\$12) | LK000012 |
| 16* | 222100.00 | 000000.00 8E | 000177.05 00 | W G CTL GONG,C.C(\$14) | LK000013 |
| 17* | 222101.00 | 222102.03 C1 | | LVI,1,\$+1.0 | LK000014 |
| 18* | 222101.40 | 221261.10 00 | | B,M IC REJ | LK000014 |
| 19* | 222102.00 | 000000.74 8B | 001000.36 F0 | CM1111(BU,1),S CTL(\$11) | LK000015 |
| 20* | 222103.00 | 000261.01 01 | | LVI,0,177. | LK000016 |
| 21* | 222103.40 | 000005.41 3C | | SV,C,S CTL OP(\$12) | LK000016 |
| 22* | 222104.00 | 216242.10 00 | | B,K SUPP | LK000017 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|-----------|--------|-----------|--|----------|
| 1* | | | | - | ----- | MA000001 |
| 2* | | | | - | ***** OUTPUT PROGRAM ***** | MA000002 |
| 3* | | | | - | ----- | MA000003 |
| 4* | 222104.40 | 000000.30 | 00 | | CNOP | MA000004 |
| 5* | 222105.00 | | | 14012 | SCSPRT DD(BU,15,8),(8)14012 -TENTACLE TABLE FOR SPR | MA000005 |
| 6* | 222105.17 * | 000000.36 | | | DRZ(BU,30,8),1 | MA000006 |
| 7* | | | | | EXT(0,18) | MA000007 |
| 8* | 222105.55 | | | 0444457 | B,CSTART | MA000007 |
| 9* | 222106.00 * | 000003.00 | | | DRZ(N),3 | MA000008 |
| 10* | 222111.00 | | | 14012 | SASPUT DD(BU,15,8),(8)14012 -TENTACLE TABLE FOR SPU | MA000009 |
| 11* | 222111.17 * | 000000.36 | | | DRZ(BU,30,8),1 | MA000010 |
| 12* | | | | | EXT(0,18) | MA000011 |
| 13* | 222111.55 | | | 0444246 | B,ASPUC | MA000011 |
| 14* | 222112.00 * | 000003.00 | | | DRZ(N),3 | MA000012 |
| 15* | 222115.00 | | | 01 | SAEOJT DD(BU,4,8),1 -TENTACLE TABLE FOR EOJ | MA000013 |
| 16* | 222115.04 * | 000000.51 | | | DRZ(BU,41,8),1 | MA000014 |
| 17* | | | | | EXT(0,18) | MA000015 |
| 18* | 222115.55 | | | 0444350 | R,AEOJ | MA000015 |
| 19* | 222116.00 * | 000002.00 | | | DRZ(N),2 | MA000016 |
| 20* | 222120.00 | | | 01 | SCDRYT DD(BU,4,8),1 -TENTACLE TABLE FOR -CUTPUT- | MA000017 |
| 21* | 222120.04 * | 000000.51 | | | DRZ(BU,41,8),1 | MA000018 |
| 22* | | | | | EXT(0,18) | MA000019 |
| 23* | 222120.55 | | | 0450070 | B,CDRY | MA000019 |
| 24* | 222121.00 * | 000002.00 | | | DRZ(N),2 | MA000020 |
| 25* | 222123.00 | 223744.14 | 80 | 001000.00 | FO ASPUO CM0000(BU,1),AEOJI -TURN OFF EOJ INDICATOR | MA000021 |
| 26* | 222124.00 | 000027.00 | 80 | 223753.22 | AC TI,9,\$7,CXR7 | MA000022 |
| 27* | 222125.00 | 222114.25 | 80 | | LVE,AX,SASPUT+3. -EFFECTIVE ADDRESS FROM TENTACLE TBLE | MA000023 |
| 28* | 222125.40 | 222114.64 | 50 | | LC,AX,SASPUT+3.32 -NUMBER OF CARDS TO TRANSMIT | MA000024 |
| 29* | 222126.00 | 000027.22 | 00 | | Z,\$7 | MA000025 |
| 30* | 222126.40 | 222114.40 | 80 | 022027.20 | 50 L(BU,18),SASPUT+3.32,46 | MA000026 |
| 31* | 222127.40 | 170000.00 | 80 | 406012.21 | 90 *I(BU,6),15,20 | MA000027 |
| 32* | 222130.40 | 222111.04 | 80 | 222134.34 | 02 BB,SASPUT.4,RNOCHK- | MA000028 |
| 33* | 222131.40 | 000010.00 | 80 | 000040.06 | 70 LF(BU,64),\$L,64 | MA000029 |
| 34* | 222132.40 | 222223.34 | 00 | | BZRZ,ACHERR | MA000030 |
| 35* | 222133.00 | 222222.40 | 80 | | SIC,ACFKBR | MA000031 |
| 36* | 222133.40 | 222217.10 | 00 | | B,ACHK | MA000031 |
| 37* | 222134.00 | 223257.22 | 10 | | RNOCHK LX,AY,ACWA- VF INDICATES AVAILABLE PUNCH BUFFER,AACX | MA000032 |
| 38* | | | | | - CF CONTAINS NUMBER OF FULL WORDS AVAILABLE IN PUNCH BUFFER | MA000033 |
| 39* | 222134.40 | 223256.20 | 10 | | LX,AZ,AXWZ -CF CONTAINS 15,=OF FULL WORDS PER CARD IM | MA000034 |
| 40* | 222135.00 | 000000.25 | 0A | | AACS1 KCI,AX,C -DOES PP WANT MORE CARDS PUNCHED | MA000035 |
| 41* | 222135.40 | 222143.72 | 02 | | BXE,AACS2 -NO,SAVE INDEX AY AND RETURN TO PP | MA000036 |
| 42* | 222136.00 * | 223743.01 | 80 | 222147.34 | 02 BB,ABTA,AAOS3 -IS BUFFER T AVAILABLE | MA000037 |
| 43* | 222137.00 | 000001.00 | 8A | 100000.20 | 50 AACS7 L(BU,64,8)(V+I),1.(AX) -TRANSMIT ONE WORD FROM PP | MA000038 |
| 44* | 222140.00 | 000001.00 | 89 | 100000.20 | 00 ST(BU,64,8)(V+I),1.(AY) -TO BUFFER T DISREGARDING WORD BOUNDA | MA000039 |
| 45* | 222141.00 | 222137.20 | 4C | | CBR,AZ,AAOS7 -REPEAT LOOP TILL 1 CARD IMAGE HAS BEEN TR | MA000040 |
| 46* | 222141.40 | 000001.25 | 08 | | C-I,AX,1 -REDUCE NNO. CF CARDS TO RANSMIT BY ONE. | MA000041 |
| 47* | 222142.00 | 000017.23 | 08 | | C-I,AY,15 -REDUCE NUMBER OF WRDS AVAIL IN BUFFER BY 1 | MA000042 |
| 48* | 222142.40 | 222162.30 | 42 | | BXCZ,AACS4 -IS BUFFER T FULL | MA000043 |
| 49* | 222143.00 | 222135.10 | 00 | | B,AAOS1 -NO-TRY TO TRANSMIT ANOTHER CARD | MA000044 |
| 50* | 222143.40 | 223257.23 | 10 | | AAOS2 SX,AY,ACWA -SAVE TRANSMISSION INDEX | MA000045 |
| 51* | 222144.00 | 223744.10 | 80 | 222223.34 | 06 ARET BBZ,APPERR,ACHERR | MA000046 |
| 52* | 222145.00 | 223753.00 | 80 | 000027.22 | AC TI,9,CXR7,\$7 | MA000047 |
| 53* | 222146.00 | 000040.10 | 00 | | ARET1 B,\$MCP | MA000048 |
| 54* | 222146.40 | 000041.00 | 80 | | ,\$RET | MA000049 |
| 55* | 222147.00 | 223744.07 | 80 | 222136.34 | 02 AACS3 BB,ABWA,AAOS7-1. -IS BUFFER W UNAVAILABLE ALSO | MA000050 |
| 56* | 222150.00 | 222137.37 | 01 | | LVI,\$15,AAOS7 -SWITCH LOGICAL BUFFERS + RET TO TRANSMIT | MA000051 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 222150 | |
|------|-------------|-----------|--------|-----------|-----------|----------|---|----------|
| 1* | 222150.40 | 223744.11 | 80 | 222150.74 | 02 | ASWCH | BB,CATUB,\$ -TEST IF OUTPUT TAPE IS BUSY | MA000052 |
| 2* | 222151.40 * | 223743.01 | 80 | 001000.00 | FC | | CMOC00,ABTA -MAKE BUFFER T AVAILABLE | MA000053 |
| 3* | 222152.40 | 222161.77 | 00 | | | | SVA,15,RSVRET | MA000054 |
| 4* | 222153.00 | 223744.07 | 80 | 001000.36 | FO | | CM1111,ABWA - MAKE BUFFER W UNAVAILABLE | MA000055 |
| 5* | 222154.00 | 223745.21 | 80 | 222155.34 | 0A | | BBN,AACX+.17,\$+1. -INVERT OUTPUT BUFFER POINTER | MA000056 |
| 6* | | | | | | | - SET UP CORRECT CONTROL WORD FOR WRITE | MA000057 |
| 7* | 222155.00 | 223745.16 | 30 | | | | LV,AN,AACX -LOAD INDEX WITH OUTPUT BUFFER POINTER | MA000058 |
| 8* | 222155.40 | 223744.11 | 80 | 001100.36 | FO | | CM1111,CATUB -MAKE TAPE UNAVAILABLE | MA000059 |
| 9* | 222156.40 | 222177.35 | 01 | | | | LVI,\$14,AWEXIT | MA000060 |
| 10* | 222157.00 | 224046.35 | 00 | | | | SVA,\$14,AGP | MA000061 |
| 11* | 222157.40 | 000040.10 | 00 | | | | B,\$MCP | MA000062 |
| 12* | 222160.00 | 000001.40 | 80 | | | | ,\$W | MA000063 |
| 13* | 222160.40 | 224032.01 | 80 | | | | LVE,,AMR | MA000064 |
| 14* | 222161.00 | 223750.00 | 87 | | | | ,\$ACW1(AN) | MA000065 |
| 15* | 222161.40 | 000000.10 | 00 | | | RSVRET | B,0 | MA000066 |
| 16* | 222162.00 | 223743.01 | 80 | 001000.36 | FO | AACS4 | CM1111,ABTA -MAKE BUFFER T UNAVAILABLE | MA000067 |
| 17* | 222163.00 | 000031.02 | 00 | | | | R,AY -REFILL TRANSMISSION INDEX | MA000068 |
| 18* | 222163.40 | 222135.10 | 00 | | | | B,AAOS1 -GO TO TRANSFER MORE CARDS | MA000069 |
| 19* | 222164.00 | 223744.14 | 80 | 001100.36 | FO | AECJ | CM1111(BU,1,1),AECJ1-TURN ON ECJ INDICATOR | MA000070 |
| 20* | 222165.00 * | 000027.00 | 80 | 223753.22 | AC | | TI,9,\$7,CXR7 | MA000071 |
| 21* | 222166.00 | 223743.01 | 80 | 222173.74 | 02 | AECJ1 | BB,ABTA,AEOJ2 -IS BUFFER T AVAIL FOR TRANSMISSION | MA000072 |
| 22* | 222167.00 | 223257.22 | 10 | | | | LX,AY,ACWA -PICKUP TRANSMISSION INDEX | MA000073 |
| 23* | 222167.40 | 000226.23 | 0A | | | | KCI,AY,ACRD15 -TEST IF BUFFER IS FULL | MA000074 |
| 24* | | | | | | | - ADDRESS IS Y,WHERE Y=(80*12*ACRD+5)/64 | MA000075 |
| 25* | 222170.00 | 222271.32 | C2 | | | | BXE,CECJ -TEST IF ALL LINES ARE AVAILABLE IN BUFF | MA000076 |
| 26* | 222170.40 | 000000.00 | 89 | 000000.00 | FO | AECJ3 | CMOC00(BU,64),(AY) -FILL UP REMAINING WRDS WITH ZERO | MA000077 |
| 27* | 222171.40 | 222170.63 | 48 | | | | CB+,AY,AECJ3 -COUNT IF ALL WORDS ARE DONE | MA000078 |
| 28* | 222172.00 | 223257.02 | 00 | | | | R,ACWA -REFILL TRANSMISSION INDEX | MA000079 |
| 29* | 222172.40 | 223743.01 | 80 | 001000.36 | FC | | CM1111,ABTA -MAKE BUFFER T UNAVAILABLE | MA000080 |
| 30* | 222173.40 | 223744.07 | 80 | 222166.34 | 02 | AECJ2 | BB,ABWA,AEOJ1 -LOOP IF W IS BEING WRITTEN OUT | MA000081 |
| 31* | 222174.40 | 223743.01 | 80 | 222271.34 | 00 | | BZB,ABTA,CECJ -IF T IS AVAIL, GO TO PRINT ECJ | MA000082 |
| 32* | 222175.40 | 222271.37 | 01 | | | | LVI,\$15,CECJ -LOAD INDEX WITH EXIT | MA000083 |
| 33* | 222176.00 | 222150.50 | 00 | | | | B,ASWCH -GO TO WRITE OUT BUFFER | MA000084 |
| 34* | 222176.40 | 000000.30 | 00 | | | | CNOP, | MA000085 |
| 35* | 222177.00 * | 000002.00 | | | | AWEXIT | DRZ(N),2 -TABLE OF EXITS FOR PUNCH BUFFER | MA000086 |
| 36* | 222201.00 | 222213.10 | 00 | | | | B,AWUK | MA000087 |
| 37* | 222201.40 | 000000.30 | 00 | | | | NCP -UK | MA000087 |
| 38* | 222202.00 | 222210.10 | 00 | | | | B,AWEE | MA000088 |
| 39* | 222202.40 | 000000.30 | 00 | | | | NOP -EE | MA000088 |
| 40* | 222203.00 | 000040.10 | 00 | | | | B,\$MCP | MA000089 |
| 41* | 222203.40 | 000041.00 | 80 | | | | ,\$RET | MA000090 |
| 42* | 222204.00 | 223744.11 | 80 | 001100.00 | FO | AWEOP | CMOC00,CATUB -MAKE TAPE AVAILABLE | MA000091 |
| 43* | 222205.00 | 223744.07 | 80 | 001000.00 | FO | | CMOC00,ABWA -MAKE BUFFER W AVAILABLE | MA000092 |
| 44* | 222206.00 | 223743.01 | 80 | 222320.34 | 00 | | BZB,ABTA,CRET - BUFFER T AVAILABLE, RET | MA000093 |
| 45* | 222207.00 | 222320.37 | 01 | | | | LVI,\$15,CRET - BUFF T UNAVAILABLE, WRITE OUT AND RET | MA000094 |
| 46* | 222207.40 | 222150.50 | 00 | | | | B,ASWCH -GO TO WRITE OUT BUFFER | MA000095 |
| 47* | 222210.00 | 223744.14 | 80 | 222204.34 | 02 | AWEE | BB,AECJ1,AWEOP -IF ECJ INDIC IS ON, TAKE EOP ACTION | MA000096 |
| 48* | 222211.00 | 223742.05 | 80 | 001100.36 | FC | | CM1111(BU,1,1),CTRAIL+.05 -PHYSICAL END OF TAPE | MA000097 |
| 49* | 222212.00 | 222205.37 | 01 | | | | LVI,\$15,AWEOP+1. -LOAD INDEX WITH EXIT | MA000098 |
| 50* | 222212.40 | 222404.10 | 00 | | | | B,ATSWCH -TAPE SWITCH | MA000099 |
| 51* | 222213.00 | 222177.44 | 30 | | | AWUK | LV,\$2,AWEXIT.32 -PICK UP ACTUATED ADDRESS | MA000100 |
| 52* | 222213.40 | 222177.03 | 01 | | | | LVI,\$1,AWEXIT -TABLE OF EXITS | MA000101 |
| 53* | 222214.00 * | 222505.47 | 01 | | | | LVI,\$3,ANFM | MA000102 |
| 54* | 222214.40 | 222200.11 | 80 | 222521.74 | 02 | | BB,AWEXIT+1.09,AEPGK -REQUEST RING | MA000103 |
| 55* | 222215.40 | 222200.14 | 80 | 222527.74 | 00 | | BZB,AWEXIT+1.12,ALNUKC -UK ALONE - UNIT TROUBLE | MA000104 |
| 56* | 222216.40 | 222333.50 | 00 | | | | B,CKUK -GO TO GENERAL WRITE UK ROUTINE | MA000105 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | CC0032 |
|------|-------------|-----------|-----------|-----------|--|--|----------|
| 1* | 000032.00+ | +00000000 | BU,100,10 | AX | SYN,\$10 | | MA000106 |
| 2* | 000031.00+ | +00000000 | BU,100,10 | AY | SYN,\$9 | | MA000107 |
| 3* | 000030.00+ | +00000000 | BU,100,10 | AZ | SYN,\$8 | | MA000108 |
| 4* | 000027.00+ | +00000000 | BU,100,10 | AN | SYN,\$7 | | MA000109 |
| 5* | 222217.00 | 215324.64 | 90 | ACHK | KV,\$10,SPPLB- | | MA000110 |
| 6* | 222217.40 | 222223.32 | 42 | | BXL,ACHERR | -REQUEST OUT OF BOUNDS | MA000111 |
| 7* | 222220.00 | 000032.00 | 80 | 022027.20 | 10 | +(BU,18),\$10,46 | MA000112 |
| 8* | 222221.00 | 215324.00 | 80 | 022027.21 | 10 | K(BU,18),SPPUB,46 | MA000113 |
| 9* | 222222.00 | 222223.37 | 42 | | BAH,ACHERR | | MA000114 |
| 10* | 222222.40 | 222222.50 | 00 | ACHKBR | E,\$ | | MA000115 |
| 11* | 222223.00 | 215571.00 | 80 | ACHERR | SIC,SPRIMR | | MA000116 |
| 12* | 222223.40 | 215570.04 | 00 | | BD,SPRIME | | MA000116 |
| 13* | 222224.00 | 000103.40 | 80 | | ,\$SPR | | MA000117 |
| 14* | 222224.40 | 223764.00 | 80 | | ,ASERR | | MA000117 |
| 15* | 222225.00 | 000001.00 | 80 | | ,1. | | MA000117 |
| 16* | 222225.40 | 215571.00 | 80 | | SIC,SPRIMR | | MA000118 |
| 17* | 222226.00 | 215570.04 | 00 | | BD,SPRIME | | MA000118 |
| 18* | 222226.40 | 000104.00 | 80 | | ,\$ABEQJ | | MA000119 |
| 19* | 222227.00 | 222144.00 | 00 | | BE,ARET | | MA000120 |
| 20* | | | | - | TRANSMIT N PRINT LINES FROM PP TO PRINT BUFFER | | MA000121 |
| 21* | 222227.40 * | 223744.14 | 80 | 001000.00 | FC | CSTART | MA000122 |
| 22* | 222230.40 | 000027.00 | 80 | 223753.22 | AO | CMOC00(BU,1),AEOJI -TURN OFF ECJ INDICATOR | MA000123 |
| 23* | 222231.40 | 222110.25 | 80 | | TI,9,\$7,CXR7 | | MA000124 |
| 24* | 222232.00 | 222110.64 | 50 | | LVE,\$10,SCSPRT+3. | -EFFECTIVE ADDRESS FROM TENTACLE TBLE | MA000125 |
| 25* | 222232.40 | 000027.22 | 00 | | LC,\$10,SCSPRT+3.32 | -NUMBER OF LINES TO TRANSMIT | MA000126 |
| 26* | 222233.00 | 222110.40 | 80 | 022027.20 | 50 | Z,\$7 | MA000127 |
| 27* | 222234.00 | 210000.00 | 80 | 406012.21 | 90 | L(BU,18),SCSPRT+3.32,46 | MA000128 |
| 28* | 222235.00 | 222105.04 | 80 | 222240.74 | 02 | *I(BU,6),17,20 | MA000129 |
| 29* | 222236.00 | 000010.00 | 80 | 000040.06 | 70 | BB,SCSPRT.4,RNOLCK- | MA000130 |
| 30* | 222237.00 | 222223.34 | 00 | | LF(BU,64),\$L,64 | | MA000131 |
| 31* | 222237.40 | 222222.40 | 80 | | BZRZ,ACHERR | | MA000132 |
| 32* | 222240.00 | 222217.10 | 00 | | SIC,ACHKBR | | MA000132 |
| 33* | 222240.40 | 222577.20 | 10 | | B,ACHK | | MA000133 |
| 34* | 222241.00 | 000000.25 | 0A | | RNOLCK | LX,\$8,CWA- | MA000134 |
| 35* | 222241.40 | 222253.72 | C2 | | CACS1 | KCI,\$10,C | MA000135 |
| 36* | 222242.00 | 000020.23 | C2 | | | BXE,CACS2 | MA000136 |
| 37* | 222242.40 * | 223743.00 | 80 | 222254.74 | 02 | LCI,\$9,16 | MA000137 |
| 38* | 222243.40 | 000001.00 | 8A | 100000.06 | 70 | BB,CBTA,CAOS3 | MA000138 |
| 39* | 222244.40 | 000000.60 | 88 | 160600.12 | FO | LF(BU,64,8)(V+I),1.(\$10) -YES,TRANSMIT 16 FULL WORDS FROM | MA000139 |
| 40* | 222245.40 | 222243.62 | 48 | | SF(BU,48,6)(V+I),.48(\$8) | | MA000140 |
| 41* | 222246.00 | 000001.00 | 8A | 250000.06 | 70 | CB,\$9,CTRANS | MA000141 |
| 42* | 222247.00 | 000000.36 | 88 | 136600.12 | FO | LF(BU,40,8)(V+IC),1.(\$10) -TRANSMIT LAST 5 BYTES | MA000142 |
| 43* | 222250.00 | 000001.21 | 08 | | SF(BU,30,6)(V+I),.30(\$8) | | MA000143 |
| 44* | | | | | C-I,\$8,1 | -REDUCE NUMBER OF LINES AVAILABLE | MA000144 |
| 45* | 222250.40 | 222251.70 | 42 | | | -IN BUFFER BY ONE | MA000145 |
| 46* | 222251.00 | 222241.10 | 00 | | BXCZ,CAOS4 | -NO LINES LEFT,MAKE T UNAVAIL | MA000146 |
| 47* | 222251.40 | 223743.00 | 80 | 001000.36 | FO | B,CAOS1 | MA000147 |
| 48* | 222252.40 | 000030.02 | 00 | | CACS4 | CM1111,CBTA | MA000148 |
| 49* | 222253.00 | 222241.10 | 00 | | | R,\$8 | MA000149 |
| 50* | 222253.40 | 222577.21 | 10 | | CACS2 | B,CAOS1 | MA000150 |
| 51* | 222254.00 | 222144.10 | 00 | | | SX,\$8,CWA | MA000151 |
| 52* | 222254.40 | 223744.06 | 80 | 222242.74 | 02 | B,ARET | MA000152 |
| 53* | 222255.40 | 222243.77 | 01 | | CACS3 | BB,CBWA,CTRANS-1. | MA000153 |
| 54* | 222256.00 * | 223744.11 | 80 | 222256.34 | 02 | BB,CATUB,\$ | MA000154 |
| 55* | 222257.00 | 222270.10 | 00 | | CXY | B,CXZ | MA000155 |
| 56* | 222257.40 | 223743.00 | 80 | 001000.00 | FO | CMOC00,CBTA | MA000156 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 222260 |
|------|-----------|-------------|--------|-----------|-----------------------------------|---------------------------------------|----------|
| 1* | 222260.40 | 222267.77 | D0 | | SVA,15,RSVRT1 | | MA000157 |
| 2* | 222261.00 | 223744.06 | 80 | 001000.36 | FO CM1111,CBWA | -W UNAVAIL | MA000158 |
| 3* | 222262.00 | 223744.61 | 80 | 222263.34 | OA BBN,CCX+.17,\$+1. | -INVERT BIT,OUTPUT BUFFER POINTER | MA000159 |
| 4* | 222263.00 | 223744.56 | 30 | | LV,\$7,CCX | -OUTPUT BUFFER POINTER | MA000160 |
| 5* | 222263.40 | 223744.11 | 80 | 001100.36 | FO CM1111,CATUB | -MAKE TAPE UNAVAILABLE | MA000161 |
| 6* | 222264.40 | 222314.35 | 01 | | LVI,\$14,CEXN | | MA000162 |
| 7* | 222265.00 | 224046.35 | D0 | | SVA,\$14,ACP | | MA000163 |
| 8* | 222265.40 | 000040.10 | 00 | | B,\$MCP | | MA000164 |
| 9* | 222266.00 | 000001.40 | 80 | | ,\$W | | MA000165 |
| 10* | 222266.40 | 224032.01 | 80 | | LVE,,\$AMR | | MA000166 |
| 11* | 222267.00 | 222575.00 | 87 | | ,\$CW(\$7) | | MA000167 |
| 12* | 222267.40 | 000000.10 | 00 | RSVRT1 | B,0 | | MA000168 |
| 13* | 222270.00 | 222257.23 | 80 | 222257.74 | OC CXZ BZB1,CXY+.19,CAOS3B | | MA000169 |
| 14* | 222271.00 | 223743.00 | 80 | 222302.74 | 02 CECJ BB,CBTA,CEQJ2 | -IS BUFFER T AVAIL FOR TRANSMISSION | MA000170 |
| 15* | 222272.00 | * 222577.20 | 10 | | LX,\$8,CWA | -YES-DOES IT HAVE ALL | MA000171 |
| 16* | 222272.40 | 000014.21 | CA | | KCI,\$8,CNUM | -LINES AVAILABLE | MA000172 |
| 17* | 222273.00 | 222305.72 | C2 | | BXE,CEQJ4 | -YES-GO TO WRITE EOP | MA000173 |
| 18* | 222273.40 | 223741.22 | 10 | | LX,\$9,CXFILL | -LOAD INDEX | MA000174 |
| 19* | 222274.00 | 000000.06 | 89 | 122600.06 | 70 CECJ3 LF(BU,18,6)(V+I),.6(\$9) | -FILL REST OF BUFFER WITH | MA000175 |
| 20* | 222275.00 | 000000.22 | 88 | 122600.12 | FO SF(BU,18,6)(V+I),.18(\$8) | -BLANKS | MA000176 |
| 21* | 222276.00 | 000000.00 | 89 | 074600.06 | 70 LF(BU,60,6),0(\$9) | | MA000177 |
| 22* | 222277.00 | 000000.74 | 88 | 174600.12 | FO SF(BU,60,6)(V+I),.60(\$8) | | MA000178 |
| 23* | 222300.00 | 222277.22 | 4C | | CBR,\$9,\$-1. | | MA000179 |
| 24* | 222300.40 | 222274.20 | 4C | | CBR,\$8,CEQJ3 | | MA000180 |
| 25* | 222301.00 | 222577.21 | 10 | | SX,\$8,CWA | -SAVE TRANSMISSION INDEX | MA000181 |
| 26* | 222301.40 | 223743.00 | 80 | 001000.36 | FO CM1111,CBTA | -MAKE BUFFER T UNAVAILABLE | MA000182 |
| 27* | 222302.40 | 223744.06 | 80 | 222271.34 | 02 CECJ2 BB,CBWA,CEQJ | -LOOP, NO EOP FOR BUFF W YET | MA000183 |
| 28* | 222303.40 | 223743.00 | 80 | 222305.74 | CC BZB,CBTA,CEQJ4 | -TEST IF BUFFER T IS AVAILABLE | MA000184 |
| 29* | 222304.40 | 222305.77 | 01 | | LVI,\$15,CEQJ4 | -WHERE TO GO AFTER OUTPUT | MA000185 |
| 30* | 222305.00 | 222256.10 | 00 | | B,CAOS3A | -ENTER OUTPUT SR | MA000186 |
| 31* | 222305.40 | * 223744.11 | 80 | 222305.74 | 02 CECJ4 BB,CATUB,\$ | -WAIT IF TAPE IS BUSY | MA000187 |
| 32* | 222306.40 | 223744.11 | 80 | 001100.36 | FO CM1111,CATUB | -MAKE TAPE UNAVAILABLE | MA000188 |
| 33* | 222307.40 | 222371.35 | 01 | | LVI,\$14,CEXEF | | MA000189 |
| 34* | 222310.00 | 224046.35 | D0 | | SVA,\$14,AOP | | MA000190 |
| 35* | 222310.40 | 000040.10 | 00 | | B,\$MCP | | MA000191 |
| 36* | 222311.00 | 000007.40 | 80 | | ,\$WEF | | MA000192 |
| 37* | 222311.40 | 224032.01 | 80 | | LVE,,\$AMR | | MA000193 |
| 38* | 222312.00 | 223743.03 | 80 | 224037.74 | 06 BBZ,AOPTRI,CDRY1 | -HAS OUTPUT BEEN REQUESTED | MA000194 |
| 39* | 222313.00 | 222144.10 | 00 | | B,ARET | -GO TO RESTORE AND EXIT | MA000195 |
| 40* | 222313.40 | 000000.30 | 00 | | CNOP, | | MA000196 |
| 41* | 222314.00 | * 000002.00 | | CEXN | DRZ(N),2 | -TABLE OF EXITS FOR PRINT BUFFER | MA000197 |
| 42* | 222316.00 | 222330.10 | 00 | | B,CUKN | | MA000198 |
| 43* | 222316.40 | 000000.30 | 00 | | NCP | -UK | MA000198 |
| 44* | 222317.00 | 222325.10 | 00 | | B,CEEN | | MA000199 |
| 45* | 222317.40 | 000000.30 | 00 | | CNOP | -EE | MA000199 |
| 46* | 222320.00 | 000040.10 | 00 | CRET | B,\$MCP | | MA000200 |
| 47* | 222320.40 | 000041.00 | 80 | | ,\$RET | | MA000200 |
| 48* | | | | - | EOP ON NORMAL WRITE | | MA000201 |
| 49* | 222321.00 | 223744.11 | 80 | 001100.00 | FO CECPN CM0000,CATUB | -MAKE TAPE AVAILABLE | MA000202 |
| 50* | 222322.00 | 223744.06 | 80 | 001000.00 | FO CM0000,CBWA | -MAKE BUFFER W UNAVAILABLE | MA000203 |
| 51* | 222323.00 | 223743.00 | 80 | 222320.34 | 00 BZB,CBTA,CRET | -IS T AVAIL FOR TRANS | MA000204 |
| 52* | 222324.00 | 222320.37 | 01 | | LVI,\$15,CRET | -WHERE TO GO AFTER OUTPUT | MA000205 |
| 53* | 222324.40 | 222256.10 | 00 | | B,CAOS3A | -GO TO OUTPUT SR | MA000206 |
| 54* | | | | - | EE ON NORMAL WRITE | | MA000207 |
| 55* | 222325.00 | 223744.14 | 80 | 222321.34 | 02 CEEN BB,AEOJI,CECPN | -IF EOJ INDIC. IS ON, TAKE EOP ACTION | MA000208 |
| 56* | 222326.00 | 223742.05 | 80 | 001100.36 | FO CM1111(BU,1,1),CTRIL+.C5 | -PHYSICAL END OF TAPE | MA000209 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 222327 |
|------|-------------|-----------|--------|--------|-----------------------|--------------------------------------|----------|
| 1* | 222327.00 | 222322.37 | 01 | | LVI,\$15,CEOPN+1. | -LOAD INDEX WITH EXIT | MA000210 |
| 2* | 222327.40 | 222404.10 | 00 | | B,ATSWCH | -BRANCH TO TAPE SWITCH | MA000211 |
| 3* | 222330.00 | 222314.44 | 30 | CUKN | LV,\$2,CEXN.32 | -ACTUATED ADDRESS | MA000212 |
| 4* | 222330.40 | 222314.C3 | 01 | | LVI,\$1,CEXN | -TABLE OF EXITS | MA000213 |
| 5* | 222331.00 * | 222505.47 | 01 | | LVI,\$3,ANFM | | MA000214 |
| 6* | 222331.40 | 222315.11 | 80 | | BR,CEXN+1.09,AEPGK | -REQUEST RING | MA000215 |
| 7* | 222332.40 | 222315.14 | 80 | | BZB,CEXN+1.12,ALNUKC | -UK ALCNE - UNIT TROUBLE | MA000216 |
| 8* | 222333.40 | 222516.43 | 00 | CKUK | SVA,\$1,ANFMEX | -SAVE TABLE OF EXITS | MA000217 |
| 9* | 222334.00 | 222347.07 | 00 | | SVA,\$3,CKRUK | | MA000218 |
| 10* | 222334.40 | 223745.46 | 50 | | LC,\$3,AUKCT | -SET UP BSP, ERGS, W LOOP COUNT | MA000219 |
| 11* | 222335.00 | 223746.C7 | 50 | | SC,\$3,AWRCT | | MA000220 |
| 12* | 222335.40 | 000040.10 | 00 | | B,\$MCP | | MA000221 |
| 13* | 222336.00 | 000002.00 | 80 | | ,\$CCW | | MA000221 |
| 14* | 222336.40 | 224032.01 | 80 | | LVE,,AMR | | MA000221 |
| 15* | 222337.00 | 223740.00 | 80 | | ,\$CKERIC | | MA000221 |
| 16* | 222337.40 | 223740.C2 | 00 | | R,CKERIC | -PICK UP CURRENT CONTROL WORD | MA000222 |
| 17* | 222340.00 | 223746.C6 | 50 | CKRGUK | LC,\$3,AWRCT | | MA000223 |
| 18* | 222340.40 | 222347.C6 | 4A | | CBZ,\$3,CKRUK | -IF RETRIED N TIMES TELL OPERATOR | MA000224 |
| 19* | 222341.00 | 223746.C7 | 50 | | SC,\$3,AWRCT | | MA000225 |
| 20* | 222341.40 | 223745.46 | 50 | | LC,\$3,AUKCT | -SET UP BSP COUNTER | MA000226 |
| 21* | 222342.00 | 223746.47 | 50 | | SC,\$3,ABSPCT | | MA000227 |
| 22* | 222342.40 | 222350.33 | 01 | | LVI,\$13,CUKUK | -SET UP NEW TABLE OF EXITS FOR BSP | MA000228 |
| 23* | 222343.00 | 224046.33 | 00 | | SVA,\$13,AOP | | MA000229 |
| 24* | 222343.40 | 223746.46 | 50 | CBSPUK | LC,\$3,ABSPCT | -HAS BSP BEEN RETRIED N TIMES | MA000230 |
| 25* | 222344.00 | 222347.C6 | 4A | | CBZ,\$3,CKRUK | -YES - TELL OPERATOR | MA000231 |
| 26* | 222344.40 * | 223746.47 | 50 | | SC,\$3,ABSPCT | | MA000232 |
| 27* | 222345.00 | 000040.10 | 00 | | B,\$MCP | | MA000233 |
| 28* | 222345.40 | 000006.C0 | 80 | | ,\$BSP | | MA000233 |
| 29* | 222346.00 | 224032.01 | 80 | | LVE,,AMR | | MA000233 |
| 30* | 222346.40 | 222320.10 | 00 | | B,CRET | | MA000234 |
| 31* | 222347.00 | 222347.10 | 00 | CKRUK | B,\$ | | MA000235 |
| 32* | 222347.40 | 000000.30 | 00 | | CNOP, | | MA000236 |
| 33* | 222350.00 * | 000002.C0 | | CUKUK | DRZ(N),2 | -TABLE OF EXITS FOR BSP IN CBSPUK | MA000237 |
| 34* | 222352.00 | 222343.50 | 00 | | B,CBSPUK | | MA000238 |
| 35* | 222352.40 | 000000.30 | 00 | | NCP | | MA000238 |
| 36* | 222353.00 | 222355.10 | 00 | | B,CKERG | | MA000239 |
| 37* | 222353.40 | 000000.30 | 00 | | NCP | | MA000239 |
| 38* | 222354.00 | 000040.10 | 00 | | B,\$MCP | | MA000240 |
| 39* | 222354.40 | 000041.C0 | 80 | | ,\$RET | | MA000240 |
| 40* | 222355.00 | 222351.14 | 80 | CKERG | BZB,CUKUK+1.12,CBSPLK | -NO EOP - BSP TROUBLE | MA000241 |
| 41* | 222356.00 | 222363.35 | 01 | | LVI,\$14,CKWRIT | -SET UP TABLE OF EXITS FOR ERGS,W | MA000242 |
| 42* | 222356.40 | 224046.35 | 00 | | SVA,\$14,AOP | | MA000243 |
| 43* | 222357.00 | 000040.10 | 00 | | B,\$MCP | | MA000244 |
| 44* | 222357.40 | 000005.01 | 80 | | ,\$ERGS | | MA000244 |
| 45* | 222360.00 | 224032.01 | 80 | | LVE,,AMR | | MA000244 |
| 46* | 222360.40 | 000040.10 | 00 | | B,\$MCP | | MA000245 |
| 47* | 222361.00 | 000001.40 | 80 | | ,\$W | | MA000245 |
| 48* | 222361.40 | 224032.C1 | 80 | | LVE,,AMR | | MA000245 |
| 49* | 222362.00 | 223740.00 | 80 | | ,\$CKERIC | | MA000245 |
| 50* | 222362.40 | 222320.10 | 00 | | B,CRET | | MA000246 |
| 51* | | | | | CNOP, | | MA000247 |
| 52* | 222363.00 * | 000002.C0 | | CKWRIT | DRZ(N),2 | -TABLE OF EXITS FOR ERGS, W IN CKERG | MA000248 |
| 53* | 222365.00 | 222340.10 | 00 | | B,CKRGUK | | MA000249 |
| 54* | 222365.40 | 000000.30 | 00 | | NCP | | MA000249 |
| 55* | 222366.00 | 222516.42 | 30 | | LV,\$1,ANFMEX | | MA000250 |
| 56* | 222366.40 | 000003.10 | 01 | | B,3.(\$1) | -GO TO CRIG. \$W EE FIXUP | MA000250 |

| LINE | LOCATCN | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 222367 |
|------|-------------|-----------|--------|--------------|---|----------|----------|
| 1* | 222367.00 | 000040.10 | 00 | | B,\$MCP | | MA000251 |
| 2* | 222367.40 | 000041.00 | 80 | | ,\$RET | | MA000251 |
| 3* | 222370.00 | 222516.42 | 30 | | LV,\$1,ANFMEX | | MA000252 |
| 4* | 222370.40 | 000005.10 | 01 | | B,5.(\$1) -GO TO ORIG. \$W EOP FIXUP | | MA000252 |
| 5* | | | | - | TABLES OF EXITS | | MA000253 |
| 6* | | | | - | EXITS FOR WTM(AT EOP TIME) | | MA000254 |
| 7* | | | | | CNOP, | | MA000255 |
| 8* | 222371.00 * | 000001.00 | | CEXEF | DR(N),1 -REF. NO,ACTUATED ADDRESS | | MA000256 |
| 9* | 222372.00 | 000001.00 | | | DR(N),1 -INDICATORS, INTERRUPT ADDRESS | | MA000257 |
| 10* | 222373.00 | 222402.50 | 00 | | B,CUKEFA | | MA000258 |
| 11* | 222373.40 | 000000.30 | 00 | | NOP -UK | | MA000258 |
| 12* | 222374.00 | 222377.50 | 00 | | B,CEEEF | | MA000259 |
| 13* | 222374.40 | 000000.30 | 00 | | CNOP -EE | | MA000259 |
| 14* | 222375.00 | 000040.10 | 00 | | B,\$MCP | | MA000260 |
| 15* | 222375.40 | 000041.00 | 80 | | ,\$RET | | MA000261 |
| 16* | | | | - | EOP ON WRITE TAPE MARK | | MA000262 |
| 17* | 222376.00 | 223744.11 | 80 | 001100.00 FC | CECPEF CM0000,CATUB -RELEASE TAPE | | MA000263 |
| 18* | 222377.00 | 222320.10 | 00 | | B,CRET | | MA000264 |
| 19* | | | | - | EE ON WRITE TAPE MARK | | MA000265 |
| 20* | 222377.40 | 223742.05 | 80 | 001100.00 FO | CEEEF CM0000(BU,1,1),CTRAIL+.05 -PHYSICAL AND LOGICAL END OF TAPE | | MA000266 |
| 21* | 222400.40 | 223743.02 | 80 | 001000.00 FO | CM0000,ATMI -ONE END OF FILE TO BE WRITTEN | | MA000267 |
| 22* | 222401.40 | 222377.37 | 01 | | LVI,\$15,CEOPEF+1. -LOAD INDEX WITH EXIT | | MA000268 |
| 23* | 222402.00 | 222405.10 | 00 | | B,ATSWC3 -GO TO TAPE SWITCH | | MA000269 |
| 24* | 222402.40 | 222371.35 | 01 | | CUKEFA LVI,\$14,CEXEF -CURRENT TABLE OF EXITS-SUCCESS. WEF | | MA000270 |
| 25* | 222403.00 | 222443.33 | 01 | | LVI,\$13,AOFM -EXIT UPON FAILURE TO WEF | | MA000271 |
| 26* | 222403.40 | 222423.50 | 00 | | B,AUKEF -IF \$WEF FAILS N TIMES | | MA000272 |
| 27* | 222404.00 | 223743.02 | 80 | 001000.36 FO | ATSWCH CM1111,ATMI -TAPE MARK INDICATOR | | MA000273 |
| 28* | 222405.00 | 222500.37 | 00 | | ATSWC3 SVA,\$15,ATSWC1 -STORE RETURN | | MA000274 |
| 29* | 222405.40 | 222411.35 | 01 | | LVI,\$14,ATSXIT | | MA000275 |
| 30* | 222406.00 * | 224046.35 | 00 | | SVA,\$14,ACP | | MA000276 |
| 31* | 222406.40 | 000040.10 | 00 | | B,\$MCP | | MA000277 |
| 32* | 222407.00 | 000007.40 | 80 | | ,\$WEF | | MA000278 |
| 33* | 222407.40 | 224032.01 | 80 | | LVE,,AMR | | MA000279 |
| 34* | 222410.00 | 222144.10 | 00 | | B,ARET | | MA000280 |
| 35* | | | | - | EXITS FOR ATSWEF -WRITING EOF,UNLOAD | | MA000281 |
| 36* | 222410.40 | 000000.30 | 00 | | CNOP, | | MA000282 |
| 37* | 222411.00 * | 000002.00 | | ATSXIT | DRZ(N),2 | | MA000283 |
| 38* | 222413.00 | 222422.50 | 00 | | B,ATSWU1 | | MA000284 |
| 39* | 222413.40 | 000000.30 | 00 | | NOP -UK | | MA000284 |
| 40* | 222414.00 | 222416.10 | 00 | | B,ATSWC2 | | MA000285 |
| 41* | 222414.40 | 000000.30 | 00 | | CNOP -EE | | MA000285 |
| 42* | 222415.00 | 000040.10 | 00 | | B,\$MCP | | MA000286 |
| 43* | 222415.40 | 000041.00 | 80 | | ,\$RET | | MA000287 |
| 44* | 222416.00 | 223743.02 | 80 | 222405.74 06 | ATSWC2 BBZ,ATMI,ATSWC3+.32 -BRANCH IF FIRST TAPE MARK WRITTEN | | MA000288 |
| 45* | 222417.00 | 222460.35 | 01 | | LVI,\$14,ASTRA | | MA000289 |
| 46* | 222417.40 | 224046.35 | 00 | | SVA,\$14,ADP | | MA000290 |
| 47* | 222420.00 | 000040.10 | 00 | | B,\$MCP | | MA000291 |
| 48* | 222420.40 | 000001.40 | 80 | | ,\$W | | MA000292 |
| 49* | 222421.00 | 224032.01 | 80 | | LVE,,AMR | | MA000293 |
| 50* | 222421.40 | 223752.00 | 80 | | ,CTR | | MA000294 |
| 51* | 222422.00 | 222320.10 | 00 | | B,CRET -RETURN TO MCP | | MA000295 |
| 52* | 222422.40 | 222411.35 | 01 | | ATSWU1 LVI,\$14,ATSXIT -CURRENT TABLE OF EXITS-SUCCESS. WEF | | MA000296 |
| 53* | 222423.00 | 222445.73 | 01 | | LVI,\$13,AIFM -EXIT UPON FAILURE TO WEF | | MA000297 |
| 54* | 222423.40 | 000001.14 | 8E | 222531.74 00 | AUKEF BZB,1.12(\$14),AERRN -EPGK OR UK ALONE | | MA000298 |
| 55* | 222424.40 | 223745.46 | 50 | | LC,\$3,AUKCT -SET UP WEF RETRY COUNTER | | MA000299 |
| 56* | 222425.00 | 223747.07 | 50 | | SC,\$3,AEFCT | | MA000300 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 222425 |
|------|-------------|-----------|--------|--------|----------------------|---|----------|
| 1* | 222425.40 | 223747.75 | D0 | | SVA,\$14,ATSWKE | | MA000301 |
| 2* | 222426.00 * | 222430.33 | D0 | | SVA,\$13,AUKEF1 | | MA000302 |
| 3* | 222426.40 | 222435.35 | 01 | | LVI,\$14,ATSWIK | -SET UP NEW TBL. OF EXITS FOR WEF | MA000303 |
| 4* | 222427.00 | 224046.35 | D0 | | SVA,\$14,ACP | | MA000304 |
| 5* | 222427.40 | 223747.06 | 50 | AUKEF2 | LC,\$3,AEFCT | | MA000305 |
| 6* | 222430.00 | 222430.06 | 4A | AUKEF1 | CBZ,\$3,\$ | -COULD NOT \$WEF CN TAPE GC TO AOFM OR A1 | MA000306 |
| 7* | 222430.40 | 223747.07 | 50 | | SC,\$3,AEFCT | | MA000307 |
| 8* | 222431.00 | 000040.10 | 00 | | B,\$MCP | | MA000308 |
| 9* | 222431.40 | 000005.01 | 80 | | ,\$ERGS | | MA000308 |
| 10* | 222432.00 | 224032.01 | 80 | | LVE,,AMR | | MA000308 |
| 11* | 222432.40 | 000040.10 | 00 | | B,\$MCP | | MA000309 |
| 12* | 222433.00 | 000007.40 | 80 | | ,\$WEF | | MA000309 |
| 13* | 222433.40 | 224032.01 | 80 | | LVE,,AMR | | MA000309 |
| 14* | 222434.00 | 222320.10 | 00 | | B,CRET | | MA000310 |
| 15* | 222434.40 | 000000.30 | 00 | | CNOP, | | MA000311 |
| 16* | 222435.00 * | 000002.00 | | ATSWIK | DRZ(N),2 | -TBL. OF EXITS FOR \$WEF IN AUKEF2 | MA000312 |
| 17* | 222437.00 | 222427.50 | 00 | | B,AUKEF2 | | MA000313 |
| 18* | 222437.40 | 000000.30 | 00 | | NCP | | MA000313 |
| 19* | 222440.00 | 223747.74 | 30 | | LV,\$14,ATSWKE | | MA000314 |
| 20* | 222440.40 | 000003.10 | 0E | | B,3.(\$14) | -GO TO ORIG. \$WEF EE FIXUP | MA000314 |
| 21* | 222441.00 | 000040.10 | 00 | | B,\$MCP | | MA000315 |
| 22* | 222441.40 | 000041.00 | 80 | | ,\$RET | | MA000315 |
| 23* | 222442.00 | 223747.74 | 30 | | LV,\$14,ATSWKE | | MA000316 |
| 24* | 222442.40 | 000005.10 | 0E | | B,5.(\$14) | -GO TO ORIG. \$WEF EOP FIXUP | MA000316 |
| 25* | 222443.00 | 224005.10 | 80 | AOFM | LF(BU,8),AOFMC | | MA000317 |
| 26* | 222444.00 | 224020.30 | 80 | | SF(BU,8),CMESS1+4.24 | -TELL OPERATOR NO FILE MARKS | MA000318 |
| 27* | 222445.00 | 222447.50 | 00 | | B,AGFM | | MA000319 |
| 28* | 222445.40 | 224005.20 | 80 | AIFM | LF(BU,8),AIFMC | -TELL OPERATOR 1 FILE MARK | MA000320 |
| 29* | 222446.40 | 224020.30 | 80 | | SF(BU,8),CMESS1+4.24 | | MA000321 |
| 30* | 222447.40 | 224010.00 | 80 | AGFM | TI,2,ANFMS,CMESS1 | -DATA FAILURE | MA000322 |
| 31* | 222450.40 | 224006.30 | 80 | | LF(BU),ALOGM | -LOGICAL END OF TAPE | MA000323 |
| 32* | 222451.40 * | 224022.30 | 80 | | SF(BU),CMESS1+6.24 | | MA000324 |
| 33* | 222452.40 | 000040.10 | 00 | | B,DMCP | | MA000325 |
| 34* | 222453.00 | 000015.00 | 80 | | ,\$DIGDEF | | MA000325 |
| 35* | 222453.40 | 224032.01 | 80 | | LVE,,AMR | | MA000325 |
| 36* | 222454.00 | 224016.00 | 80 | | ,\$CMESS1+2.0 | | MA000325 |
| 37* | 222454.40 | 000040.10 | 00 | | B,\$MCP | | MA000326 |
| 38* | 222455.00 | 000043.40 | 80 | | ,\$CCMM | | MA000326 |
| 39* | 222455.40 | 224014.00 | 80 | | ,\$CMESS1 | | MA000326 |
| 40* | 222456.00 | 000011.00 | 80 | | ,\$9. | | MA000326 |
| 41* | 222456.40 | 222500.00 | 80 | | SIC,ATSWC1 | | MA000327 |
| 42* | 222457.00 | 222465.10 | 00 | | B,ATSWC5 | -UNLOAD TAPE | MA000327 |
| 43* | 222457.40 | 222320.10 | 00 | | B,CRET | | MA000328 |
| 44* | | | | - | EXITS FOR ATSWEF+.32 | -WRITING TRAILER | MA000329 |
| 45* | | | | | CNOP, | | MA000330 |
| 46* | 222460.00 * | 000002.00 | | ASTRA | DRZ(N),2 | | MA000331 |
| 47* | 222462.00 | 222500.50 | 00 | | B,ATSTR1 | | MA000332 |
| 48* | 222462.40 | 000000.30 | 00 | | NCP | -UK | MA000332 |
| 49* | 222463.00 | 222465.10 | 00 | | B,ATSWC5 | | MA000333 |
| 50* | 222463.40 | 000000.30 | 00 | | CNOP | -EE | MA000333 |
| 51* | 222464.00 | 000040.10 | 00 | | B,\$MCP | | MA000334 |
| 52* | 222464.40 | 000041.00 | 80 | | ,\$RET | | MA000335 |
| 53* | 222465.00 | 223744.15 | 80 | ATSWC5 | CM1111,ATSWCR | | MA000336 |
| 54* | 222466.00 | 000040.10 | 00 | | B,\$MCP | | MA000337 |
| 55* | 222466.40 | 000010.40 | 80 | | ,\$UNLD | | MA000338 |
| 56* | 222467.00 | 224032.01 | 80 | | LVE,,AMR | | MA000339 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 222467 |
|------|-----------|-----------|--------|-----------|-----------|------------------------------|----------|
| 1* | 222467.40 | 223744.13 | 80 | 222472.74 | C6 | BRZ,ATARI,ATSWC4 | MA000340 |
| 2* | 222470.40 | 223744.12 | 80 | 222474.34 | 06 | BBZ,ATBRI,ATSWC6 | MA000341 |
| 3* | 222471.40 | 000040.10 | 00 | | | B,\$MCP | MA000342 |
| 4* | 222472.00 | 000041.00 | 80 | | | , \$RET | MA000343 |
| 5* | 222472.40 | 224032.42 | 30 | | | ATSWC4 LV,1,AMR1 | MA000344 |
| 6* | 222473.00 | 224032.03 | 30 | | | SV,1,AMR | MA000345 |
| 7* | 222473.40 | 222475.10 | 00 | | | B,ATSWC7 | MA000346 |
| 8* | 222474.00 | 224033.02 | 30 | | | ATSWC6 LV,1,AMR2 | MA000347 |
| 9* | 222474.40 | 224032.03 | 30 | | | SV,1,AMR | MA000348 |
| 10* | 222475.00 | 223744.11 | 80 | 001100.00 | FO | ATSWC7 CM0000,CATUB | MA000349 |
| 11* | 222476.00 | 223744.15 | 80 | 001000.00 | FO | CM0000,ATSWCR | MA000350 |
| 12* | 222477.00 | 222257.23 | 80 | 001000.00 | FO | CM0000(BU,1),CXY.19 | MA000351 |
| 13* | 222500.00 | 222500.10 | 00 | | | ATSWC1 B,\$ | MA000352 |
| 14* | 222500.40 | 222461.14 | 80 | 222535.34 | 00 | ATSTR1 BZB,ASTRA+1.12,AERRLN | MA000353 |
| 15* | 222501.40 | 222460.03 | 01 | | | LVI,\$1,ASTRA | MA000354 |
| 16* | 222502.00 | 222503.07 | 01 | | | LVI,\$3,C2FM | MA000355 |
| 17* | 222502.40 | 222333.50 | 00 | | | B,CKUK | MA000356 |
| 18* | 222503.00 | 224005.00 | 80 | 010000.06 | 70 | C2FM LF(BU,8),A2FMC | MA000357 |
| 19* | 222504.00 | 224020.30 | 80 | 010000.12 | FO | SF(BU,8),CMESS1+4.24 | MA000358 |
| 20* | 222505.00 | 222447.50 | 00 | | | B,AGFM | MA000359 |
| 21* | 222505.40 | 224010.00 | 80 | 224014.04 | AC | ANFM TI,2,ANFMS,CMESS1 | MA000360 |
| 22* | 222506.40 | 224005.10 | 80 | 010000.06 | 70 | ANFMRT LF(BU,8),AOFMC | MA000361 |
| 23* | 222507.40 | 224020.30 | 80 | 010000.12 | FO | SF(BU,8),CMESS1+4.24 | MA000362 |
| 24* | 222510.40 | 224005.30 | 80 | 000000.06 | 70 | LF(BU),APHYM | MA000363 |
| 25* | 222511.40 | 224022.30 | 80 | 000000.12 | FO | SF(BU),CMESS1+6.24 | MA000364 |
| 26* | 222512.40 | 000040.10 | 00 | | | B,DMCP | MA000365 |
| 27* | 222513.00 | 000015.00 | 80 | | | ,DICDEF | MA000365 |
| 28* | 222513.40 | 224032.01 | 80 | | | LVE,,AMR | MA000365 |
| 29* | 222514.00 | 224016.00 | 80 | | | ,CMESS1+2.0 | MA000365 |
| 30* | 222514.40 | 000040.10 | 00 | | | B,\$MCP | MA000366 |
| 31* | 222515.00 | 000043.40 | 80 | | | , \$CCMM | MA000366 |
| 32* | 222515.40 | 224014.00 | 80 | | | ,CMESS1 | MA000366 |
| 33* | 222516.00 | 000011.00 | 80 | | | ,9. | MA000366 |
| 34* | 222516.40 | 222516.75 | 01 | | | ANFMEX LVI,\$14,\$ | MA000367 |
| 35* | 222517.00 | 000000.74 | 3E | | | LV,\$14,.32(\$14) | MA000368 |
| 36* | 222517.40 | 000002.75 | 0D | | | V-I,\$14,2.32 | MA000369 |
| 37* | 222520.00 | 222500.35 | 00 | | | SVA,\$14,ATSWC1 | MA000370 |
| 38* | 222520.40 | 222320.37 | 01 | | | LVI,\$15,CRET | MA000371 |
| 39* | 222521.00 | 222465.10 | 00 | | | B,ATSWC5 | MA000372 |
| 40* | 222521.40 | 000040.10 | 00 | | | AEPGK B,DMCP | MA000373 |
| 41* | 222522.00 | 000015.00 | 80 | | | ,DICDEF | MA000373 |
| 42* | 222522.40 | 224032.01 | 80 | | | LVE,,AMR | MA000373 |
| 43* | 222523.00 | 224031.00 | 80 | | | ,AEPGKM | MA000373 |
| 44* | 222523.40 | 000040.10 | 00 | | | B,\$MCP | MA000374 |
| 45* | 222524.00 | 000043.40 | 80 | | | , \$CCMM | MA000374 |
| 46* | 222524.40 | 224025.00 | 80 | | | ,APGKM1 | MA000374 |
| 47* | 222525.00 | 000005.00 | 80 | | | ,5. | MA000374 |
| 48* | 222525.40 | 000002.45 | 0D | | | V-I,\$2,2.32 | MA000375 |
| 49* | 222526.00 | 222500.05 | 0D | | | SVA,\$2,ATSWC1 | MA000376 |
| 50* | 222526.40 | 222320.37 | 01 | | | LVI,\$15,CRET | MA000377 |
| 51* | 222527.00 | 222465.10 | 00 | | | B,ATSWC5 | MA000378 |
| 52* | 222527.40 | 224012.00 | 80 | 224014.04 | AC | ALNUKC TI,2,ALNKMS,CMESS1 | MA000379 |
| 53* | 222530.40 | 222516.43 | 00 | | | SVA,\$1,ANFMEX | MA000380 |
| 54* | 222531.00 | 222506.50 | 00 | | | B,ANFMRT | MA000381 |
| 55* | 222531.40 | 224005.20 | 80 | 010000.06 | 70 | AERRN LF(BU,8),A1FMC | MA000382 |
| 56* | 222532.40 | 224020.30 | 80 | 010000.12 | FO | SF(BU,8),CMESS1+4.24 | MA000383 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 222533 |
|------|------------|-------------|--------|-----------|-----------|---|----------|
| 1* | 222533.40 | 224012.00 | 80 | 224014.04 | AC | TI,2,ALNKMS,CMESS1 | MA000384 |
| 2* | 222534.40 | 222450.50 | 00 | | | B,AGFM+1. | MA000385 |
| 3* | 222535.00 | 224005.00 | 80 | 010000.06 | 70 | AERRUN LF(BU,8),A2FMC | MA000386 |
| 4* | 222536.00 | 224020.30 | 80 | 010000.12 | FC | SF(BU,8),CMESS1+4.24 | MA000387 |
| 5* | 222537.00 | * 224012.00 | 80 | 224014.04 | AC | TI,2,ALNKMS,CMESS1 | MA000388 |
| 6* | 222540.00 | 222450.50 | 00 | | | B,AGFM+1. | MA000389 |
| 7* | 222540.40 | 000000.30 | 00 | | | CNOP, | MA000390 |
| 8* | 222541.00 | * 000002.00 | | AXITA | | DRZ(N),2 | MA000391 |
| 9* | 222543.00 | 224046.34 | 30 | | | LV,14,ACP | MA000392 |
| 10* | 222543.40 | 222550.10 | 00 | | | B,AXAUK | MA000392 |
| 11* | 222544.00 | 224046.34 | 30 | | | LV,14,ACP | MA000393 |
| 12* | 222544.40 | 222551.50 | 00 | | | B,AXAEE | MA000393 |
| 13* | 222545.00 | 222573.10 | 00 | | | B,RATPCS | MA000394 |
| 14* | 222545.40 | 000000.30 | 00 | | | NOP, | MA000394 |
| 15* | 222546.00 | 224046.34 | 30 | | | LV,14,ACP | MA000395 |
| 16* | 222546.40 | 222541.00 | 80 | 000000.04 | AE | TI,2,AXITA,C(\$14) | MA000396 |
| 17* | 222547.40 | 000005.10 | 0E | | | B,5.(\$14) | MA000397 |
| 18* | 222550.00 | 222541.00 | 80 | 000000.04 | AE | AXAUK TI,2,AXITA,C(\$14) | MA000398 |
| 19* | 222551.00 | 000002.10 | 0E | | | B,2.(\$14) | MA000399 |
| 20* | 222551.40 | 222541.00 | 80 | 000000.04 | AE | AXAEE TI,2,AXITA,(\$14) | MA000400 |
| 21* | 222552.40 | 000003.10 | 0E | | | B,3.(\$14) | MA000401 |
| 22* | | | | | | CNOP, | MA000402 |
| 23* | 222553.00 | * 000002.00 | | AXITB | | DRZ(N),2 | MA000403 |
| 24* | 222555.00 | 224046.34 | 30 | | | LV,14,ACP | MA000404 |
| 25* | 222555.40 | 222562.10 | 00 | | | B,AXBUK | MA000404 |
| 26* | 222556.00 | 224046.34 | 30 | | | LV,14,ACP | MA000405 |
| 27* | 222556.40 | 222563.50 | 00 | | | B,AXBEE | MA000405 |
| 28* | 222557.00 | 222570.10 | 00 | | | B,ATPBCS | MA000406 |
| 29* | 222557.40 | 000000.30 | 00 | | | NCP, | MA000406 |
| 30* | 222560.00 | 224046.34 | 30 | | | LV,14,ACP | MA000407 |
| 31* | 222560.40 | 222553.00 | 80 | 000000.04 | AE | TI,2,AXITB,C(\$14) | MA000408 |
| 32* | 222561.40 | 000005.10 | 0E | | | B,5.(\$14) | MA000409 |
| 33* | 222562.00 | 222553.00 | 80 | 000000.04 | AE | AXBUK TI,2,AXITB,C(\$14) | MA000410 |
| 34* | 222563.00 | 000002.10 | 0E | | | B,2.(\$14) | MA000411 |
| 35* | 222563.40 | 222553.00 | 80 | 000000.04 | AE | AXBEE TI,2,AXITB,C(\$14) | MA000412 |
| 36* | 222564.40 | 000003.10 | 0E | | | B,3.(\$14) | MA000413 |
| 37* | 222565.00 | 223744.15 | 80 | 222472.74 | 02 | ATPACS BB,ATSWCR,ATSWC4 | MA000414 |
| 38* | 222566.00 | 223744.13 | 80 | 001000.36 | FC | CM1111,ATARI | MA000415 |
| 39* | 222567.00 | 000040.10 | 00 | | | B,\$MCP | MA000416 |
| 40* | 222567.40 | 000041.00 | 80 | | | , \$RET | MA000417 |
| 41* | 222570.00 | * 223744.15 | 80 | 222474.34 | 02 | ATPACS BB,ATSWCR,ATSWC6 | MA000418 |
| 42* | 222571.00 | 223744.12 | 80 | 001000.36 | FC | CM1111,ATBRI | MA000419 |
| 43* | 222572.00 | 000040.10 | 00 | | | B,\$MCP | MA000420 |
| 44* | 222572.40 | 000041.00 | 80 | | | , \$RET | MA000421 |
| 45* | 222573.00 | 222565.35 | 01 | | | RATPCS LVI,14,ATPACS | MA000422 |
| 46* | 222573.40 | 222545.35 | 00 | | | SVA,14,AXITA+4.0 | MA000422 |
| 47* | 222574.00 | 000040.10 | 00 | | | B,DMCP | MA000423 |
| 48* | 222574.40 | 000041.00 | 80 | | | ,DRET | MA000423 |
| 49* | 000014.00+ | +00000000 | | NULL | CNUM | SYN,12. | MA000424 |
| 50* | | | | | | -THIS PARAMETER CAN BE VARIED | MA000424 |
| 51* | 222575.00 | 222602.00+ | 000 | 000226 | 222575 | ACCORDING TO NO. OF LINES DESIRED IN PRINT BUFFER | MA000425 |
| 52* | 222576.00 | 223030.00+ | 000 | 000226 | 222576 | -CWS FOR BUFFERS X AND Y | MA000426 |
| 53* | 222577.00 | 222602.06+ | 000 | 000014 | 222601 | -CF=X+1. | MA000427 |
| 54* | 222600.00 | 222602.06+ | 000 | 000014 | 222601 | -TRANSMISSION INDEX | MA000428 |
| 55* | 222601.00 | 223030.06+ | 000 | 000014 | 222600 | -BUFFER X | MA000429 |
| 56* | 222602.00 | | | | | -BUFFER Y | MA000430 |
| | | | | | | (A*)DC(BU,6,6),P* | MA000431 |
| | | | | | | -BUFFER X AND Y RESERVATION | |

| LINE | LOCATICN | BINARY OUTPUT | NAME | STATEMENT | LOCATICN | 222603 |
|------|-------------|---------------|-------------------|-------------------|---|----------|
| 1* | 222603.00 * | 000225.00 | | DR(N),149 | | MA000432 |
| 2* | 223030.00 | | CY | (A*)DD(BU,6,6),P* | -P-RECORD CONTROL CHARACTER FOR PRINT | MA000433 |
| 3* | 223031.00 * | 000225.00 | | DR(N),149 | -X=CF IN DR(N),X WHERE | MA000434 |
| 4* | 000000.00+ | +00000012 | NULL | SYN,10 | -X=(133*6*CNUM+5)/64 | MA000435 |
| 5* | | | | | -THIS PARAMETER CAN BE VARIED | MA000436 |
| 6* | 000226.00+ | +00000000 | NULL | ACRCD15 | ACCORDING TO NO. OF CARDS DESIRED IN PUNCH BUFFER | MA000437 |
| 7* | 223256.00 | 000000.00+ | CGO 000017 223256 | AXWZ | SYN,15C. | MA000438 |
| 8* | 223257.00 | 223262.06+ | CCO 000226 223261 | ACWA | -ACRD*15 | MA000439 |
| 9* | 223260.00 | 223262.06+ | 000 000226 223261 | ACWT | XW,C,15,AXWZ | MA000440 |
| 10* | 223261.00 | 223511.06+ | CCO 000226 223260 | ACWV | XW,ACX+.6,15C,ACWV -CF=Y | MA000441 |
| 11* | 223262.00 | | | ACWV | XW,ACX+.6,15C,ACWV -CF=Y | MA000442 |
| 12* | 223263.00 * | 000226.00 | | ACX | (A*)DD(BU,6,6),C* -BUFFER X AND Y RESERVATION | MA000443 |
| 13* | 223511.00 | | | ACY | DRZ(N),150 -C-RECORD CONTROL CHARACTER FOR PUNCH | MA000444 |
| 14* | 223512.00 * | 000226.00 | | | (A*)DD(BU,6,6),C* -Y=CF IN DR(N),X WHERE | MA000445 |
| 15* | 223740.00 | 000000.00+ | CCO 000000 000000 | CKERIC | DRZ(N),150 -Y=(80*12*ACRD+5)/64 | MA000446 |
| 16* | 223741.00 | 223743.04+ | 000 000015 223741 | CXFILL | CW, -COPIED CONTROL WORD FOR UK ON WRITING A BUFFER | MA000447 |
| 17* | 223742.00 * | 000001.00 | | CTRAIL | XW,CFILL,13,CXFILL -XW TO FILL PRINT BUFFER WITH BLANKS | MA000448 |
| 18* | 223743.00 | | 0 | CBTA | DRZ(N),1 -TRAILER RECCRD | MA000449 |
| 19* | 223743.01 * | 000000.01 | | ABTA | DD(BU,1,8),0 -BUFFER T INDICATOR | MA000450 |
| 20* | 223743.02 | 000000.01 | | ATMI | DRZ(BU,1),1 -BUFFER T INDICATOR | MA000451 |
| 21* | 223743.03 | 000000.01 | | ACPTRI | DRZ(BU,1),1 -TAPE MARK INDICATOR | MA000452 |
| 22* | 223743.04 | | | CFILL | DRZ(BU,1),1 -OUTPUT REQUEST INDICATOR | MA000453 |
| 23* | 223744.06 | | 0 | CBWA | (A*)DD(BU,6,6),- * -BLANKS FOR FILL | MA000454 |
| 24* | 223744.07 | 000000.01 | | ABWA | DD(BU,1,8),0 -BUFFER W INDICATOR | MA000455 |
| 25* | 223744.10 | 000000.01 | | APPERR | DRZ(BU,1),1 -BUFFER W INDICATOR | MA000456 |
| 26* | 223744.11 | | 0 | CATUB | DRZ(BU,1),1 -TAPE USAGE INDICATOR | MA000457 |
| 27* | 223744.12 | 000000.01 | | ATBRI | DD(BU,1,1),0 | MA000458 |
| 28* | 223744.13 | | 0 | ATARI | DRZ(BU,1),1 | MA000459 |
| 29* | 223744.14 | 000000.01 | | AECJI | DD(BU,1),0 -EOJ INDICATOR | MA000460 |
| 30* | 223744.15 | 000000.01 | | ATSWCR | DRZ(BU,1),1 -TAPE SWITCH REQUEST INDICATOR | MA000461 |
| 31* | 223744.40 | 000001.00+ | | CCX | DRZ(BU,1),1 -OUTPUT BUFFER POINTER | MA000462 |
| 32* | 223745.00 | 000001.00+ | | AACX | VF,1. -OUTPUT BUFFER POINTER | MA000463 |
| 33* | 223745.40 | 000012.00+ | | AUKCT | VF,10. | MA000464 |
| 34* | 223746.00 | 000000.00+ | | AWRCT | VF,C -BSP,ERG,W RETRY COUNTER | MA000465 |
| 35* | 223746.40 | 000000.00+ | | ABSPCT | VF,C -BSP RETRY COUNTER | MA000466 |
| 36* | 223747.00 | 000000.00+ | | AEFCT | VF,C -WRF RETRY COUNTER | MA000467 |
| 37* | 223747.40 | 000000.00+ | | ATSWKE | VF,C -STOR. FOR WRF TBL. CF EXITS | MA000468 |
| 38* | 223750.00 | 223262.00+ | CCO 000227 223750 | ACW1 | CW(CR),ACX,151,ACW1 -CF=Y+1. | MA000469 |
| 39* | 223751.00 | 223511.00+ | CCO 000227 223751 | ACW2 | CW(CR),ACY,151,ACW2 -CF=Y+1. | MA000470 |
| 40* | 223752.00 | 223742.00+ | CCO 000001 223752 | CTR | CW(CR),CTRAIL,1,CTR -CW FOR TRAILER RECCRD | MA000471 |
| 41* | 223753.00 | 000000.00+ | CCO 000000 000000 | CXR7 | XW -DUMP HOLD FOR I | MA000472 |
| 42* | 223754.00 | 000000.00+ | CCO 000000 000000 | | XW -N | MA000473 |
| 43* | 223755.00 | 000000.00+ | CCO 000000 000000 | | XW -D | MA000474 |
| 44* | 223756.00 * | 000000.00+ | 000 000000 000000 | | XW -E | MA000475 |
| 45* | 223757.00 | 000000.00+ | CCO 000000 000000 | | XW -X | MA000476 |
| 46* | 223760.00 | 000000.00+ | CCO 000000 000000 | | XW | MA000477 |
| 47* | 223761.00 | 000000.00+ | CCO 000000 000000 | | XW | MA000478 |
| 48* | 223762.00 | 000000.00+ | CCO 000000 000000 | | XW | MA000479 |
| 49* | 223763.00 | 000000.00+ | CCO 000000 000000 | CXR15 | XW - X REGISTERS | MA000480 |
| 50* | 223764.00 | | | ASERR | (A*)DD(BU),-JOB TERMINATED - ERROR IN OUTPUT CALLIN* | MA000481 |
| 51* | 223771.00 * | | | | (A*)DD(BU),G SEQUENCE * | MA000482 |
| 52* | 223776.00 | | | | (A*)DD(BU), * | MA000483 |
| 53* | 224003.00 | | | | (A*)DD(BU), * | MA000484 |
| 54* | 224005.00 | | | A2FMC | (IQS*)DD(BU),2* | MA000485 |
| 55* | 224005.10 | | | A0FMC | (IQS*)DD(BU),C* | MA000486 |
| 56* | 224005.20 | | | A1FMC | (IQS*)DD(BU),1* | MA000487 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 224005 |
|------|-------------|---------------|--------|---|----------|--------|
| 1* | 224005.30 * | | APHYM | (IQS*)DD(BU),PHYSICAL* | MA000488 | |
| 2* | 224006.30 | | ALCGM | (IQS*)DD(BU),LOGICAL * | MA000489 | |
| 3* | 224007.40 | 000000.30 00 | | CNOP | MA000490 | |
| 4* | 224010.00 | | ANFMS | (IQS*)DD(BU),DATA FAILURE ON * | MA000491 | |
| 5* | 224012.00 | | ALNKMS | (IQS*)DD(BU),UNIT FAILURE ON * | MA000492 | |
| 6* | 224014.00 * | 000003.00 | CMESS1 | DRZ(N),3 | MA000493 | |
| 7* | 224017.00 | | | (IQS*)DD(BU), THERE ARE FILE MARKS ON * | MA000494 | |
| 8* | 224023.40 | | | (IQS*)DD(BU),END OF TAPE * | MA000495 | |
| 9* | | | | CNOP | MA000496 | |
| 10* | 224025.00 | | APGKM1 | (IQS*)DD(BU),INSERT A RING IN OUTPUT TAPE ON * | MA000497 | |
| 11* | 224031.00 * | 000001.00 | AEPGKM | DRZ(N),1 | MA000498 | |
| 12* | | | - | SYMBOLIC UNITS | MA000499 | |
| 13* | 224032.00 | 000013.00+ | AMR | VF,CT11 | MA000500 | |
| 14* | 224032.40 | 000013.00+ | AMR1 | VF,CT11 | MA000501 | |
| 15* | 224033.00 | 000014.00+ | AMR2 | VF,CT21 | MA000502 | |
| 16* | 224033.40 | 000000.00+ | | VF, | MA000503 | |
| 17* | | | - | OUTPUT PSEUDO-OP | MA000504 | |
| 18* | 224034.00 | 000027.00 80 | CDRY | TI,9,\$7,CXR7 | MA000505 | |
| 19* | 224035.00 | 223744.14 80 | | BBZ,AEOJI,CDRY1 | MA000506 | |
| 20* | 224036.00 | 223743.03 80 | | CM1111(BU,1),ADPTRI -NO TURN ON OUTPUT REQUEST INDICATOR | MA000507 | |
| 21* | 224037.00 | 222144.10 00 | | B,ARET | MA000508 | |
| 22* | 224037.40 | 223744.11 80 | CDRY1 | BB,CATUB,\$ -IF SPOOL TAPE BUSY WAIT | MA000509 | |
| 23* | 224040.40 | 222257.23 80 | | BZB,CXY+.19,ARET1 -IF HAVE NEW TAPE, RETURN | MA000510 | |
| 24* | 224041.40 | 223763.37 10 | | SX,\$15,CXR15 -SAVE INDEX | MA000511 | |
| 25* | 224042.00 | 223744.11 80 | | CM1111,CATUB -MAKE TAPE UNAVAILABLE | MA000512 | |
| 26* | 224043.00 | 223742.05 80 | | CM0000(BU,1,1),CTRAIL+.05 -PHYSICAL AND LOGICAL END OF TAPE | MA000513 | |
| 27* | 224044.00 | 223743.02 80 | | CM0000,ATMI -ONE TAPE MARK TO BE WRITTEN | MA000514 | |
| 28* | 224045.00 * | 222320.37 01 | | LVI,\$15,CRET -LOAD INDEX WITH EXIT | MA000515 | |
| 29* | 224045.40 | 222405.10 00 | | B,ATSWC3 -GO TO TAPE SWITCH | MA000516 | |
| 30* | 224046.00 | 000000.00+ | ACP | VF,0 | MA000517 | |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|--------------|--|----------|
| 1* | | | - | ***** | MB000001 |
| 2* | | | - | ***** THE DISABLED SPOOL SHORT MESSAGE ROUTINE ***** | MB000002 |
| 3* | | | - | ***** | MB000003 |
| 4* | 224046.31 * | | | SLC,\$ | MB000004 |
| 5* | 224046.40 | 224062.01 10 | Z SPL PR | SX,C,Z SAV IX | MB000005 |
| 6* | 224047.00 | 224063.03 10 | | SX,1,Z SAV IX+1.0 | MB000006 |
| 7* | 224047.40 | 224052.00 30 | | LV,C,Z SPL P9 | MB000007 |
| 8* | 224050.00 | 000000.41 CD | | V-I,0,.32 | MB000008 |
| 9* | 224050.40 | 224053.01 CD | | SVA,0,Z GET NM | MB000009 |
| 10* | 224051.00 | 000000.41 CD | | V-I,0,.32 | MB000010 |
| 11* | 224051.40 | 224061.41 CD | | SVA,0,Z SPL PX | MB000011 |
| 12* | 224052.00 | 000000.01 80 | Z SPL P9 | LVE,0,C.0 | MB000012 |
| 13* | 224052.40 | 224055.01 00 | | SVA,0,Z TRANS | MB000013 |
| 14* | 224053.00 | 000000.03 80 | Z GET NM | LVE,1,0.0 | MB000014 |
| 15* | 224053.40 | 000021.02 50 | | LC,1,\$1 | MB000015 |
| 16* | 224054.00 | 224104.00 80 | 224103.01 A0 | TBI,16,Z LST BF,Z LST BF-1.0 | MB000016 |
| 17* | 224055.00 | 000000.00 80 | 224064.02 20 | Z TRANS T,1,0.C,Z MSG BF | MB000017 |
| 18* | 224056.00 | 215265.00 80 | | SIC,STIC | MB000018 |
| 19* | 224056.40 | 215510.04 00 | | BD,S IFAD | MB000019 |
| 20* | 224057.00 | 000103.40 80 | | ,D SPR | MB000020 |
| 21* | 224057.40 | 224064.00 80 | | ,Z MSG BF | MB000021 |
| 22* | 224060.00 | 000001.00 80 | | ,1.0 | MB000022 |
| 23* | 224060.40 | 224062.00 10 | | LX,C,Z SAV IX | MB000023 |
| 24* | 224061.00 | 224063.02 10 | | LX,1,Z SAV IX+1.0 | MB000024 |
| 25* | 224061.40 * | 000000.04 00 | Z SPL PX | BD,C.0 | MB000025 |
| 26* | | | | CNOP | MB000026 |
| 27* | 224062.00 * | 000002.00 | Z SAV IX | DRZ(BU,64,8),(2) | MB000027 |
| 28* | 224064.00 | | ZMSGBF | (AX)DD(BU), X | MB000028 |
| 29* | 224065.00 | | | (AX)DD(BU), X | MB000029 |
| 30* | 224066.00 | | | (AX)DD(BU), X | MB000030 |
| 31* | 224067.00 | | | (AX)DD(BU), X | MB000031 |
| 32* | 224070.00 | | | (AX)DD(BU), X | MB000032 |
| 33* | 224071.00 | | | (AX)DD(BU), X | MB000033 |
| 34* | 224072.00 | | | (AX)DD(BU), X | MB000034 |
| 35* | 224073.00 | | | (AX)DD(BU), X | MB000035 |
| 36* | 224074.00 | | | (AX)DD(BU), X | MB000036 |
| 37* | 224075.00 | | | (AX)DD(BU), X | MB000037 |
| 38* | 224076.00 | | | (AX)DD(BU), X | MB000038 |
| 39* | 224077.00 * | | | (AX)DD(BU), X | MB000039 |
| 40* | 224100.00 | | | (AX)DD(BU), X | MB000040 |
| 41* | 224101.00 | | | (AX)DD(BU), X | MB000041 |
| 42* | 224102.00 | | | (AX)DD(BU), X | MB000042 |
| 43* | 224103.00 | | | (AX)DD(BU), X | MB000043 |
| 44* | 224104.00 | | Z LST BF | (AX)DD(BU,64,8), X | MB000044 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------|-----------|--|----------|
| 1* | | | | *****-0037 * | DA000001 |
| 2* | | | | ***** THE INPUT PROGRAM *****-0038 | DA000002 |
| 3* | | | | *****-0039 * | DA000003 |
| 4* | 224105.CC * | | | SLC,\$-0040 | DA000004 |
| 5* | | | | | DA000005 |
| 6* | 000000.40+ | +00000000 | NULL | V F SYN,.32-0043 | DA000006 |
| 7* | 000000.00+ | +00000040 | NULL | V H SYN,32-0044 | DA000007 |
| 8* | 777777.40+ | +00000000 | NULL | V XXRG SYN,262143.V H-0045 | DA000008 |
| 9* | 777777.00+ | +00000000 | BU,100,10 | V M1 SYN(BU,64),262143.-0046 | DA000009 |
| 10* | 000002.00+ | +00000000 | NULL | V FGD SYN,2. -NO. OF REMAINING JOBS ON RT WHEN TS REQUESTED-0047 | DA000010 |
| 11* | 000000.00+ | +00000000 | NULL | V X SYN,0-0048 | DA000011 |
| 12* | 000000.40+ | +00000000 | NULL | V X1 SYN,V X.V H-0049 | DA000012 |
| 13* | 000001.00+ | +00000000 | NULL | V X2S SYN,V X1.V H-0050 | DA000013 |
| 14* | 000002.00+ | +00000000 | NULL | V X2R SYN,V X2S.64-0051 | DA000014 |
| 15* | 000004.00+ | +00000000 | NULL | V CWR SYN,V X2R+2.-0052 | DA000015 |
| 16* | 000005.00+ | +00000000 | NULL | V NX SYN,V CWR.64-0053 | DA000016 |
| 17* | 000005.40+ | +00000000 | NULL | V IC SYN,V NX.V H-0054 | DA000017 |
| 18* | 000006.00+ | +00000000 | NULL | V SU SYN,V IC.V H-0055 | DA000018 |
| 19* | 000006.40+ | +00000000 | NULL | V RQB SYN,V SU.V H-0056 | DA000019 |
| 20* | 000007.00+ | +00000000 | NULL | V RCNT SYN,V RQB.V H-0057 | DA000020 |
| 21* | 000007.40+ | +00000000 | NULL | V FCNT SYN,V RCNT.V H-0058 | DA000021 |
| 22* | 000010.00+ | +00000000 | NULL | V STR SYN,V FCNT.V H-0059 | DA000022 |
| 23* | 000010.40+ | +00000000 | NULL | V TS SYN,V STR.V H-0060* | DA000023 |
| 24* | 000011.00+ | +00000000 | NULL | V FCNX SYN,V TS.V H-0061+ | DA000024 |
| 25* | 000023.00+ | +00000000 | BU,100,10 | V U SYN,\$3-0062 | DA000025 |
| 26* | 000021.00+ | +00000000 | BU,100,10 | V P SYN,\$1-0063 | DA000026 |
| 27* | 000024.00+ | +00000000 | BU,100,10 | V T1 SYN,\$4-0064 | DA000027 |
| 28* | 000031.00+ | +00000000 | BU,100,10 | V T5 SYN,\$9-0068 | DA000028 |
| 29* | 000026.00+ | +00000000 | BU,100,10 | V T2 SYN,\$6-0065 | DA000029 |
| 30* | 000027.00+ | +00000000 | BU,100,10 | V T3 SYN,\$7-0066 | DA000030 |
| 31* | 000030.00+ | +00000000 | BU,100,10 | V T4 SYN,\$8-0067 | DA000031 |
| 32* | 000032.00+ | +00000000 | BU,100,10 | V S1 SYN,\$10-0069 | DA000032 |
| 33* | 000033.00+ | +00000000 | BU,100,10 | V S2 SYN,\$11-0070 | DA000033 |
| 34* | 000022.00+ | +00000000 | BU,100,10 | V G1 SYN,\$2-0071 | DA000034 |
| 35* | 000035.00+ | +00000000 | BU,100,10 | V G2 SYN,\$13-0072 | DA000035 |
| 36* | 000036.00+ | +00000000 | BU,100,10 | V G3 SYN,\$14-0073 | DA000036 |
| 37* | 000025.00+ | +00000000 | BU,100,10 | V G4 SYN,\$5-0074 | DA000037 |
| 38* | 000000.00+ | +00000004 | NULL | V UB SYN,4-0075 | DA000038 |
| 39* | 000001.40+ | +00000000 | NULL | V RA SYN,1.32-0076 | DA000039 |
| 40* | 000003.00+ | +00000000 | NULL | V PAR SYN,3.-0077 | DA000040 |
| 41* | 000002.40+ | +00000000 | NULL | V PCP SYN,2.32-0078* | DA000041 |
| 42* | 224105.CC | | | SLC,\$-0079 | DA000042 |
| 43* | | | | CNDP,-0080 | DA000043 |
| 44* | 224105.00 | | 03 | V VSCR DD(BU,4),3,1-0081 | DA000044 |
| 45* | 224105.04 | | C1 | | DA000044 |
| 46* | 224105.10 | | 0 | DD(BU,3),0-0082 | DA000045 |
| 47* | 224105.13 | | 2 | DD(BU,2),2,2-0083 | DA000046 |
| 48* | 224105.15 | | 2 | | DA000046 |
| 49* | 224105.17 | 0000000000 | | DD(BU,30),0-0084 | DA000047 |
| 50* | | | | EXT(0,18) | DA000048 |
| 51* | 224105.55 | 0451074 | | BE,V SCR-0085 | DA000048 |
| 52* | 224106.00 | 0000000000 | | DD(BU,32),,,,,,-0086 | DA000049 |
| 53* | 224106.40 | 0000000000 | | | DA000049 |
| 54* | 224107.00 | 0000000000 | | | DA000049 |
| 55* | 224107.40 | 0000000000 | | | DA000049 |
| 56* | 224110.00 | 0000000000 | | | DA000049 |

| LINE | LOCATICN | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 224110 | |
|------|------------|--------|------------|--------|----------------|----------------|--------|----------|
| 1* | 224110.40 | | 0000000000 | | | | | CA000049 |
| 2* | 224111.00 | | | V VSKM | DD(BU,4),2,1 | | | CA000050 |
| 3* | 224111.04 | | | | | | | CA000050 |
| 4* | 224111.10 | | | | DD(BU,3),C | | | CA000051 |
| 5* | 224111.13 | | | | DD(BU,2),2, | | | CA000052 |
| 6* | 224111.15 | | | | | | | CA000052 |
| 7* | 224111.17 | | 0000CC0000 | | CD(BU,30),0 | | | CA000053 |
| 8* | | | | | EXT(0,18) | | | CA000054 |
| 9* | 224111.55 | | 0450310 | | BE,V SSKOM | | -0091 | CA000054 |
| 10* | 224112.00 | | 0000000000 | | DD(BU,32),,,,, | | | CA000055 |
| 11* | 224112.40 | | 0000000000 | | | | | CA000055 |
| 12* | 224113.00 | | 0000000000 | | | | | CA000055 |
| 13* | 224113.40 | | 0000000000 | | | | | CA000055 |
| 14* | 224114.00 | | 0000000000 | | | | | CA000055 |
| 15* | 224114.40 | | 225232.00 | CO | V XCRG | BE,V CR | | CA000056 |
| 16* | 224115.00 | * | 000002.00 | | V CREXT | DRZ(B,64),2 | | CA000057 |
| 17* | 224117.00 | | 230363.40 | 80 | | SIC,RKS BRC | | CA000058 |
| 18* | 224117.40 | | 227524.50 | CO | | B,RKS UK | -0095 | CA000058 |
| 19* | 224120.00 | | 224114.46 | 30 | | LV,V U,V XCRG | | CA000059 |
| 20* | 224120.40 | | 777777.50 | 03 | | B,-.32(V U) | -0096 | CA000059 |
| 21* | 224121.00 | | 224114.46 | 30 | | LV,V U,V XCRG | | CA000060 |
| 22* | 224121.40 | | 224171.10 | CO | | B,V RDCSS | -0097 | CA000060 |
| 23* | 224122.00 | | 224114.46 | 30 | | LV,V U,V XCRG | | CA000061 |
| 24* | 224122.40 | | 777777.10 | 03 | | B,-1.(V U) | -0098 | CA000061 |
| 25* | 224123.00 | | 000000.30 | CO | | NOP, | | CA000062 |
| 26* | 224123.40 | | 225312.00 | CO | | V XWRG | | CA000063 |
| 27* | 224124.00 | * | 000002.00 | | | V WTEXT | | CA000064 |
| 28* | 224126.00 | | 230363.40 | 80 | | SIC,RKS BRC | | CA000065 |
| 29* | 224126.40 | | 227524.50 | CO | | B,RKS UK | -0102 | CA000065 |
| 30* | 224127.00 | | 224123.46 | 30 | | LV,V U,V XWRG | | CA000066 |
| 31* | 224127.40 | | 777777.50 | 03 | | B,-.32(V U) | -0103 | CA000066 |
| 32* | 224130.00 | | 000006.23 | 01 | | LVI,V T5,V WTP | | CA000067 |
| 33* | 224130.40 | | 224757.50 | CO | | B,V TDSP | -0104 | CA000067 |
| 34* | 224131.00 | | 224123.46 | 30 | | LV,V U,V XWRG | | CA000068 |
| 35* | 224131.40 | | 777777.10 | 03 | | B,-1.(V U) | -0105 | CA000068 |
| 36* | 224132.00 | | 000000.30 | CO | | NCP, | | CA000069 |
| 37* | 224132.40 | | 000004.00 | CO | | V XRRG | | CA000070 |
| 38* | 224133.00 | * | 000002.00 | | | V RTEXT | | CA000071 |
| 39* | 224135.00 | | 230363.40 | 80 | | SIC,RKS BRC | | CA000072 |
| 40* | 224135.40 | | 227524.50 | CO | | B,RKS UK | -0109 | CA000072 |
| 41* | 224136.00 | | 224132.46 | 30 | | LV,V U,V XRRG | | CA000073 |
| 42* | 224136.40 | | 777777.50 | 03 | | B,-.32(V U) | -0110 | CA000073 |
| 43* | 224137.00 | | 000004.23 | 01 | | LVI,V T5,V RTP | | CA000074 |
| 44* | 224137.40 | | 224757.50 | CO | | B,V TDSP | -0111 | CA000074 |
| 45* | 224140.00 | | 224132.46 | 30 | | LV,V U,V XRRG | | CA000075 |
| 46* | 224140.40 | | 777777.10 | 03 | | B,-1.(V U) | -0112 | CA000075 |
| 47* | 224141.00 | | 224133.00+ | CC0 | C0C0000 | 000000 | | CA000076 |
| 48* | 224142.00 | | 224115.00+ | CCC | C0C0000 | 000000 | | CA000077 |
| 49* | 224143.00 | | 224124.00+ | CC0 | 0000000 | 000000 | | CA000078 |
| 50* | 224135.00+ | | -00000000 | | | BU,30 ,10 | | CA000079 |
| 51* | 224144.00 | | 224114.07 | 80 | | V XG | | CA000080 |
| 52* | 224144.40 | | 224112.40 | 30 | | V SSKOM | | CA000081 |
| 53* | 224145.00 | | 225427.02 | 10 | | | | CA000082 |
| 54* | 224145.40 | | 000000.00 | 81 | | | | CA000083 |
| 55* | 224146.00 | | 224150.03 | 48 | | | -0120 | CA000083 |
| 56* | 224146.40 | | 224112.41 | 30 | | | -0121 | CA000084 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 224147 |
|------|-------------|-----------|--------|--------------|----------------------|----------|----------|
| 1* | 224147.00 | 000040.10 | 00 | | B,D MCP | | 0A000085 |
| 2* | 224147.40 | 000041.00 | 80 | | ,D RET | -0122 | 0A000085 |
| 3* | 224150.00 * | 224154.50 | 03 | V DISP | B,V BYP(V U) | -0123 | 0A000086 |
| 4* | 224150.40 | 225010.50 | 00 | V CFFGN | B,V ONLIN | -0124 | 0A000087 |
| 5* | 224151.00 | 225032.50 | 00 | | B,V CFFLN | -0125 | 0A000088 |
| 6* | 224151.40 | 224226.50 | 00 | | B,V EOFN | -0126 | 0A000089 |
| 7* | 224152.00 | 224545.10 | 00 | | B,V OEOJ | -0127 | 0A000090 |
| 8* | 224152.40 | 225103.10 | 00 | | B,V BYPAS | -0128 | 0A000091 |
| 9* | 224153.00 | 225203.50 | 00 | | B,V SREW | -0129 | 0A000092 |
| 10* | 224153.40 | 224272.50 | 00 | | B,V SCR1 | -0130 | 0A000093 |
| 11* | 224154.00 | 224242.50 | 00 | | B,V SCAN | | 0A000094 |
| 12* | 224154.40 | 225151.10 | 00 | V BYP | B,V ONLIB | -0132 | 0A000095 |
| 13* | 224155.00 | 225136.10 | 00 | | B,V OFFLB | -0133 | 0A000096 |
| 14* | 224155.40 | 224221.50 | 00 | | B,V EOFB | -0134 | 0A000097 |
| 15* | 224156.00 | 224533.10 | 00 | | B,V BEQJ | -0135 | 0A000098 |
| 16* | 224156.40 | 224160.10 | 00 | | B,V RSTRT | -0136 | 0A000099 |
| 17* | 224157.00 | 224157.50 | 00 | | B,V NCP | -0137 | 0A000100 |
| 18* | 224157.40 | 777777.03 | C9 | V NCP | CB-,V P,V MI(V P) | -0138 | 0A000101 |
| 19* | 224160.00 | 224157.51 | 01 | V BSTRT | LVI,V T1,V NCP | -0141 | 0A000102 |
| 20* | 224160.40 | 224154.51 | D3 | | SVA,V T1,V BYP(V U) | -0142 | 0A000103 |
| 21* | 224161.00 | 225232.07 | 01 | | LVI,V U,V CR | -0143 | 0A000104 |
| 22* | 224161.40 | 000001.01 | 05 | | V+I,,1. | -0144 | 0A000105 |
| 23* | 224162.00 | 224655.10 | 00 | | B,V ACT | -0145 | 0A000106 |
| 24* | 224162.40 | 225427.02 | 10 | V RDEE | LX,V P,V PD | -0146 | 0A000107 |
| 25* | 224163.00 | 000000.00 | 81 | | SIC,(V P) | | 0A000108 |
| 26* | 224163.40 * | 224633.50 | 00 | | B,V EE | -0147 | 0A000108 |
| 27* | 224164.00 | 224177.55 | D0 | | SVA,V T2,V REE1 | -0148 | 0A000109 |
| 28* | 224164.40 | 000000.23 | C5 | | V+I,V T5,C | -0149 | 0A000110 |
| 29* | 224165.00 | 224166.71 | 40 | | BZXVZ,V REE7 | -0150 | 0A000111 |
| 30* | 224165.40 | 224177.63 | D0 | | SVA,V T5,V REE1 | -0151 | 0A000112 |
| 31* | 224166.00 | 225232.62 | 30 | | LV,VT5,VX1+VCR | -020 | 0A000113 |
| 32* | 224166.40 | 000000.00 | 81 | V REE7 | SIC,(V P) | | 0A000114 |
| 33* | 224167.00 | 224456.43 | 48 | | CB+,V P,V NXT | -0153 | 0A000114 |
| 34* | 224167.40 | 225232.07 | 01 | | LVI,V U,V CR | -0154 | 0A000115 |
| 35* | 224170.00 | 224171.23 | 80 | 224207.34 00 | BZB1,V CSAW,V REE3 | -0155 | 0A000116 |
| 36* | 224171.00 | 224450.50 | 00 | V RDCSS | B,V RTN | -0156 | 0A000117 |
| 37* | 224171.23+ | +00000000 | | BU,01 ,10 | SYN(BU,1),V RDCSS.19 | -0157 | 0A000118 |
| 38* | 224171.40 | 225427.02 | 10 | | LX,V P,V PD | -0158 | 0A000119 |
| 39* | 224172.00 | 000040.10 | 00 | | B,D MCP | | 0A000120 |
| 40* | 224172.40 | 000002.00 | 80 | | ,D CCW | -0159 | 0A000120 |
| 41* | 224173.00 | 000006.01 | B3 | | LVE,,V SU(V U) | -0160 | 0A000121 |
| 42* | 224173.40 | 224646.00 | 80 | | ,V EE1 | -0161 | 0A000122 |
| 43* | 224174.00 | 224646.22 | 80 | 224157.74 00 | BZB,V EE1.18,V NCP | -0162 | 0A000123 |
| 44* | 224175.00 | 224171.23 | 80 | 000000.34 04 | BZBZ,V CSAW, | -0163 | 0A000124 |
| 45* | 224176.00 | 224372.32 | 80 | 001000.00 F0 | V RDCSX | -0164 | 0A000125 |
| 46* | 224177.00 * | 225232.07 | 01 | | CMOC00,V EOFX | -021 | 0A000126 |
| 47* | 224177.40 | 000000.15 | 01 | V REE1 | LVI,VU,VCR | -0165 | 0A000127 |
| 48* | | | | | LVI,V T2,C | -019 | 0A000128 |
| 49* | 224200.00 | 224203.31 | 42 | | BXVZ,V REE4 | -0166 | 0A000129 |
| 50* | 224200.40 | 000000.55 | 33 | | SV,V T2,V X1(V U) | -0167 | 0A000130 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 224201 |
|------|-------------|---------------|--------------|--|--------------------|----------------|
| 1* | 224201.00 | 00000.16 33 | | LV,V T3,V X(V U) | | -0168 OA000132 |
| 2* | 224201.40 | 224202.70 C2 | | BXVLZ,\$.64 | | -0169 OA000133 |
| 3* | 224202.00 | 000042.17 0D | | V-I,V T3,34. | | -0170 OA000134 |
| 4* | 224202.40 | 000005.50 03 | | B,V IO(V U) | | -0171 OA000135 |
| 5* | 224203.00 | 000000.55 33 | V REE4 | SV,V T2,V X1(V U) | | -0172 OA000136 |
| 6* | 224203.40 | 224655.10 CC | | B,V ACT | | -0173 OA000137 |
| 7* | | | | CNOP, | | -0174 OA000138 |
| 8* | 224204.00 | | V REE6 | (IQS*)CD(BU,8,8),SERVICE THE CARD READER * | | -0175 OA000139 |
| 9* | 224207.00 | 224210.23 09 | V REE3 | LVNI,V T5,V EES | | -0176 OA000140 |
| 10* | 224207.40 | 224456.50 CC | | B,V NXT | | -0177 OA000141 |
| 11* | 224210.00 | 224171.23 80 | 224215.74 CC | V EES | BZB,V CSAW,V EES1 | -0178 OA000142 |
| 12* | 224211.00 | 225250.07 04 | | KVI,V U,V SC | | -0179 OA000143 |
| 13* | 224211.40 | 224216.32 C0 | | BZXE,V EES2 | | -0180 OA000144 |
| 14* | 224212.00 | 225255.11 B0 | | LVE,V T1,V NX+V SC | | -0181 OA000145 |
| 15* | 224212.40 * | 224324.51 04 | | KVI,V T1,V WQ | | -0182 OA000146 |
| 16* | 224213.00 | 224216.32 C2 | | BXE,V EES2 | | -0183 OA000147 |
| 17* | 224213.40 | 224210.23 09 | | LVNI,V T5,V EES | | -0184 OA000148 |
| 18* | 224214.00 | 000000.00 81 | | SIC,(V P) | | -0185 OA000149 |
| 19* | 224214.40 | 224456.43 48 | | CB+,V P,V NXT | | -0186 OA000150 |
| 20* | 224215.00 | 225250.07 01 | | LVI,V U,V SC | | -0187 OA000151 |
| 21* | 224215.40 | 224671.43 C8 | V EES1 | CB-,V P,V SETX | | -0188 OA000152 |
| 22* | 224216.00 | 224372.32 80 | 224215.74 02 | V EES2 | BB,V ECFX,V EES1 | -0189 OA000153 |
| 23* | 224217.00 | 000040.10 00 | | B,D MCP | | -0190 OA000154 |
| 24* | 224217.40 | 000043.40 80 | | ,D COMM | | -0191 OA000155 |
| 25* | 224220.00 | 224204.00+ | | VF,V REE6 | | -0192 OA000156 |
| 26* | 224220.40 | 000003 | | CF,3 | | -0193 OA000157 |
| 27* | 224221.00 | 224671.43 C8 | | CB-,V P,V SETX | | -0194 OA000158 |
| 28* | 224221.40 | 224171.23 80 | 224157.74 00 | V ECFB | BZB,V CSAW,V NOP | -0195 OA000159 |
| 29* | 224222.40 | 225376.50 30 | | LV,V T1,V X1+V E | | -0196 OA000160 |
| 30* | 224223.00 | 224157.71 40 | | BZXVZ,V NOP | | -0197 OA000161 |
| 31* | 224223.40 | 225400.16 10 | | LX,V T3,V X2R+V E | | -0198 OA000162 |
| 32* | 224224.00 | 000000.10 37 | | LV,V T1,(V T3) | | -0199 OA000163 |
| 33* | 224224.40 | 224157.71 40 | | BZXVZ,V NOP | | -0200 OA000164 |
| 34* | 224225.00 | 000000.41 05 | | V+I,,V F | | -0201 OA000165 |
| 35* | 224225.40 * | 224372.32 80 | 224157.74 00 | | BZB1,V ECFX,V NOP | -0202 OA000166 |
| 36* | 224226.40 | 224171.23 80 | 224157.74 00 | V ECFN | BZB,V CSAW,V NOP | -0203 OA000167 |
| 37* | 224227.40 | 225247.10 10 | | LX,V T1,V TX1 | | -0204 OA000168 |
| 38* | 224230.00 | 224157.50 48 | | CB,V T1,V NOP | | -0205 OA000169 |
| 39* | 224230.40 | 225252.16 10 | | LX,V T3,V X2R+V SC | | -0206 OA000170 |
| 40* | 224231.00 | 000000.10 37 | | LV,V T1,(V T3) | | -0207 OA000171 |
| 41* | 224231.40 | 224157.71 40 | | BZXVZ,V NOP | | -0208 OA000172 |
| 42* | 224232.00 | 000000.41 05 | | V+I,,V F | | -0209 OA000173 |
| 43* | 224232.40 | 224372.32 80 | 225203.74 00 | | BZB1,V ECFX,V SREW | -0210 OA000174 |
| 44* | 224233.40 | 225232.07 01 | | V RDQ | LVI,V U,V CR | -0207 OA000173 |
| 45* | 224234.00 | 000000.00 81 | | | SIC,(V P) | -0208 OA000174 |
| 46* | 224234.40 | 224702.10 C0 | | | B,V CCM | -0209 OA000175 |
| 47* | 224235.00 | 224653.10 00 | | | B,V ACTX | -0210 OA000176 |
| 48* | 224235.40 | 000000.00 81 | | V RDIO | SIC,(V P) | -0211 OA000177 |
| 49* | 224236.00 | 224707.50 C0 | | | B,V MD | -0211 OA000177 |
| 50* | 224236.40 | 000040.10 C0 | | | B,D MCP | -0211 OA000177 |
| 51* | 224237.00 | 000001.00 80 | | | ,D RD | -0211 OA000177 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 224237 |
|------|-------------|-----------|--------|------------------|-------------------------------------|----------|----------------|
| 1* | 224237.40 | 000005.00 | 80 | | ,V CRD | | -0212 OA000179 |
| 2* | 224240.00 | 225236.00 | 80 | | ,V RDCW | | -0213 OA000180 |
| 3* | 224240.40 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0214 OA000181 |
| 4* | 224241.00 | | | 2400201042001102 | RJCB DD(BU,48),(8)2400201042001102 | | CA000182 |
| 5* | 224241.60 * | | | 4100201020404040 | RCCMD DD(EU,48),(8)4100201020404040 | | CA000183 |
| 6* | | | | | | | -0215 CA000184 |
| 7* | 224242.40 | 225250.07 | 01 | V SCAN | LVI,V U,V SC | | -0216 OA000185 |
| 8* | 224243.00 | 225247.26 | 10 | | LX,V S2,V TX1 | | -0217 CA000186 |
| 9* | 224243.40 | 224247.76 | 80 | 224244.74 04 | V SC6 BZBZ,V SC7B.30,\$+1. | | -0218 OA000187 |
| 10* | 224244.40 | 224322.00 | 80 | | V SC7A SIC,V SQ1 | | CA000188 |
| 11* | 224245.00 | 224245.50 | 00 | | B,\$.32 | -0219 | CA000188 |
| 12* | 224245.40 | 225246.24 | 10 | | LX,V S1,V TX | | -0220 OA000189 |
| 13* | 224246.00 | 000000.42 | 6A | V SC7 | LWF(U),(V S1) | | -0221 OA000190 |
| 14* | 224246.40 | 420000.00 | 80 | 414072.23 10 | KFI(BU,12),(16)880,-12 | | -0222 OA000191 |
| 15* | 224247.40 | 224252.76 | 00 | | V SC7B BZAE,V SC0 | | -0223 OA000192 |
| 16* | 224250.00 | 000017.25 | 07 | | V SC3 V+ICR,V S1,15. | | -0224 CA000193 |
| 17* | 224250.40 | 224246.27 | 48 | | CB+,V S2,V SC7 | | -0225 OA000194 |
| 18* | 224251.00 | 000000.00 | 81 | | SIC,(V P) | | CA000195 |
| 19* | 224251.40 | 224307.03 | 48 | | CB+,V P,V SC10 | -0226 | CA000195 |
| 20* | 224252.00 | 224246.10 | 00 | | B,V SC7 | | -0227 CA000196 |
| 21* | 224252.40 | 110000.00 | 80 | 414072.23 10 | V SC0 KFI(BU,12),(16)240,-12 | | -0228 OA000197 |
| 22* | 224253.40 | 224250.36 | C2 | | BAE,V SC3 | | -0229 CA000198 |
| 23* | 224254.00 | 224247.76 | 80 | 224250.34 08 | RSWITC BZBN,VSC7B.30,VSC3 | | CA000199 |
| 24* | 224255.00 * | 000001.54 | 8A | 060000.20 50 | L(BU,48),1.44(VS1) | | CA000200 |
| 25* | 224256.00 | 224241.00 | 80 | 060000.23 10 | KF(BU,48),RJOB | | CA000201 |
| 26* | 224257.00 | 224261.36 | C2 | | BAE,RBREAK | | CA000202 |
| 27* | 224257.40 | 224241.60 | 80 | 060000.23 10 | KF(BU,48),RCOMD | | CA000203 |
| 28* | 224260.40 | 224254.36 | 00 | | BZAE,RSWITC | | CA000204 |
| 29* | 224261.00 | 000033.22 | 30 | | RBREAK LV,VT5,VS2 | | CA000205 |
| 30* | 224261.40 | 224263.71 | 42 | | BXVZ,V SC5 | | -0233 CA000206 |
| 31* | 224262.00 | 000000.00 | 81 | | SIC,(V P) | | CA000207 |
| 32* | 224262.40 | 224456.43 | 48 | | CB+,V P,V NXT | -0234 | CA000207 |
| 33* | 224263.00 | 000000.27 | 01 | | LVI,V S2,0 | | -0235 CA000208 |
| 34* | 224263.40 | 224157.63 | C9 | | V SC5 LVNI,V T5,V NCP | | -0236 CA000209 |
| 35* | 224264.00 | 000000.00 | 81 | | SIC,(V P) | | CA000210 |
| 36* | 224264.40 | 225255.03 | 48 | | CB+,V P,V NX+V SC | -0237 | CA000210 |
| 37* | 224265.00 | 225250.07 | 01 | | LVI,V U,V SC | | -0238 CA000211 |
| 38* | 224265.40 | 225246.25 | 10 | | V SC5A SX,V S1,V TX | | -0239 CA000212 |
| 39* | 224266.00 | 224246.10 | 00 | | V SC1A B,V SC7 | | -0240 CA000213 |
| 40* | 224266.40 | 224267.10 | 00 | | B,\$.V H | | -0241 CA000214 |
| 41* | 224267.00 | 225247.27 | 10 | | SX,V S2,V TX1 | | -0242 CA000215 |
| 42* | 224267.40 | 215571.00 | 80 | | SIC,S PRIMR | | CA000216 |
| 43* | 224270.00 | 215570.04 | 00 | | BD,S PRIME | -0243 | CA000216 |
| 44* | 224270.40 * | 000114.40 | 80 | | ,S JC1 | | -0244 CA000217 |
| 45* | 224271.00 | 224271.40 | 00 | | BE,\$.32 | | -0245 CA000218 |
| 46* | 224271.40 | 224274.23 | 80 | 224311.74 06 | BBZ,V SCR3.19,V SQ2 | | -0246 CA000219 |
| 47* | | | | | | | -0247 CA000220 |
| 48* | 224272.40 | 225250.07 | 01 | | V SCR1 LVI,V U,V SC | | -0248 CA000221 |
| 49* | 224273.00 | 225246.24 | 10 | | LX,V S1,V TX | | -0249 CA000222 |
| 50* | 224273.40 | 225247.26 | 10 | | LX,V S2,V TX1 | | -0250 CA000223 |

| LINE | LOCATIONN | BINARY | OUTPUT | NAME | STATEMENT | LOCATIONN | 224274 | |
|------|-----------|-------------|--------|--------------|------------------------------|-----------|--------|----------|
| 1* | 224274.00 | 224306.30 | 00 | V SCR3 | NOP,V SCR2 | | | -0251 |
| 2* | 224274.40 | 000017.25 | 07 | | V+ICR,V S1,15. | | | -0252 |
| 3* | 224275.00 | 224302.67 | 48 | | CB+,V S2,V SCR6 | | | -0253 |
| 4* | 224275.40 | 000033.22 | 30 | | LV,V T5,V S2 | | | -0254 |
| 5* | 224276.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000229 |
| 6* | 224276.40 | 224456.43 | 48 | | CB+,V P,V NXT | -0255 | | 0A000229 |
| 7* | 224277.00 | 225250.07 | 01 | | LVI,V U,V SC | | | -0256 |
| 8* | 224277.40 | 000000.00 | 81 | | SIC,(V P) | | | 0A000231 |
| 9* | 224300.00 | 224671.50 | 00 | | B,V SETX | -0257 | | 0A000231 |
| 10* | 224300.40 | 000000.55 | 33 | | SV,V T2,V X1(V U) | | | -0258 |
| 11* | 224301.00 | 224304.31 | 42 | | BXVZ,V SCR4 | | | -0259 |
| 12* | 224301.40 | 000026.26 | 50 | | LC,V S2,V T2 | | | -0260 |
| 13* | 224302.00 | 000000.27 | 01 | | LVI,V S2,C | | | -0261 |
| 14* | 224302.40 | 224303.41 | 00 | V SCR6 | SVA,,V SCR6A | | | -0262 |
| 15* | 224303.00 | 000000.41 | 05 | | V+I,,.V H | | | -0263 |
| 16* | 224303.40 | 000000.25 | 30 | V SCR6A | SV,V S1,C | | | -0264 |
| 17* | 224304.00 | * 000000.41 | 05 | V SCR4 | V+I,,.V H | | | -0265 |
| 18* | 224304.40 | 225246.25 | 10 | | SX,V S1,V TX | | | -0266 |
| 19* | 224305.00 | 225247.27 | 10 | | SX,V S2,V TX1 | | | -0267 |
| 20* | 224305.40 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | | -0268 |
| 21* | 224306.00 | 224274.23 | 80 | 224302.74 OC | V SCR2 BZB1,V SCR3.19,V SCR6 | | | -0269 |
| 22* | | | | | | | | -0270 |
| 23* | 224307.00 | 000000.00 | 81 | V SC10 | SIC,(V P) | | | 0A000245 |
| 24* | 224307.40 | 224671.50 | 00 | | B,V SETX | -0271 | | 0A000245 |
| 25* | 224310.00 | 000000.55 | 33 | | SV,V T2,V X1(V U) | | | -0272 |
| 26* | 224310.40 | 224312.31 | 42 | | BXVZ,V SC4 | | | -0273 |
| 27* | 224311.00 | 000026.26 | 50 | | LC,V S2,V T2 | | | -0274 |
| 28* | 224311.40 | 777777.03 | C9 | V SQ2 | CB-,V P,V M1(V P) | | | -0275 |
| 29* | 224312.00 | 000033.22 | 30 | V SC4 | LV,V T5,V S2 | | | -0276 |
| 30* | 224312.40 | 225246.25 | 10 | | SX,V S1,V TX | | | -0277 |
| 31* | 224313.00 | 000001.03 | 00 | | V-I,V P,1.0 | | | -0278 |
| 32* | 224313.40 | 000005.10 | 03 | | B,V NX(V U) | | | -0279 |
| 33* | | | | | | | | -0280 |
| 34* | 224314.00 | 225250.07 | 01 | V SQ | LVI,V U,V SC | | | -0281 |
| 35* | 224314.40 | 000000.00 | 81 | | SIC,(V P) | | | 0A000256 |
| 36* | 224315.00 | 224702.10 | 00 | | B,V CCM | -0282 | | 0A000256 |
| 37* | 224315.40 | 225246.24 | 10 | | LX,V S1,V TX | | | -0283 |
| 38* | 224316.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000258 |
| 39* | 224316.40 | 224670.50 | 00 | | B,V SETUP | -0284 | | 0A000258 |
| 40* | 224317.00 | 225246.25 | 10 | | SX,V S1,V TX | | | -0285 |
| 41* | 224317.40 | * 000000.15 | 05 | | V+I,V T2,C | | | -0286 |
| 42* | 224320.00 | 224311.71 | 42 | | BXVZ,V SQ2 | | | -0287 |
| 43* | 224320.40 | 000000.55 | 33 | | SV,V T2,V X1(V U) | | | -0288 |
| 44* | 224321.00 | 000026.26 | 50 | | LC,V S2,V T2 | | | -0289 |
| 45* | 224321.40 | 000000.27 | 01 | | LVI,V S2,C | | | -0290 |
| 46* | 224322.00 | 224245.50 | 00 | V SQ1 | B,V SC7A+1. | | | -0291 |
| 47* | 224322.40 | 225427.02 | 10 | V WSCP | LX,V P,V PD | | | -0292 |
| 48* | 224323.00 | 000007.00 | 83 | 022000.22 B0 | M+1(BU,18),V RCNT(V U) | | | -0293 |
| 49* | 224324.00 | 224647.50 | 00 | | B,V ECP | | | -0294 |
| 50* | 224324.40 | 225266.07 | 01 | V WG | LVI,V U,V WT | | | -0295 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 224325 |
|------|-------------|-----------|--------|--------------|------------------------|---------------------------------------|----------------|
| 1* | 224325.00 | C00001.16 | 13 | V RQ1 | LX,V T3,V X2S(V U) | | -0296 OA000271 |
| 2* | 224325.40 | C00000.23 | 05 | | V+I,V T5,C | | -0297 OA000272 |
| 3* | 224326.00 | 224661.70 | C0 | | BZXVLZ,V BLOC | | -0298 OA000273 |
| 4* | 224326.40 | C00006.60 | 33 | | LV,V T4,V RQB(V U) | | -0299 OA000274 |
| 5* | 224327.00 | 224331.31 | 42 | | BXVZ,V WQ2 | | -0300 OA000275 |
| 6* | 224327.40 | C00000.21 | 37 | | SV,V T4,(V T3) | | -0301 OA000276 |
| 7* | 224330.00 | C00006.43 | 73 | | SR,V P,V RQB(V U) | | -0302 OA000277 |
| 8* | 224330.40 | C00000.57 | 07 | | V+ICR,V T3,.V H | | -0303 OA000278 |
| 9* | 224331.00 | C00000.23 | 37 | V WQ2 | SV,V T5,(V T3) | | -0304 OA000279 |
| 10* | 224331.40 | C00000.57 | 07 | | V+ICR,V T3,.V H | | -0305 OA000280 |
| 11* | 224332.00 | C00001.17 | 13 | | SX,V T3,V X2S(V U) | | -0306 OA000281 |
| 12* | 224332.40 | 224653.10 | 00 | | B,V ACTX | | -0307 OA000282 |
| 13* | 224333.00 * | 225266.07 | 01 | V WEFT | LVI,V U,V WT | | -0308 OA000283 |
| 14* | 224333.40 | C00000.55 | 33 | | SV,V T2,V X1(V U) | | -0309 OA000284 |
| 15* | 224334.00 | 225264.42 | 60 | | LWF(U),V WT-2. | | -0310 OA000285 |
| 16* | 224334.40 | 225265.40 | E0 | | ST(U),V WT-1. | | -0311 OA000286 |
| 17* | 224335.00 | C00007.C3 | 73 | | SR,V P,V RCNT(V U) | | -0312 OA000287 |
| 18* | 224335.40 | C00001.03 | 0D | | V-I,V P,1. | | -0313 OA000288 |
| 19* | 224336.00 | C00040.10 | 00 | | B,D MCP | | OA000289 |
| 20* | 224336.40 | C00007.40 | 80 | | ,D WEF | -0314 | OA000289 |
| 21* | 224337.00 | 000006.01 | B3 | | LVE,,V SU(V U) | | -0315 OA000290 |
| 22* | 224337.40 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0316 OA000291 |
| 23* | 224340.00 | 225427.02 | 10 | RWTEE | LX,VP,VPD | | OA000292 |
| 24* | 224340.40 | C00040.10 | C0 | | B,DMCP | | OA000293 |
| 25* | 224341.00 | 000015.00 | 80 | | ,DICDEF | | OA000293 |
| 26* | 224341.40 | 000006.01 | B3 | | LVE,,V SU(VU) | | OA000293 |
| 27* | 224342.00 | 224352.00 | 80 | | ,RLMSGE | | OA000293 |
| 28* | 224342.40 | C00040.10 | C0 | | B,DMCP | | OA000294 |
| 29* | 224343.00 | C00043.40 | 80 | | ,DCCMM | | OA000294 |
| 30* | 224343.40 | 224352.00 | 80 | | ,RLMSGE | | OA000294 |
| 31* | 224344.00 | C00006.00 | 80 | | ,6.C | | OA000294 |
| 32* | 224344.40 | C00006.23 | B3 | | LVE,VT5,V SU(VU) | | OA000295 |
| 33* | 224345.00 | 224135.23 | B9 | | LVE,VT5,VXG(VT5) | | OA000296 |
| 34* | 224345.40 | 227645.23 | 30 | | SV,VT5,RWEXIT-1.C | | OA000296 |
| 35* | 224346.00 * | 227642.23 | 80 | 001000.CC F0 | CMOC00(BU,1),RKCRWT.19 | | OA000297 |
| 36* | 224347.00 | 227642.00 | 80 | | SIC,RKCRWT | | OA000298 |
| 37* | 224347.40 | 227616.10 | 00 | | B,REWTEE | | OA000298 |
| 38* | 224350.00 | 230265.35 | 01 | | LVI,\$14,RSAM1 | | OA000299 |
| 39* | 224350.40 | 227642.35 | D0 | | SVA,\$14,RKCRWT | | OA000299 |
| 40* | 224351.00 | 230346.10 | C0 | | B,REDMP | | OA000300 |
| 41* | 224351.40 | C00000.30 | 00 | | CNOP, | | OA000301 |
| 42* | 224352.00 | | | RLMSGE | (IQS*)CC(BU,8), | IS UNLOADING,INPUT FOUND END OF TAPE* | OA000302 |
| 43* | 224360.00 | 225427.02 | 10 | RWTM | LX,VP,VPD | | OA000303 |
| 44* | 224360.40 | C00007.22 | 33 | | LV,VT5,VRCNT(VU) | | OA000304 |
| 45* | 224361.00 | 224377.71 | 42 | | BXVZ,VWF1 | | OA000305 |
| 46* | 224361.40 | 225427.02 | 10 | V WFEQP | LX,V P,V PD | | -0317 OA000306 |
| 47* | 224362.00 * | C00007.20 | 33 | | LV,V T4,V RCNT(V U) | | -0318 OA000307 |
| 48* | 224362.40 | 224402.31 | 40 | | RZXVZ,V WTEOP | | -0319 OA000308 |
| 49* | 224363.00 | C00007.56 | 33 | | LV,V T3,V FCNT(V U) | | -0320 OA000309 |
| 50* | 224363.40 | C00001.17 | 05 | | V+I,V T3,1. | | -0321 OA000310 |
| 51* | 224364.00 | 000007.57 | 33 | | SV,V T3,V FCNT(V U) | | -0322 OA000311 |
| 52* | 224364.40 | 224371.56 | 90 | | KV,V T3,V MNJB | | -0323 OA000312 |
| 53* | 224365.00 | 224367.72 | 42 | | BXL,V WF3 | | -0324 OA000313 |
| 54* | 224365.40 | 224371.14 | 30 | | LV,V T2,V TSQ | | -0325 OA000314 |
| 55* | 224366.00 | 224377.70 | C0 | | BZXVLZ,V WF1 | | -0326 OA000315 |
| 56* | 224366.40 | 224372.16 | 90 | | KV,V T3,V MXJB | | -0327 OA000316 |

| LINE | LOCATIONN | INARY OUTPUT | NAME | STATEMENT | LOCATIONN | 224367 |
|------|-------------|---------------------------|----------|---------------------|-----------|----------------|
| 1* | 224367.00 | 224377.72 40 | | BZXL,V WF1 | | -0328 CA000317 |
| 2* | 224367.40 | 225263.42 60 | V WF3 | LWF(U),V WT-3. | | -0329 CA000318 |
| 3* | 224370.00 | 225265.40 E0 | | ST(U),V WT-1. | | -0330 CA000319 |
| 4* | 224370.40 | 224655.10 C0 | | B,V ACT | | -0331 CA000320 |
| 5* | 224371.00 | 000000.00+ | V TSG | VF,C | | -0332 CA000321 |
| 6* | 224371.40 | 000005.00+ | V MNJB | VF,5. | | -0333 CA000322 |
| 7* | 224372.00 | 000012.00+ | V MXJB | VF,10. | | -0334 CA000323 |
| 8* | 224372.31 | | 0 V BYGN | DD(BU,1),C | | -0335 CA000324 |
| 9* | 224372.32 | | 0 V ECFX | DD(BU,1),C | | -0336 CA000325 |
| 10* | 224372.40 | 224671.43 C8 | V SSRW1 | CB-,V P,V SETX | | -0337 CA000326 |
| 11* | 224373.00 | 224372.31 80 224374.34 OE | V BREW | BB1,V BYGN,\$+1. | | -0338 CA000327 |
| 12* | 224374.00 | 000007.10 33 | V SSREW | LV,V T1,V RCNT(V U) | | -0339 CA000328 |
| 13* | 224374.40 | 000007.50 B3 | | V+,V T1,V FCNT(V U) | | -0340 CA000329 |
| 14* | 224375.00 | 224372.71 42 | | BXVZ,V SSRW1 | | -0341 CA000330 |
| 15* | 224375.40 * | 000000.55 33 | | SV,V T2,V X1(V U) | | -0342 CA000331 |
| 16* | 224376.00 | 000001.03 CD | | V-I,V P,1. | | -0343 CA000332 |
| 17* | 224376.40 | 225264.42 60 | | LWF(U),V WT-2. | | -0344 CA000333 |

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| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 224377 | |
|------|-------------|-----------|--------|--------------|------------------------|----------|--------|----------|
| 1* | 224377.00 | 225265.40 | E0 | | ST(U),V WT-1. | | -0345 | 0A000335 |
| 2* | 224377.40 | 000007.03 | 33 | V WF1 | SV,V P,V RCNT(V U) | | -0346 | 0A000336 |
| 3* | 224400.00 | 000040.10 | 00 | | B,D MCP | | | 0A000337 |
| 4* | 224400.40 | 000007.40 | 80 | | ,D WEF | | -0347 | 0A000337 |
| 5* | 224401.00 | 000006.01 | 83 | | LVE,,V SU(V U) | | -0348 | 0A000338 |
| 6* | 224401.40 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0349 | 0A000339 |
| 7* | 224402.00 | 225263.42 | 60 | V WTEOP | LWF(U),V WT-3. | | -0350 | 0A000340 |
| 8* | 224402.40 | 225265.40 | E0 | | ST(U),V WT-1. | | -0351 | 0A000341 |
| 9* | 224403.00 | 224721.50 | 00 | | B,V WTTS | | -0352 | 0A000342 |
| 10* | 224403.40 | 000000.00 | 81 | V WIG | SIC,(V P) | | | 0A000343 |
| 11* | 224404.00 | 224707.50 | C0 | | B,V MD | | -0353 | 0A000343 |
| 12* | 224404.40 | 000040.10 | 00 | | B,D MCP | | | 0A000344 |
| 13* | 224405.00 | 000001.40 | 80 | | ,D W | | -0354 | 0A000344 |
| 14* | 224405.40 | 000006.01 | 83 | | LVE,,V SU(V U) | | -0355 | 0A000345 |
| 15* | 224406.00 | 225272.00 | 80 | | ,V WCW | | -0356 | 0A000346 |
| 16* | 224406.40 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0357 | 0A000347 |
| 17* | 224407.00 | 225427.02 | 10 | V REE | LX,V P,V PD | | -0360 | 0A000348 |
| 18* | 224407.40 | 000011.20 | 53 | | LC,V T4,V FCNX(V U) | | -0361 | 0A000349 |
| 19* | 224410.00 | 224411.60 | 48 | | CB,V T4,V RTEE1 | | -0362 | 0A000350 |
| 20* | 224410.40 * | 224371.00 | 80 | 031100.C2 80 | M+1,V TSQ | | -0363 | 0A000351 |
| 21* | 224411.40 | 000011.21 | 53 | V RTEE1 | SC,V T4,V FCNX(V U) | | -0364 | 0A000352 |
| 22* | 224412.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000353 |
| 23* | 224412.40 | 224615.03 | 48 | | CB+,V P,V TEE | | -0365 | 0A000353 |
| 24* | 224413.00 | 224457.23 | C9 | | LVNI,V T5,V QEND | | -0366 | 0A000354 |
| 25* | 224413.40 | 225346.07 | 01 | | LVI,V U,V Q | | -0367 | 0A000355 |
| 26* | 224414.00 | 000001.16 | 13 | V RTEE2 | LX,V T3,V X2S(V U) | | -0368 | 0A000356 |
| 27* | 224414.40 | 000000.57 | 07 | | V+ICR,V T3,V F | | -0369 | 0A000357 |
| 28* | 224415.00 | 000000.23 | 37 | | SV,V T5,(V T3) | | -0370 | 0A000358 |
| 29* | 224415.40 | 000000.57 | 07 | | V+ICR,V T3,.V H | | -0371 | 0A000359 |
| 30* | 224416.00 | 224624.62 | 30 | | LV,V T5,V TEE1 | | -0372 | 0A000360 |
| 31* | 224416.40 | 000000.23 | 37 | | SV,V T5,(V T3) | | -0373 | 0A000361 |
| 32* | 224417.00 | 000000.57 | 07 | | V+ICR,V T3,.V H | | -0374 | 0A000362 |
| 33* | 224417.40 | 000001.17 | 13 | | SX,V T3,V X2S(V U) | | -0375 | 0A000363 |
| 34* | 224420.00 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0376 | 0A000364 |
| 35* | 224420.40 | 225331.07 | C1 | V RQ | LVI,V U,V RT | | -0377 | 0A000365 |
| 36* | 224421.00 | 224325.10 | C0 | | B,V RQ1 | | -0378 | 0A000366 |
| 37* | 224421.40 | 000004.02 | 03 | V RTIO | R,V CWR(V U) | | -0379 | 0A000367 |
| 38* | 224422.00 | 000007.00 | 83 | 022000.22 80 | M+1(BU,18),V RCNT(V U) | | -0380 | 0A000368 |
| 39* | 224423.00 | 000040.10 | 00 | | B,D MCP | | | 0A000369 |
| 40* | 224423.40 | 000001.00 | 80 | | ,D RD | | -0381 | 0A000369 |
| 41* | 224424.00 | 000006.01 | 83 | | LVE,,V SU(V U) | | -0382 | 0A000370 |
| 42* | 224424.40 * | 000004.00 | 83 | | ,V CWR(V U) | | -0383 | 0A000371 |
| 43* | 224425.00 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0384 | 0A000372 |
| 44* | 224425.40 | 225312.07 | 01 | V STQ | LVI,V U,V ST | | -0385 | 0A000373 |
| 45* | 224426.00 | 224325.10 | 00 | | B,V RQ1 | | -0386 | 0A000374 |
| 46* | 224426.40 | 225427.02 | 10 | V RTEE | LX,V P,V PD | | -0387 | 0A000375 |
| 47* | 224427.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000376 |
| 48* | 224427.40 | 224615.03 | 48 | | CB+,V P,V TEE | | -0388 | 0A000376 |

| LINE | LOCATIONN | BINARY | CUTPUT | NAME | STATEMENT | LOCATIONN | 224430 | |
|------|-------------|-----------|--------|--------------|------------------------------------|----------------------|--------|----------|
| 1* | 224430.00 | 224431.63 | 09 | | LVNI,V T5,V SCEND | | -0389 | 0A000378 |
| 2* | 224430.40 | 225250.07 | 01 | | LVI,V U,V SC | | -0390 | 0A000379 |
| 3* | 224431.00 | 224414.10 | 00 | | B,V RTEE2 | | -0391 | 0A000380 |
| 4* | 224431.40 | 000000.00 | 81 | V SCEND | SIC,(V P) | | | 0A000381 |
| 5* | 224432.00 | 224626.03 | 48 | | CB+,V P,V RBLC | -0392 | | 0A000381 |
| 6* | 224432.40 | 225250.07 | 01 | | LVI,V U,V SC | | -0393 | 0A000382 |
| 7* | 224433.00 | 000000.14 | 53 | | LC,V T2,V X(V U) | | -0394 | 0A000383 |
| 8* | 224433.40 | 224435.70 | 42 | | BXCZ,V SCEN1 | | -0395 | 0A000384 |
| 9* | 224434.00 | 000000.03 | 73 | | SR,V P,V X(V U) | | -0396 | 0A000385 |
| 10* | 224434.40 | 000017.25 | 07 | V SCEN2 | V+ICR,V S1,15. | | -0397 | 0A000386 |
| 11* | 224435.00 | 224434.54 | 48 | | CB,V T2,V SCEN2 | | -0398 | 0A000387 |
| 12* | 224435.40 | 224671.43 | 08 | V SCEN1 | CB-,V P,V SETX | | -0399 | 0A000388 |
| 13* | 224436.00 | 225426.02 | 10 | V SCR | LX,V P,V PDQ | | -0400 | 0A000389 |
| 14* | 224436.40 | 224106.40 | 30 | | LV,,V VSCR+V RA | | -0401 | 0A000390 |
| 15* | 224437.00 | 224716.46 | 30 | | LV,V U,V RQEXT | | -0402 | 0A000391 |
| 16* | 224437.40 * | 224107.62 | 80 | 224447.34 02 | BB,V VSCR+V POP.18,V SCRA | | | 0A000392 |
| 17* | 224440.40 | 000001.11 | 01 | | LVI,V T1,1. -SPECIAL SCR4 SEQUENCE | | -0404 | 0A000393 |
| 18* | 224441.00 | 224110.51 | 30 | | SV,V T1,V NREQ | | -0405 | 0A000394 |
| 19* | 224441.40 | 000001.01 | 00 | | V-I,,1. | | -0406 | 0A000395 |
| 20* | 224442.00 | 224372.31 | 80 | 224447.34 04 | BZBZ,V BYON,V SCRA | | -0407 | 0A000396 |
| 21* | 224443.00 | 225376.07 | 01 | | LVI,V U,V E | | -0408 | 0A000397 |
| 22* | 224443.40 | 224716.47 | 30 | | SV,V U,V RQEXT | | -0409 | 0A000398 |
| 23* | 224444.00 | 224154.51 | 01 | | LVI,V T1,V BYP | | -0410 | 0A000399 |
| 24* | 224444.40 | 224150.11 | 00 | | SVA,V T1,V DISP | | -0411 | 0A000400 |
| 25* | 224445.00 | 215001.10 | 80 | 002000.00 FC | CMOCOC,SYSMOD | | -0412 | 0A000401 |
| 26* | 224446.00 | 215001.10 | 80 | 000000.34 OE | BB1,SYSMOD,0 | | -0413 | 0A000402 |
| 27* | 224447.00 | 000000.00 | 81 | V SCRA | SIC,(V P) | | | 0A000403 |
| 28* | 224447.40 | 224461.43 | 48 | | CB+,V P,V REQ | -0414 | | 0A000403 |
| 29* | 224450.00 | 224106.41 | 30 | | SV,,V VSCR+V RA | | -0415 | 0A000404 |
| 30* | 224450.40 | 000040.10 | 00 | VRTN | B,DMCP | | | 0A000405 |
| 31* | 224451.00 | 000041.00 | 80 | | ,DRET | | | 0A000405 |
| 32* | 224451.40 | 225376.07 | 01 | V EQ | LVI,V U,V E | | -0417 | 0A000406 |
| 33* | 224452.00 | 224453.10 | 00 | | B,V QQ2 | | -0418 | 0A000407 |
| 34* | 224452.40 | 225346.07 | 01 | V QQ | LVI,V U,V Q | | -0419 | 0A000408 |
| 35* | 224453.00 | 000000.00 | 81 | V QQ2 | SIC,(V P) | | -0420 | 0A000409 |
| 36* | 224453.40 * | 224702.10 | 00 | | B,V CCM | | -0421 | 0A000410 |
| 37* | 224454.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000411 |
| 38* | 224454.40 | 224670.50 | 00 | | B,V SETUP | -0422 | | 0A000411 |
| 39* | 224455.00 | 224456.31 | 42 | | BXVZ,VQQ1 | | | 0A000412 |
| 40* | 224455.40 | 000000.55 | 33 | | SV,VT2,VX1(VU) | | | 0A000413 |
| 41* | 224456.00 | 777777.03 | 09 | V QQ1 | CB-,V P,V M1(V P) | | -0425 | 0A000414 |
| 42* | 224456.40 | 000005.10 | 03 | V NXT | B,V NX(V U) | | -0426 | 0A000415 |
| 43* | 224110.00+ | +00000000 | | BU,04 ,10 | V FWA | SYN,V VSCR+V PAR | -0427 | 0A000416 |
| 44* | 224110.40+ | +00000000 | | BU,04 ,10 | V NREQ | SYN,V VSCR+V PAR.V H | -0428 | 0A000417 |
| 45* | 224457.00 | 000000.00 | 81 | V QEND | SIC,(V P) | | | 0A000418 |
| 46* | 224457.40 | 224626.03 | 48 | | CB+,V P,V RBLC | -0429 | | 0A000418 |
| 47* | 224460.00 | 225346.07 | 01 | | LVI,V U,V Q | | -0430 | 0A000419 |
| 48* | 224460.40 | 224457.15 | 09 | | LVNI,V T2,V QEND | | -0431 | 0A000420 |
| 49* | 224461.00 | 777777.03 | 09 | | CB-,V P,V M1(V P) | | -0432 | 0A000421 |
| 50* | 224461.40 | 000000.12 | 33 | V REQ | LV,V Q4,V X(V U) | | -0433 | 0A000422 |

| LINE | LOCATIONN | BINARY | OUTPUT | NAME | STATEMENT | LOCATIONN | 224462 |
|------|-------------|-----------|--------|--------------|-----------------------------|-----------|----------------|
| 1* | 224462.00 | 224110.35 | 80 | | LVE,V Q3,V FWA | | -0434 DA000424 |
| 2* | 224462.40 | 000000.23 | 01 | | LVI,V T5,C | | -0435 DA000425 |
| 3* | 224463.00 | 224110.45 | 80 | | LVE,V Q1,V NREQ | | -0436 DA000426 |
| 4* | 224463.40 | 224105.04 | 80 | 224471.74 02 | BB,V VSCR.V UB,V SKIP | | -0437 DA000427 |
| 5* | 224464.40 | 215324.74 | 90 | | KV,V Q3,S PPLB | | -0438 DA000428 |
| 6* | 224465.00 | 224552.32 | 42 | | BXL,V BNDER | | -0439 DA000429 |
| 7* | 224465.40 | 215324.00 | 80 | 022027.20 50 | L(BU,18),S PPUB,46 | | -0440 DA000430 |
| 8* | 224466.40 * | 224110.00 | 80 | 022027.30 10 | -(BU,18),V FWA,46 | | -0441 DA000431 |
| 9* | 224467.40 | 740000.00 | 80 | 404027.21 00 | /I,V D15,46 | | -0442 DA000432 |
| 10* | 224470.40 | 000011.04 | 90 | | KV,V Q1,\$R | | -0443 DA000433 |
| 11* | 224471.00 | 224552.33 | 42 | | BXH,V BNDER | | -0444 DA000434 |
| 12* | 224471.40 | 224507.31 | 42 | | V SKIP BXVZ,V REQ1 | | -0445 DA000435 |
| 13* | 224472.00 | 000000.72 | 33 | | V REQ7 LV,V Q2,V X1(V U) | | -0446 DA000436 |
| 14* | 224472.40 | 224510.31 | 00 | | BZXVGZ,V REQ2 | | -0447 DA000437 |
| 15* | 224473.00 | 000022.14 | 30 | | LV,V T2,V Q1 | | -0448 DA000438 |
| 16* | 224473.40 | 000035.14 | 90 | | KV,V T2,V Q2 | | -0449 DA000439 |
| 17* | 224474.00 | 224475.33 | 40 | | BZXH,V REQ3 | | -0450 DA000440 |
| 18* | 224474.40 | 000035.14 | 30 | | LV,V T2,V Q2 | | -0451 DA000441 |
| 19* | 224475.00 | 224517.15 | 00 | | V REQ3 SVA,V T2,V REQ6 | | -0452 DA000442 |
| 20* | 224475.40 | 000026.22 | 80 | | V+,V T5,V T2 | | -0453 DA000443 |
| 21* | 224476.00 | 000025.16 | 30 | | LV,V T3,V Q4 | | -0454 DA000444 |
| 22* | 224476.40 | 000026.12 | 80 | | V+,V Q4,V T2 | | -0455 DA000445 |
| 23* | 224477.00 | 224500.30 | 02 | | BXVLZ,4.64 | | -0456 DA000446 |
| 24* | 224477.40 | 000042.13 | 00 | | V-I,V Q4,34. | | -0457 DA000447 |
| 25* | 224500.00 | 000000.00 | 81 | | SIC,(V P) | | DA000448 |
| 26* | 224500.40 | 224707.50 | 00 | | B,V MD | -0458 | DA000448 |
| 27* | 224501.00 | 000004.10 | 13 | | LX,V T1,V CWR(V U) | | -0459 DA000449 |
| 28* | 224501.40 | 000000.00 | 84 | 000000.10 2E | V REQ4 T,V T1,(V T1),(V Q3) | | -0460 DA000450 |
| 29* | 224502.40 * | 224517.51 | 50 | | SC,VT1,VREQ9 | | DA000451 |
| 30* | 224503.00 | 224517.74 | 80 | | V+,V Q3,V REQ9 | | -0462 DA000452 |
| 31* | 224503.40 | 000024.02 | 00 | | R,V T1 | | -0463 DA000453 |
| 32* | 224504.00 | 224501.63 | 42 | | BXF,V REQ4 | | -0464 DA000454 |
| 33* | 224504.40 | 224517.32 | 80 | | V+,V Q2,V REQ6 | | -0465 DA000455 |
| 34* | 224505.00 | 224517.04 | 80 | | V+,V Q1,V REQ6 | | -0466 DA000456 |
| 35* | 224505.40 | 224520.31 | 40 | | BZXVZ,V REQ10 | | -0467 DA000457 |
| 36* | 224506.00 | 000000.73 | 33 | | V REQ5 SV,V Q2,V X1(V U) | | -0468 DA000458 |
| 37* | 224506.40 | 000000.13 | 33 | | SV,V Q4,V X1(V U) | | -0469 DA000459 |
| 38* | 224507.00 | 000001.01 | 05 | | V REQ1 V+I,,1. | | -0470 DA000460 |
| 39* | 224507.40 | 000005.10 | 03 | | B,V NX(V U) | | -0471 DA000461 |
| 40* | 224510.00 | 224520.31 | 42 | | V REQ2 BXVZ,V REQ10 | | -0472 DA000462 |
| 41* | 224510.40 | 224107.62 | 80 | 224513.74 02 | BB,VVSCR+VPOP.18,RNMFIL | | DA000463 |
| 42* | 224511.40 | 224716.46 | 30 | | LV,VU,VRCXT | | DA000464 |
| 43* | 224512.00 | 000000.41 | 05 | | V+I,,0.32 | | DA000464 |
| 44* | 224512.40 | 000000.43 | 73 | | SR,\$1,VX1(VU) | | DA000465 |
| 45* | 224513.00 | 777777.03 | 09 | | CB-,VP,-1.0(VP) | | DA000465 |
| 46* | 224513.40 | 224515.41 | 00 | | RNMFIL SVA,,VREQ8 | | DA000466 |
| 47* | 224514.00 | 224517.05 | 00 | | SVA,V Q1,V REQ6 | | -0474 DA000467 |
| 48* | 224514.40 | 224110.45 | 80 | | LVE,V Q1,V NREQ | | -0475 DA000468 |
| 49* | 224515.00 | 224517.04 | 80 | | V+,V Q1,V REQ6 | | -0476 DA000469 |
| 50* | 224515.40 | 224515.45 | 00 | | V REQ8 SVA,V Q1,\$ | | -0477 DA000470 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 224516 | | |
|------|-----------|--------|------------|------|--------------------------|----------|-------------|-------|----------|
| 1* | 224516.00 | * | 000000.41 | 00 | V-I,,.V F | | | -0478 | 0A000472 |
| 2* | 224516.40 | | 224506.10 | 00 | B,V REQ5 | | | -0479 | 0A000473 |
| 3* | 224517.00 | | 000000.00 | 80 | V REQ6 | | | -0480 | 0A000474 |
| 4* | 224517.40 | | 000000.00+ | | V REQ9 | | | -0481 | 0A000475 |
| 5* | 224520.00 | | 000000.00 | 81 | V REQ10 | | | | 0A000476 |
| 6* | 224520.40 | | 224456.43 | 48 | CB+,V P,V NXT | | -0482 | | 0A000476 |
| 7* | 224521.00 | | 224716.46 | 30 | LV,V U,V RQEXT | | | -0483 | 0A000477 |
| 8* | 224521.40 | | 000000.13 | 33 | SV,V Q4,V X(V U) | | | -0484 | 0A000478 |
| 9* | 224522.00 | | 000000.00 | 81 | SIC,(V P) | | | | 0A000479 |
| 10* | 224522.40 | | 224671.50 | 00 | B,V SETX | | -0485 | | 0A000479 |
| 11* | 224523.00 | | 000000.12 | 33 | LV,V Q4,V X(V U) | | | -0486 | 0A000480 |
| 12* | 224523.40 | | 000000.23 | 01 | LVI,V T5,0 | | | -0487 | 0A000481 |
| 13* | 224524.00 | | 000000.55 | 33 | SV,V T2,V X1(V U) | | | -0488 | 0A000482 |
| 14* | 224524.40 | | 224472.31 | 40 | BZXVZ,V REQ7 | | | -0489 | 0A000483 |
| 15* | 224525.00 | | 224107.62 | 80 | BZB,VVSCR+VPOP.18,VRQ11A | | -011 | | 0A000484 |
| 16* | 224526.00 | | 000040.10 | 00 | B,D MCP | | | | 0A000485 |
| 17* | 224526.40 | | 000040.40 | 80 | ,D RIO | | -0491 | | 0A000485 |
| 18* | 224527.00 | | 000000.72 | 33 | V REQ11 | | | -0492 | 0A000486 |
| 19* | 224527.40 | | 224527.31 | 42 | BXVZ,V REQ11 | | | -0493 | 0A000487 |
| 20* | 224530.00 | | 000000.12 | 33 | LV,V Q4,V X(V U) | | | -0494 | 0A000488 |
| 21* | 224530.40 | | 000040.10 | 00 | B,D MCP | | | | 0A000489 |
| 22* | 224531.00 | | 000040.00 | 80 | ,D SID | | -0495 | | 0A000489 |
| 23* | 224531.40 | * | 224472.10 | 00 | B,V REQ7 | | | -0496 | 0A000490 |
| 24* | 224532.00 | | 000000.41 | 05 | V RQ11A | | | -0497 | 0A000491 |
| 25* | 224532.40 | | 777777.03 | 09 | CB-,V P,V M1(V P) | | | -0498 | 0A000492 |
| 26* | 224533.00 | | 225376.07 | 01 | V BECJ | | | -0499 | 0A000493 |
| 27* | 224533.40 | | 000000.00 | 81 | SIC,(V P) | | | | 0A000494 |
| 28* | 224534.00 | | 224600.43 | 48 | CB+,V P,V SEQJ | | -0500 | | 0A000494 |
| 29* | 224534.40 | | 224157.70 | 02 | BXVLZ,V NOP | | | -0501 | 0A000495 |
| 30* | 224535.00 | | 224536.51 | 01 | LVI,V T1,V NXB | | | -0502 | 0A000496 |
| 31* | 224535.40 | | 225255.11 | 00 | SVA,V T1,V NX+V SC | | | -0503 | 0A000497 |
| 32* | 224536.00 | | 777777.03 | 09 | CB-,V P,V M1(V P) | | | -0504 | 0A000498 |
| 33* | 224536.40 | | 224157.63 | 00 | V NXB | | | -0505 | 0A000499 |
| 34* | 224537.00 | | 224541.32 | 00 | BZXE,V NXB1 | | | -0506 | 0A000500 |
| 35* | 224537.40 | | 224451.51 | 01 | LVI,V T1,V EQ | | | -0507 | 0A000501 |
| 36* | 224540.00 | | 225255.11 | 00 | SVA,V T1,V NX+V SC | | | -0508 | 0A000502 |
| 37* | 224540.40 | | 777777.03 | 09 | CB-,V P,V M1(V P) | | | -0509 | 0A000503 |
| 38* | 224541.00 | | 000000.23 | 05 | V NXB1 | | | | 0A000504 |
| 39* | 224541.40 | | 224157.71 | 00 | BZXVGZ,V NOP | | | | 0A000505 |
| 40* | 224542.00 | | 225376.16 | 30 | LV,V T3,V X+V E | | | -0511 | 0A000506 |
| 41* | 224542.40 | | 000031.16 | 80 | V+,V T3,V T5 | | | -0512 | 0A000507 |
| 42* | 224543.00 | | 224544.30 | 02 | BXVLZ,\$.64 | | | -0513 | 0A000508 |
| 43* | 224543.40 | | 000042.17 | 00 | V-I,V T3,34. | | | -0514 | 0A000509 |
| 44* | 224544.00 | | 225376.17 | 30 | SV,V T3,V X+V E | | | -0515 | 0A000510 |
| 45* | 224544.40 | | 224233.50 | 00 | B,V RDQ | | | -0516 | 0A000511 |
| 46* | 224545.00 | * | 225346.07 | 01 | V CECJ | | | -0517 | 0A000512 |
| 47* | 224545.40 | | 000000.00 | 81 | SIC,(V P) | | | | 0A000513 |
| 48* | 224546.00 | | 224600.43 | 48 | CB+,V P,V SEQJ | | -0518 | | 0A000513 |
| 49* | 224546.40 | | 224157.70 | 02 | BXVLZ,V NOP | | | -0519 | 0A000514 |
| 50* | 224547.00 | | 225331.07 | 01 | LVI,V U,V RT | | -OVERLAPPED | -0520 | 0A000515 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 224547 |
|------|-----------|-----------|--------|--------------|---|------------------------------------|----------------|
| 1* | 224547.40 | C00000.54 | 33 | | LV,V T2,V X1(V U) | | -0521 0A000517 |
| 2* | 224550.00 | C00000.31 | 42 | | BXVZ,0 | | -0522 0A000518 |
| 3* | 224550.40 | 224566.42 | 60 | | LWF(U),V REX | -CHANGE NORMAL FIXUPS FOR ECJ SCAN | -0523 0A000519 |
| 4* | 224551.00 | 225330.40 | E0 | | ST(U),V RT-1. | | -0524 0A000520 |
| 5* | 224551.40 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0525 0A000521 |
| 6* | 224552.00 | C00040.10 | C0 | VBNDER | B,DMCP | | 0A000522 |
| 7* | 224552.40 | C00040.40 | 80 | | ,DRIO | | 0A000522 |
| 8* | 224553.00 | 224052.00 | 80 | | SIC,ZSPLP9 | | 0A000523 |
| 9* | 224553.40 | 224046.50 | 00 | | B,ZSPLPR | | 0A000523 |
| 10* | 224554.00 | 224557.00 | 80 | | ,V BNDMG | | 0A000524 |
| 11* | 224554.40 | C00007.00 | 80 | | ,7. | | -0527 0A000524 |
| 12* | 224555.00 | 215571.00 | 80 | | SIC,S PRIMR | | 0A000525 |
| 13* | 224555.40 | 215570.10 | 00 | | B,S PRIME | -0528 | 0A000525 |
| 14* | 224556.00 | 000104.00 | 80 | | ,D ABEOJ | | -0529 0A000526 |
| 15* | 224556.40 | 224157.40 | 00 | | BE,V NOP | | -0530 0A000527 |
| 16* | | | | | CNOP, | | 0A000528 |
| 17* | 224557.00 | * | | V BNDMG | (A*)DC(BU,8),1JOB TERMINATED- \$SCR REQUEST EXCEEDED B* | | -0531 0A000529 |
| 18* | 224564.00 | | | | (A*)DC(BU,8),CUNDARIES * | | -0532 0A000530 |
| 19* | | | | | CNOP, | | -0533 0A000531 |
| 20* | 224566.00 | 224570.10 | 00 | V REX | B,V SREC | | 0A000532 |
| 21* | 224566.40 | 224572.50 | 00 | | B,V SRE | -0534 | 0A000532 |
| 22* | 224567.00 | 224647.10 | 00 | V REX1 | B,V REOP | | 0A000533 |
| 23* | 224567.40 | 224407.10 | 00 | | B,V REE | -0535 | 0A000533 |
| 24* | 224570.00 | 225427.02 | 10 | V SREC | LX,V P,V PD | | -0536 0A000534 |
| 25* | 224570.40 | C00040.10 | 00 | | B,D MCP | | 0A000535 |
| 26* | 224571.00 | C00006.40 | 80 | | ,D SPFL | -0537 | 0A000535 |
| 27* | 224571.40 | 000006.01 | B3 | | LVE,,V SU(V U) | | -0538 0A000536 |
| 28* | 224572.00 | 777777.03 | C9 | | CB-,V P,V M1(V P) | | -0539 0A000537 |
| 29* | 224572.40 | 225427.02 | 10 | V SRE | LX,V P,V PD | | -0540 0A000538 |
| 30* | 224573.00 | 224567.42 | 60 | | LWF(U),V REX1 | -RESTORE NORMAL FIXUPS | -0541 0A000539 |
| 31* | 224573.40 | 225330.40 | E0 | | ST(U),V RT-1. | | -0542 0A000540 |
| 32* | 224574.00 | C00007.03 | 73 | | SR,V P,V RCNT(V U) | | -0543 0A000541 |
| 33* | 224574.40 | C00007.40 | 83 | 022000.22 B0 | M+1(BU,18),V FCNT(V U) | | -0544 0A000542 |
| 34* | 224575.40 | 000011.16 | 53 | | LC,V T3,V FCNX(V U) | | -0545 0A000543 |
| 35* | 224576.00 | 224577.56 | 48 | | CR,V T3,V SPE2 | | -0546 0A000544 |
| 36* | 224576.40 | 224371.00 | 80 | 031100.02 B0 | M+1,V TSG | | -0547 0A000545 |
| 37* | 224577.40 | 000011.17 | 53 | V SPE2 | SC,V T3,V FCNX(V U) | | -0548 0A000546 |
| 38* | 224600.00 | 224422.10 | 00 | | B,V RTIC1 | | -0549 0A000547 |
| 39* | 224600.40 | C00000.54 | 33 | V SECJ | LV,V T2,V X1(V U) | | -0550 0A000548 |
| 40* | 224601.00 | 224613.30 | C2 | | BXVLZ,V EOJ1 | | -0551 0A000549 |
| 41* | 224601.40 | C00000.00 | 81 | | SIC,(V P) | | 0A000550 |
| 42* | 224602.00 | 224671.50 | 00 | | B,V SETX | -0552 | 0A000550 |
| 43* | 224602.40 | C00000.15 | 05 | | V+I,V T2,C | | -0553 0A000551 |
| 44* | 224603.00 | 224605.31 | C0 | | BZXVGZ,V EOJ2 | | -0554 0A000552 |
| 45* | 224603.40 | C00000.54 | B3 | | V+,V T2,V X1(V U) | | -0555 0A000553 |
| 46* | 224604.00 | C00000.55 | 33 | | SV,V T2,V X1(V U) | | -0556 0A000554 |
| 47* | 224604.40 | 224671.50 | 00 | | B,V SETX | | -0557 0A000555 |
| 48* | 224605.00 | C00000.62 | 33 | V ECJ2 | LV,V T5,V X1(V U) | | -0558 0A000556 |
| 49* | 224605.40 | 000000.22 | B3 | | V+,V T5,V X(V U) | | -0559 0A000557 |
| 50* | 224606.00 | 224607.30 | C2 | | BXVLZ,\$.64 | | -0560 0A000558 |
| 51* | 224606.40 | C00042.23 | 0D | | V-I,V T5,34. | | -0561 0A000559 |
| 52* | 224607.00 | C00000.23 | 33 | | SV,V T5,V X(V U) | | -0562 0A000560 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 224607 |
|------|-------------|-----------|--------|-----------------|-----------------------------|----------|----------------|
| 1* | 224607.40 * | 000000.62 | 33 | | LV,V T5,V X1(V U) | | -0563 CA000562 |
| 2* | 224610.00 | 000000.55 | 33 | | SV,V T2,V X1(V U) | | -0564 CA000563 |
| 3* | 224610.40 | 224612.07 | D0 | | SVA,V U,V EOJ4 | | -0565 CA000564 |
| 4* | 224611.00 | 000000.00 | 81 | | SIC,(V P) | | CA000565 |
| 5* | 224611.40 | 224456.43 | 48 | | CB+,V P,V NXT | -0566 | CA000565 |
| 6* | 224612.00 | 000000.07 | 01 | V EOJ4 | LVI,V U, | | -0567 CA000566 |
| 7* | 224612.40 | 000000.54 | 33 | | LV,V T2,V X1(V U) | | -0568 CA000567 |
| 8* | 224613.00 | 000000.43 | 73 | V EOJ1 | SR,V P,V X1(V U) | | -0569 CA000568 |
| 9* | 224613.40 | 000001.03 | 0D | | V-I,V P,1. | | -0570 CA000569 |
| 10* | 224614.00 | 000000.15 | 05 | | V+I,V T2,C | | -0571 CA000570 |
| 11* | 224614.40 | 000000.10 | 01 | | B,(V P) | | -0572 CA000571 |
| 12* | 224615.00 | 000000.00 | 81 | V TEE | SIC,(V P) | | CA000572 |
| 13* | 224615.40 | 224633.50 | 00 | | B,V EE | -0573 | CA000572 |
| 14* | 224616.00 | 224624.55 | 30 | | SV,V T2,V TEE1 | | -0574 CA000573 |
| 15* | 224616.40 | 000007.20 | 33 | | LV,V T4,V RCNT(V U) | | -0575 CA000574 |
| 16* | 224617.00 | 000001.21 | 0D | | V-I,V T4,1.0 | | -0576 CA000575 |
| 17* | 224617.40 | 000031.20 | 80 | | V+,V T4,V T5 | | -0577 CA000576 |
| 18* | 224620.00 | 224625.31 | 42 | | BXVZ,V STTSX | | -0578 CA000577 |
| 19* | 224620.40 | 000000.14 | 83 | | V+,V T2,V X(V U) | | -0579 CA000578 |
| 20* | 224621.00 | 000000.15 | 33 | | SV,V T2,V X(V U) | | -0580 CA000579 |
| 21* | 224621.40 | 000007.03 | 73 | | SR,V P,V RCNT(V U) | | -0581 CA000580 |
| 22* | 224622.00 | 000007.40 | 83 | 022000.22 B0 | M+1(BU,18),V FCNT(V U) | | -0582 CA000581 |
| 23* | 224623.00 * | 000000.00 | 81 | | SIC,(V P) | | CA000582 |
| 24* | 224623.40 | 224655.03 | 48 | | CB+,V P,V ACT | -0583 | CA000582 |
| 25* | 224624.00 | 000005.10 | 03 | | B,V NX(V U) | | -0584 CA000583 |
| 26* | 224624.40 | 000000.00 | 00 | V TEE1 | BE,0 | | -0585 CA000584 |
| 27* | 224625.00 | 000010.62 | 33 | V STTSX | LV,V T5,V TS(V U) | | -0586 CA000585 |
| 28* | 224625.40 | 224456.43 | 08 | | CB-,V P,V NXT | | -0587 CA000586 |
| 29* | 224626.00 | 000002.16 | 13 | V RBLC | LX,V T3,V X2R(V U) | | -0588 CA000587 |
| 30* | 224626.40 | 000000.14 | 37 | | LV,V T2,(V T3) | | -0589 CA000588 |
| 31* | 224627.00 | 000000.03 | 77 | | SR,V P,(V T3) | | -0590 CA000589 |
| 32* | 224627.40 | 000000.57 | 07 | | V+ICR,V T3,.V H | | -0591 CA000590 |
| 33* | 224630.00 | 000002.17 | 13 | | SX,V T3,V X2R(V U) | | -0592 CA000591 |
| 34* | 224630.40 | 000026.22 | 30 | | LV,V T5,V T2 | | -0593 CA000592 |
| 35* | 224631.00 | 000000.14 | 83 | | V+,V T2,V X(V U) | | -0594 CA000593 |
| 36* | 224631.40 | 224632.71 | 40 | | BZXVZ,\$.64 | | -0595 CA000594 |
| 37* | 224632.00 | 000042.15 | 0D | | V-I,V T2,34. | | -0596 CA000595 |
| 38* | 224632.40 | 000000.15 | 33 | | SV,V T2,V X(V U) | | -0597 CA000596 |
| 39* | 224633.00 | 000005.10 | 03 | | B,V NX(V U) | | -0598 CA000597 |
| 40* | 000000.00+ | +00000017 | | BU,04 ,10 V D15 | DDI(BU,4),15 | | -0599 CA000598 |
| 41* | 224633.40 | 000040.10 | 00 | V EE | B,D MCP | | CA000599 |
| 42* | 224634.00 | 000002.00 | 80 | | ,D CCW | -0600 | CA000599 |
| 43* | 224634.40 | 000006.01 | 83 | | LVE,,V SU(V U) | | -0601 CA000600 |
| 44* | 224635.00 | 224646.00 | 80 | | ,V EE1 | | -0602 CA000601 |
| 45* | 224635.40 | 224646.00 | 80 | 022027.20 50 | L(BU,18),V EE1,46 | | -0603 CA000602 |
| 46* | 224636.40 * | 000003.00 | 83 | 022027.30 10 | -(BU,18),V CWR+V M1(V U),46 | | -0604 CA000603 |
| 47* | 224637.40 | 740000.00 | 80 | 404027.21 00 | /I,V D15,46 | | -0605 CA000604 |
| 48* | 224640.40 | 000011.22 | 30 | | LV,V T5,\$R | | -0606 CA000605 |
| 49* | 224641.00 | 000042.23 | 0D | | V-I,V T5,34. | | -0607 CA000606 |
| 50* | 224641.40 | 000000.15 | 83 | | LVE,V T2,V X(V U) | | -0608 CA000607 |

| LINE | LOCATIONN | BINARY OUTPUT | NAME | STATEMENT | LOCATIONN | 224642 |
|------|-------------|------------------------------|---------|--------------------|-----------|----------|
| 1* | 224642.00 | 000000.23 33 | | SV,V T5,V X(V U) | -0609 | 0A000609 |
| 2* | 224642.40 | 000026.22 B0 | | V+,V T5,V T2 | -0610 | 0A000610 |
| 3* | 224643.00 | 224644.30 C0 | | BZXVLZ,\$.64 | -0611 | 0A000611 |
| 4* | 224643.40 | 000042.23 05 | | V+I,V T5,34. | -0612 | 0A000612 |
| 5* | 224644.00 | 000000.54 33 | | LV,V T2,V X1(V U) | -0613 | 0A000613 |
| 6* | 224644.40 | 224517.23 D0 | | SVA,V T5,V REQ6 | -0614 | 0A000614 |
| 7* | 224645.00 | 224517.14 B0 | | V+,V T2,V REQ6 | -0615 | 0A000615 |
| 8* | 224645.40 | 000000.10 01 | | B,(V P) | -0616 | 0A000616 |
| 9* | 224646.00 | 000000.00+ 000 000000 000000 | V EE1 | CW,C,0,C | -0617 | 0A000617 |
| 10* | 224647.00 | 225427.02 10 | VREQP | LX,VP,VPD | | 0A000618 |
| 11* | 224647.40 | 000000.62 33 | V ECP | LV,V T5,V X1(V U) | -0618 | 0A000619 |
| 12* | 224650.00 | 000000.16 33 | | LV,V T3,V X(V U) | -0619 | 0A000620 |
| 13* | 224650.40 | 000031.16 B0 | | V+,V T3,V T5 | -0620 | 0A000621 |
| 14* | 224651.00 | 000000.17 33 | | SV,V T3,V X(V U) | -0621 | 0A000622 |
| 15* | 224651.40 | 000000.00 81 | | SIC,(V P) | | 0A000623 |
| 16* | 224652.00 * | 224655.03 48 | | CB+,V P,V ACT | -0622 | 0A000623 |
| 17* | 224652.40 | 000005.10 03 | | B,V NX(V U) | -0623 | 0A000624 |
| 18* | 224653.00 | 000000.00 81 | V ACTX | SIC,(V P) | | 0A000625 |
| 19* | 224653.40 | 224670.50 00 | | B,V SETUP | -0624 | 0A000625 |
| 20* | 224654.00 | 224656.31 40 | | BZXVZ,V ACT2 | -0625 | 0A000626 |
| 21* | 224654.40 | 777777.03 C9 | V ACT1 | CB-,V P,V M1(V P) | -0626 | 0A000627 |
| 22* | 224655.00 | 000000.00 81 | V ACT | SIC,(V P) | | 0A000628 |
| 23* | 224655.40 | 224671.50 00 | | B,V SETX | -0627 | 0A000628 |
| 24* | 224656.00 | 000000.55 33 | V ACT2 | SV,V T2,V X1(V U) | -0628 | 0A000629 |
| 25* | 224656.40 | 224654.71 42 | | BXVZ,V ACT1 | -0629 | 0A000630 |
| 26* | 224657.00 | 000000.16 33 | | LV,V T3,V X(V U) | -0630 | 0A000631 |
| 27* | 224657.40 | 224660.70 C2 | | BXVLZ,\$.64 | -0631 | 0A000632 |
| 28* | 224660.00 | 000042.17 00 | | V-I,V T3,34. | -0632 | 0A000633 |
| 29* | 224660.40 | 000000.17 33 | | SV,V T3,V X(V U) | -0633 | 0A000634 |
| 30* | 224661.00 | 000005.50 C3 | | B,V IC(V U) | -0634 | 0A000635 |
| 31* | 224661.40 | 000006.62 B3 | V BLOC | V+,V T5,V RQB(V U) | -0635 | 0A000636 |
| 32* | 224662.00 | 000021.23 04 | V BLC2 | KVI,V T5,17.0 | -0636 | 0A000637 |
| 33* | 224662.40 | 224667.72 42 | | BXL,V BLC1 | -0637 | 0A000638 |
| 34* | 224663.00 | 000021.23 00 | | V-I,V T5,17.0 | -0638 | 0A000639 |
| 35* | 224663.40 | 000021.21 01 | | LVI,V T4,17.0 | -0639 | 0A000640 |
| 36* | 224664.00 | 000001.16 13 | | LX,V T3,V X2S(V U) | -0640 | 0A000641 |
| 37* | 224664.40 | 000000.21 37 | | SV,V T4,(V T3) | -0641 | 0A000642 |
| 38* | 224665.00 | 000000.57 07 | | V+ICR,V T3,.V H | -0642 | 0A000643 |
| 39* | 224665.40 * | 000001.17 13 | | SX,V T3,V X2S(V U) | -0643 | 0A000644 |
| 40* | 224666.00 | 000000.00 81 | | SIC,(V P) | | 0A000645 |
| 41* | 224666.40 | 224653.03 48 | | CB+,V P,V ACTX | -0644 | 0A000645 |
| 42* | 224667.00 | 224662.10 C0 | | B,V BLC2 | -0645 | 0A000646 |
| 43* | 224667.40 | 000006.63 33 | V BLC1 | SV,V T5,V RQB(V U) | -0646 | 0A000647 |
| 44* | 224670.00 | 777777.03 C9 | | CB-,V P,V M1(V P) | -0647 | 0A000648 |
| 45* | 224670.40 | 000000.54 33 | V SETUP | LV,V T2,V X1(V U) | -0649 | 0A000649 |
| 46* | 224671.00 | 224701.31 40 | | BZXVZ,V SET2 | -0650 | 0A000650 |
| 47* | 224671.40 | 000002.16 13 | V SETX | LX,V T3,V X2R(V U) | -0651 | 0A000651 |
| 48* | 224672.00 | 000000.14 37 | | LV,V T2,(V T3) | -0652 | 0A000652 |
| 49* | 224672.40 | 224700.31 C2 | | BXVGZ,V SET1 | -0653 | 0A000653 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 224673 |
|------|-------------|---------------|--------------|--------------------------|----------|-----------------|
| 1* | 224673.00 | 000000.57 07 | | V+ICR,V T3,V F | | -0654 OA000655 |
| 2* | 224673.40 | 000000.14 37 | | LV,V T2,(V T3) | | -0655 OA000656 |
| 3* | 224674.00 | 224677.71 C2 | | BXVGZ,V SET3 | | -0656 OA000657 |
| 4* | 224674.40 | 000000.31 43 | | BXVZ,(V P) | | -0657 OA000658 |
| 5* | 224675.00 | 000000.03 77 | | SR,V P,(V T3) | | -0658 OA000659 |
| 6* | 224675.40 | 000000.57 07 | | V+ICR,V T3,V F | | -0659 OA000660 |
| 7* | 224676.00 | 000001.15 D1 | | SVA,V T2,1.(V P) | | -0660 OA000661 |
| 8* | 224676.40 | 000002.17 13 | | SX,V T3,V X2R(V U) | | -0661 OA000662 |
| 9* | 224677.00 | 000001.03 49 | | CB+,V P,1.(V P) | | -0662 OA000663 |
| 10* | 224677.40 | 000002.17 13 | V SET3 | SX,V T3,V X2R(V U) | | -0663 OA000664 |
| 11* | 224700.00 | 000000.03 77 | V SET1 | SR,V P,(V T3) | | -0664 OA000665 |
| 12* | 224700.40 | 000000.10 C1 | | B,(V P) | | -0665 OA000666 |
| 13* | 224701.00 * | 000000.15 01 | V SET2 | LVI,V T2,0 | | -0666 OA000667 |
| 14* | 224701.40 | 000000.10 01 | | B,(V P) | | -0667 OA000668 |
| 15* | 224702.00 | 000001.16 13 | V CCM | LX,V T3,V X2S(V U) | | -0668 OA000669 |
| 16* | 224702.40 | 000000.23 C5 | | V+I,V T5,0 | | -0669 OA000670 |
| 17* | 224703.00 | 224705.30 C2 | | BXVLZ,V CCM2 | | -0670 OA000671 |
| 18* | 224703.40 | 000000.22 B7 | | V+,V T5,(V T3) | | -0671 OA000672 |
| 19* | 224704.00 | 000000.23 37 | | SV,V T5,(V T3) | | -0672 OA000673 |
| 20* | 224704.40 | 000000.10 C1 | | B,(V P) | | -0673 OA000674 |
| 21* | 224705.00 | 000000.57 07 | V CCM2 | V+ICR,V T3,.V F | | -0674 OA000675 |
| 22* | 224705.40 | 000000.23 37 | | SV,VT5,(VT3) | | OA000676 |
| 23* | 224706.00 | 000000.57 07 | | V+ICR,V T3,.V H | | -0676 OA000677 |
| 24* | 224706.40 | 000001.17 13 | | SX,V T3,V X2S(V U) | | -0677 OA000678 |
| 25* | 224707.00 | 000000.10 01 | | B,(V P) | | -0678 OA000679 |
| 26* | 224707.40 | 000003.10 13 | V MD | LX,V T1,V CWR+V M1(V U) | | -0679 OA000680 |
| 27* | 224710.00 | 225505.50 87 | | V+,V T1,V CW(V T3) | | -0680 OA000681 |
| 28* | 224710.40 | 225506.14 97 | | KV,V T2,V MT(V T3) | | -0681 OA000682 |
| 29* | 224711.00 | 224712.73 40 | | BZXH,V MD1 | | -0682 OA000683 |
| 30* | 224711.40 | 006000.21 0B | | LVS,V T4,V T2,V T3 | | -0683 OA000684 |
| 31* | 224712.00 | 225506.14 37 | | LV,V T2,V MT(V T3) | | -0684 OA000685 |
| 32* | 224712.40 | 225443.50 56 | V MD1 | LC,V T1,V CW-34.(V T2) | | -0685 OA000686 |
| 33* | 224713.00 | 000004.11 13 | | SX,V T1,V CWR(V U) | | -0686 OA000687 |
| 34* | 224713.40 | 000000.33 41 | | BZXH,(V P) | | -0687 OA000688 |
| 35* | 224714.00 | 000003.10 13 | | LX,V T1,V CWR+V M1(V U) | | -0688 OA000689 |
| 36* | 224714.40 * | 225443.50 58 | | LC,V T1,V CW-34.(V T4) | | -0689 OA000690 |
| 37* | 224715.00 | 000003.11 13 | | SX,V T1,V CWR+V M1(V U) | | -0690 OA000691 |
| 38* | 224715.40 | 000004.31 83 | 000000.34 0D | BZB1,V CWR.25(V U),(V P) | | -0691 OA000692 |
| 39* | 224716.40 | 225376.00+ | V RQEXT | VF,V E | | -0692 OA000693 |
| 40* | 224717.00 | 224333.23 C9 | V INON | LVNI,V T5,V WFT | | -0693 OA000694 |
| 41* | 224717.40 | 224265.50 00 | V INOFF | B,V SC5A | | -0694 OA000695 |
| 42* | 224720.00 | 224157.63 09 | V INBY | LVNI,V T5,V NCP | | -0695 OA000696 |
| 43* | 224720.40 | 224246.10 C0 | V IN1 | B,V SC7 | | -0696 OA000697 |
| 44* | 224721.00 | 224322.00 80 | V IN2 | SIC,V SQ1 | | -0697+ OA000698 |
| 45* | 224721.40 | 000007.54 33 | V WTTS | LV,V T2,V FCNT(V U) | - | -0698 OA000699 |
| 46* | 224722.00 | 231133.00 80 | | SIC,YISTR | | OA000700 |
| 47* | 224722.40 | 231117.10 C0 | | B,YTST | | OA000700 |
| 48* | 224723.00 | 224371.00 80 | 031100.12 BC | M-1,V T5Q | | OA000701 |
| 49* | 224724.00 | 000002.15 0D | | V-I,V T2,V FCD | | OA000702 |
| 50* | 224724.40 | 224725.71 C2 | | BXVGZ,V WTTS1 | - | -0700 OA000703 |
| 51* | 224725.00 | 000001.15 C1 | | LVI,V T2,1. | - | -0701 OA000704 |
| 52* | 224725.40 | 000026.10 50 | V WTTS1 | LC,V T1,V T2 | - | -0702 OA000705 |
| 53* | 224726.00 | 225210.07 C1 | | LVI,V U,V TSA | - | -0703 OA000706 |
| 54* | 224726.40 | 224735.10 00 | | B,V TOP | - | -0704 OA000707 |
| 55* | 224727.00 | 225312.07 C1 | VSTTS | LVI,VU,VST | | OA000708 |
| 56* | 224727.40 | 000000.00 81 | | SIC,(V P) | | OA000709 |

| LINE | LOCATIONN | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 224730 | |
|------|-------------|-----------|--------|--------------|----------------------------------|-----------------------|--------|----------|
| 1* | 224730.00 * | 224721.43 | 48 | | CB+,V P,V WTTS | -0706 | | 0A000709 |
| 2* | 224730.40 | 225250.07 | 01 | | LVI,V U,V SC | | -0707 | 0A000710 |
| 3* | 224731.00 | 000001.03 | 0D | V STTS1 | V-I,V P,1. | | -0708 | 0A000711 |
| 4* | 224731.40 | 000000.15 | 01 | | LVI,V T2,C | | -0709 | 0A000712 |
| 5* | 224732.00 | 000000.10 | 01 | | B,(V P) | | -0710 | 0A000713 |
| 6* | 224732.40 | 225221.07 | 01 | V RTTS | LVI,V U,V TSB | | -0711 | 0A000714 |
| 7* | 224733.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000715 |
| 8* | 224733.40 | 224735.03 | 48 | | CB+,V P,V TOP | -0712 | | 0A000715 |
| 9* | 224734.00 | 225346.07 | 01 | | LVI,V U,V Q | | | 0A000716 |
| 10* | 224734.40 | 224731.10 | 00 | | B,V STTS1 | | -0714 | 0A000717 |
| 11* | 224735.00 | 000000.62 | 33 | V TOP | LV,V T5,V X1(V U) | -TAPE OPERATE | -0715 | 0A000718 |
| 12* | 224735.40 | 000003.00 | 83 | 001000.20 50 | L,V OP(V U) | | -0716 | 0A000719 |
| 13* | 224736.40 | 000024.31 | 80 | 001000.20 D0 | ST,V T1.V OPB | | -0717* | 0A000720 |
| 14* | 224737.40 | 000003.01 | 83 | 224744.34 00 | BZB,V SQNC(V U),V TCP1 | | -0718 | 0A000721 |
| 15* | 224740.40 | 000000.11 | 01 | | LVI,V T1,C | | -0719 | 0A000722 |
| 16* | 224741.00 | 000006.20 | 33 | | LV,V T4,V TQ(V U) | | -0720 | 0A000723 |
| 17* | 224741.40 | 224743.31 | 42 | | BXVZ,V TCP2 | | -0721 | 0A000724 |
| 18* | 224742.00 | 225201.23 | 38 | | SV,V T5,V SURT(V T4) | | -0722 | 0A000725 |
| 19* | 224742.40 | 224744.10 | 00 | | B,V TCP1 | | -0723 | 0A000726 |
| 20* | 224743.00 | 000006.23 | 33 | | V TOP2 SV,V T5,V TQ(V U) | | -0724 | 0A000727 |
| 21* | 224743.40 * | 000006.63 | 33 | | SV,V T5,V TQ(V U) | | | 0A000728 |
| 22* | 224744.00 | 000000.00 | 81 | V TCP1 | SIC,(V P) | | | 0A000729 |
| 23* | 224744.40 | 224745.50 | 00 | | B,V TMV | -0725* | | 0A000729 |
| 24* | 224745.00 | 224655.10 | 00 | | B,V ACT | | -0726 | 0A000730 |
| 25* | 224745.40 | 000023.10 | 70 | V TMV | LR,V T1,V U | -TAPE MOTIVATION | -0727 | 0A000731 |
| 26* | 224746.00 | 225201.11 | 19 | | SX,V T1,V SURT(V T5) | | -0728 | 0A000732 |
| 27* | 224746.40 | 225201.32 | 89 | 001000.00 FC | CMOC00,V SURT.V RDY(V T5) | | -0729 | 0A000733 |
| 28* | 224747.40 | 224752.23 | 42 | | BXF,V TMV1 | | -0730 | 0A000734 |
| 29* | 224750.00 | 000040.10 | 00 | | B,\$MCP | | | 0A000735 |
| 30* | 224750.40 | 000010.00 | 80 | | ,\$REW | -0731 | | 0A000735 |
| 31* | 224751.00 | 000000.00 | 89 | | ,(V T5) | | -0732 | 0A000736 |
| 32* | 224751.40 | 000000.10 | 01 | | B,(V P) | | -0733* | 0A000737 |
| 33* | 224752.00 | 000040.10 | 00 | V TMV1 | B,\$MCP | | | 0A000738 |
| 34* | 224752.40 | 000010.40 | 80 | | ,\$DUNLD | -0734 | | 0A000738 |
| 35* | 224753.00 | 000000.00 | 89 | | ,(V T5) | | -0735 | 0A000739 |
| 36* | 224753.40 | 000000.10 | 01 | | B,(V P) | | -0736* | 0A000740 |
| 37* | 224754.00 | 225201.10 | 16 | V TA | LX,V T1,V SURT(V T2) | | -0737 | 0A000741 |
| 38* | 224754.40 | 000023.11 | 70 | | SR,V T1,V U | -PUT DS IN U | -0738 | 0A000742 |
| 39* | 224755.00 | 000006.15 | 33 | | SV,V T2,V SU(V U) | -SEND SU TO DESTINATI | -0739 | 0A000743 |
| 40* | 224755.40 | 224135.20 | 36 | | LV,V T4,V XG(V T2) | | -0740 | 0A000744 |
| 41* | 224756.00 | 777777.47 | 38 | | SV,V U,V XXRG(V T4) | | -0741 | 0A000745 |
| 42* | 224756.40 | 000007.22 | 03 | | Z,V RCNT(V U) | | -0742 | 0A000746 |
| 43* | 224757.00 * | 000010.10 | 03 | | B,V STR(V U) | -START UNIT AT DESTIN | -0743 | 0A000747 |
| 44* | 224757.40 | 225201.32 | 89 | 001000.36 FO | V TDSP CM1111,V SURT.V RDY(V T5) | | -0744 | 0A000748 |
| 45* | 224760.40 | 225427.02 | 10 | | LX,V P,V PD | | -0745 | 0A000749 |
| 46* | 224761.00 | 225201.10 | 19 | | LX,V T1,V SURT(V T5) | | -0746 | 0A000750 |
| 47* | 224761.40 | 000023.11 | 70 | | SR,V T1,V U | | -0747 | 0A000751 |
| 48* | 224762.00 | 000003.50 | 73 | | LR,V T1,V DS(V U) | | -0748 | 0A000752 |
| 49* | 224762.40 | 225201.11 | 19 | | SX,V T1,V SURT(V T5) | | -0749 | 0A000753 |
| 50* | 224763.00 | 000003.01 | 83 | 224772.74 CC | BZB,V SQNC(V U),V TCP1 | | -0750 | 0A000754 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 224764 |
|------|-------------|---------------|--------------|------------------------------|----------|-------------------------------------|
| 1* | 224764.00 | 000006.62 33 | V TDP3 | LV,V T5,V TDQ(V U) | - | -0751 OA000756 |
| 2* | 224764.40 | 224771.71 42 | | BXVZ,V TDP2 | - | -0752 OA000757 |
| 3* | 224765.00 | 225201.32 89 | 224157.74 00 | BZB,V SURT.V RDY(V T5),V NOP | - | -0753 OA000758 |
| 4* | 224766.00 | 225201.14 39 | | LV,V T2,V SURT(V T5) | - | -0754 CAG00759 |
| 5* | 224766.40 | 000006.55 33 | | SV,V T2,V TDQ(V U) | - | -0755 OA000760 |
| 6* | 224767.00 | 224770.47 00 | | SVA,V U,V TDP4 | - | -0756 CA000761 |
| 7* | 224767.40 | 000000.00 81 | | SIC,(V P) | | OA000762 |
| 8* | 224770.00 | 224456.43 48 | | CB+,V P,V NXT | - | -0757 OA000762 |
| 9* | 224770.40 | 000000.07 01 | V TDP4 | LVI,V U, | - | -0758 OA000763 |
| 10* | 224771.00 | 224764.10 00 | | B,V TDP3 | - | -0759 OA000764 |
| 11* | 224771.40 | 000006.03 73 | V TDP2 | SR,V P,V TQ(V U) | - | -0760 OA000765 |
| 12* | 224772.00 | 777777.03 09 | | CB-,V P,V M1(V P) | - | -0761 OA000766 |
| 13* | 224772.40 * | 224456.63 42 | V TDP1 | BXF,V NXT | - | -0762* OA000767 |
| 14* | 224773.00 | 000003.50 33 | | LV,V T1,V DS(V U) | - | -0763* OA000768 |
| 15* | 224773.40 | 225312.11 04 | | KVI,V T1,V ST | | OA000769 |
| 16* | 224774.00 | 224456.72 00 | | BZXE,V NXT | - | -0765 OA000770 |
| 17* | 224774.40 | 225221.07 01 | | LVI,V U,V TSB | - | -0766 CA000771 |
| 18* | 224775.00 | 225201.31 89 | 001000.36 FC | CM1111,V SURT.V OPB(V T5) | - | -0767 OA000772 |
| 19* | 224776.00 | 225201.10 19 | | LX,V T1,V SURT(V T5) | - | -0768 OA000773 |
| 20* | 224776.40 | 224745.43 08 | | CB-,V P,V TMV | | OA000774 |
| 21* | 224777.00 | 225210.07 01 | V TSAQ | LVI,V U,V TSA | - | -0770 OA000775 |
| 22* | 224777.40 | 000001.16 13 | V TSAQ1 | LX,V T3,V X2S(V U) | - | -0771 OA000776 |
| 23* | 225000.00 | 000000.57 07 | | V+ICR,V T3,V F | | OA000777 |
| 24* | 225000.40 | 000000.23 37 | | SV,V T5,(V T3) | | CA000778 |
| 25* | 225001.00 | 000001.17 13 | | SX,V T3,V X2S(V U) | | OA000779 |
| 26* | 225001.40 | 224653.10 00 | | B,V ACTX | - | -0773 OA000780 |
| 27* | 225002.00 | 225221.07 01 | V TSBQ | LVI,V U,V TSB | - | -0774 OA000781 |
| 28* | 225002.40 | 224777.50 00 | | B,V TSAQ1 | - | -0775 OA000782 |
| 29* | 225003.00 | 225331.07 01 | V RTST | LVI,V U,V RT | - | -ENTERED WITH SURT IN-0776 OA000783 |
| 30* | 225003.40 | 000011.11 53 | | SC,V T1,V FCNX(V U) | - | -AND SU IN T2 -0777 OA000784 |
| 31* | 225004.00 | 000040.10 00 | | B,DMCP | | OA000785 |
| 32* | 225004.40 | 000015.00 80 | | ,DICDEF | | OA000785 |
| 33* | 225005.00 | 225221.41 80 | | LVE,,VX1+VTSB | | OA000785 |
| 34* | 225005.40 | 225430.00 80 | | ,RTSMMSG | | OA000785 |
| 35* | 225006.00 * | 000040.10 00 | | B,DMCP | | OA000786 |
| 36* | 225006.40 | 000043.40 80 | | ,DCCMM | | OA000786 |
| 37* | 225007.00 | 225430.00 80 | | ,RTSMMSG | | OA000786 |
| 38* | 225007.40 | 000004.00 80 | | ,4.0 | | OA000786 |
| 39* | 225010.00 | 224422.10 00 | | B,V RTIG1 | - | -0778 OA000787 |
| 40* | 225010.40 | 225266.11 01 | V CNLIN | LVI,V T1,V WT | - | -0779 OA000788 |
| 41* | 225011.00 | 225224.51 30 | | SV,V T1,V TSB+V DS | - | -ALTER RT DISPOSITION-0780 OA000789 |
| 42* | 225011.40 | 225224.00 80 | 001000.CC FC | CM0000,V TSB+V OP | - | -0781 OA000790 |
| 43* | 225012.40 | 232762.00 80 | | SIC,ZCCM90 | | OA000791 |
| 44* | 225013.00 | 232746.10 00 | | B,ZASN01 | | OA000791 |
| 45* | 225013.40 | 000005.00+ | | VF,V CRC | | OA000791 |
| 46* | 225014.00 | 225210.07 01 | | LVI,V U,V TSA | - | -0782 OA000792 |
| 47* | 225014.40 | 225016.63 09 | | LVNI,V T5,V CCR | - | -0783 OA000793 |
| 48* | 225015.00 | 000000.00 81 | | SIC,(V P) | | OA000794 |
| 49* | 225015.40 | 224702.10 00 | | B,V COM | - | -0784 OA000794 |
| 50* | 225016.00 | 224653.10 00 | | B,V ACTX | - | -0785 OA000795 |
| 51* | 225016.40 | 000000.00 81 | V CCR | SIC,(V P) | | OA000796 |
| 52* | 225017.00 | 225024.10 00 | | B,V SCNL | - | -0786 OA000796 |
| 53* | 225017.40 | 000000.00 81 | | SIC,(V P) | | CA000797 |
| 54* | 225020.00 | 224176.03 48 | | CB+,V P,V RDCSX | - | -0787 OA000797 |

| LINE | LOCATICN | BINARY | CUTPUT | NAME | STATEMENT | LOCATICN | 225020 | | |
|------|-----------|-------------|--------|-----------|--------------------|----------------------------|--------|----------|----------|
| 1* | 225020.40 | 215001.10 | 80 | 002000.00 | FO | CM0000,SYSMCD | -0788 | 0A000799 | |
| 2* | 225021.40 | * 225210.07 | 01 | | LVI,V U,V TSA | - | -0789 | 0A000800 | |
| 3* | 225022.00 | 224671.43 | 08 | | CB-,V P,V SETX | | | 0A000801 | |
| 4* | 225022.40 | 000001.00 | 81 | V SCNLX | SIC,1.(V P) | | | 0A000802 | |
| 5* | 225023.00 | 225076.50 | 00 | | B,V OVBV | | | 0A000802 | |
| 6* | 225023.40 | 225025.10 | 00 | | B,V SCNL1 | | -0792 | 0A000803 | |
| 7* | 225024.00 | 225246.00 | 80 | 225243.06 | EC V SCNL | SWAPI,3,V TX,V TXT | - | -0793 | 0A000804 |
| 8* | 225025.00 | 224717.00 | 80 | 040000.20 | 50 V SCNL1 | L,V INON | | -0794* | 0A000805 |
| 9* | 225026.00 | 224263.40 | 80 | 040000.20 | 00 | ST,V SC5 | - | -0795 | 0A000806 |
| 10* | 225027.00 | 224324.51 | 01 | | LVI,V T1,V WQ | | -0796 | 0A000807 | |
| 11* | 225027.40 | 225255.11 | 00 | | SVA,V T1,V NX+V SC | | -0797 | 0A000808 | |
| 12* | 225030.00 | 224266.11 | 01 | | LVI,V T1,V SC1A | | -0798 | 0A000809 | |
| 13* | 225030.40 | 224322.11 | 00 | | SVA,V T1,V SQ1 | | -0799 | 0A000810 | |
| 14* | 225031.00 | 225232.10 | 30 | | LV,V T1,V X+V CR | | -0800 | 0A000811 | |
| 15* | 225031.40 | 225266.11 | 30 | | SV,V T1,V X+V WT | | -0801 | 0A000812 | |
| 16* | 225032.00 | 000000.10 | 01 | | B,(V P) | | -0803 | 0A000813 | |
| 17* | 225032.40 | 225247.10 | 10 | V CFFLN | LX,V T1,V TX1 | -VERIFY INACTIVITY OF- | -0804 | 0A000814 | |
| 18* | 225033.00 | 224157.50 | 48 | | CP,V T1,V NOP | | -0805 | 0A000815 | |
| 19* | 225033.40 | 225252.16 | 10 | | LX,V T3,V X2R+V SC | | -0806 | 0A000816 | |
| 20* | 225034.00 | 000000.10 | 37 | | LV,V T1,(V T3) | | -0807 | 0A000817 | |
| 21* | 225034.40 | 224157.71 | 40 | | BZXVZ,V NOP | | -0808 | 0A000818 | |
| 22* | 225035.00 | * 224171.23 | 80 | 224157.74 | 04 | BZBZ,V CSAW,V NOP | - | -0809 | 0A000819 |
| 23* | 225036.00 | 224372.32 | 80 | 000000.34 | 0E | DB1,V ECFX, | - | -0810 | 0A000820 |
| 24* | 225037.00 | 224233.51 | 01 | | LVI,V T1,V RDQ | | -0811 | 0A000821 | |
| 25* | 225037.40 | 225255.11 | 00 | | SVA,V T1,V NX+V SC | | -0812 | 0A000822 | |
| 26* | 225040.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000823 | |
| 27* | 225040.40 | 224272.43 | 48 | | CB+,V P,V SCR1 | -REMOVE LAST CARD FRC-0813 | | 0A000823 | |
| 28* | 225041.00 | 225274.62 | 30 | | LV,VT5,VRQB+VWT | | | 0A000824 | |
| 29* | 225041.40 | 225274.43 | 70 | | SR,VP,VRQB+VWT | | | 0A000824 | |
| 30* | 225042.00 | 000000.00 | 81 | | SIC,(VP) | | | 0A000825 | |
| 31* | 225042.40 | 225273.03 | 48 | | CB+,VP,VNX+VWT | | | 0A000825 | |
| 32* | 225043.00 | 225266.07 | 01 | | LVI,V U,V WT | - | -0814 | 0A000826 | |
| 33* | 225043.40 | 225044.63 | 09 | | LVNI,V T5,V FREW | - | -0815 | 0A000827 | |
| 34* | 225044.00 | 225120.50 | 00 | | B,V CCMX | | | 0A000828 | |
| 35* | 225044.40 | 000000.00 | 81 | V FREW | SIC,(V P) | | | 0A000829 | |
| 36* | 225045.00 | 225072.10 | 00 | | B,V SCFL | - | -0817 | 0A000829 | |
| 37* | 225045.40 | 225224.00 | 80 | 001000.36 | FC | CM1111,V TSB+V OP | - | -0818 | 0A000830 |
| 38* | 225046.40 | 000000.00 | 81 | | SIC,(V P) | | | 0A000831 | |
| 39* | 225047.00 | 225060.43 | 48 | | CB+,V P,V MTTSA | - | -0819 | 0A000831 | |
| 40* | 225047.40 | 225266.07 | 01 | | LVI,V U,V WT | - | -0820 | 0A000832 | |
| 41* | 225050.00 | 225044.55 | 09 | | LVNI,V T2,V FREW | | | 0A000833 | |
| 42* | 225050.40 | * 000007.40 | 63 | | L(U),V RCNT(V U) | - | -0821 | 0A000834 | |
| 43* | 225051.00 | 224374.34 | 00 | | BZRZ,V SSREW | - | -0822 | 0A000835 | |
| 44* | 225051.40 | 225221.07 | 01 | V RJTP | LVI,V U,V TSB | - | -0823 | 0A000836 | |
| 45* | 225052.00 | 225210.62 | 30 | | LV,VT5,VTSA+VX1 | -017 | | 0A000837 | |
| 46* | 225052.40 | 225201.31 | 89 | 001000.36 | FO | CM1111,VSURT.VOPB(VT5) | -017 | 0A000838 | |
| 47* | 225053.40 | 225201.10 | 19 | | LX,VT1,VSURT(VT5) | -017 | | 0A000839 | |
| 48* | 225054.00 | 000027.11 | 70 | | SR,VT1,VT3 | -030 | | 0A000840 | |
| 49* | 225054.40 | 000007.43 | 37 | | SV,VP,VFCNT(VT3) | -(30) | | 0A000841 | |
| 50* | 225055.00 | 000000.00 | 81 | | SIC,(V P) | | | 0A000842 | |
| 51* | 225055.40 | 224745.50 | 00 | | B,V TMV | | -0827* | 0A000842 | |
| 52* | 225056.00 | 000021.03 | 01 | | LVI,VP,17.0 | | | 0A000843 | |
| 53* | 225056.40 | 000000.43 | 37 | | SV,VP,VX1(VT3) | | | 0A000844 | |
| 54* | 225057.00 | 000007.42 | 37 | | LV,VP,VFCNT(VT3) | | | 0A000845 | |
| 55* | 225057.40 | 225210.07 | 01 | | LVI,V U,V TSA | | -0828+ | 0A000846 | |
| 56* | 225060.00 | 224655.10 | 00 | | B,V ACT | | -0829+ | 0A000847 | |

| LINE | LOCATICN | BINARY | OUTPUT | NAME | STATEMENT | LOCATICN | 225060 |
|------|-------------|------------|--------|--------------|---------------------------|----------|----------|
| 1* | 225060.40 | 225210.07 | 01 | V MTTSA | LVI,V U,V TSA | - | -0830 |
| 2* | 225061.00 | 225312.11 | 01 | | LVI,V T1,V ST | - | -0831 |
| 3* | 225061.40 | 225224.51 | 30 | | SV,V T1,V DS+V TSB | - | -0832 |
| 4* | 225062.00 | 000000.00 | 81 | | SIC,(V P) | | CA000851 |
| 5* | 225062.40 | 224671.50 | 00 | | B,V SETX | -0833 | CA000851 |
| 6* | 225063.00 | 000000.15 | 05 | | V+I,V T2,0 | - | -0834 |
| 7* | 225063.40 | 224157.71 | 42 | | BXVZ,V NCP | - | -0835 |
| 8* | 225064.00 * | 225221.07 | 01 | | LVI,V U,V TSB | - | -0836 |
| 9* | 225064.40 | 225201.31 | 86 | 001000.36 FC | CM1111,V SURT.V CPB(V T2) | - | -0837 |
| 10* | 225065.40 | 225201.10 | 16 | | LX,V T1,V SURT(V T2) | - | -0838 |
| 11* | 225066.00 | 000026.22 | 30 | | LV,VT5,VT2 | -018 | CA000857 |
| 12* | 225066.40 | 000000.00 | 81 | | SIC,(V P) | | CA000858 |
| 13* | 225067.00 | 224745.50 | 00 | | B,V TMV | | CA000858 |
| 14* | 225067.40 | 225060.50 | 00 | | B,V MTTSA | - | -0840 |
| 15* | 225070.00 | 000001.00 | 81 | V SCFLX | SIC,1.(V P) | | CA000860 |
| 16* | 225070.40 | 225076.50 | 00 | | B,V QVBY | | CA000860 |
| 17* | 225071.00 | 224266.11 | 01 | | LVI,V T1,V SC1A | | -0842 |
| 18* | 225071.40 | 224322.11 | 00 | | SVA,V T1,V SQ1 | | -0843 |
| 19* | 225072.00 | 225246.00 | 80 | 225243.06 E0 | V SCFL SWAPI,3,V TX,V TXT | - | -0844 |
| 20* | 225073.00 | 224425.51 | 01 | | LVI,V T1,V STQ | - | -0845 |
| 21* | 225073.40 | 224717.40 | 80 | 040000.20 50 | L,V INOFF | - | -0846 |
| 22* | 225074.40 | 225255.11 | 00 | | SVA,V T1,V NX+V SC | - | -0847 |
| 23* | 225075.00 | 224263.40 | 80 | 040000.20 00 | ST,V SC5 | - | -0848 |
| 24* | 225076.00 | 000000.10 | 01 | | B,(V P) | - | -0849 |
| 25* | 225076.40 | 224721.00 | 80 | 040000.20 50 | V CVBY L,V IN2 | | -0850 |
| 26* | 225077.40 * | 224150.51 | 01 | | LVI,V T1,V OFFON | | -0851 |
| 27* | 225100.00 | 224150.11 | 00 | | SVA,V T1,V DISP | | -0852 |
| 28* | 225100.40 | 224266.00 | 80 | 040000.20 00 | ST,V SC1A | | -0853 |
| 29* | 225101.40 | 225346.11 | 01 | | LVI,V T1,V Q | | -0854 |
| 30* | 225102.00 | 224716.51 | 30 | | SV,V T1,V RQEXT | | -0855 |
| 31* | 225102.40 | 000001.10 | 01 | | B,1.(V P) | | CA000875 |
| 32* | 225103.00 | 000001.01 | 05 | V BYPAS | V+I,,1. | | -0857 |
| 33* | 225103.40 | 225224.00 | 80 | 225116.34 02 | BB,V OP+V TSB,V BYPAF | | -0858 |
| 34* | 225104.40 | 224373.23 | 09 | V BYPAN | LVNI,V T5,V BREW | | -0859 |
| 35* | 225105.00 | 225266.07 | 01 | | LVI,V U,V WT | | -0860 |
| 36* | 225105.40 | 225247.26 | 10 | | LX,VS2,VTX1 | | CA000880 |
| 37* | 225106.00 | 225274.66 | 80 | | V+,VS2,VRQB+VWT | | CA000880 |
| 38* | 225106.40 | 225247.03 | 70 | | SR,VP,VTX1 | | CA000881 |
| 39* | 225107.00 | 225274.67 | 30 | | SV,VS2,VRQB+VWT | | CA000881 |
| 40* | 225107.40 | 000000.00 | 81 | | SIC,(V P) | | CA000882 |
| 41* | 225110.00 | 224702.10 | 00 | | B,V COM | | CA000882 |
| 42* | 225110.40 | 000000.00 | 81 | | SIC,(V P) | | CA000883 |
| 43* | 225111.00 | 224653.03 | 48 | | CB+,V P,V ACTX | -0862 | CA000883 |
| 44* | 225111.40 | 000000.00 | 81 | | SIC,(V P) | | CA000884 |
| 45* | 225112.00 | 225127.10 | 00 | | B,V SCBY | -0863 | CA000884 |
| 46* | 225112.40 | 225274.62 | 30 | | LV,VT5,VRQB+VWT | | CA000885 |
| 47* | 225113.00 * | 225274.43 | 70 | | SR,VP,VRQB+VWT | | CA000885 |
| 48* | 225113.40 | 000000.00 | 81 | | SIC,(VP) | | CA000886 |
| 49* | 225114.00 | 225273.03 | 48 | | CB+,VP,VNX+VWT | | CA000886 |
| 50* | 225114.40 | 225250.07 | 01 | | LVI,V U,V SC | | -0864 |
| 51* | 225115.00 | 225247.26 | 10 | | LX,V S2,V TX1 | | -0865 |
| 52* | 225115.40 | 224244.50 | 00 | | B,V SC7A | | -0866 |
| 53* | 225116.00 | 232762.00 | 80 | V BYPAF | SIC,ZCGM90 | | CA000890 |
| 54* | 225116.40 | 232746.10 | 00 | | B,ZASNO1 | | CA000890 |
| 55* | 225117.00 | 000005.00+ | | | VF,V CRC | | CA000890 |
| 56* | 225117.40 | 225210.07 | 01 | | LVI,VU,V TSA | | CA000891 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 225120 |
|------|-----------|-----------|--------|--------------|---------------------------|----------|----------|
| 1* | 225120.00 | 225122.23 | 09 | | LVNI,V T5,V CBR | | -0868 |
| 2* | 225120.40 | 000000.00 | 81 | V COMX | SIC,(V P) | | 0A000893 |
| 3* | 225121.00 | 224702.10 | 00 | | B,V CCM | | 0A000893 |
| 4* | 225121.40 | 224653.10 | 00 | | B,V ACTX | | 0A000894 |
| 5* | 225122.00 | 225246.00 | 80 | 225243.C6 EC | V CBR SWAPI,3,VTX,VTXT | | -01C |
| 6* | 225123.00 | 000000.55 | 33 | | SV,V T2,V X1(V U) | | 0A000896 |
| 7* | 225123.40 | 000000.00 | 81 | | SIC,(V P) | | 0A000897 |
| 8* | 225124.00 | 225127.10 | 00 | | B,V SCBY | | -0871 |
| 9* | 225124.40 | 224243.51 | 01 | | LVI,V T1,V SC6 | | -0872 |
| 10* | 225125.00 | 224322.11 | 00 | | SVA,V T1,V SQ1 | | -0873 |
| 11* | 225125.40 | 224372.31 | 80 | 001000.36 FO | CM1111,V BYCN | | -0874 |
| 12* | 225126.40 | 224176.03 | 08 | | CB-,V P,V RDCSX | | 0A000901 |
| 13* | 225127.00 | 224720.00 | 80 | 040000.20 50 | V SCBY L,V INBY | | -0878 |
| 14* | 225130.00 | 224451.51 | 01 | | LVI,V T1,V EQ | | -0879 |
| 15* | 225130.40 | 224263.40 | 80 | 040000.20 00 | ST,V SC5 | | -0880 |
| 16* | 225131.40 | 225255.11 | 00 | | SVA,V T1,V NX+V SC | | -0881 |
| 17* | 225132.00 | 224720.40 | 80 | 040000.20 50 | L,V IN1 | | -0882 |
| 18* | 225133.00 | 225246.14 | 10 | | LX,V T2,V TX | | -0883 |
| 19* | 225133.40 | 224266.00 | 80 | 040000.20 00 | ST,V SC1A | | -0884 |
| 20* | 225134.40 | 000024.15 | 50 | | SC,V T2,V T1 | | -0885 |
| 21* | 225135.00 | 225376.11 | 00 | | SVA,V T1,V X+V E | | -0886 |
| 22* | 225135.40 | 000000.10 | 01 | | B,(V P) | | -0887 |
| 23* | 225136.00 | 225436.11 | 80 | | V CFFLB LVE,V T1,V PDB+1. | | -0888 |
| 24* | 225136.40 | 225140.31 | 40 | | BZXVZ,V OFFX | | -0889 |
| 25* | 225137.00 | 224171.23 | 80 | 000000.34 OE | BB1,V CSAW, | | -0890 |
| 26* | 225140.00 | 224155.00 | 80 | | V CFFX SIC,V BYP.V H | | -0891 |
| 27* | 225140.40 | 000000.14 | 00 | | BR,C | | 0A000915 |
| 28* | 225141.00 | 000000.00 | 81 | | SIC,(V P) | | 0A000916 |
| 29* | 225141.40 | 224221.43 | 48 | | CB+,V P,V ECFB | | 0A000916 |
| 30* | 225142.00 | 224372.32 | 80 | 224157.74 00 | BZB,V ECFX,V NOP | | -0893 |
| 31* | 225143.00 | 224171.23 | 80 | 000000.34 04 | BZBZ,V CSAW, | | -0894 |
| 32* | | | | | | | -009 |
| 33* | 225144.00 | 000000.00 | 81 | | SIC,(V P) | | 0A000920 |
| 34* | 225144.40 | 225070.10 | 00 | | B,V SCFLX | | -0896 |
| 35* | 225145.00 | 225210.07 | 01 | | LVI,V U,V TSA | | -0897 |
| 36* | 225145.40 | 225224.00 | 80 | 224655.34 CE | BRI,V CP+V TSB,V ACT | | -0898 |
| 37* | 225146.40 | 000000.00 | 81 | | SIC,(V P) | | 0A000923 |
| 38* | 225147.00 | 225060.43 | 48 | | CB+,V P,V MTTSA | | -0899 |
| 39* | 225147.40 | 225275.40 | 60 | | L(U),V RCNT+V WT | | -0900 |
| 40* | 225150.00 | 225051.74 | 02 | | BRZ,V RJTP | | -0901 |
| 41* | 225150.40 | 777777.03 | 09 | | CB-,V P,V M1(V P) | | -0902 |
| 42* | 225151.00 | 000000.00 | 81 | | V CNLIB SIC,(V P) | | 0A000927 |
| 43* | 225151.40 | 225022.50 | 00 | | B,V SCNLX | | -0903 |
| 44* | 225152.00 | 225376.07 | 01 | | LVI,V U,V E | | -0904 |
| 45* | 225152.40 | 000000.00 | 81 | | SIC,(V P) | | 0A000929 |
| 46* | 225153.00 | 225173.43 | 48 | | CB+,V P,V SWEEP | | -0905 |
| 47* | 225153.40 | 225246.14 | 10 | | LX,V T2,V TX | | -0906 |
| 48* | 225154.00 | 000027.15 | 50 | | SC,V T2,V T3 | | -0907 |
| 49* | 225154.40 | 000042.17 | 00 | | V-I,V T3,34. | | -0908 |
| 50* | 225155.00 | 000031.16 | 80 | | V+,V T3,V T5 | | -0909 |
| 51* | 225155.40 | 225156.71 | 02 | | BXVGZ,\$.64 | | -0910 |
| 52* | 225156.00 | 000042.17 | 05 | | V+I,V T3,34. | | -0911 |
| 53* | 225156.40 | 000027.14 | 50 | | LC,V T2,V T3 | | -0912 |
| 54* | 225157.00 | 224517.17 | 00 | | SVA,V T3,V REQ6 | | -0913 |
| 55* | 225157.40 | 224517.20 | 30 | | LV,V T4,V REQ6 | | -0914 |
| 56* | 225160.00 | 225506.15 | 01 | | LVI,V T2,V BF1 | | -0915 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 225160 |
|------|-------------|------------|--------|---------------|-----------------------|--------------------------------|----------------------------|
| 1* | 225160.40 | 225505.54 | 88 | | V+,V T2,V CW(V T4) | | -0916 |
| 2* | 225161.00 | 225246.15 | 10 | | SX,V T2,V TX | | -0917 |
| 3* | 225161.40 | 225266.21 | 30 | | SV,V T4,V X+V WT | | -0918 |
| 4* | 225162.00 | 000000.00 | 81 | | SIC,(V P) | | |
| 5* | 225162.40 | 224314.03 | 48 | | CB+,V P,V SQ | | |
| 6* | 225163.00 | 225224.00 | 80 | 224157.74 04 | BZBZ,V CP+V TSB,V NOP | -EXIT FRM SIMPLE TRANSITION | -0919 |
| 7* | 225164.00 | 225266.11 | 01 | | LVI,V T1,V WT | | -0920 |
| 8* | 225164.40 | 225224.51 | 30 | | SV,V T1,V DS+V TSB | | -0921 |
| 9* | 225165.00 | 225212.16 | 10 | | LX,V T3,V X2R+V TSA | | -0922 |
| 10* | 225165.40 | 000000.14 | 37 | V NLB2 | LV,V T2,(V T3) | | -0923 |
| 11* | 225166.00 | 225171.31 | 00 | | BZXVGZ,V NLB1 | | -0924 |
| 12* | 225166.40 | 225201.10 | 16 | | LX,V T1,V SURT(V T2) | | -0925 |
| 13* | 225167.00 | 225266.11 | 03 | | LRI,V T1,V WT | | -0926 |
| 14* | 225167.40 | 225201.11 | 16 | | SX,V T1,V SURT(V T2) | | -0927 |
| 15* | 225170.00 | 000000.57 | 07 | | V+ICR,V T3,V F | | -0928 |
| 16* | 225170.40 | 225165.50 | 00 | | B,V NLB2 | | -0929 |
| 17* | 225171.00 * | 225210.07 | 01 | V NLB1 | LVI,V U,V TSA | | -0930 |
| 18* | 225171.40 | 000000.00 | 81 | | SIC,(V P) | | |
| 19* | 225172.00 | 224655.03 | 48 | | CB+,V P,V ACT | | |
| 20* | 225172.40 | 225232.07 | 01 | | LVI,V U,V CR | | |
| 21* | 225173.00 | 224653.10 | 00 | | B,V ACTX | | |
| 22* | 225173.40 | 000000.23 | 01 | V SWEEP | LVI,V T5,0 | | -0931 |
| 23* | 225174.00 | 000000.54 | 33 | | LV,V T2,V X1(V U) | | -0932 |
| 24* | 225174.40 | 225175.70 | 02 | | BXVLZ,V SWP3 | | -0933 |
| 25* | 225175.00 | 000026.22 | 80 | V SWP2 | V+,V T5,V T2 | | -0934 |
| 26* | 225175.40 | 000000.00 | 81 | V SWP3 | SIC,(V P) | | |
| 27* | 225176.00 | 224671.50 | 00 | | B,V SETX | -0935 | |
| 28* | 225176.40 | 000000.15 | 05 | | V+I,V T2,0 | | -0936 |
| 29* | 225177.00 | 225175.31 | 02 | | BXVGZ,V SWP2 | | -0937 |
| 30* | 225177.40 | 224671.70 | 02 | | BXVLZ,V SETX | | -0938 |
| 31* | 225200.00 | 000000.43 | 73 | | SR,V P,V X1(V U) | | -0939 |
| 32* | 225200.40 | 000000.14 | 33 | | LV,V T2,V X(V U) | | -0940 |
| 33* | 225201.00 | 000031.14 | 80 | | V+,V T2,V T5 | | -0941 |
| 34* | 225201.40 | 225202.70 | 02 | | BXVLZ,\$.64 | | -0942 |
| 35* | 225202.00 | 000042.15 | 00 | | V-I,V T2,34. | | -0943 |
| 36* | 225202.40 | 000000.15 | 33 | | SV,V T2,V X(V U) | | -0944 |
| 37* | 225203.00 | 777777.03 | 09 | | CB-,V P,V M1(V P) | | -0945 |
| 38* | 225203.40 | 224374.23 | 09 | V SREW | LVNI,V T5,V SSREW | | -0946 |
| 39* | 225204.00 | 225266.07 | 01 | | LVI,V U,V WT | | -0947 |
| 40* | 225204.40 * | 225120.50 | 00 | | B,V COMX | | |
| 41* | 225205.00 | 000000.00+ | 110 | 000000 225221 | VSURTX | XW,C,C,VTSB,6 | |
| 42* | 225206.00 | 000000.00+ | 000 | 000000 000000 | | XW,C | -0950 |
| 43* | 225207.00 | 000000.00+ | 110 | 000000 225221 | | XW,C,C,VTSB,6 | |
| 44* | 225201.00+ | -00000000 | | BU,30 ,10 | V SURT | SYN,V SURTX-V RTP | -0952 |
| 45* | 000000.32+ | +00000000 | | BU,01 ,10 | V RCY | SYN(BU,1),.26 | -0953 |
| 46* | 000000.31+ | +00000000 | | BU,01 ,10 | V CPB | SYN(BU,1),.25 | -0954 |
| 47* | 000000.00+ | +00000004 | | NULL | V TSAK | SYN,4 | -0955 |
| 48* | 225210.00 | 000000.00+ | | | V TSA | VF,C | |
| 49* | 225210.40 | 225122.00- | | | | VF,-V CBR | |
| 50* | 225211.00 | 225217.40+ | 000 | 000003 225214 | | XW,V TSA2.V H,V TSAK-1,V TSA2K | |
| 51* | 225212.00 | 225220.00+ | 000 | 000002 225214 | | XW,V TSA2+1.0,V TSAK-2,V TSA2K | |
| 52* | 225213.00 | | | 0 | | CD(BU,1),C,1 | -REWIND,SEQUENCE CRIT-0959 |
| 53* | 225213.01 | | | 1 | | | |
| 54* | 225213.40 | 225331.00+ | | | V TSA2K | VF,V RT | -0960 |
| 55* | 225214.00 | 225217.00+ | 000 | 000004 225214 | V TSA2K | XW,V TSA2,V TSAK,V TSA2K | -0961 |
| 56* | 225215.00 | 225002.10 | 00 | | | B,V TSBQ | -0962 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 225215 |
|------|-----------|---------------|--------|-----------|----------|----------|
| 1* | 225215.40 | 224754.10 00 | B,V TA | - | -0963 | 0A000991 |

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| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 225216 |
|------|-------------|------------------------------|-----------|-----------------------------|--------------------------------|----------|
| 1* | 225216.00 | CCCC00.00+ | | VF,C | | CA000993 |
| 2* | 225216.40 | CCCC00.00+ | | VF,C | -0964 | CA000993 |
| 3* | 225217.00 | CCCC00.00+ | VTSA2 | VF,C | | CA000994 |
| 4* | 225217.40 | CCCC00.00+ | | VF,C | | CA000994 |
| 5* | 225217.71 * | CCCC01.00 | | DRZ(BU,32),VTSAK-2 | | CA000994 |
| 6* | 000000.00+ | +000000C4 | NULL | V TSBK | | CA000995 |
| 7* | | | | CNOP, | -0966 | CA000996 |
| 8* | 225221.00 | 000000.00+ | V TSB | VF,C | -0967+ | CA000997 |
| 9* | 225221.40 | CCCC00.00+ | | VF,C | -0968 | CA000997 |
| 10* | 225222.00 | 225227.00+ CCO 000004 225225 | | XW,V TSB2,V TSBK,V TSB2K | -0969 | CA000998 |
| 11* | 225223.00 | 225227.00+ CCO 000004 225225 | | XW,V TSB2,V TSBK,V TSB2K | -0970 | CA000999 |
| 12* | 225224.00 | | 1 | DD(BU,1),1,0 | -REWIND, SEQUENCE NOT CRITICAL | CA001000 |
| 13* | 225224.01 | | 0 | | | CA001000 |
| 14* | 225224.40 | 225312.00+ | | VF,V ST | -0972* | CA001001 |
| 15* | 225225.00 | 225227.00+ CCO 000004 225225 | V TSB2K | XW,V TSB2,V TSBK,V TSB2K | -0973 | CA001002 |
| 16* | 225226.00 | 224777.10 C0 | | B,V TSAG | -0974 | CA001003 |
| 17* | 225226.40 | 224754.10 C0 | | B,V TA | -0975 | CA001004 |
| 18* | 225227.00 * | 000002.00 | V TSB2 | DRZ(BU,32),V TSBK | | CA001005 |
| 19* | 000003.00+ | +00000000 | BU,01 ,10 | V CP | -0977 | CA001006 |
| 20* | 000003.01+ | +00000000 | BU,01 ,10 | V SQNC | -0978 | CA001007 |
| 21* | 000003.40+ | +00000000 | NULL | V DS | -0979 | CA001008 |
| 22* | 000006.00+ | +00000000 | NULL | V TQ | -0980* | CA001009 |
| 23* | 000006.40+ | +00000000 | NULL | V TDQ | -0981 | CA001010 |
| 24* | | | | CNOP, | -0982 | CA001011 |
| 25* | 225231.00 | 224647.10 C0 | | B,VREOP | | CA001012 |
| 26* | 225231.40 | 224162.50 C0 | | B,V RDEE | -0984 | CA001013 |
| 27* | 000000.00+ | +00000002 | NULL | V CRK | -0985 | CA001014 |
| 28* | 225232.00 | 000042.00- | | V CR | -0986 | CA001015 |
| 29* | 225232.40 | CCCC00.00+ | | VF,C | -0987 | CA001016 |
| 30* | 225233.00 | 225242.00+ 000 000002 225241 | | XW,V RD2,V CRK,V RDX2K-CR2S | -0988 | CA001017 |
| 31* | 225234.00 | 225242.00+ 000 000002 225241 | | XW,V RD2,V CRK,V RDX2K-CR2R | -0989 | CA001018 |
| 32* | 225235.00 | 225506.00+ 010 000000 225235 | | CW(CD),V BF1,C,\$ | -0990 | CA001019 |
| 33* | 225236.00 | 000000.00+ 000 000000 000000 | V RDCW | CW,C | -CWR | CA001020 |
| 34* | 225237.00 | 224314.10 C0 | | B,V SQ | -0992 | CA001021 |
| 35* | 225237.40 | 224235.50 00 | | B,V RDIC | -0993 | CA001022 |
| 36* | 225240.00 | 000005.00 8C | | ,V CRD | -0994 | CA001023 |
| 37* | 225241.00 | 225242.00+ CCO 000002 225241 | V RDX2K | XW,V RD2,V CRK,V RDX2K | -0995 | CA001024 |
| 38* | 225242.00 | 000042.00 00 | V RD2 | BE,34. | | CA001025 |
| 39* | 225242.40 * | 000000.40 | | DRZ(BU,32),V CRK-1 | -0996 | CA001025 |
| 40* | 225243.00 | 225506.00+ CCO 000042 225256 | V TXT | XW,V BF1,34,V TXK | -0998 | CA001026 |
| 41* | 225244.00 | 000000.00+ CCO 000000 000000 | | XW,C | -0999 | CA001027 |
| 42* | 225245.00 | 000000.00+ | | VF,C | | CA001028 |
| 43* | 225245.40 | 000000.00+ | | VF,C | -1000 | CA001028 |
| 44* | 225246.00 | 225506.00+ CCO 000042 225256 | V TX | XW,V BF1,34,V TXK | -1001 | CA001029 |
| 45* | 225247.00 | 000000.00+ 000 000000 000000 | V TX1 | XW,C | -1002 | CA001030 |
| 46* | 000000.00+ | +00000006 | NULL | V SCK | -1003 | CA001031 |
| 47* | 225250.00 | CCCC00.00+ | V SC | VF,C | -1004 | CA001032 |
| 48* | 225250.40 | CCCC00.00+ | | VF,C | -1005 | CA001033 |
| 49* | 225251.00 | 225260.00+ 000 000006 225257 | | XW,V SC2Q,V SCK,V SX2K-SC2S | -1006 | CA001034 |
| 50* | 225252.00 | 225260.00+ 000 000006 225257 | | XW,V SC2Q,V SCK,V SX2K-SC2R | -1007 | CA001035 |
| 51* | 225253.00 | 000000.00+ 000 000000 000000 | | XW,C | -1008 | CA001036 |
| 52* | 225254.00 | 000000.00+ CCO 000000 000000 | | XW,C | -1009 | CA001037 |
| 53* | 225255.00 | 224451.50 C0 | | B,V EQ | -1010 | CA001038 |
| 54* | 225256.00 * | 225506.00+ CCO 000042 225256 | V TXK | XW,V BF1,34,V TXK | -1011 | CA001039 |
| 55* | 225257.00 | 225260.00+ CCO 000006 225257 | V SX2K | XW,V SC2Q,V SCK,V SX2K | -1012 | CA001040 |
| 56* | 225260.00 * | 000003.00 | V SC2Q | DRZ(BU,32),V SCK | -1013 | CA001041 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION |
|------|------------|--------------|-------------------|---------|----------------------------------|----------------|
| 1* | | | | | CNCP, | -1014 OA001042 |
| 2* | 225263.00 | 224322.50 | 00 | | B,VWEEP | OA001043 |
| 3* | 225263.40 | 224340.10 | 00 | | B,RWTEE | OA001043 |
| 4* | 225264.00 | 224361.50 | 00 | | B,VWFEEP | -1016 OA001044 |
| 5* | 225264.40 | 224360.10 | 00 | | B,RWTM | CA001045 |
| 6* | 225265.00 | 224322.50 | 00 | | B,VWEEP | -1018 OA001046 |
| 7* | 225265.40 | 224340.10 | 00 | | B,RWTEE | OA001047 |
| 8* | 225266.00 | 000042.00- | | VWT | VF,-34.C | OA001048 |
| 9* | 225266.40 | 224333.00- | | | VF,-VWEFT | OA001048 |
| 10* | 225267.00 | 225300.00+ | 000 000021 225277 | | XW,V W2,17,V WX2K -W2S | -1022 OA001049 |
| 11* | 225270.00 | 225300.00+ | 000 000021 225277 | | XW,V W2,17,V WX2K -W2R | -1023 OA001050 |
| 12* | 225271.00 | 225506.00+ | 000 000000 225271 | | CW,V BF1,0,\$ | -1024 OA001051 |
| 13* | 225272.00 | 000000.00+ | 000 000000 000000 | V WCW | CW,C -CWR | -1025 OA001052 |
| 14* | 225273.00 | 224233.50 | 00 | | B,V RDG -NX | -1026 OA001053 |
| 15* | 225273.40 | 224403.50 | 00 | | B,V WIC -IO | -1027 OA001054 |
| 16* | 225274.00 | 000000.00 | 80 | | ,0 -SU | CA001055 |
| 17* | 225274.40 | 000000.00 | 80 | | ,0 -RQB | -1029 OA001056 |
| 18* | 225275.00 | 000000.00+ | | | VF,C -RCNT | -1030 OA001057 |
| 19* | 225275.40 | 000000.00+ | | | VF,C -FCNT | -1031 OA001058 |
| 20* | 225276.00 | * 224655.10 | 00 | | B,V ACT -STR | -1032 OA001059 |
| 21* | 225277.00 | 225300.00+ | 000 000021 225277 | V WX2K | XW,V W2,17,V WX2K | -1033 OA001060 |
| 22* | 225300.00 | * 000010.40 | | V W2 | DRZ(BU,32),17 | -1034 CA001061 |
| 23* | 225310.40 | 000000.30 | 00 | | CNCP, | -1035 CA001062 |
| 24* | 225311.00 | 224647.10 | 00 | | B,V REOP | -1036 CA001063 |
| 25* | 225311.40 | 224426.50 | 00 | | B,V RTEE | -1037 OA001064 |
| 26* | 000000.00+ | +00000002 | | NULL | SYN,2 | -1038 OA001065 |
| 27* | 225312.00 | 000042.00- | | V STK | VF,-34. | -1039 OA001066 |
| 28* | 225312.40 | 000021.00+ | | V ST | VF,17. -S1 | -1040 OA001067 |
| 29* | 225313.00 | 225324.40+ | 000 000001 225323 | | XW,V S2T,V H,V STK-1,V SX2KT-S2S | -1041 OA001068 |
| 30* | 225314.00 | 225324.00+ | 000 000002 225323 | | XW,V S2T,V STK,V SX2KT-S2R | -1042 CA001069 |
| 31* | 225315.00 | 225506.00+ | 010 000377 225327 | | CW(CD),V BF1,255,V SCWA | -1043 OA001070 |
| 32* | 225316.00 | 225506.00+ | 010 000377 225327 | V SCW | CW(CD),V BF1,255,V SCWA-CWR | -1044 OA001071 |
| 33* | 225317.00 | 224314.10 | 00 | | B,V SQ -NX | -1045 OA001072 |
| 34* | 225317.40 | 224421.50 | 00 | | B,V RTIC -IO | -1046 CA001073 |
| 35* | 225320.00 | 000000.00 | 80 | | ,0 -SU | CA001074 |
| 36* | 225320.40 | 000000.00 | 80 | | ,0 -RQB | -1048 CA001075 |
| 37* | 225321.00 | 000000.00 | 80 | | ,0 -RCNT | -1049 OA001076 |
| 38* | 225321.40 | 000000.00 | 80 | | ,0 -FCNT | -1050 OA001077 |
| 39* | 225322.00 | 224422.10 | 00 | | B,V RTIC1 -STR | -1051 OA001078 |
| 40* | 225322.40 | 224727.00- | | | VF,-V STTS -TS | -1052 OA001079 |
| 41* | 225323.00 | * 225324.00+ | 000 000002 225323 | V SX2KT | XW,V S2T,V STK,V SX2KT | -1053 CA001080 |
| 42* | 225324.00 | 000021.00 | 00 | V S2T | BE,17. | CA001081 |
| 43* | 225324.40 | * 000000.40 | | | DRZ(BU,32),V STK-1 | -1054 CA001081 |
| 44* | 225325.00 | 000002.00 | | | DRZ(BU,32),4 | CA001082 |
| 45* | 225327.00 | 226105.00+ | 010 000377 225315 | V SCWA | CW(CD),V BF1+255.,255,V SCW-1. | -1055 OA001083 |
| 46* | 225330.00 | 224647.10 | 00 | | B,V RECP | -1057 CA001084 |
| 47* | 225330.40 | 224407.10 | 00 | | B,V REE | -1058 CA001085 |
| 48* | 225331.00 | 000042.00- | | V RT | VF,-34. | -1059 CA001086 |
| 49* | 225331.40 | 000021.00+ | | | VF,17. -R1 | -1060 CA001087 |
| 50* | 225332.00 | 225345.40+ | 000 000001 225344 | | XW,V R2.V H,1,V RX2K-R2S | -1061 OA001088 |
| 51* | 225333.00 | 225345.00+ | 000 000002 225344 | | XW,V R2,2,V RX2K -R2R | -1062 OA001089 |
| 52* | 225334.00 | 226504.00+ | 010 000377 225343 | | CW(CD),V BF2,255,V RCWA | -1063 OA001090 |
| 53* | 225335.00 | 226504.00+ | 010 000377 225343 | V RCW | CW(CD),V BF2,255,V RCWA-CWR | -1064 OA001091 |
| 54* | 225336.00 | 224452.50 | 00 | | B,V QQ -NX | -1065 CA001092 |
| 55* | 225336.40 | 224421.50 | 00 | | B,V RTIC -IO | -1066 CA001093 |
| 56* | 225337.00 | 000000.00 | 80 | | ,0 -SU | -1067 CA001094 |

| LINE | LOCATIONN | BINARY OUTPUT | NAME | STATEMENT | LOCATIONN | 225337 |
|------|-------------|------------------------------|---------|--------------------------------|-----------|-----------------|
| 1* | 225337.40 | 000000.00 80 | | ,0 | | -1068 CA001095 |
| 2* | 225340.00 | 000000.00 80 | | ,0 | | -1069 CA001096 |
| 3* | 225340.40 | 000000.00 80 | | ,0 | | -1070 CA001097 |
| 4* | 225341.00 | 225003.10 00 | | B,V RTST | | -1071 CA001098 |
| 5* | 225341.40 | 224732.40- | | VF,-V RTTS | | -1072- CA001099 |
| 6* | 225342.00 | 000000.00+ | | VF,C | | -1073+ CA001100 |
| 7* | 225343.00 * | 227103.00+ 010 000377 225334 | V RCWA | CW(CD),V BF2+255.,255,V RCW-1. | | -1074 CA001101 |
| 8* | 225344.00 | 225345.00+ 000 000002 225344 | V RX2K | XW,V R2,2,V RX2K | | -1075 CA001102 |
| 9* | 225345.00 | 000021.00+ | V R2 | VF,17. | | CA001103 |
| 10* | 225345.40 | 000000.00+ | | VF,C | | -1076 CA001103 |
| 11* | | | | CNOP, | | -1077 CA001104 |
| 12* | 225346.00 | 000042.00- | V G | VF,-34. | | -1078 CA001105 |
| 13* | 225346.40 | 000000.00+ | | VF,C | | -1079 CA001106 |
| 14* | 225347.00 | 225355.00+ 000 000042 225354 | | XW,V Q2Q,34,V QX2K | | -1080 CA001107 |
| 15* | 225350.00 | 225355.00+ 000 000042 225354 | | XW,V Q2Q,34,V QX2K | | -1081 CA001108 |
| 16* | 225351.00 | 226504.00+ 000 000000 225351 | | CW,V BF2,C,\$ | | -1082 CA001109 |
| 17* | 225352.00 | 000000.00+ 000 000000 000000 | | CW,C | | -1083 CA001110 |
| 18* | 225353.00 | 224420.50 00 | | B,V RQ | | -1084 CA001111 |
| 19* | 225354.00 | 225355.00+ 000 000042 225354 | V QX2K | XW,V Q2Q,34,V QX2K | | -1085 CA001112 |
| 20* | 225355.00 * | 000021.00 | V Q2Q | DRZ(BU,32),34 | | -1086 CA001113 |
| 21* | 225376.00 | 000042.00- | V E | VF,-34. | | -1087 CA001114 |
| 22* | 225376.40 | 000000.00+ | | VF,C | | -1088 CA001115 |
| 23* | 225377.00 | 225405.00+ 000 000042 225404 | | XW,V E2,34,V EX2K | | -1089 CA001116 |
| 24* | 225400.00 | 225405.00+ 000 000042 225404 | | XW,V E2,34,V EX2K | | -1090 CA001117 |
| 25* | 225401.00 | 225506.00+ 000 000000 225401 | | CW,V BF1,C,\$ | | -1091 CA001118 |
| 26* | 225402.00 | 000000.00+ 000 000000 000000 | | CW,C | | -1092 CA001119 |
| 27* | 225403.00 | 224233.50 00 | | B,V RDQ | | -1093 CA001120 |
| 28* | 225404.00 | 225405.00+ 000 000042 225404 | V EX2K | XW,V E2,34,V EX2K | | -1094 CA001121 |
| 29* | 225405.00 * | 000021.00 | V E2 | DRZ(BU,32),34 | | -1095 CA001122 |
| 30* | 225426.00 | 225434.40+ 000 000000 000000 | V PDQ | XW,V PDQB,0,0 | | -1096 CA001123 |
| 31* | 225427.00 | 225435.00+ 000 000000 000000 | V PD | XW,V PDB,C,0 | | -1097 CA001124 |
| 32* | 225430.00 | | RTSMMSG | (IQS*)DD(BU,8,8), | | CA001125 |
| 33* | 225434.00 | 224450.50 00 | | B,V RTN | | -1098 CA001126 |
| 34* | 225434.40 | 225434.50 00 | V PDQB | B,\$ | | -1099 CA001127 |
| 35* | 225435.00 | 000000.10 00 | V PDB | B, | | CA001128 |
| 36* | 225435.40 | 000000.10 00 | | B, | | CA001128 |
| 37* | 225436.00 | 000000.10 00 | | B, | | CA001128 |
| 38* | 225436.40 | 000000.10 00 | | B, | | CA001128 |
| 39* | 225437.00 | 000000.10 00 | | B, | | CA001128 |
| 40* | 225437.40 | 000000.10 00 | | B, | | CA001128 |
| 41* | 225440.00 | 000000.10 00 | | B, | | CA001128 |
| 42* | 225440.40 | 000000.10 00 | | B, | | CA001128 |
| 43* | 225441.00 * | 000000.10 00 | | B, | | CA001128 |
| 44* | 225441.40 | 000000.10 00 | | B, | | CA001128 |
| 45* | 225442.00 | 000000.10 00 | | B, | | CA001128 |
| 46* | 225442.40 | 000000.10 00 | | B, | | CA001128 |
| 47* | 225443.00 | 000000.10 00 | | B, | | -1100 CA001128 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 225443 |
|------|-------------|---------------|--------|---|----------|--------|
| 1* | 225443.40 | C00000.CC 00 | | BE,C | | -1101 |
| 2* | 225444.00 | | CCC042 | DD(BU,18),34 | | -1102 |
| 3* | 225444.22 | 00000000017 | | DD(BU,32),15,33,30,32,45,31,60,30,75,29,90,28,105,27 | | -1103 |
| 4* | 225444.62 | 00000000041 | | | | |
| 5* | 225445.22 | 00000000036 | | | | |
| 6* | 225445.62 | 00000000040 | | | | |
| 7* | 225446.22 | 00000000055 | | | | |
| 8* | 225446.62 | 00000000037 | | | | |
| 9* | 225447.22 | 00000000074 | | | | |
| 10* | 225447.62 | 00000000036 | | | | |
| 11* | 225450.22 | 00000000113 | | | | |
| 12* | 225450.62 | 00000000035 | | | | |
| 13* | 225451.22 | 00000000132 | | | | |
| 14* | 225451.62 | 00000000034 | | | | |
| 15* | 225452.22 | 00000000151 | | | | |
| 16* | 225452.62 | 00000000033 | | | | |
| 17* | 225453.22 | 00000000170 | | DD(BU,32),120,26,135,25,150,24,165,23,180,22,195,21,210 | | -1104 |
| 18* | 225453.62 | 00000000032 | | | | |
| 19* | 225454.22 | 00000000207 | | | | |
| 20* | 225454.62 * | 00000000031 | | | | |
| 21* | 225455.22 | 00000000226 | | | | |
| 22* | 225455.62 | 00000000030 | | | | |
| 23* | 225456.22 | 00000000245 | | | | |
| 24* | 225456.62 | 00000000027 | | | | |
| 25* | 225457.22 | 00000000264 | | | | |
| 26* | 225457.62 | 00000000026 | | | | |
| 27* | 225460.22 | 00000000303 | | | | |
| 28* | 225460.62 | 00000000025 | | | | |
| 29* | 225461.22 | 00000000322 | | | | |
| 30* | 225461.62 | 00000000024 | | DD(BU,32),20,225,19,240,18,255,17,270,16,285,15,300,14 | | -1105 |
| 31* | 225462.22 | 00000000341 | | | | |
| 32* | 225462.62 | 00000000023 | | | | |
| 33* | 225463.22 | 00000000360 | | | | |
| 34* | 225463.62 | 00000000022 | | | | |
| 35* | 225464.22 | 00000000377 | | | | |
| 36* | 225464.62 | 00000000021 | | | | |
| 37* | 225465.22 | 00000000416 | | | | |
| 38* | 225465.62 | 00000000020 | | | | |
| 39* | 225466.22 | 00000000435 | | | | |
| 40* | 225466.62 | 00000000017 | | | | |
| 41* | 225467.22 | 00000000454 | | | | |
| 42* | 225467.62 | 00000000016 | | | | |
| 43* | 225470.22 * | 00000000473 | | DD(BU,32),315,13,330,12,345,11,360,10,375,9,390,8,405,7 | | -1106 |
| 44* | 225470.62 | 00000000015 | | | | |
| 45* | 225471.22 | 00000000512 | | | | |
| 46* | 225471.62 | 00000000014 | | | | |
| 47* | 225472.22 | 00000000531 | | | | |
| 48* | 225472.62 | 00000000013 | | | | |
| 49* | 225473.22 | 00000000550 | | | | |
| 50* | 225473.62 | 00000000012 | | | | |
| 51* | 225474.22 | 00000000567 | | | | |
| 52* | 225474.62 | 00000000011 | | | | |
| 53* | 225475.22 | 00000000606 | | | | |
| 54* | 225475.62 | 00000000010 | | | | |
| 55* | 225476.22 | 00000000625 | | | | |
| 56* | 225476.62 | 00000000007 | | | | |

| LINE | LOCATCN | BINARY OUTPLT | NAME | STATEMENT | LOCATION | 225477 |
|------|-------------|---------------|------|---|----------|--------|
| 1* | 225477.22 | | | DD(BU,32),420,6,435,5,450,4,465,3,480,2,495,1 | | -1107 |
| 2* | 225477.62 | | | | | |
| 3* | 225500.22 | | | | | |
| 4* | 225500.62 | | | | | |
| 5* | 225501.22 | | | | | |
| 6* | 225501.62 | | | | | |
| 7* | 225502.22 | | | | | |
| 8* | 225502.62 | | | | | |
| 9* | 225503.22 | | | | | |
| 10* | 225503.62 * | | | | | |
| 11* | 225504.22 | | | | | |
| 12* | 225504.62 | | | | | |
| 13* | 225505.40+ | +00000000 | NULL | V CW SYN,\$.14 | | -1108 |
| 14* | 225506.00+ | +00000000 | NULL | V MT SYN,\$.46 | | -1109 |
| 15* | 225505.22 | | | DD(BU,32),510 | | -1110 |
| 16* | | | | CNCP,0 | | -1111 |
| 17* | 225506.00 * | 000776.00 | | V BF1 DRZ(BU,64),(34,15) | | -1112 |
| 18* | 226504.00 | 000776.00 | | V BF2 DRZ(BU,64),(34,15) | | -1113 |
| 19* | 227502.00 | 227524.33 30 | | R UNLD SV,13,R UNLD2 | | -1116 |
| 20* | 227502.40 | 000000.42 3D | | LV,1,.32(\$13) | | -1117 |
| 21* | 227503.00 | 225266.03 04 | | KVI,\$1,VWT | | |
| 22* | 227503.40 | 230355.32 00 | | BZXE,RKSCON | | |
| 23* | 227504.00 | 000005.40 8D | | SIC,5.32(\$13) | | |
| 24* | 227504.40 | 227512.10 00 | | B,R UNLD1 | | -1120 |
| 25* | 227505.00 | 224757.43 01 | | LVI,\$1,VTDSP | | |
| 26* | 227505.40 | 227524.32 30 | | LV,13,R UNLD2 | | -1122 |
| 27* | 227506.00 | 000005.43 0D | | SVA,1,5.32(\$13) | | -1123 |
| 28* | 227506.40 | 000000.46 3D | | LV,V U,.32(\$13) | | -1124 |
| 29* | 227507.00 | 000040.10 00 | | B,D MCP | | |
| 30* | 227507.40 | 000001.40 80 | | ,D W | | -1125 |
| 31* | 227510.00 | 000006.01 B3 | | LVE,,V SU(V U) | | -1126 |
| 32* | 227510.40 | 225272.00 80 | | ,V WCW | | -1127 |
| 33* | 227511.00 | 000040.10 00 | | B,D MCP | | |
| 34* | 227511.40 | 000041.00 80 | | ,D RET | | -1128 |
| 35* | 227512.00 | 000001.02 3D | | R UNLD1 LV,1,1.(\$13) | | -1129 |
| 36* | 227512.40 | 000040.10 00 | | B,D MCP | | |
| 37* | 227513.00 | 000043.40 80 | | ,D COMM | | -1130 |
| 38* | 227513.40 | 227517.00+ | | VF,RUNM | | -1131 |
| 39* | 227514.00 | 000005 | | CF,5 | | -1132 |
| 40* | 227514.40 | 000040.10 00 | | B,D MCP | | |
| 41* | 227515.00 * | 000010.40 80 | | ,D UNLD | | -1133 |
| 42* | 227515.40 | 000000.00 81 | | ,0(\$1) | | -1134 |
| 43* | 227516.00 | 000040.10 00 | | B,D MCP | | |
| 44* | 227516.40 | 000041.00 80 | | ,D RET | | -1135 |
| 45* | 227517.00 | | | R UNM (IQS*)DD(BU,8,8),ATTEMPT TO WRITE ON FILE * | | -1136 |
| 46* | 227522.10 | | | (IQS*)DD(BU,8,8),PRCTECTED TAPE * | | -1137 |
| 47* | 227524.00 | 000000.00+ | | R UNLD2 VF,0 | | -1138 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION |
|------|-------------|---------------------------|--------|--|----------|
| 1* | | | | ***** | 0B000001 |
| 2* | | | | ***** THE OVERLAP INPUT PROGRAM FIXUPS ***** | 0B000002 |
| 3* | | | | ***** | 0B000003 |
| 4* | | | | | 0B000004 |
| 5* | 227524.31 * | | | SLC, \$ | 0B000005 |
| 6* | 000003.00+ | +00000000 | RKA | SYN, 3.0 | 0B000006 |
| 7* | 000003.00+ | +00000000 | RKB | SYN, 3.0 | 0B000007 |
| 8* | 000003.00+ | +00000000 | RKC | SYN, 3.0 | 0B000008 |
| 9* | 000003.00+ | +00000000 | RKD | SYN, 3.0 | 0B000009 |
| 10* | 000003.00+ | +00000000 | RKF | SYN, 3.0 | 0B000010 |
| 11* | 000003.00+ | +00000000 | RKF | SYN, 3.0 | 0B000011 |
| 12* | 227524.40 | 230363.72 30 | RKS UK | LV, \$13, RKSBRG | 0B000012 |
| 13* | 227525.00 | 000004.33 0D | | V-I, \$13, 4.0 | 0B000012 |
| 14* | 227525.40 | 000000.46 3D | | LV, VU, 0.32(\$13) | 0B000013 |
| 15* | 227526.00 | 000002.11 8D 227502.34 02 | | BB, 2.9(\$13), RUNLD | 0B000014 |
| 16* | 227527.00 | 000001.44 3D | | LV, \$2, 1.32(\$13) | 0B000015 |
| 17* | 227527.40 | 000000.77 82 | | LVE, \$15, 0.32(\$2) | 0B000016 |
| 18* | 227530.00 | 000001.77 04 | | KVI, \$15, DK | 0B000016 |
| 19* | 227530.40 | 227536.32 C2 | | BXE, RGWUK | 0B000017 |
| 20* | 227531.00 | 000001.37 04 | | KVI, \$15, DRD | 0B000018 |
| 21* | 227531.40 | 227757.32 C2 | | BXE, RDUK | 0B000018 |
| 22* | 227532.00 | 000002.14 8D 230432.74 00 | | BZB, 2.12(\$13), RGNCGD | 0B000019 |
| 23* | 227533.00 | 000007.77 C4 | | KVI, \$15, DWEF | 0B000020 |
| 24* | 227533.40 | 230204.72 C0 | | BZXE, RPUKLI | 0B000020 |
| 25* | 227534.00 | 227544.23 80 001000.00 F0 | | CMOC00(BU, 1), RWEXBR+.19 | 0B000021 |
| 26* | 227535.00 | 230364.21 80 227552.74 02 | | BB, REJJOB+.17, RWSET | 0B000022 |
| 27* | 227536.00 | 227643.76 30 | RGWUK | LV, \$15, RWTRY | 0B000023 |
| 28* | 227536.40 | 227643.36 80 | | V+, \$15, RETRY | 0B000024 |
| 29* | 227537.00 | 000010.37 04 | | KVI, \$15, RKB+RKC+2.0 | 0B000025 |
| 30* | 227537.40 * | 227544.32 C0 | | BZXE, RWEXBR | 0B000025 |
| 31* | 227540.00 | 227646.37 C1 | | LVI, \$15, RWEXIT | 0B000026 |
| 32* | 227540.40 | 230013.00 80 | | SIC, RDSWBR | 0B000027 |
| 33* | 227541.00 | 230007.10 C0 | | B, RDSWTC | 0B000027 |
| 34* | 227541.40 | 227544.23 80 227552.34 C0 | | BZB, RWEXBR.19, RWSET-.32 | 0B000028 |
| 35* | 227542.40 | 000001.75 82 | | LVE, \$14, 1.32(\$2) | 0B000029 |
| 36* | 227543.00 | 000000.42 6E | | LWF(U), (\$14) | 0B000030 |
| 37* | 227543.40 | 227644.40 E0 | | ST(U), RWEXIT-2.0 | 0B000030 |
| 38* | 227544.00 | 227552.70 C0 | RWEXBR | NOP, RWSET | 0B000031 |
| 39* | 227544.40 | 227556.37 C1 | | LVI, \$15, RWSBSP | 0B000031 |
| 40* | 227545.00 | 227653.77 C0 | RWREST | SVA, \$15, RWEXIT+5.32 | 0B000032 |
| 41* | 227545.40 | 227643.76 50 | | LC, \$15, RWTRY | 0B000033 |
| 42* | 227546.00 | 227554.76 4A | | CBZ, \$15, RWTCNG | 0B000033 |
| 43* | 227546.40 | 227643.77 50 | RWSTCR | SC, \$15, RWTRY | 0B000034 |
| 44* | 227547.00 | 227544.23 80 001000.36 F0 | | CM1111(BU, 1), RWEXBR.19 | 0B000035 |
| 45* | 227550.00 | 000040.10 C0 | | B, DMCP | 0B000036 |
| 46* | 227550.40 | 000006.00+ | | VF, CRSP | 0B000036 |
| 47* | 227551.00 | 000006.01 83 | | LVE, VSL(VU) | 0B000036 |
| 48* | 227551.40 | 230104.10 C0 | | B, RETN | 0B000036 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 227552 |
|------|-------------|------------|--------|-----------|----------------------|------------------------|----------|
| 1* | 227552.00 | 227644.22 | 00 | | Z,RWEXIT-2.0 | | 0B000038 |
| 2* | 227552.40 | 227563.77 | 01 | RWSET | LVI,\$15,RWEE | | 0B000039 |
| 3* | 227553.00 * | 227651.77 | 00 | | SVA,\$15,RWEXIT+3.32 | | 0B000039 |
| 4* | 227553.40 | 227566.77 | 01 | | LVI,\$15,RWBSP | | 0B000040 |
| 5* | 227554.00 | 227545.10 | 00 | | B,RWREST | | 0B000040 |
| 6* | 227554.40 | 000004.37 | 02 | RWTCNG | LCI,\$15,RKD+1.0 | | 0B000041 |
| 7* | 227555.00 | 230364.77 | 80 | 227546.74 | 00 | BZB1,REJJOB+.63,RWSTOR | 0B000042 |
| 8* | 227556.00 | 000000.46 | 3D | RWSBSP | LV,VU,0.32(\$13) | | 0B000043 |
| 9* | 227556.40 | 230364.77 | 80 | 227560.74 | 04 | BZBZ,REJJOB+.63,RWNCEG | 0B000044 |
| 10* | 227557.40 | 227577.00 | 80 | | SIC,REGRBR | | 0B000045 |
| 11* | 227560.00 | 227574.10 | 00 | | B,REGR | | 0B000045 |
| 12* | 227560.40 | 000040.10 | 00 | RWNCEG | B,DMCP | | 0B000046 |
| 13* | 227561.00 | 000001.40+ | | | VF,DW | | 0B000046 |
| 14* | 227561.40 | 000006.01 | B3 | | LVE,,VSU(VU) | | 0B000046 |
| 15* | 227562.00 | 225272.00+ | | | VF,VWCW | | 0B000046 |
| 16* | 227562.40 | 230316.77 | 01 | | LVI,\$15,RESTOR | | 0B000047 |
| 17* | 227563.00 | 230103.50 | 00 | | B,RTN | | 0B000047 |
| 18* | 227563.40 | 000000.46 | 3D | RWEE | LV,VU,.32(\$13) | | 0B000048 |
| 19* | 227564.00 | 230334.37 | 01 | | LVI,\$15,REBSP1 | | 0B000049 |
| 20* | 227564.40 | 000040.10 | 00 | | B,DMCP | | 0B000050 |
| 21* | 227565.00 | 000006.40+ | | | VF,DSPFL | | 0B000050 |
| 22* | 227565.40 | 000006.01 | B3 | | LVE,,VSU(VU) | | 0B000050 |
| 23* | 227566.00 | 230271.10 | 00 | | B,RK4P32 | | 0B000051 |
| 24* | 227566.40 * | 000000.46 | 3D | RWBSP | LV,VU,0.32(\$13) | | 0B000052 |
| 25* | 227567.00 | 000007.36 | 33 | | LV,\$15,VRCNT(VU) | | 0B000053 |
| 26* | 227567.40 | 230334.31 | 40 | | BZXVZ,REBSP1 | | 0B000054 |
| 27* | 227570.00 | 000040.10 | 00 | | B,DMCP | | 0B000055 |
| 28* | 227570.40 | 000001.00+ | | | VF,DRD | | 0B000055 |
| 29* | 227571.00 | 000006.01 | B3 | | LVE,,VSU(VU) | | 0B000055 |
| 30* | 227571.40 | 230250.00+ | | | VF,RESKIP | | 0B000055 |
| 31* | 227572.00 | 230324.37 | 01 | | LVI,\$15,REDDUK | | 0B000056 |
| 32* | 227572.40 | 000003.77 | 00 | | SVA,\$15,3.32(\$13) | | 0B000057 |
| 33* | 227573.00 | 230325.37 | 01 | | LVI,\$15,READ | | 0B000058 |
| 34* | 227573.40 | 230103.50 | 00 | | B,RTN | | 0B000059 |
| 35* | 227574.00 | 227643.34 | 50 | REGR | LC,\$14,RETRY | | 0B000060 |
| 36* | 227574.40 | 227602.34 | 4A | | CBZ,\$14,RENGJB | | 0B000061 |
| 37* | 227575.00 | 227643.35 | 50 | | SC,\$14,RETRY | | 0B000062 |
| 38* | 227575.40 | 000040.10 | 00 | | B,DMCP | | 0B000063 |
| 39* | 227576.00 | 000005.01+ | | | VF,DERGS | | 0B000063 |
| 40* | 227576.40 | 000006.01 | B3 | | LVE,,VSL(VU) | | 0B000063 |
| 41* | 227577.00 | 227577.10 | 00 | REGRBR | B,\$ | | 0B000064 |
| 42* | 227577.40 | 777777.04 | 3D | RETEST | LV,\$2,-1.0(\$13) | | 0B000065 |
| 43* | 227600.00 | 227612.71 | 40 | | BZXVZ,REXEX | | 0B000065 |
| 44* | 227600.40 | 230265.45 | 01 | | LVI,\$2,REDOBL | | 0B000066 |
| 45* | 227601.00 | 000004.45 | 00 | | SVA,\$2,4.32(\$13) | | 0B000066 |
| 46* | 227601.40 | 227613.50 | 00 | | B,RESPAC | | 0B000067 |
| 47* | 227602.00 * | 000004.35 | 01 | RENGJB | LVI,\$14,RKC+1.0 | | 0B000068 |
| 48* | 227602.40 | 227643.35 | 00 | | SVA,\$14,RETRY | | 0B000068 |
| 49* | 227603.00 | 227642.23 | 80 | 001000.36 | FC | CM1111(BU,1),RKCRWT.19 | 0B000069 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 227604 |
|------|-------------|------------|--------|-----------|--------------------|--------------------------|----------|
| 1* | 227604.00 | 225427.02 | 10 | | LX,VP,VPD | | 0B000071 |
| 2* | 227604.40 | 230364.21 | 80 | 230400.34 | 06 | BBZ,REJJOB+.17,REDUMP | 0B000072 |
| 3* | 227605.40 | 000007.74 | 33 | | LV,14,VFCNT(VU) | | 0B000073 |
| 4* | 227606.00 | 227611.71 | 40 | | BZXVZ,RGOOD | | 0B000073 |
| 5* | 227606.40 | 227642.23 | 80 | 001000.00 | FC | CM0000(BU,1),RKCRWT.19 | 0B000074 |
| 6* | 227607.40 | 227642.00 | 80 | | SIC,RKCRWT | | 0B000075 |
| 7* | 227610.00 | 227615.10 | 00 | | B,RESTRP | | 0B000075 |
| 8* | 227610.40 | 227642.23 | 80 | 230400.34 | 0C | BZB1,RKCRWT.19,REDUMP | 0B000076 |
| 9* | 227611.40 | 000007.34 | 33 | RGOOD | LV,14,VRCNT(VU) | | 0B000077 |
| 10* | 227612.00 | 227577.71 | 40 | | BZXVZ,RETEST | | 0B000077 |
| 11* | 227612.40 | 230272.05 | 01 | REREX | LVI,\$2,REBSFL | | 0B000078 |
| 12* | 227613.00 | 000004.45 | DD | | SVA,\$2,4.32(\$13) | | 0B000078 |
| 13* | 227613.40 | 000040.10 | 00 | RESPAC | B,DMCP | | 0B000079 |
| 14* | 227614.00 | 000007.00+ | | | VF,CBSFL | | 0B000079 |
| 15* | 227614.40 | 000006.01 | B3 | | LVE,,VSU(VU) | | 0B000079 |
| 16* | 227615.00 | 777777.04 | 3D | RESTRP | LV,\$2,-1.0(\$13) | | 0B000080 |
| 17* | 227615.40 * | 224450.71 | 42 | | BXVZ,VRTN | | 0B000080 |
| 18* | 227616.00 | 225266.62 | 30 | REWTEE | LV,VT5,VX1+VWT | | 0B000081 |
| 19* | 227616.40 | 225266.16 | 30 | | LV,VT3,VX+VWT- | | 0B000081 |
| 20* | 227617.00 | 000031.16 | B0 | | V+,VT3,VT5 | | 0B000082 |
| 21* | 227617.40 | 225266.17 | 30 | | SV,VT3,VX+VWT | | 0B000082 |
| 22* | 227620.00 | 224677.42 | 60 | RESRCH | LWF(U),VSET3-C.32 | | 0B000083 |
| 23* | 227620.40 | 230362.40 | E0 | | ST(U),RVSET3 | | 0B000083 |
| 24* | 227621.00 | 230363.42 | 60 | | LWF(U),RKSUB | | 0B000084 |
| 25* | 227621.40 | 224677.00 | 80 | 040060.20 | DC | ST(BU,32),VSET3-C.32,-32 | 0B000085 |
| 26* | 227622.40 | 000000.62 | 33 | | LV,VT5,VX1(VU) | | 0B000086 |
| 27* | 227623.00 | 000042.23 | 04 | | KVI,VT5,34.0 | | 0B000086 |
| 28* | 227623.40 | 227625.33 | 42 | | BXH,\$+1.32 | | 0B000086 |
| 29* | 227624.00 | 000000.00 | 81 | | SIC,(VP) | | 0B000087 |
| 30* | 227624.40 | 224456.43 | 48 | | CB+,VP,VNXT | | 0B000087 |
| 31* | 227625.00 | 225266.07 | 01 | | LVI,VU,VWT | | 0B000088 |
| 32* | 227625.40 | 000000.15 | 01 | | LVI,VT2,C.0 | | 0B000088 |
| 33* | 227626.00 | 000000.23 | 01 | | LVI,VT5,C.0 | | 0B000088 |
| 34* | 227626.40 | 000026.22 | B0 | RLCOPE | V+,VT5,VT2 | | 0B000089 |
| 35* | 227627.00 | 000000.00 | 81 | | SIC,(VP) | | 0B000090 |
| 36* | 227627.40 | 224671.50 | C0 | | B,VSETX | | 0B000090 |
| 37* | 227630.00 | 000000.15 | 05 | | V+I,VT2,0.0 | | 0B000091 |
| 38* | 227630.40 | 227626.71 | C2 | | BXVGZ,RLCOPE | | 0B000091 |
| 39* | 227631.00 * | 230362.42 | 60 | | LWF(U),RVSET3 | | 0B000092 |
| 40* | 227631.40 | 224677.40 | E0 | | ST(U),VSET3-C.32 | | 0B000092 |
| 41* | 227632.00 | 225274.62 | B0 | | V+,VT5,VRQB+VWT | | 0B000093 |
| 42* | 227632.40 | 225274.43 | 70 | | SR,VP,VRQB+VWT | | 0B000093 |
| 43* | 227633.00 | 230372.42 | 60 | | LWF(U),RENXSC | | 0B000094 |
| 44* | 227633.40 | 224324.40 | 80 | 040060.20 | DC | ST(BU,32),VWQ,-32 | 0B000095 |
| 45* | 227634.40 | 227637.23 | D0 | RK7777 | SVA,VT5,RVT5SV | | 0B000096 |
| 46* | 227635.00 | 225266.22 | B0 | | V+,VT5,VX+VWT | | 0B000097 |
| 47* | 227635.40 | 227636.70 | C2 | | BXVLZ,\$.64 | | 0B000098 |
| 48* | 227636.00 | 000042.23 | CD | | V-I,VT5,34.0 | | 0B000099 |
| 49* | 227636.40 | 225266.23 | 30 | | SV,VT5,VX+VWT | | 0B000100 |
| 50* | 227637.00 | 227637.23 | 01 | RVT5SV | LVI,VT5,\$ | | 0B000101 |
| 51* | 227637.40 | 225232.07 | 01 | | LVI,VU,VCR | | 0B000102 |
| 52* | 227640.00 | 000000.00 | 81 | | SIC,(VP) | | 0B000103 |
| 53* | 227640.40 | 224702.10 | C0 | | B,VCOM | | 0B000103 |
| 54* | 227641.00 | 225266.07 | C1 | | LVI,VU,VWT | | 0B000104 |
| 55* | 227641.40 | 000000.23 | 01 | | LVI,VT5,C.0 | | 0B000104 |
| 56* | 227642.00 | 230265.30 | 00 | RKCRWT | NCP,RSAM1 | | 0B000105 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 227642 |
|------|-------------|------------|--------|-----------|------------------|--------------------------|----------|
| 1* | 227642.40 | 777777.03 | C9 | | CB-,VP,-1.(VP) | | OB000106 |
| 2* | 227643.00 | 000004.00+ | | RETRY | VF,RKC+1.C | | OB000107 |
| 3* | 227643.40 | 000004.00+ | | RWTRY | VF,RKC+1.C | | OB000108 |
| 4* | | | | | CNOP | | OB000109 |
| 5* | 227644.00 * | 000001.00 | | | DRZ(BU,32),2 | | OB000110 |
| 6* | 227645.00 | 225266.00 | 00 | | BE,VWT | | OB000111 |
| 7* | 227645.40 | 225266.00 | C0 | | BE,VWT | | OB000112 |
| 8* | 227646.00 * | 000002.00 | | RWEXIT | DRZ(BU,32),4 | | OB000113 |
| 9* | 227650.00 | 230363.40 | 80 | | SIC,RKSBRC | | OB000114 |
| 10* | 227650.40 | 227524.50 | 00 | | B,RKSUK | | OB000114 |
| 11* | 227651.00 | 227645.33 | 01 | | LVI,\$13,\$-4.0 | | OB000115 |
| 12* | 227651.40 | 227651.50 | C0 | | B,\$ | | OB000115 |
| 13* | 227652.00 | 227645.33 | C1 | | LVI,\$13,\$-5.0 | | OB000116 |
| 14* | 227652.40 | 227652.50 | 00 | | B,\$ | | OB000116 |
| 15* | 227653.00 | 227645.33 | 01 | | LVI,\$13,\$-6.0 | | OB000117 |
| 16* | 227653.40 | 227653.50 | C0 | | B,\$ | | OB000117 |
| 17* | 227654.00 | 000032.36 | 30 | RKSCNN | LV,\$15,VS1 | | OB000118 |
| 18* | 227654.40 | 224247.76 | 80 | 227664.34 | 02 | BB,VSC7B.30,RKSOK | OB000118 |
| 19* | 227655.40 | 420000.00 | 80 | 414032.20 | 50 | LI(BU,12),(8)420000.C,52 | OB000119 |
| 20* | 227656.40 | 000000.00 | 8F | 000000.20 | 00 | ST(BU,64),(\$15) | OB000120 |
| 21* | 227657.40 | 224241.00 | 80 | 060000.20 | 50 | L(BU,48),RJOB | OB000121 |
| 22* | 227660.40 | 000001.54 | 8F | 060000.20 | 00 | ST(BU,48),1.44(\$15) | OB000122 |
| 23* | 227661.40 | 000374.37 | C2 | | LCI,\$15,252.0 | | OB000123 |
| 24* | 227662.00 | 000002.37 | C5 | | V+I,15,2.0 | | OB000124 |
| 25* | 227662.40 | 000001.22 | CF | RKZERO | Z,1.0(\$15) | | OB000125 |
| 26* | 227663.00 * | 227662.77 | 48 | | CB+,\$15,\$-.32 | | OB000126 |
| 27* | 227663.40 | 224671.43 | C8 | RKSCRT | CB-,VP,VSETX | | OB000127 |
| 28* | 227664.00 | 000007.14 | 33 | RKSCK | LV,VT2,VRCNT(VU) | | OB000128 |
| 29* | 227664.40 | 000001.15 | 04 | | KVI,VT2,1.0 | | OB000128 |
| 30* | 227665.00 | 227655.72 | C2 | | BXE,RKSCNN+1.32 | | OB000129 |
| 31* | 227665.40 | 230364.75 | 80 | 001000.36 | FC | CM1111(BU,1),REJJCB.61 | OB000130 |
| 32* | 227666.40 | 000377.37 | C2 | | LCI,\$15,255.0 | | OB000131 |
| 33* | 227667.00 | 000001.37 | 0D | | V-1,\$15,1.0 | | OB000132 |
| 34* | 227667.40 | 227662.50 | 00 | | B,RKZERC | | OB000133 |
| 35* | 227670.00 | 000000.00+ | | RKBITL | VF,C | | OB000134 |
| 36* | 227670.40 | 000000.00+ | | RKSBIT | VF,C | | OB000135 |
| 37* | 227670.41+ | +00000000 | | B ,31 ,01 | RKSRTB | SYN,RKSBIT.C1 | OB000136 |
| 38* | 227671.00 | 000000.00+ | | RKRTBL | VF,C | | OB000137 |
| 39* | 227671.40 | 230000.30 | 30 | RTEPBS | LV,\$12,RBSP3X | | OB000138 |
| 40* | 227672.00 | 227672.71 | 00 | | SVA,\$12,\$.32 | | OB000139 |
| 41* | 227672.40 | 227672.71 | 09 | | LVNI,\$12,\$ | | OB000140 |
| 42* | 227673.00 | 000004.31 | 05 | | V+I,\$12,4.0 | | OB000141 |
| 43* | 227673.40 | 227720.50 | 00 | | B,RYSET.32 | | OB000142 |
| 44* | 227674.00 | 225427.02 | 10 | RTEE | LX,VP,VPD | | OB000143 |
| 45* | 227674.40 | 225312.07 | 04 | | KVI,VU,VST | | OB000144 |
| 46* | 227675.00 | 227747.32 | C2 | | BXE,RKSTAP | | OB000144 |
| 47* | 227675.40 | 225330.37 | 80 | | LVE,\$15,VRT-1.0 | | OB000145 |
| 48* | 227676.00 | 224570.37 | 04 | | KVI,\$15,VSREQ | | OB000146 |
| 49* | 227676.40 * | 227735.72 | C2 | | BXE,RTREST+1.C | | OB000146 |
| 50* | 227677.00 | 225346.07 | 01 | | LVI,VU,VQ | | OB000147 |
| 51* | 227677.40 | 227742.23 | C9 | | LVNI,VT5,RTDOWN | | OB000147 |
| 52* | 227700.00 | 000000.00 | 81 | | SIC,(VP) | | OB000148 |
| 53* | 227700.40 | 224702.10 | 00 | | B,VCCM | | OB000148 |
| 54* | 227701.00 | 224457.23 | C9 | | LVNI,VT5,VQEND | | OB000149 |
| 55* | 227701.40 | 000000.00 | 81 | | SIC,(VP) | | OB000149 |
| 56* | 227702.00 | 224702.10 | 00 | | B,VCCM | | OB000149 |

| LINE | LOCATION | BINARY OUTPUT | NAME | STATEMENT | LOCATION | 227702 |
|------|-------------|---------------|--------|----------------------|----------|----------|
| 1* | 227702.40 | 000000.57 07 | | V+ICR,VT3,.VF | | OB000150 |
| 2* | 227703.00 | 000001.17 13 | | SX,VT3,VX2S(VU) | | OB000150 |
| 3* | 227703.40 | 225331.07 01 | | LVI,VU,VRT | | OB000151 |
| 4* | 227704.00 | 227770.37 80 | | LVE,\$15,RDREXT-1.C | | OB000152 |
| 5* | 227704.40 | 000040.10 00 | | B,DMCP | | OB000153 |
| 6* | 227705.00 | CCC014.00+ | | VF,DCHFX | | OB000153 |
| 7* | 227705.40 | 000006.01 83 | | LVE,,VSU(VU) | | OB000153 |
| 8* | 227706.00 | 000000.00 0F | | BE,(\$15) | | OB000153 |
| 9* | 227706.40 | 225340.03 70 | | SR,VP,VRCNT+VRT | | OB000154 |
| 10* | 227707.00 | 224422.10 00 | | B,VRTIC1 | | OB000154 |
| 11* | 227707.40 | CCCC04.31 01 | RYNCGD | LVI,12,RKB+1.0 | | OB000155 |
| 12* | 227710.00 | 227777.31 00 | | SVA,12,RTTRY | | OB000155 |
| 13* | 227710.40 | 227777.76 50 | | LC,\$15,RTSP3X | | OB000156 |
| 14* | 227711.00 | 227743.36 4A | | CBZ,\$15,RTNCTR | | OB000156 |
| 15* | 227711.40 | 227777.77 50 | | SC,\$15,RTSP3X | | OB000157 |
| 16* | 227712.00 * | 227671.71 01 | | LVI,\$12,RTEPBS | | OB000158 |
| 17* | 227712.40 | 230001.71 00 | | SVA,\$12,RSREPK | | OB000158 |
| 18* | 227713.00 | 230000.36 50 | RYHERE | LC,\$15,RBSP3X | | OB000159 |
| 19* | 227713.40 | 227720.36 4A | | CBZ,\$15,RYSET | | OB000159 |
| 20* | 227714.00 | 230000.37 50 | | SC,\$15,RBSP3X | | OB000160 |
| 21* | 227714.40 | 227713.31 01 | | LVI,\$12,RYHERE | | OB000160 |
| 22* | 227715.00 | 227774.74 00 | | SVA,\$12,RDREXT+3.32 | | OB000160 |
| 23* | 227715.40 | 000040.10 00 | RYBSP | B,DMCP | | OB000161 |
| 24* | 227716.00 | 000006.00 80 | | ,DBSP | | OB000161 |
| 25* | 227716.40 | 000006.01 83 | | LVE,,VSU(VU) | | OB000161 |
| 26* | 227717.00 | 227776.71 00 | RYWAIT | SVA,\$12,RDREXT+5.32 | | OB000162 |
| 27* | 227717.40 | 230215.50 00 | | B,RWAIT | | OB000163 |
| 28* | 227720.00 | 000004.31 01 | RYSET | LVI,\$12,4.0 | | OB000164 |
| 29* | 227720.40 | 230000.31 00 | | SVA,\$12,RBSP3X | | OB000164 |
| 30* | 227721.00 | 230355.27 01 | | LVI,\$11,RKSCON | | OB000165 |
| 31* | 227721.40 | 230001.67 00 | | SVA,\$11,RSREPK | | OB000165 |
| 32* | 227722.00 | 230000.36 50 | RYTHAR | LC,\$15,RBSP3X | | OB000166 |
| 33* | 227722.40 | 227722.31 01 | | LVI,\$12,RYTHAR | | OB000167 |
| 34* | 227723.00 | 227774.71 00 | | SVA,\$12,RDREXT+3.32 | | OB000167 |
| 35* | 227723.40 | 227726.76 4A | | CBZ,\$15,RYSEET | | OB000168 |
| 36* | 227724.00 | 230000.37 50 | | SC,\$15,RBSP3X | | OB000169 |
| 37* | 227724.40 | 000040.10 00 | | B,DMCP | | OB000170 |
| 38* | 227725.00 | 000005.40 80 | | ,DSP | | OB000170 |
| 39* | 227725.40 * | 000006.01 83 | | LVE,,VSU(VU) | | OB000170 |
| 40* | 227726.00 | 227717.10 00 | | B,RYWAIT | | OB000171 |
| 41* | 227726.40 | 000005.31 01 | RYSEET | LVI,\$12,5.0 | | OB000172 |
| 42* | 227727.00 | 230000.31 00 | | SVA,\$12,RBSP3X | | OB000172 |
| 43* | 227727.40 | 227770.30 30 | RTBSP | LV,\$12,RDREXT-1.C | | OB000173 |
| 44* | 227730.00 | 000000.71 8C | | LVE,\$12,.32(\$12) | | OB000173 |
| 45* | 227730.40 | 000001.71 8C | | LVE,\$12,1.32(\$12) | | OB000174 |
| 46* | 227731.00 | 000040.10 00 | | B,DMCP | | OB000175 |
| 47* | 227731.40 | 000001.00 80 | | ,DRD | | OB000175 |
| 48* | 227732.00 | 000006.01 83 | | LVE,,VSU(VU) | | OB000175 |
| 49* | 227732.40 | 000000.00 8C | | ,(\$12) | | OB000175 |

| LINE | LOCATIONN | BINARY | OUTPUT | NAME | STATEMENT | LOCATIONN | 227733 |
|------|-----------|-------------|--------|--------------|------------------------|-----------|----------|
| 1* | 227733.00 | 227734.71 | C1 | | LVI,\$12,RTREST | | OB000177 |
| 2* | 227733.40 | 227774.71 | D0 | | SVA,\$12,RDREXT+3.32 | | OB000177 |
| 3* | 227734.00 | 227717.10 | 00 | | B,RYWAIT | | OB000178 |
| 4* | 227734.40 | CCCC04.31 | C1 | RTREST | LVI,\$12,RKB+1.0 | | OB000179 |
| 5* | 227735.00 | 227777.31 | D0 | | SVA,\$12,RTTRY | | OB000179 |
| 6* | 227735.40 | 227770.36 | 30 | | LV,\$15,RDREXT-1.0 | | OB000180 |
| 7* | 227736.00 | 000040.10 | 00 | | B,DMCP | | OB000181 |
| 8* | 227736.40 | CCCC14.00 | 80 | | ,DCHEX | | OB000181 |
| 9* | 227737.00 | CCCC06.01 | B3 | | LVE,,VSU(VU) | | OB000181 |
| 10* | 227737.40 | CCCC00.00 | 8F | | ,(\$15) | | OB000181 |
| 11* | 227740.00 | 227772.13 | 80 | 227741.74 02 | BB,RDREXT+1.11,\$+1.32 | | OB000182 |
| 12* | 227741.00 | * CCCC05.10 | CF | | B,5.0(\$15) | | OB000183 |
| 13* | 227741.40 | 000003.10 | 0F | | B,3.0(\$15) | | OB000184 |
| 14* | 227742.00 | 777777.37 | B1 | RTDOWN | LVE,\$15,-1.0(VP) | | OB000185 |
| 15* | 227742.40 | 230123.10 | 00 | | B,RK100C | | OB000186 |
| 16* | 227743.00 | CCCC04.31 | 01 | RTNCTR | LVI,\$12,RKH+1.0 | | OB000187 |
| 17* | 227743.40 | 227777.71 | D0 | | SVA,\$12,RTSP3X | | OB000187 |
| 18* | 227744.00 | 227674.37 | 01 | | LVI,\$15,RTEE | | OB000188 |
| 19* | 227744.40 | 227774.77 | D0 | | SVA,\$15,RDREXT+3.32 | | OB000188 |
| 20* | 227745.00 | C00040.10 | 00 | | B,DMCP | | OB000189 |
| 21* | 227745.40 | C00006.40 | 80 | | ,DSPFL | | OB000189 |
| 22* | 227746.00 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000189 |
| 23* | 227746.40 | 230215.50 | 00 | | B,RWAIT | | OB000190 |
| 24* | 227747.00 | C00040.10 | 00 | RKSTAP | B,DMCP | | OB000191 |
| 25* | 227747.40 | CCCC07.00+ | | | VF,CBSFL | | OB000191 |
| 26* | 227750.00 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000191 |
| 27* | 227750.40 | 227754.37 | 01 | | LVI,\$15,RKSTBS | | OB000192 |
| 28* | 227751.00 | 227774.77 | D0 | | SVA,\$15,RDREXT+3.32 | | OB000192 |
| 29* | 227751.40 | 227654.23 | C9 | | LVNI,VT5,RKSCNN | | OB000193 |
| 30* | 227752.00 | 000000.00 | 81 | | SIC,(VP) | | OB000194 |
| 31* | 227752.40 | 224456.43 | 48 | | CB+,VP,VNXT | | OB000194 |
| 32* | 227753.00 | 225312.07 | 01 | | LVI,VU,VST | | OB000195 |
| 33* | 227753.40 | 230215.50 | C0 | | B,RWAIT | | OB000195 |
| 34* | 227754.00 | 227770.37 | 80 | RKSTBS | LVE,\$15,RDREXT-1.0 | | OB000196 |
| 35* | 227754.40 | * C00040.10 | C0 | | B,DMCP | | OB000197 |
| 36* | 227755.00 | CCCC14.00+ | | | VF,DCHEX | | OB000197 |
| 37* | 227755.40 | C00006.01 | B3 | | LVE,,VSU(VU) | | OB000197 |
| 38* | 227756.00 | C00000.00 | 0F | | BE,(\$15) | | OB000197 |
| 39* | 227756.40 | CCCC05.10 | 0F | | B,5.0(\$15) | | OB000198 |
| 40* | 227757.00 | 225232.07 | C4 | RDUK | KVI,VU,VCR | | OB000199 |
| 41* | 227757.40 | 230013.72 | C2 | | BXE,RDNOTP | | OB000199 |
| 42* | 227760.00 | C00040.10 | 00 | | B,DMCP | | OB000200 |
| 43* | 227760.40 | C00014.00 | 80 | | ,DCHEX | | OB000200 |
| 44* | 227761.00 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000200 |
| 45* | 227761.40 | 227771.00 | 80 | | ,RDREXT | | OB000200 |
| 46* | 227762.00 | C00001.33 | 05 | | V+I,\$13,1.0 | | OB000201 |
| 47* | 227762.40 | 227770.33 | D0 | | SVA,\$13,RDREXT-1.0 | | OB000201 |
| 48* | 227763.00 | 227770.47 | D0 | | SVA,VU,RDREXT-.32 | | OB000202 |
| 49* | 227763.40 | C00001.14 | 8D | 230415.74 00 | BZB,1.12(\$13),RPQUES | | OB000203 |
| 50* | 227764.40 | 227777.36 | 50 | RUK | LC,\$15,RTTRY | | OB000204 |

| LINE | LOCATION | BINARY | OUTPUT | NAME | STATEMENT | LOCATION | 227765 |
|------|-----------|-------------|--------|-----------|----------------------|-------------------------|----------|
| 1* | 227765.00 | 227707.76 | 4A | | CBZ,\$15,RYNOGD | | 0B000206 |
| 2* | 227765.40 | 227777.37 | 50 | | SC,\$15,RTTRY | | 0B000207 |
| 3* | 227766.00 | 227727.71 | 01 | | LVI,\$12,RTBSP | | 0B000208 |
| 4* | 227766.40 | 227774.71 | 00 | | SVA,\$12,RDREXT+3.32 | | 0B000208 |
| 5* | 227767.00 | 227715.50 | 00 | | B,RYBSP | | 0B000209 |
| 6* | 227767.40 | 000000.30 | 00 | | CNCP,C | | 0B000210 |
| 7* | 227770.00 | * 225331.00 | 00 | | BE,VRT | | 0B000210 |
| 8* | 227770.40 | 225331.00 | 00 | | BE,VRT | | 0B000210 |
| 9* | 227771.00 | * 000002.00 | | RDREXT | DRZ(BU,32),4 | | 0B000211 |
| 10* | 227773.00 | 227770.46 | 30 | | LV,VU,RDREXT-.32 | | 0B000212 |
| 11* | 227773.40 | 230000.50 | 00 | | B,RUKSRT | | 0B000212 |
| 12* | 227774.00 | 227770.46 | 30 | | LV,VU,RDREXT-.32 | | 0B000213 |
| 13* | 227774.40 | 227774.50 | 00 | | B,\$ | | 0B000213 |
| 14* | 227775.00 | 227770.46 | 30 | | LV,VU,RDREXT-.32 | | 0B000214 |
| 15* | 227775.40 | 227775.50 | 00 | | B,\$ | | 0B000214 |
| 16* | 227776.00 | 227770.46 | 30 | | LV,VU,RDREXT-.32 | | 0B000215 |
| 17* | 227776.40 | 227776.50 | 00 | | B,\$ | | 0B000215 |
| 18* | 227777.00 | 000004 | | RTTRY | CF,RKB+1.0 | | 0B000216 |
| 19* | 227777.40 | 000004 | | RTSP3X | CF,RKH+1.0 | | 0B000217 |
| 20* | 230000.00 | 000005 | | RBSP3X | CF,5.0 | | 0B000218 |
| 21* | 230000.40 | 227772.11 | 80 | 230002.34 | 00 RUKSRT | BZB,RDREXT+1.09,\$+1.32 | 0B000219 |
| 22* | 230001.40 | 230355.10 | 00 | | RSREPK | B,RKSCCN | 0B000220 |
| 23* | 230002.00 | 227772.14 | 80 | 230415.74 | 00 | BZB,RDREXT+1.12,RPQLES | 0B000221 |
| 24* | 230003.00 | 227771.76 | 30 | | LV,\$15,RDREXT.32 | | 0B000222 |
| 25* | 230003.40 | 000000.77 | BF | | LVE,\$15,.32(\$15) | | 0B000223 |
| 26* | 230004.00 | 000001.37 | 04 | | KVI,\$15,DRD | | 0B000224 |
| 27* | 230004.40 | 227764.72 | C2 | | BXE,RUK | | 0B000224 |
| 28* | 230005.00 | 227770.33 | 01 | | LVI,\$13,RDREXT-1.0 | | 0B000225 |
| 29* | 230005.40 | 230205.50 | 00 | | B,RPUK | | 0B000226 |
| 30* | 230006.00 | * 230364.76 | 80 | 230013.34 | 02 | BB,REJJCB.62,RDSWBR | 0B000227 |
| 31* | 230007.00 | 000040.10 | 00 | | RDSWTC | B,DMCP | 0B000228 |
| 32* | 230007.40 | 000014.00+ | | | | VF,DCHEX | 0B000228 |
| 33* | 230010.00 | 000006.01 | 83 | | | LVE,,VSU(VU) | 0B000228 |
| 34* | 230010.40 | 000000.00 | 8F | | | ,(\$15) | 0B000228 |
| 35* | 230011.00 | 000001.33 | 05 | | | V+I,\$13,1.0 | 0B000229 |
| 36* | 230011.40 | 777777.33 | DF | | | SVA,\$13,-1.0(\$15) | 0B000229 |
| 37* | 230012.00 | 777777.47 | DF | | | SVA,VU,-0.32(\$15) | 0B000230 |
| 38* | 230012.40 | 000001.33 | 0D | | | V-I,\$13,1.0 | 0B000230 |
| 39* | 230013.00 | 230013.10 | 00 | | RDSWBR | B,\$ | 0B000231 |
| 40* | 230013.40 | 230166.30 | 30 | | RDNCTP | LV,\$12,RCJAM | 0B000232 |
| 41* | 230014.00 | 230166.70 | 80 | | | V+,\$12,RCOUNT | 0B000232 |
| 42* | 230014.40 | 230175.37 | 01 | | | LVI,\$15,RCREXT | 0B000233 |
| 43* | 230015.00 | 000004.31 | 04 | | | KVI,\$12,RKF+1.0 | 0B000233 |
| 44* | 230015.40 | 230013.00 | 80 | | | SIC,RDSWBR | 0B000234 |
| 45* | 230016.00 | 230006.32 | C2 | | | BXE,RDSWTC-1.0 | 0B000234 |
| 46* | 230016.40 | 000040.10 | 00 | | | B,DMCP | 0B000235 |
| 47* | 230017.00 | 000002.00+ | | | | VF,CCCW | 0B000235 |
| 48* | 230017.40 | 000006.01 | 83 | | | LVE,,VSU(VU) | 0B000235 |
| 49* | 230020.00 | 230373.00+ | | | | VF,RDCCW | 0B000235 |
| 50* | 230020.40 | 000002.14 | 8D | 230032.34 | 00 | BZB,2.12(\$13),RCENT1 | 0B000236 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 230021 |
|------|-------------|------------|--------|---------------------|---------------------------|----------|----------|
| 1* | 230021.40 * | 230373.36 | 30 | | LV,\$15,RDCCW | | 0B000238 |
| 2* | 230022.00 | 000017.37 | 0D | | V-I,\$15,15.0 | | 0B000238 |
| 3* | 230022.40 | 230167.36 | 90 | | KV,\$15,RCWSAV | | 0B000239 |
| 4* | 230023.00 | 230034.32 | 02 | | BXE,RCWEQU | | 0B000239 |
| 5* | 230023.40 | 230373.36 | 10 | | LX,\$15,RDCCW | | 0B000240 |
| 6* | 230024.00 | 000003.35 | 01 | | LVI,\$14,RKF | | 0B000240 |
| 7* | 230024.40 | 000017.37 | 00 | | C+I,\$15,15.0 | | 0B000241 |
| 8* | 230025.00 | 230166.75 | 0D | | SVA,\$14,RCOUNT | | 0B000241 |
| 9* | 230025.40 | 000017.37 | 0D | | V-I,\$15,15.0 | | 0B000242 |
| 10* | 230026.00 | 230167.37 | 10 | RCSAV | SX,\$15,RCWSAV | | 0B000243 |
| 11* | 230026.40 | 230073.75 | 01 | RCSET | LVI,\$14,RCSCS | | 0B000244 |
| 12* | 230027.00 | 230201.75 | 0C | | SVA,\$14,RCREXT+4.32 | | 0B000244 |
| 13* | 230027.40 | 000040.10 | 00 | | B,DMCP | | 0B000245 |
| 14* | 230030.00 | 000043.40+ | | | VF,DCOMM | | 0B000245 |
| 15* | 230030.40 | 230170.00+ | | | VF,RCMSGE | | 0B000245 |
| 16* | 230031.00 | 000004.00+ | | | VF,4.0 | | 0B000245 |
| 17* | 230031.40 | 230104.00 | 00 | | BE,REIN | | 0B000246 |
| 18* | 230032.00 | 230166.00 | 80 | 031100.12 BC RCENT1 | M-1,RCJAM | | 0B000247 |
| 19* | 230033.00 | 230373.36 | 10 | | LX,\$15,RDCCW | | 0B000248 |
| 20* | 230033.40 | 230026.10 | 00 | | B,RCSAV | | 0B000249 |
| 21* | 230034.00 | 230166.74 | 50 | RCWEQU | LC,\$14,RCOUNT | | 0B000250 |
| 22* | 230034.40 | 230037.74 | 4A | | CBZ,\$14,RCUKNG | | 0B000250 |
| 23* | 230035.00 * | 230166.75 | 50 | | SC,\$14,RCOUNT | | 0B000251 |
| 24* | 230035.40 | 230026.50 | 00 | | B,RCSET | | 0B000252 |
| 25* | 230036.00 | 000000.15 | 01 | RC34RD | LVI,VT2,0.0 | | 0B000253 |
| 26* | 230036.40 | 000042.23 | 01 | | LVI,VT5,34.0 | | 0B000253 |
| 27* | 230037.00 | 230043.10 | 00 | | B,RCBCK | | 0B000254 |
| 28* | 230037.40 | 225427.02 | 10 | RCUKNG | LX,VP,VPD | | 0B000255 |
| 29* | 230040.00 | 000004.35 | 01 | | LVI,\$14,RKF+1.0 | | 0B000255 |
| 30* | 230040.40 | 230166.75 | 0D | | SVA,\$14,RCOUNT | | 0B000255 |
| 31* | 230041.00 | 000000.00 | 81 | | SIC,(VP) | | 0B000256 |
| 32* | 230041.40 | 224633.50 | 00 | | B,VEE | | 0B000256 |
| 33* | 230042.00 | 000000.23 | 05 | | V+I,VT5,0 | | 0B000257 |
| 34* | 230042.40 | 230036.31 | 42 | | BXVZ,RC34RD | | 0B000257 |
| 35* | 230043.00 | 230364.76 | 80 | 230057.74 CE RCBCK | BB1,REJJCB.62,RCUFUL | | 0B000258 |
| 36* | 230044.00 | 777761.42 | 6F | | LWF(U),-15.0(\$15) | | 0B000259 |
| 37* | 230044.40 | 420000.00 | 80 | 414072.21 10 | KI(BU,12),(8)420000.C,-12 | | 0B000260 |
| 38* | 230045.40 | 230066.76 | 02 | | BAE,RCUTDN | | 0B000261 |
| 39* | 230046.00 | 230373.32 | 10 | | LX,\$13,RDCCW | | 0B000262 |
| 40* | 230046.40 | 230064.70 | 42 | | BXCZ,RCETJM | | 0B000262 |
| 41* | 230047.00 | 000017.33 | 08 | | C-I,\$13,15.0 | | 0B000263 |
| 42* | 230047.40 | 000017.33 | 05 | | V+I,\$13,15.0 | | 0B000263 |
| 43* | 230050.00 | 230373.33 | 10 | | SX,\$13,RDCCW | | 0B000263 |
| 44* | 230050.40 * | 000000.55 | 03 | RCSETP | SVA,VT2,VX1(VU) | | 0B000264 |
| 45* | 230051.00 | 230304.35 | 01 | | LVI,\$14,RKTRY | | 0B000265 |
| 46* | 230051.40 | 230202.75 | 0D | | SVA,\$14,RCREXT+5.32 | | 0B000265 |
| 47* | 230052.00 | 230303.35 | 01 | | LVI,\$14,RKTRYE | | 0B000266 |
| 48* | 230052.40 | 230200.75 | 0D | | SVA,\$14,RCREXT+3.32 | | 0B000266 |
| 49* | 230053.00 | 230373.32 | 10 | | LX,\$13,RDCCW | | 0B000267 |
| 50* | 230053.40 | 000017.33 | 0D | | V-I,\$13,15.0 | | 0B000268 |
| 51* | 230054.00 | 000017.33 | 00 | | C+I,\$13,15.0 | | 0B000268 |

| LINE | LOCATION | BINARY | CUTPUT | NAME | STATEMENT | LOCATION | 230054 |
|------|-------------|------------|--------|--------------|---------------------|----------|----------|
| 1* | 230054.40 | 230373.33 | 10 | | SX,\$13,RDCCW | | OB000270 |
| 2* | 230055.00 | 000040.10 | 00 | | B,DMCP | | OB000271 |
| 3* | 230055.40 | 000001.00+ | | | VF,DRD | | OB000271 |
| 4* | 230056.00 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000271 |
| 5* | 230056.40 | 230373.00+ | | | VF,RDCCW | | OB000271 |
| 6* | 230057.00 | 000005.10 | 03 | | B,VNX(VU) | | OB000272 |
| 7* | 230057.40 | 000001.23 | 04 | RCUFUL | KVI,VT5,1.0 | | OB000273 |
| 8* | 230060.00 | 230066.72 | C2 | | BXE,RCUTDN | | OB000273 |
| 9* | 230060.40 | 230063.23 | D0 | | SVA,VT5,RT5 | | OB000274 |
| 10* | 230061.00 | 225250.07 | 01 | | LVI,VU,VSC | | OB000275 |
| 11* | 230061.40 | 230112.23 | 09 | | LVNI,VT5,RCREJB | | OB000275 |
| 12* | 230062.00 | 000000.00 | 81 | | SIC,(VP) | | OB000276 |
| 13* | 230062.40 | 224702.10 | 00 | | B,VCOM | | OB000276 |
| 14* | 230063.00 | 230063.23 | 01 | RT5 | LVI,VT5,\$ | | OB000277 |
| 15* | 230063.40 | 225232.07 | 01 | | LVI,VU,VCR | | OB000277 |
| 16* | 230064.00 * | 230044.10 | 00 | | B,RCBCK+1.0 | | OB000277 |
| 17* | 230064.40 | 230166.03 | 70 | RCETJM | SR,VP,RCJAM | | OB000278 |
| 18* | 230065.00 | 000000.00 | 81 | | SIC,(VP) | | OB000279 |
| 19* | 230065.40 | 224655.03 | 48 | | CB+,VP,VACT | | OB000279 |
| 20* | 230066.00 | 000005.10 | 03 | | B,VNX(VU) | | OB000280 |
| 21* | 230066.40 | 000001.23 | 0D | RCUTDN | V-I,VT5,1.0 | | OB000281 |
| 22* | 230067.00 | 000001.15 | 05 | | V+I,VT2,1.0 | | OB000281 |
| 23* | 230067.40 | 000000.16 | 33 | | LV,VT3,VX(VU) | | OB000282 |
| 24* | 230070.00 | 000001.17 | 0D | | V-I,VT3,1.0 | | OB000282 |
| 25* | 230070.40 | 000000.17 | 33 | | SV,VT3,VX(VU) | | OB000283 |
| 26* | 230071.00 | 000043.17 | 0C | | KVNI,VT3,35.0 | | OB000283 |
| 27* | 230071.40 | 230050.72 | C0 | | BZXE,RCSETP | | OB000283 |
| 28* | 230072.00 | 000001.17 | 09 | | LVNI,VT3,1.0 | | OB000284 |
| 29* | 230072.40 | 000000.17 | 33 | | SV,VT3,VX(VU) | | OB000284 |
| 30* | 230073.00 | 230050.50 | 00 | | B,RCSETP | | OB000284 |
| 31* | 230073.40 | 000000.46 | 3D | RCSCS | LV,VU,0.32(\$13) | | OB000285 |
| 32* | 230074.00 | 230104.31 | 01 | | LVI,\$12,RETN | | OB000285 |
| 33* | 230074.40 | 000040.10 | 00 | | B,DMCP | | OB000286 |
| 34* | 230075.00 | 000002.00 | 80 | | ,DCCW | | OB000286 |
| 35* | 230075.40 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000286 |
| 36* | 230076.00 | 230111.00 | 80 | | ,RRCCW | | OB000286 |
| 37* | 230076.40 | 230111.22 | 80 | 230104.74 00 | BZB,RRCCW.18,REOF | | OB000287 |
| 38* | 230077.40 * | 000005.71 | DD | | SVA,\$12,5.32(\$13) | | OB000288 |
| 39* | 230100.00 | 230303.31 | 01 | | LVI,\$12,RKTRYE | | OB000288 |
| 40* | 230100.40 | 000004.71 | DD | | SVA,\$12,4.32(\$13) | | OB000289 |
| 41* | 230101.00 | 230304.37 | 01 | | LVI,\$15,RKTRY | | OB000289 |
| 42* | 230101.40 | 000040.10 | 00 | | B,DMCP | | OB000290 |
| 43* | 230102.00 | 000001.00+ | | | VF,DRD | | OB000290 |
| 44* | 230102.40 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000290 |
| 45* | 230103.00 | 230167.00+ | | | VF,RCWSAV | | OB000290 |
| 46* | 230103.40 | 000006.77 | DD | RTN | SVA,\$15,6.32(\$13) | | OB000291 |
| 47* | 230104.00 | 224450.50 | 00 | RLTN | B,VRTN | | OB000292 |
| 48* | 230104.40 | 000040.10 | 00 | RECF | B,DMCP | | OB000293 |
| 49* | 230105.00 | 000014.00 | 80 | | ,DCFEX | | OB000293 |
| 50* | 230105.40 | 000006.01 | B3 | | LVE,,VSU(VU) | | OB000293 |
| 51* | 230106.00 | 224115.00 | 80 | | ,VCREXT | | OB000293 |