

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

3 \*\*\*\*\* COPY LOG7A10 \*\*\*\*\* \*\* MAP EC HISTORY \*\*
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37 I7A10 START X'2500' START ADDRESS OF ALL 'I' TYPE PROG
38 @QUES EQU X'0100' EQUATED VALUE FOR MDI STATEMENT
39 @FIXT EQU X'0101' EQUATED VALUE FOR MDI STATEMENT
40 @STOP EQU X'0102' EQUATED VALUE FOR MDI STATEMENT
41 @GOTO EQU X'0200' EQUATED VALUE FOR MDI STATEMENT
42 @CALL EQU X'0201' EQUATED VALUE FOR MDI STATEMENT
43 @INPT EQU X'0300' EQUATED VALUE FOR MDI STATEMENT
44 @QUXX EQU X'0300' EQUATED VALUE FOR MDI STATEMENT
45 @RUXX EQU X'0500' EQUATED VALUE FOR MDI STATEMENT
46 @NVLD EQU X'0600' EQUATED VALUE FOR MDI STATEMENT
47 EQ EQU X'0000' EQUATE FOR EQUAL
48 NE EQU X'0004' EQUATE FOR NOT EQUAL
49 HI EQU X'0008' EQUATE FOR HIGH
50 NH EQU X'000C' EQUATE FOR NOT HIGH
51 LO EQU X'0010' EQUATE FOR LOW
52 NL EQU X'0014' EQUATE FOR NOT LOW
53 LT EQU X'0010' EQUATE FOR LESS THAN
54 LE EQU X'000C' EQUATE FOR LESS THAN OR EQUAL TO
55 GT EQU X'0008' EQUATE FOR GREATER THAN
56 GE EQU X'000E' EQUATE FOR GREATER THAN OR EQUAL TO
57 ON EQU X'0200' EQUATE FOR ON
58 OF EQU X'0202' EQUATE FOR OFF
59 MX EQU X'0204' EQUATE FOR MIXED
60 EBC EQU X'0000' EQUATE FOR EBCDIC DATA TRANSFER
61 HEX EQU X'0001' EQUATE FOR HEX DATA TRANSFER
62 XTRNL EQU X'0001' EQUATE FOR EXTERNAL REFERENCE
63 INTPNL EQU X'0000' EQUATE FOR INTERNAL REFERENCE
64 PARM EQU X'0000' EQUATE INDICATING PARAMETER
65 DA EQU X'0001' EQUATE FOR DEVICE ADDRESS
66 UA EQU X'0002' EQUATE FOR UNIT ADDRESS
67 DUMMY EQU X'0000' DUMMY EQUATE
68 EQU X'0000' ADDRESS OF MDI HEADER
69 EQU \*-X'22CE' ADDRESS OF PROCESSOR TYPE FIELD
70 PTYPE EQU \*-X'0D00' ADDRESS OF DECIMAL STEP NUMBER
71 STEPNUM EQU PID+X'000C' ADDRESS OF OPTION WORD ONE
72 OPWD1 EQU PID+X'000E' ADDRESS OF OPTION WORD TWO
73 OPWD2 EQU PID+X'0010' ADDRESS OF TU STATUS WORD
74 TUSTATUS EQU PID+X'0018' ADDRESS OF TU WORK AREA
75 TWORK EQU PID+X'001A' ADDRESS OF PARM 1 POINTER
76 TUPARM1 EQU PID+X'009A' ADDRESS OF PARM 2 POINTER
77 TUPARM2 EQU PID+X'009C' ADDRESS OF PARM 3 POINTER
78 TUPARM3 EQU PID+X'009E' ADDRESS OF PARM 4 POINTER
79 TUPARM4 EQU PID+X'00A0' ADDRESS OF PARM 5 POINTER
80 TUPARM5 EQU PID+X'00A2' ADDRESS OF PARM 6 POINTER
81 TUPARM6 EQU PID+X'00A4' ADDRESS OF PARM 7 POINTER
82 TUPARM7 EQU PID+X'00A6' ADDRESS OF PARM 8 POINTER
83 TUPARM8 EQU PID+X'00A8' ADDRESS OF PARM 9 POINTER
84 TUPARM9 EQU PID+X'00AA' ADDRESS OF PARM 10 POINTER
85 TUPARM10 EQU PID+X'00AC' ADDRESS OF PARM 11 POINTER
86 TUPARM11 EQU PID+X'00AE' ADDRESS OF PARM 12 POINTER
87 TUPARM12 EQU PID+X'00B0' ADDRESS OF PARM 13 POINTER
88 TUPARM13 EQU PID+X'00B2' ADDRESS OF PARM 14 POINTER
89 TUPARM14 EQU PID+X'00B4' ADDRESS OF PARM 15 POINTER
90 TUPARM15 EQU PID+X'00B6' ADDRESS OF PARM 16 POINTER
91 TUPARM16 EQU PID+X'00B8' ADDRESS OF -> TO COMMON MSG WRITER
92 TUMSGWTR EQU PID+X'00BA' ADDRESS OF UNIT ADDRESS IN EBC
93 TUUA EQU PID+X'00BC' ADDRESS OF DEVICE ADDRESS IN EBC
94 TUDA EQU PID+X'00C0' ADDRESS OF LAST USED WORD IN MAP
95 TUBUFF EQU PID+X'00C2' ADDRESS OF LAST ADDRESSABLE WORD
96 TULAST EQU PID+X'00C4' ADDRESS OF LENGTH OF TU RESULTS
97 TURESULN EQU PID+X'00C6' ADDRESS OF TU RESULTS FIELD
98 TURESUL EQU PID+X'00C8' ADDRESS OF MAP NAME FIELD IN HEX
99 MAPNAME EQU PID+X'00FC' ADDRESS OF SINPT DATA
100 TUINPT EQU PID+X'0148' ADDRESS OF SINPT INPUT AREA
101 PARMARA EQU PID+X'016E' MDI POINTER
102 @DCADD1 EQU PID+X'01B8' MDI POINTER
103 @DCADD2 EQU PID+X'01BA' MDI POINTER
104 SUBSTRT EQU PID+X'01C4' ADDRESS OF MDI STATUS
105 DEVADD EQU PID+X'01D0' ADDRESS OF DEVICE ADDRESS TABLE 0
106 DEVADD1 EQU PID+X'01DA' ADDRESS OF DEVICE ADDRESS TABLE 1
107 DEVADD2 EQU PID+X'01E4' ADDRESS OF DEVICE ADDRESS TABLE 2
108 DEVADD3 EQU PID+X'01EE' ADDRESS OF DEVICE ADDRESS TABLE 3
109 DEVADD4 EQU PID+X'01F8' ADDRESS OF DEVICE ADDRESS TABLE 4
110 DEVADD5 EQU PID+X'0202' ADDRESS OF DEVICE ADDRESS TABLE 5
111 DEVADD6 EQU PID+X'020C' ADDRESS OF DEVICE ADDRESS TABLE 6
112 DEVADD7 EQU PID+X'0216' ADDRESS OF DEVICE ADDRESS TABLE 7
113 PRINT OFF

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

198 \*\*\*\*\* DC A(ENPT) POINT TO MAP ENTRY POINT TABLE \*\*\*\*\*
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Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Contains assembly code for adapter map, including EQU, DC, XL2, and AL2 instructions.

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Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Contains assembly code for adapter map, including EQU, DC, XL2, and AL2 instructions, and a 'RULE INFORMATION TABLE' section.

RULE INFORMATION TABLE

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Contains assembly code for adapter map, including EQU, DC, XL2, and AL2 instructions, and a 'RULE INFORMATION TABLE' section.

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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00277C 0201 764 N00012 SCALL TYPE=XTRNL,MAP=7A16,EP=B,FT=(F00099)
00277E 2F30 765+N00012 DC A(@CALL)
002780 F7C1F1F6 766+ DC A(F00099)
002784 C240 767+ DC CL4'7A16'
002786 0001 768+ DC CL2'B'
002788 0500 769+ DC AL2(XTRNL)
00278A 2786 770 N00013 STUXX T7A18,02,0001,ON,PLNG=17,PARM=0003/40004C0065E5, X
00278C 3A86 771+N00013 DC A(@TUXX)
00278E 0200 772+ DC AL2(N00015)
002790 0002 773+ DC A(T7A18)
002792 0001 774+ DC AL2(ON)
002794 0011 775+ DC AL2(O2)
002796 F0F0F0F361F4F0F0F 776+ DC X'0001'
0027A7 00 777+ ALIGN WORD
0027A8 196E 778+ DC AL2(17)
0027AC 0201 779+ DC C'0003/40004C0065E5'
0027AE 2F30 780+ ALIGN WORD
0027B0 F7C1F1F6 781+ DC AL2(PARMARA)
0027B2 C440 782 N00014 SCALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
0027B4 0001 783+N00014 DC A(@CALL)
0027B6 0500 784+ DC A(F00099)
0027B8 27E4 785+ DC CL4'7A16'
0027BA 3A86 786+ DC CL2'D'
0027BC 0000 787+ DC AL2(XTRNL)
0027BE 0002 788 N00015 STUXX T7A18,02,0101,EQ,PLNG=17,PARM=0003/40016DE565E5, X
0027C0 0101 789+N00015 DC A(@TUXX)
0027C2 0011 790+ DC AL2(N00017)
0027C4 F0F0F0F361F4F0F0F 791+ DC A(T7A18)
0027D5 00 792+ DC AL2(EQ)
0027D6 196E 793+ DC AL2(O2)
0027D8 0201 794+ DC X'0101'
0027DA 2F30 795+ ALIGN WORD
0027DC F7C1F1F6 796+ DC AL2(17)
0027DE C440 797+ DC C'0003/40016DE565E5'
0027E0 0001 798+ ALIGN WORD
0027E2 0500 799+ DC AL2(PARMARA)
0027E4 2826 800 N00016 SCALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
0027E6 3A86 801+N00016 DC A(@CALL)
0027E8 0000 802+ DC A(F00099)
0027EA 0002 803+ DC CL4'7A16'
0027EC 0102 804+ DC CL2'D'
0027EE 0201 805+ DC AL2(XTRNL)
0027F0 0021 806 N00017 STUXX T7A18,02,0102,EQ,PLNG=33,PARM=0007/40016DE54C0065E461E4DX X
0027F2 F0F0F0F761F4F0F0F 807+N00017 DC A(@TUXX)
002813 00 808+ DC AL2(N00019)
002814 196E 809+ DC A(T7A18)
002816 0201 810+ DC AL2(EQ)
002818 2F30 811+ DC AL2(O2)
00281A F7C1F1F6 812+ DC X'0102'
00281C C440 813+ ALIGN WORD
00281E 0001 814+ DC AL2(33)
002820 0500 815+ DC C'0007/40016DE54C0065E461E4D80065E5'
002822 2854 816+ ALIGN WORD
002824 3A86 817+ DC AL2(PARMARA)
002826 0200 818+N00018 SCALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
002828 0002 819+N00018 DC A(@CALL)
00282A 0055 820+ DC A(F00099)
00282C 0015 821+ DC CL4'7A16'
00282E 0015 822+ DC CL2'D'
002830 F0F0F0F461F4F4F5F 823+ DC AL2(XTRNL)
002834 00 824 N00019 STUXX T7A18,02,0055,ON,PLNG=21,PARM=0004/44554000430065E5, X
002836 196E 825+N00019 DC A(@TUXX)
002838 0201 826+ DC AL2(N00021)
00283A 2F30 827+ DC A(T7A18)
00283C F7C1F1F6 828+ DC AL2(ON)
00283E C440 829+ DC AL2(O2)
002840 0001 830+ DC X'0055'
002842 0500 831+ ALIGN WORD
002844 2854 832+ DC AL2(21)
002846 3A86 833+ DC C'0004/44554000430065E5'
002848 0200 834+ ALIGN WORD
00284A F7C1F1F6 835+ DC AL2(PARMARA)
00284C C440 836 N00020 SCALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
00284E 0001 837+N00020 DC A(@CALL)
002850 0500 838+ DC A(F00099)
002852 2854 839+ DC CL4'7A16'
002854 3A86 840+ DC CL2'D'
002856 0200 841+ DC AL2(XTRNL)
002858 0002 842 N00021 STUXX T7A18,02,0055,ON,PLNG=21,PARM=0004/44554000430065E5, X
00285A 0055 843+N00021 DC A(@TUXX)
00285C 0015 844+ DC AL2(N00023)
00285E 0015 845+ DC A(T7A18)
002860 F0F0F0F461F4F4F5F 846+ DC AL2(ON)
002864 00 847+ DC AL2(O2)
002866 196E 848+ DC X'0055'
002868 0201 849+ ALIGN WORD
00286A 2F30 850+ DC AL2(21)
00286C F7C1F1F6 851+ DC C'0004/44554000430065E5'
00286E C440 852+ ALIGN WORD
002870 0001 853+ DC AL2(PARMARA)
002872 0500 854 N00022 SCALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
002874 2854 855+N00022 DC A(@CALL)
002876 3A86 856+ DC A(F00099)
002878 0200 857+ DC CL4'7A16'
00287A 0002 858+ DC CL2'D'
00287C 0055 859+ DC AL2(XTRNL)
00287E 0015 860 N00023 STUXX T7A31,02,0000,ON,PLNG=09,PARM=0001/9ADF,QT=(Q00102), X
002880 28A2 861+N00023 DC A(@TUXX)
002882 3C60 862+ DC AL2(N00025)
002884 0200 863+ DC A(T7A31)
002886 0002 864+ DC AL2(ON)
002888 0000 865+ DC AL2(O2)
00288A 0009 866+ DC X'0000'
00288C F0F0F0F161F9C1C4C 867+ ALIGN WORD
00288E 00 868+ DC AL2(O9)
002890 196E 869+ DC C'0001/9ADF'
002892 0500 870+ ALIGN WORD
002894 28A2 871+ DC AL2(PARMARA)
002896 3C60 872 N00024 $NVLD FT=(F00100)
002898 0200 873+N00024 DC A(@NVLD)
00289A 0002 874 N00025 STUXX T7A55,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102), X
00289C 0000 875+N00025 DC A(@TUXX)
00289E 0500 876+ DC AL2(N00027)
0028A0 0600 877+ DC A(T7A55)

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0028A8 0000 878+ DC AL2(EQ)
0028AA 0002 879+ DC AL2(O2)
0028AC 0703 880+ DC X'0703'
0028AE 0006 881+ ALIGN WORD
0028B0 F4F9F0F9F0F8 882+ DC AL2(O6)
0028B6 196E 883+ DC C'490908'
0028B8 0600 884+ ALIGN WORD
0028BA 0500 885+ DC AL2(PARMARA)
0028BC 38E4 886 N00026 $NVLD FT=(F00100)
0028BE 3A86 887+N00026 DC A(@NVLD)
0028C0 0200 888 N00027 STUXX T7A18,02,0040,ON,PLNG=13,PARM=0002/980065E5,QT=(Q00102), X
0028C2 0002 889+N00027 DC A(@TUXX)
0028C4 0040 890+ DC AL2(N00029)
0028C6 000D 891+ DC A(T7A18)
0028C8 F0F0F0F261F9F8F0F 892+ DC AL2(ON)
0028D5 00 893+ DC AL2(O2)
0028D6 196E 894+ DC X'0040'
0028D8 0201 895+ ALIGN WORD
0028DA 2F30 896+ DC AL2(13)
0028DC F7C1F1F6 897+ DC C'0002/980065E5'
0028DE C440 898+ ALIGN WORD
0028E0 0001 899+ DC AL2(PARMARA)
0028E2 0500 900 N00028 SCALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
0028E4 2906 901+N00028 DC A(@CALL)
0028E6 35CA 902+ DC A(F00099)
0028E8 0200 903+ DC CL4'7A16'
0028EA 0002 904+ DC CL2'D'
0028EC 0700 905+ DC AL2(XTRNL)
0028EE 0500 906 N00029 STUXX T7A55,02,0700,ON,PLNG=6,PARM=4F0000,QT=(Q00102), X
0028F0 0006 907+N00029 DC A(@TUXX)
0028F2 F4C6F0F0F0F0 908+ DC AL2(N00031)
0028F4 196E 909+ DC A(T7A55)
0028F6 0201 910+ DC AL2(ON)
0028F8 2F30 911+ DC AL2(O2)
0028FA 0201 912+ DC X'0700'
0028FC 2F30 913+ ALIGN WORD
0028FE F7C1F1F6 914+ DC AL2(16)
002900 C440 915+ DC C'4F0000'
002902 0001 916+ ALIGN WORD
002904 0500 917+ DC AL2(PARMARA)
002906 2906 918 N00030 SCALL TYPE=XTRNL,MAP=7A16,EP=B,FT=(F00099)
002908 35CA 919+N00030 DC A(@CALL)
00290A 0200 920+ DC A(F00099)
00290C 0002 921+ DC CL4'7A16'
00290E 0700 922+ DC CL2'B'
002910 0006 923+ DC AL2(XTRNL)
002912 F4C4F0F0F0F0 924 N00031 STUXX T7A55,02,0700,ON,PLNG=6,PARM=4D0000,QT=(Q00102), X
002914 196E 925+N00031 DC A(@TUXX)
002916 0201 926+ DC AL2(N00033)
002918 2F30 927+ DC A(T7A55)
00291A 0201 928+ DC AL2(ON)
00291C 2F30 929+ DC AL2(O2)
00291E F7C1F1F6 930+ DC X'0700'
002918 0201 931+ ALIGN WORD
00291A 196E 932+ DC AL2(6)
00291C 0201 933+ DC C'4D0000'
00291E 2F30 934+ ALIGN WORD
002918 0201 935+ DC AL2(PARMARA)
00291A 196E 936 N00032 SCALL TYPE=XTRNL,MAP=7A16,EP=B,FT=(F00099)
00291C 0201 937+N00032 DC A(@CALL)
00291E 2F30 938+ DC A(F00099)
002918 0201 939+ DC CL4'7A16'
00291A 196E 940+ DC CL2'B'
00291C 0201 941+ DC AL2(XTRNL)
00291E 2F30 942 N00033 STUXX T7A30,02,0000,EQ,PLNG=17,PARM=0003/92804400CA40, X
002918 0201 943+N00033 DC A(@TUXX)
00291A 196E 944+ DC AL2(N00035)
00291C 0201 945+ DC A(T7A30)
00291E 2F30 946+ DC AL2(EQ)
002918 0201 947+ DC AL2(O2)
00291A 196E 948+ DC X'0000'
00291C 0201 949+ ALIGN WORD
00291E 2F30 950+ DC AL2(17)
002918 0201 951+ DC C'0003/92804400CA40'
00291A 196E 952+ ALIGN WORD
00291C 0201 953+ DC AL2(PARMARA)
00291E 2F30 954 N00034 $NVLD FT=(F00100)
002918 0201 955+N00034 DC A(@NVLD)
00291A 196E 956 N00035 STUXX T7A31,02,0000,EQ,PLNG=21,PARM=0005/8200E37FEB7F8A00, X
00291C 0201 957+N00035 DC A(@TUXX)
00291E 2F30 958+ DC AL2(N00037)
002918 0201 959+ DC A(T7A31)
00291A 196E 960+ DC AL2(EQ)
00291C 0201 961+ DC AL2(O2)
00291E 2F30 962+ DC X'0000'
002918 0201 963+ ALIGN WORD
00291A 196E 964+ DC AL2(21)
00291C 0201 965+ DC C'0005/8200E37FEB7F8A00'
00291E 2F30 966+ ALIGN WORD
002918 0201 967+ DC AL2(PARMARA)
00291A 196E 968 N00036 $NVLD FT=(F00100)
00291C 0201 969+N00036 DC A(@NVLD)
00291E 2F30 970 N00037 STUXX T7A55,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102), X
002918 0201 971+N00037 DC A(@TUXX)
00291A 196E 972+ DC AL2(N00039)
00291C 0201 973+ DC A(T7A55)
00291E 2F30 974+ DC AL2(EQ)
002918 0201 975+ DC AL2(O2)
00291A 196E 976+ DC X'0703'
00291C 0201 977+ ALIGN WORD
00291E 2F30 978+ DC AL2(O6)
002918 0201 979+ DC C'490908'
00291A 196E 980+ ALIGN WORD
00291C 0201 981+ DC AL2(PARMARA)
00291E 2F30 982 N00038 $NVLD FT=(F00100)
002918 0201 983+N00038 DC A(@NVLD)
00291A 196E 984 N00039 STUXX T7A31,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5, X
00291C 0201 985+N00039 DC A(@TUXX)
00291E 2F30 986+ DC AL2(N00041)
002918 0201 987+ DC A(T7A31)
00291A 196E 988+ DC AL2(EQ)
00291C 0201 989+ DC AL2(O2)
00291E 2F30 990+ DC X'0000'
002918 0201 991+ ALIGN WORD

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002998 0011 992+ DC AL2(17)
00299A F0F0F0F361F8C1F8F 993+ DC C'0003/8A80880065E5'
0029AB 00 994+ ALIGN WORD
0029AC 196E 995+ DC AL2(PARMARA)
          996 N00040 $NVLD FT=(F00100)
          997 N00040 DC A(@NVLD)
          998 N00041 $TUXX T7A33,04,24924924,EQ,PLNG=09,PARM=0001/0075,QT=(Q00102),X
          999 N00041 DC AL2(N00045)
0029B0 0500 1000+ DC A(T7A33)
0029B2 29F6 1001+ DC AL2(EQ)
0029B4 3DD0 1002+ DC AL2(04)
0029B6 0000 1003+ DC X'24924924'
0029B8 0004 1004+ ALIGN WORD
0029BA 24924924 1005+ DC AL2(09)
          1006+ DC C'0001/0075'
0029BE 0009 1007+ ALIGN WORD
0029C0 F0F0F0F161F0F0F7F 1008+ DC AL2(PARMARA)
0029C9 00 1009+ $TUXX T7A02,02,FFFF,EQ,QT=(Q00098),YES=N00044
0029CA 196E 1010 N00042 DC A(@TUXX)
          1011 N00042 DC AL2(N00044)
0029CC 0500 1012+ DC A(T7A30)
0029CE 29EA 1013+ DC AL2(EQ)
0029D0 3062 1014+ DC AL2(02)
0029D2 0000 1015+ DC X'FFFF'
0029D4 0002 1016+ ALIGN WORD
0029D6 FFFF 1017+ DC AL2(0)
          1018+ DC C'AA'
0029D8 0000 1019+ ALIGN WORD
0029DA C1C1 1020+ DC AL2(PARMARA)
          1021+ $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
          1022 N00043 DC A(@CALL)
          1023 N00043 DC A(F00099)
          1024+ DC CL4'7A16'
0029DE 0201 1025+ DC CL2'D'
0029E0 2F30 1026+ DC AL2(XTRNL)
0029E2 F7C1F1F6 1027+ $CALL TYPE=XTRNL,MAP=7A20,EP=A,FT=(F00241)
0029E6 C440 1028 N00044 DC A(@CALL)
0029E8 0001 1029 N00044 DC A(F00241)
          1030+ DC CL4'7A20'
          1031+ DC CL2'A'
          1032+ DC AL2(XTRNL)
0029EA 0201 1033+ $TUXX T7A30,02,0000,EQ,PLNG=17,PARM=0003/92804400CA40,X
0029EC 2FC4 1034 N00045 DC A(@TUXX)
0029EE F7C1F2F0 1035+ DC AL2(N00047)
0029F2 C140 1036+ DC A(T7A30)
0029F4 0001 1037+ DC AL2(EQ)
          1038+ DC AL2(02)
          1039+ DC X'0000'
          1040+ ALIGN WORD
          1041+ DC AL2(17)
          1042+ DC C'0003/92804400CA40'
002A00 0000 1043+ ALIGN WORD
          1044+ DC AL2(PARMARA)
          1045+ $NVLD FT=(F00100)
          1046 N00046 DC A(@NVLD)
          1047 N00046 $TUXX T7A31,02,0000,EQ,PLNG=21,PARM=0004/8203E37FEB7F8A00,X
          1048 N00047 DC A(@TUXX)
          1049+ DC AL2(N00049)
          1050+ DC A(T7A31)
          1051+ DC AL2(EQ)
          1052+ DC AL2(02)
          1053+ DC X'0000'
          1054+ ALIGN WORD
          1055+ DC AL2(21)
          1056+ DC C'0004/8203E37FEB7F8A00'
          1057+ ALIGN WORD
          1058+ DC AL2(PARMARA)
          1059+ $NVLD FT=(F00100)
          1060 N00048 DC A(@NVLD)
          1061 N00048 $TUXX T7A55,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102),X
          1062 N00049 DC A(@TUXX)
          1063 N00049 DC AL2(N00051)
          1064+ DC A(T7A55)
          1065+ DC AL2(EQ)
          1066+ DC AL2(02)
          1067+ DC X'0703'
          1068+ ALIGN WORD
          1069+ DC AL2(06)
          1070+ DC C'490908'
          1071+ ALIGN WORD
          1072+ DC AL2(PARMARA)
          1073+ $NVLD FT=(F00100)
          1074 N00050 DC A(@NVLD)
          1075 N00050 $TUXX T7A31,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5,X
          1076 N00051 DC A(@TUXX)
          1077 N00051 DC AL2(N00053)
          1078+ DC A(T7A31)
          1079+ DC AL2(EQ)
          1080+ DC AL2(02)
          1081+ DC X'0000'
          1082+ ALIGN WORD
          1083+ DC AL2(17)
          1084+ DC C'0003/8A80880065E5'
          1085+ ALIGN WORD
          1086+ DC AL2(PARMARA)
          1087+ $NVLD FT=(F00100)
          1088 N00052 DC A(@NVLD)
          1089 N00052 $TUXX T7A33,04,24924924,EQ,PLNG=09,PARM=0001/0075,QT=(Q00102),X
          1090 N00053 DC A(@TUXX)
          1091 N00053 DC AL2(N00055)
          1092+ DC A(T7A33)
          1093+ DC AL2(EQ)
          1094+ DC AL2(04)
          1095+ DC X'24924924'
          1096+ ALIGN WORD
          1097+ DC AL2(09)
          1098+ DC C'0001/0075'
          1099+ ALIGN WORD
          1100+ DC AL2(PARMARA)
          1101+ $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
          1102 N00054 DC A(@CALL)
          1103 N00054 DC A(F00099)
          1104+ DC CL4'7A16'
          1105+

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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002AA2 C440 1106+ DC CL2'D'
002AA4 0001 1107+ DC AL2(XTRNL)
          1108 N00055 $TUXX T7A30,02,0000,EQ,PLNG=17,PARM=0003/92804400CA40,X
          1109 N00055 DC A(@TUXX)
002AA6 0500 1110+ DC AL2(N00057)
002AA8 2ACA 1111+ DC A(T7A30)
002AA9 3B98 1112+ DC AL2(EQ)
002AAC 0000 1113+ DC AL2(02)
002AAE 0002 1114+ DC X'0000'
002AB0 0000 1115+ ALIGN WORD
          1116+ DC AL2(17)
          1117+ DC C'0003/92804400CA40'
          1118+ ALIGN WORD
          1119+ DC AL2(PARMARA)
          1120 N00056 $NVLD FT=(F00100)
          1121 N00056 DC A(@NVLD)
          1122 N00057 $TUXX T7A31,02,0000,EQ,PLNG=21,PARM=0004/8234E37FEB7F8A00,X
          1123 N00057 DC A(@TUXX)
          1124+ DC AL2(N00059)
          1125+ DC A(T7A31)
          1126+ DC AL2(EQ)
          1127+ DC X'0000'
          1128+ ALIGN WORD
          1129+ DC AL2(21)
          1130+ DC C'0004/8234E37FEB7F8A00'
          1131+ ALIGN WORD
          1132+ DC AL2(PARMARA)
          1133+ $NVLD FT=(F00100)
          1134 N00058 DC A(@NVLD)
          1135 N00058 $TUXX T7A55,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102),X
          1136 N00059 DC A(@TUXX)
          1137 N00059 DC AL2(N00061)
          1138+ DC A(T7A55)
          1139+ DC AL2(EQ)
          1140+ DC AL2(02)
          1141+ DC X'0703'
          1142+ ALIGN WORD
          1143+ DC AL2(06)
          1144+ DC C'490908'
          1145+ ALIGN WORD
          1146+ DC AL2(PARMARA)
          1147+ $NVLD FT=(F00100)
          1148 N00060 DC A(@NVLD)
          1149 N00060 $TUXX T7A31,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5,X
          1150 N00061 DC A(@TUXX)
          1151 N00061 DC AL2(N00063)
          1152+ DC A(T7A31)
          1153+ DC AL2(EQ)
          1154+ DC AL2(02)
          1155+ DC X'0000'
          1156+ ALIGN WORD
          1157+ DC AL2(17)
          1158+ DC C'0003/8A80880065E5'
          1159+ ALIGN WORD
          1160+ DC AL2(PARMARA)
          1161+ $NVLD FT=(F00100)
          1162 N00062 DC A(@NVLD)
          1163 N00062 $TUXX T7A33,06,249249249249,EQ,PLNG=09,PARM=0001/0075,X
          1164 N00063 DC A(@TUXX)
          1165 N00063 DC AL2(N00065)
          1166+ DC A(T7A33)
          1167+ DC AL2(EQ)
          1168+ DC AL2(02)
          1169+ DC X'249249249249'
          1170+ ALIGN WORD
          1171+ DC AL2(09)
          1172+ DC C'0001/0075'
          1173+ ALIGN WORD
          1174+ DC AL2(PARMARA)
          1175+ $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
          1176 N00064 DC A(@CALL)
          1177 N00064 DC A(F00099)
          1178+ DC CL4'7A16'
          1179+ DC CL2'D'
          1180+ DC AL2(XTRNL)
          1181+ $TUXX T7A30,02,0000,EQ,PLNG=17,PARM=0003/92804400CA40,X
          1182 N00065 DC A(@TUXX)
          1183 N00065 DC AL2(N00067)
          1184+ DC A(T7A30)
          1185+ DC AL2(EQ)
          1186+ DC AL2(02)
          1187+ DC X'0000'
          1188+ ALIGN WORD
          1189+ DC AL2(17)
          1190+ DC C'0003/92804400CA40'
          1191+ ALIGN WORD
          1192+ DC AL2(PARMARA)
          1193+ $NVLD FT=(F00100)
          1194 N00066 DC A(@NVLD)
          1195 N00066 $TUXX T7A31,02,0000,EQ,PLNG=21,PARM=0004/8238E37FEB7F8A00,X
          1196 N00067 DC A(@TUXX)
          1197 N00067 DC AL2(N00069)
          1198+ DC A(T7A31)
          1199+ DC AL2(EQ)
          1200+ DC AL2(02)
          1201+ DC X'0000'
          1202+ ALIGN WORD
          1203+ DC AL2(21)
          1204+ DC C'0004/8238E37FEB7F8A00'
          1205+ ALIGN WORD
          1206+ DC AL2(PARMARA)
          1207+ $NVLD FT=(F00100)
          1208 N00068 DC A(@NVLD)
          1209 N00068 $TUXX T7A55,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102),X
          1210 N00069 DC A(@TUXX)
          1211 N00069 DC AL2(N00071)
          1212+ DC A(T7A55)
          1213+ DC AL2(EQ)
          1214+ DC AL2(02)
          1215+ DC X'0703'
          1216+ ALIGN WORD
          1217+ DC AL2(06)
          1218+ DC C'490908'
          1219+

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002BB8 196E      1220+ ALIGN WORD
1221+ DC AL2 (PARMARA)
1222+ N00070 $NVLD FT=(F00100)
002BBA 0600      1223+ N00070 DC A(@NVLD)
1224+ N00071 $TUXX T7A31,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5, X
1225+ N00071 DC A(@TUXX)
1226+ DC AL2(N00073)
1227+ DC A(T7A31)
1228+ DC AL2(EQ)
1229+ DC AL2(O2)
1230+ DC X'0000'
1231+ ALIGN WORD
002BC8 0011      1232+ DC AL2(17)
002BCA F0F0F0F361F8C1F8F 1233+ DC C'0003/8A80880065E5'
002BDB 00      1234+ ALIGN WORD
002BDC 196E      1235+ DC AL2 (PARMARA)
1236+ N00072 $NVLD FT=(F00100)
1237+ N00072 DC A(@NVLD)
002BE0 0500      1238+ N00072 $TUXX T7A33,06,249249249249,EQ,PLNG=13,PARM=0001/0075, X
002BE2 2C0A      1239+ N00073 DC A(@TUXX)
002BE4 3DD0      1240+ DC AL2(N00075)
002BE6 0000      1241+ DC A(T7A33)
002BE8 0006      1242+ DC AL2(EQ)
002BEA 249249249249 1243+ DC AL2(O6)
1244+ DC X'249249249249'
1245+ ALIGN WORD
002BF0 000D      1246+ DC AL2(13)
002BF2 F0F0F0F161F0F0F7F 1247+ DC C'0001/0075'
002BFB 00      1248+ ALIGN WORD
002BFC 196E      1249+ DC AL2 (PARMARA)
1250+ N00074 $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
1251+ N00074 DC A(@CALL)
002BF0 0201      1252+ DC A(F00099)
002C00 2F30      1253+ DC CL4'7A16'
002C02 F7C1F1F6      1254+ DC CL2'D'
002C06 C440      1255+ DC AL2(XTRNL)
002C08 0001      1256+ N00075 $TUXX T7A30,02,0000,EQ,PLNG=33,PARM=0007/40556D7F657F6D7E657E4X
1257+ N00075 DC A(@TUXX)
1258+ DC AL2(N00077)
1259+ DC A(T7A30)
1260+ DC AL2(EQ)
1261+ DC AL2(O2)
1262+ DC X'0000'
1263+ ALIGN WORD
002C16 0021      1264+ DC AL2(33)
002C18 F0F0F0F761F4F0F5F 1265+ DC C'0007/40556D7F657F6D7E657E4400CA40'
002C39 00      1266+ ALIGN WORD
002C3A 196E      1267+ DC AL2 (PARMARA)
1268+ N00076 $NVLD FT=(F00100)
1269+ N00076 DC A(@NVLD)
002C3C 0600      1270+ N00077 $TUXX T7A32,02,0000,EQ,PLNG=25,PARM=0005/8220E37FEB7F9ADF8A30, X
1271+ N00077 DC A(@TUXX)
1272+ DC AL2(N00079)
1273+ DC A(T7A32)
1274+ DC AL2(EQ)
1275+ DC AL2(O2)
1276+ DC X'0000'
1277+ ALIGN WORD
002C4A 0019      1278+ DC AL2(25)
002C4C F0F0F0F561F8F2F2F 1279+ DC C'0005/8220E37FEB7F9ADF8A30'
002C65 00      1280+ ALIGN WORD
002C66 196E      1281+ DC AL2 (PARMARA)
1282+ N00078 $NVLD FT=(F00100)
1283+ N00078 DC A(@NVLD)
002C6A 0500      1284+ N00079 $TUXX T7A55,02,0703,EQ,PLNG=06,PARM=490B08,QT=(Q00102), X
002C6C 2C82      1285+ N00079 DC A(@TUXX)
002C6E 35CA      1286+ DC A(T7A55)
002C70 0000      1287+ DC AL2(N00081)
002C72 0002      1288+ DC AL2(EQ)
002C74 0703      1289+ DC AL2(O2)
1290+ DC X'0703'
1291+ ALIGN WORD
002C76 0006      1292+ DC AL2(06)
002C78 F4F9F0C2F0F8      1293+ DC C'490B08'
1294+ ALIGN WORD
002C7E 196E      1295+ DC AL2 (PARMARA)
1296+ N00080 $NVLD FT=(F00100)
1297+ N00080 DC A(@NVLD)
002C80 0600      1298+ N00081 $TUXX T7A32,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5, X
1299+ N00081 DC A(@TUXX)
1300+ DC AL2(N00083)
1301+ DC A(T7A32)
1302+ DC AL2(EQ)
1303+ DC AL2(O2)
1304+ DC X'0000'
1305+ ALIGN WORD
002C8E 0011      1306+ DC AL2(17)
002C90 F0F0F0F361F8C1F8F 1307+ DC C'0003/8A80880065E5'
002CA1 00      1308+ ALIGN WORD
002CA2 196E      1309+ DC AL2 (PARMARA)
1310+ N00082 $NVLD FT=(F00100)
1311+ N00082 DC A(@NVLD)
002CA4 0600      1312+ N00083 $TUXX T7A32,02,0000,EQ,PLNG=25,PARM=0005/9A048200E37FEB7F8A30, X
1313+ N00083 DC A(@TUXX)
1314+ DC AL2(N00085)
1315+ DC A(T7A32)
1316+ DC AL2(EQ)
1317+ DC AL2(O2)
1318+ DC X'0000'
1319+ ALIGN WORD
002CB0 0019      1320+ DC AL2(25)
002CB4 F0F0F0F561F9C1F0F 1321+ DC C'0005/9A048200E37FEB7F8A30'
002CCD 00      1322+ ALIGN WORD
002CCE 196E      1323+ DC AL2 (PARMARA)
1324+ N00084 $NVLD FT=(F00100)
1325+ N00084 DC A(@NVLD)
1326+ N00085 $TUXX T7A55,02,0703,EQ,PLNG=06,PARM=490B08,QT=(Q00102), X
1327+ N00085 DC A(@TUXX)
1328+ DC AL2(N00087)
1329+ DC A(T7A55)
1330+ DC AL2(EQ)
1331+ DC AL2(O2)
1332+ DC X'0703'
1333+ ALIGN WORD

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002CDE 0006      1334+ DC AL2(06)
002CE0 F4F9F0C2F0F8      1335+ DC C'490B08'
1336+ ALIGN WORD
002CE6 196E      1337+ DC AL2 (PARMARA)
1338+ N00086 $NVLD FT=(F00100)
002CE8 0600      1339+ N00086 DC A(@NVLD)
1340+ N00087 $TUXX T7A32,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5, X
1341+ N00087 DC A(@TUXX)
1342+ DC AL2(N00089)
1343+ DC A(T7A32)
1344+ DC AL2(EQ)
1345+ DC AL2(O2)
1346+ DC X'0000'
1347+ ALIGN WORD
002CF6 0011      1348+ DC AL2(17)
002CF8 F0F0F0F361F8C1F8F 1349+ DC C'0003/8A80880065E5'
002D09 00      1350+ ALIGN WORD
002D0A 196E      1351+ DC AL2 (PARMARA)
1352+ N00088 $NVLD FT=(F00100)
1353+ N00088 DC A(@NVLD)
002D0C 0600      1354+ N00089 $TUXX T7A33,04,039A039A,EQ,PLNG=09,PARM=0001/0075,QT=(Q00102), X
1355+ N00089 DC A(@TUXX)
1356+ DC AL2(N00091)
1357+ DC A(T7A33)
1358+ DC AL2(EQ)
1359+ DC AL2(O4)
1360+ DC X'039A039A'
1361+ ALIGN WORD
002D1C 0009      1362+ DC AL2(09)
002D1E F0F0F0F161F0F0F7F 1363+ DC C'0001/0075'
002D27 00      1364+ ALIGN WORD
002D28 196E      1365+ DC AL2 (PARMARA)
1366+ N00090 $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
1367+ N00090 DC A(@CALL)
002D2A 0201      1368+ DC A(F00099)
002D2C 2F30      1369+ DC CL4'7A16'
002D2E F7C1F1F6      1370+ DC CL2'D'
1371+ DC AL2(XTRNL)
002D30 0500      1372+ N00091 $TUXX T7A30,02,0000,EQ,PLNG=37,PARM=0008/40246DF409265FF40496X
1373+ N00091 DC A(@TUXX)
1374+ DC AL2(N00093)
1375+ DC A(T7A30)
1376+ DC AL2(EQ)
1377+ DC AL2(O2)
1378+ DC X'0000'
1379+ ALIGN WORD
002D42 0025      1380+ DC AL2(37)
002D44 F0F0F0F861F4F0F2F 1381+ DC C'0008/40246DF409265FF40496DFE402465FE'
002D69 00      1382+ ALIGN WORD
002D6A 196E      1383+ DC AL2 (PARMARA)
1384+ N00092 $NVLD FT=(F00100)
1385+ N00092 DC A(@NVLD)
002D6C 0600      1386+ N00093 $TUXX T7A30,02,0000,EQ,PLNG=17,PARM=0003/4400CA409280, X
1387+ N00093 DC A(@TUXX)
1388+ DC AL2(N00095)
1389+ DC A(T7A30)
1390+ DC AL2(EQ)
1391+ DC AL2(O2)
1392+ DC X'0000'
1393+ ALIGN WORD
002D7A 0011      1394+ DC AL2(17)
002D7C F0F0F0F361F4F4F0F 1395+ DC C'0003/4400CA409280'
002D8D 00      1396+ ALIGN WORD
002D8E 196E      1397+ DC AL2 (PARMARA)
1398+ N00094 $NVLD FT=(F00100)
1399+ N00094 DC A(@NVLD)
002D90 0600      1400+ N00095 $TUXX T7A31,02,0000,EQ,PLNG=21,PARM=0004/8214E37FEB7F8A00, X
1401+ N00095 DC A(@TUXX)
1402+ DC AL2(N00097)
1403+ DC A(T7A31)
1404+ DC AL2(EQ)
1405+ DC AL2(O2)
1406+ DC X'0000'
1407+ ALIGN WORD
002D9E 0015      1408+ DC AL2(21)
002DA0 F0F0F0F461F8F2F1F 1409+ DC C'0004/8214E37FEB7F8A00'
002DB5 00      1410+ ALIGN WORD
002DB6 196E      1411+ DC AL2 (PARMARA)
1412+ N00096 $NVLD FT=(F00100)
1413+ N00096 DC A(@NVLD)
002DB8 0600      1414+ N00097 $TUXX T7A55,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102), X
1415+ N00097 DC A(@TUXX)
1416+ DC AL2(N00099)
1417+ DC A(T7A55)
1418+ DC AL2(EQ)
1419+ DC AL2(O2)
1420+ DC X'0703'
1421+ ALIGN WORD
002DC6 0006      1422+ DC AL2(06)
002DC8 F4F9F0F9F0F8      1423+ DC C'490908'
1424+ ALIGN WORD
002DCE 196E      1425+ DC AL2 (PARMARA)
1426+ N00098 $NVLD FT=(F00100)
1427+ N00098 DC A(@NVLD)
1428+ N00099 $TUXX T7A31,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5, X
1429+ N00099 DC A(@TUXX)
1430+ DC AL2(N00101)
1431+ DC A(T7A31)
1432+ DC AL2(EQ)
1433+ DC AL2(O2)
1434+ DC X'0000'
1435+ ALIGN WORD
002DDE 0011      1436+ DC AL2(17)
002DE0 F0F0F0F361F8C1F8F 1437+ DC C'0003/8A80880065E5'
002DF1 00      1438+ ALIGN WORD
002DF2 196E      1439+ DC AL2 (PARMARA)
1440+ N00100 $NVLD FT=(F00100)
1441+ N00100 DC A(@NVLD)
1442+ N00101 $TUXX T7A18,02,0080,ON,PLNG=13,PARM=0002/980065E5,QT=(Q00102), X
1443+ N00101 DC A(@TUXX)
1444+ DC AL2(N00103)
1445+ DC A(T7A18)
1446+ DC AL2(ON)
1447+ DC AL2(O2)

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002E00 0080      1448+ DC X'0080'
                1449+ DC ALIGN WORD
002E02 000D      1450+ DC AL2(13)
002E04 F0F0F0F261F9F8F0F 1451+ DC C'0002/980065E5'
002E11 00        1452+ DC ALIGN WORD
002E12 196E      1453+ DC AL2(PARMARA)
                1454 N00102 $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
                1455 N00102 DC A(@CALL)
002E14 0201      1456+ DC A(F00099)
002E16 2F30      1457+ DC CL4'7A16'
002E18 F7C1F1F6  1458+ DC CL2'D'
002E1C C440      1459+ DC AL2(XTRNL)
002E1E 0001      1460 N00103 $TUXX T7A30,02,0000,EQ,PLNG=37,PARM=0008/40246DF409365FF40496X
                1461 N00103 DC A(@TUXX)
002E20 0500      1462+ DC AL2(N00105)
002E22 2E58      1463+ DC A(T7A30)
002E24 3B98      1464+ DC AL2(EQ)
002E26 0000      1465+ DC AL2(O2)
002E28 0002      1466+ DC X'0000'
002E2A 0000      1467+ DC ALIGN WORD
002E2C 0025      1468+ DC AL2(37)
002E2E F0F0F0F861F4F0F2F 1469+ DC C'0008/40246DF409365FF40496DFE402465FE'
002E30 00        1470+ DC ALIGN WORD
002E34 196E      1471+ DC AL2(PARMARA)
                1472 N00104 $NVLD FT=(F00100)
                1473 N00104 DC A(@NVLD)
002E36 0600      1474 N00105 $TUXX T7A30,02,0000,EQ,PLNG=17,PARM=0003/4400CA409280, X
                1475 N00105 DC A(@TUXX)
002E38 0500      1476+ DC AL2(N00107)
002E3A 2E7C      1477+ DC A(T7A30)
002E3C 3B98      1478+ DC AL2(EQ)
002E3E 0000      1479+ DC AL2(O2)
002E40 0002      1480+ DC X'0000'
002E42 0000      1481+ DC ALIGN WORD
002E44 0011      1482+ DC AL2(17)
002E46 F0F0F0F361F4F4F0F 1483+ DC C'0003/4400CA409280'
002E48 00        1484+ DC ALIGN WORD
002E4A 196E      1485+ DC AL2(PARMARA)
                1486 N00106 $NVLD FT=(F00100)
                1487 N00106 DC A(@NVLD)
002E4C 0500      1488 N00107 $TUXX T7A30,02,0000,EQ,PLNG=21,PARM=0004/8214E37FEB7F8A00, X
                1489 N00107 DC A(@TUXX)
002E4E 2E44      1490+ DC AL2(N00109)
002E50 3C60      1491+ DC A(T7A31)
002E52 0000      1492+ DC AL2(EQ)
002E54 0002      1493+ DC AL2(O2)
002E56 0000      1494+ DC X'0000'
                1495+ DC ALIGN WORD
002E58 0015      1496+ DC AL2(21)
002E5A F0F0F0F461F8F2F1F 1497+ DC C'0004/8214E37FEB7F8A00'
002E5C 00        1498+ DC ALIGN WORD
002E5E 196E      1499+ DC AL2(PARMARA)
                1500 N00108 $NVLD FT=(F00100)
                1501 N00108 DC A(@NVLD)
002E60 0600      1502 N00109 $TUXX T7A30,02,0703,EQ,PLNG=06,PARM=490908,QT=(Q00102), X
                1503 N00109 DC A(@TUXX)
002E62 0500      1504+ DC AL2(N00111)
002E64 2EBC      1505+ DC A(T7A55)
002E66 35CA      1506+ DC AL2(EQ)
002E68 0000      1507+ DC AL2(O2)
002E6A 0002      1508+ DC X'0703'
002E6C 0703      1509+ DC ALIGN WORD
002E6E 0006      1510+ DC AL2(O6)
002E70 F4F9F0F9F0F8  1511+ DC C'490908'
                1512+ DC ALIGN WORD
002E72 196E      1513+ DC AL2(PARMARA)
                1514 N00110 $NVLD FT=(F00100)
                1515 N00110 DC A(@NVLD)
002E74 0600      1516 N00111 $TUXX T7A31,02,0000,EQ,PLNG=17,PARM=0003/8A80880065E5, X
                1517 N00111 DC A(@TUXX)
002E76 0500      1518+ DC AL2(N00113)
002E78 2EE0      1519+ DC A(T7A31)
002E7A 3C60      1520+ DC AL2(EQ)
002E7C 0000      1521+ DC AL2(O2)
002E7E 0002      1522+ DC X'0000'
                1523+ DC ALIGN WORD
002E80 0011      1524+ DC AL2(17)
002E82 F0F0F0F361F8C1F8F 1525+ DC C'0003/8A80880065E5'
002E84 00        1526+ DC ALIGN WORD
002E86 196E      1527+ DC AL2(PARMARA)
                1528 N00112 $NVLD FT=(F00100)
                1529 N00112 DC A(@NVLD)
002E88 0600      1530 N00113 $TUXX T7A18,02,0080,OF,PLNG=13,PARM=0002/910065E5,QT=(Q00102), X
                1531 N00113 DC A(@TUXX)
002E8A 0500      1532+ DC AL2(N00115)
002E8C 2FOA      1533+ DC A(T7A18)
002E8E 3A86      1534+ DC AL2(OF)
002E90 0202      1535+ DC AL2(O2)
002E92 0002      1536+ DC X'0080'
002E94 0080      1537+ DC ALIGN WORD
002E96 000D      1538+ DC AL2(13)
002E98 F0F0F0F261F9F1F0F 1539+ DC C'0002/910065E5'
002E9A 00        1540+ DC ALIGN WORD
002E9C 196E      1541+ DC AL2(PARMARA)
                1542 N00114 $CALL TYPE=XTRNL,MAP=7A16,EP=D,FT=(F00099)
                1543 N00114 DC A(@CALL)
002E9E 0201      1544+ DC A(F00099)
002EA0 2F30      1545+ DC CL4'7A16'
002EA2 F7C1F1F6  1546+ DC CL2'D'
002EA4 C440      1547+ DC AL2(XTRNL)
002EA6 0001      1548 N00115 $GOTO TYPE=XTRNL,MAP=7A20,EP=A,FT=(F00455)
                1549 N00115 DC A(@GOTO)
002EA8 3000      1550+ DC A(F00455)
002EAA F7C1F2F0  1551+ DC CL4'7A20'
002EAC C140      1552+ DC CL2'A'
002EAE 0001      1553+ DC AL2(XTRNL)
002E90 0000      1554+ DC AL2(DUMMY)
002F18 0000      1555 ENTPT EQU *
                1556 *****
                1557 *****
                1558 **
                1559 **
                1560 **
                1561 *****
  
```

ENTRY POINT TABLE

I7A10 --- COMMON ADAPTER MAP P/N=8327650 EC=375222 PAGE 07A  
 LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

```

1562 *****
1563 ENTPT EP=A,STEP=00001
1564 DC CL2'A'
1565 DC A(N00001)
1566 DC AL2(DUMMY)
1567 *****
1568 *****
1569 **
1570 **
1571 **
1572 *****
1573 *****
1574 F00111 EQU *
1575 DC AL2(0001)
1576 DC A(0014)
1577 DC CL0014'NOT BASE FILE '
1578 F00099 EQU *
1579 DC AL2(0001)
1580 DC A(0034)
1581 DC CL0034'EXECUTE MAP 7A10 IN -MANUAL MODE- '
1582 F00106 EQU *
1583 DC AL2(0001)
1584 DC A(0034)
1585 DC CL0034'GOTO POWER DISTRIBUTION MAP 7A80,A'
1586 F00107 EQU *
1587 DC AL2(0001)
1588 DC A(0028)
1589 DC CL0028'GOTO MAP 7A71 ENTRY POINT A.'
1590 F00100 EQU *
1591 DC AL2(0001)
1592 DC A(0036)
1593 DC CL0036'NO IS INVALID PROCEED TO NEXT STEP. '
1594 F00241 EQU *
1595 DC AL2(0002)
1596 DC A(0034)
1597 DC CL0034'EXECUTE MAP 7A10 IN -MANUAL MODE- '
1598 DC A(0020)
1599 DC CL0020'POSSIBLE FILE ERROR '
1600 F00455 EQU *
1601 DC AL2(0001)
1602 DC A(0014)
1603 DC CL0014'GO TO MAP7A20 '
1604 PDIT 00
1606+OPTN1 DC X'0000'
1607+*
1608+OPTN2 DC X'0000'
1609+*
1610+B48 EQU 16 0
1611+B49 EQU 17 1
1612+B50 EQU 18 2
1613+B51 EQU 19 3
1614+B52 EQU 20 4
1615+B53 EQU 21 5
1616+B54 EQU 22 6
1617+B55 EQU 23 7
1618+B56 EQU 24 8
1619+B57 EQU 25 9
1620+B58 EQU 26 10
1621+B59 EQU 27 11
1622+B60 EQU 28 12
1623+B61 EQU 29 13
1624+B62 EQU 30 14
1625+B63 EQU 31 15
1626+CH EQU 30 14
1627+CMP EQU 31 15
1629+OPTN3 DC X'0000'
1630+*
1631+* 0 MYSTERY INTERRUPT MI 8 CS STATUS IN PROGRESS CS
1632+* 1 ERROR INTERRUPT ER 9 CS AVAILABLE CSA
1633+* 2 EXPECTED INTERRUPT XI 10 CS STATUS INTERRUPT ERR CE
1634+* 3 INTERRUPT RECEIVED IN 11 ISB BITS ON (1-7) ISBON
1635+*
1636+* 4 EXPECTED ERR/ATTENT XE 12 TEST UNIT RESULTS VOID NG
1637+* 5 HARD ERROR FOUND HE 13 OIO CC ERROR IOCC
1638+* 6 WRONG INTR LEVEL $LE 14 NO INTERRUPT NOIN
1639+* 7 NO INTR EXPECTED NI 15 INTERRUPT CC ERROR INCC
1640+*
1641+MI EQU 32 0
1642+MR EQU 33 1
1643+XI EQU 34 2
1644+IN EQU 35 3
1645+XE EQU 36 4
1646+HE EQU 37 5
1647+$LE EQU 38 6
1648+NI EQU 39 7
1649+CS EQU 40 8
1650+CSA EQU 41 9
1651+CE EQU 42 10
1652+ISBON EQU 43 11
1653+NG EQU 44 12
1654+IOCC EQU 45 13
1655+NOIN EQU 46 14
1656+INCC EQU 47 15
1657+*
1658+* COMMON BUFFER FOR PRINTING DATA
1659+*
1661+$TUID DC A(*-*)
1662+$IOTN DC A(*-*)
1663+$ISB DC A(*-*)
1664+$ISTIO DC A(*-*)
1665+$DEV1 DC A(*-*)
1666+$DEV2 DC A(*-*)
1667+$DEV3 DC A(*-*)
1668+$DEV4 DC A(*-*)
1669+$CTID EQU DEV1
1670+$DCBUF EQU *
1671+$DCB1 DC A(*-*)
1672+$DCB2 DC A(*-*)
1673+$DCB3 DC A(*-*)
1674+$DCB4 DC A(*-*)
1675+$DCB5 DC A(*-*)
1676+$DCB6 DC A(*-*)
1677+$DCB7 DC A(*-*)
1678+$DCB8 DC A(*-*)
003018 0000
00301A 0000
00301C 0000
00301E 0000
003020 0000
003022 0000
003024 0000
003026 0000
003028 0000
00302A 0000
00302C 0000
00302E 0000
003030 0000
003032 0000
003034 0000
003036 0000
  
```

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
1679+\*
1680+CSBUF EQU \*
1681+CSSTL1 DC A(\*-\*)
1682+CSSTL2 DC A(\*-\*)
1683+CSSTL3 DC A(\*-\*)
1684+CSSTL4 DC A(\*-\*)
1685+CSSTL5 DC A(\*-\*)
1686+CSSTL6 DC A(\*-\*)
1687+CSSTL7 DC A(\*-\*)
1688+CSSTL8 DC A(\*-\*)
1689+CSSTL9 DC A(\*-\*)
1690+CSSTL10 DC A(\*-\*)
1691+CSSTL11 DC A(\*-\*)
1692+CSSTL12 DC A(\*-\*)
1693+CSSTL13 DC A(\*-\*)
1694+\*
1695+SSUBN DC A(\*-\*)
1696+SDATA DC 2A(\*-\*)
1697+SDINTL DC X'0021'
1698+SDTURNTN DC A(\*-\*)
1699+SDVID DC X'00'
1700+SDVCAL DC A(DEVADD)
1701+SDV CAL DC A(\*-\*)
1702+\*
1703+\* THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM
1704+\* FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE
1705+\* STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.
1706+\*
1707+T7A02 MVWI X'7A02',STUID SET UP TEST UNIT ID
1708+ BXS (R7) RETURN TO MDI SUPVR
1710 COPY COMEQ
1711 \*\*\*\*\*
1712 \*
1713 \* EQUATED NAMES FOR SUPPORTED SVC'S
1714 \*
1715 \*\*\*\*\*
1716 OUT EQU 0 OUT SVC
1717 OUTIN EQU 1 OUTIN SVC
1718 IDLE EQU 2 IDLE SVC
1719 IDLE5 EQU 3 IDLE SVC - INDEPENDENT OF CPU TYPE
1720 CHNGE EQU 4 CHANGE LEVEL SVC
1721 PGMCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
1722 EXIT EQU 6 EXIT SVC
1723 TERM EQU 7 TERMINATE SVC
1724 RESET EQU 8 RESET DEVICE SVC
1725 RID EQU 9 READ ID SVC
1726 START EQU 10 START CYCLE STEAL SVC
1728 PREP EQU 11 START CYCLE STEAL STATUS SVC
1729 READ0 EQU 12 PREPARE DEVICE SVC
1730 READ1 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
1731 RSTAT EQU 14 READ WITH FUNCTION BIT 3 ON SVC
1732 WRIT0 EQU 15 WRITE STATUS SVC
1733 WRIT1 EQU 16 WRITE WITH FUNCTION BIT 3 ON SVC
1734 CTRL EQU 17 CONTROL SVC
1735 RICB EQU 18 RELEASE INTERRUPT CONTROL BLOCK SVC
1736 CICB EQU 19 CONNECT INTERRUPT CONTROL BLOCK SVC
1737 HIO EQU 20 HALT ALL I/O
1738 REOSD EQU 21 REQUEST USE OF DCP DISK SVC
1739 RELSD EQU 22 RELEASE USE OF DCP DISK SVC
1740 HALT EQU 23 HALT SVC
1741 ETOH EQU 24 EBCDIC TO HEX SVC (STRING)
1742 HTOE EQU 25 HEX TO EBCDIC SVC (STRING)
1743 ATOH EQU 26 ASCII TO HEX SVC (STRING)
1744 HTOA EQU 27 HEX TO ASCII SVC (STRING)
1745 ETOA EQU 28 EBCDIC TO ASCII SVC (STRING)
1746 ATOE EQU 29 ASCII TO EBCDIC SVC (STRING)
1747 READI EQU 30 READ DATA SETS FOR MDI/UTIL
1748 WRITI EQU 31 WRITE DATA SETS FOR UTIL
1750 \*\*\*\*\*
1751 \*
1752 \* EQUATES USED BY TU'S AS CONSTANTS
1753 \*
1754 \*\*\*\*\*
1755 PLUS EQU C'+! PLUS CHAR
1756 MINUS EQU C'-! MINUS CHAR
1758 ZERO EQU 0
1759 ONE EQU 1
1760 TWO EQU 2
1761 THREE EQU 3
1762 FOUR EQU 4
1763 FIVE EQU 5
1764 SIX EQU 6
1765 SEVEN EQU 7
1766 EIGHT EQU 8
1767 NINE EQU 9
1768 TEN EQU 10
1769 ELEVN EQU 11
1770 TWELV EQU 12
1771 THRTN EQU 13
1772 FIVTN EQU 14
1773 SIXTN EQU 15
1774 THRY2 EQU 16
1775 SIXT4 EQU 17
1776 ONE28 EQU 128
1777 TWO56 EQU 256
1778 ONEK EQU 1024
1779 TWOK EQU 2048
1780 THREK EQU 3072
1781 FOURK EQU 4096
1783 M1 EQU -1
1784 M2 EQU -2
1785 M3 EQU -3
1786 M4 EQU -4
1788 \*\*\*\*\*
1789 \*
1790 \* THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE
1791 \* BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
1792 \*
1793 \*\*\*\*\*
1794 BS0 EQU 0
1795 BS1 EQU 1
1796 BS2 EQU 2
1797 BS3 EQU 3

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000004 1798 BS4 EQU 4
000005 1799 BS5 EQU 5
000006 1800 BS6 EQU 6
000007 1801 BS7 EQU 7
000008 1802 BS8 EQU 8
000009 1803 BS9 EQU 9
00000A 1804 BS10 EQU 10
00000B 1805 BS11 EQU 11
00000C 1806 BS12 EQU 12
00000D 1807 BS13 EQU 13
00000E 1808 BS14 EQU 14
00000F 1809 BS15 EQU 15
1811 COPY T7A00DCB 26OCT77
1812 \*\* (T7A00DCB)
1813 \*
1814 \*\*\*\*\*4/28/77\*\*\*\*\*
1815 \*
1816 \* DCB TABLES AND DC'S
1817 \*
1818 \*\*\*\*\*
1819 \*
1820 \*\*\*\*\* DIAGNOSTIC DCB \*\*\*\*\*
1821 \*
1822 DGDCB DC X'2008' DIAGNOSTIC DCB
1823 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
1824 DC A(\*-\*) HEAD / CYLINDER#S
1825 DC X'0000' NOT USED
1826 DC A(RSBA) RSB ADDRESS
1827 DC A(\*-\*) CHAINING ADDRESS
1828 DC X'0100' BYTE COUNT
1829 DC A(\*-\*) DATA ADDRESS
1830 \*
1831 \*\*\*\*\* RECALIBRATE DCB \*\*\*\*\*
1832 \*
1833 CLDCB DC X'0001' RECALIBRATE DCB
1834 DC 7A(\*-\*)
1835 \*
1836 \*\*\*\*\* WRITE SECTOR ID \*\*\*\*\*
1837 \*
1838 WSDCB DC X'002D' WRITE SECTOR ID CNTL WORD
1839 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
1840 DC A(\*-\*) HEAD / CYLINDER#S
1841 DC X'0000' NOT USED
1842 DC A(RSBA) RSB ADDRESS
1843 DC A(\*-\*) CHAIN ADDRESS
1844 DC X'0004' BYTE COUNT
1845 DC A(WRSID) ADDR OF SECTOR ID DATA
1846 \*
1847 \*\*\*\*\* READ SECTOR ID DCB \*\*\*\*\*
1848 \*
1849 RSDCB DC X'201C' READ SECTOR ID CNTL WORD
1850 DC A(\*-\*) FLAG / PHYSICAL SECTOR#
1851 DC X'0000' HEAD / CYLINDER#S
1852 DC X'0000' NOT USED
1853 DC A(RSBA) RSB ADDRESS
1854 DC A(\*-\*) CHAIN ADDRESS
1855 DC X'0004' BYTE COUNT FOR READ SECTOR ID
1856 DC A(SCTID) SECTOR ID DATA ADDRESS
1857 \*
1858 \*\*\*\*\* SEEK DCB \*\*\*\*\*
1859 \*
1860 SKDCB DC X'0000' SEEK DCB CONTROL WORD
1861 DC X'0000' NOT USED
1862 DC A(\*-\*) HEAD / CYLINDER#S
1863 DC X'0000' NOT USED
1864 DC A(RSBA) RSB ADDRESS
1865 DC A(\*-\*) CHAIN ADDRESS
1866 DC X'0000' NOT USED
1867 DC X'0000' NOT USED
1868 \*
1869 \*\*\*\*\* CYCLE STEAL STATUS DCB \*\*\*\*\*
1870 \*
1871 CSDCB DC X'2000' CONTROL WORD
1872 DC F'0' NOT USED
1873 DC F'0' NOT USED
1874 DC F'0' NOT USED
1875 DC F'0' NOT USED
1876 DC F'0' NOT USED
1877 DC X'001A' 13 WORDS OF STATUS
1878 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
1879 \*
1880 \*\*\*\*\* WRITE DCB \*\*\*\*\*
1881 \*
1882 WRDCB DC X'0028' WRITE DATA DCB CNTL WORD
1883 DC A(\*-\*) FLAG / RECORD#
1884 DC A(\*-\*) HEAD / CYLINDER#S
1885 DC A(\*-\*) SCAN / REPEAT COUNT
1886 DC A(RSBA) RSB ADDRESS
1887 DC A(\*-\*) CHAIN ADDRESS
1888 DC X'0100' BYTE COUNT
1889 DC A(\*-\*) WRITE DATA ADDRESS
1890 \*
1891 \*\*\*\*\* VERIFY DCB \*\*\*\*\*
1892 \*
1893 VRDCB DC X'0019' CONTROL WORD
1894 DC A(\*-\*) FLAG / RECORD#
1895 DC A(\*-\*) HEAD / CYLINDER#S
1896 DC A(\*-\*) SCAN / REPEAT COUNT
1897 DC A(RSBA) RSB ADDRESS
1898 DC A(\*-\*) CHAIN ADDRESS
1899 DC A(\*-\*) BYTE COUNT
1900 DC F'0' NOT USED
1901 \*
1902 \*\*\*\*\* READ DCB \*\*\*\*\*
1903 \*
1904 RDCB DC X'2018' READ DCB CONTROL WORD
1905 DC A(\*-\*) FLAG / RECORD#
1906 DC A(\*-\*) HEAD / CYLINDER#S
1907 DC A(\*-\*) SCAN / REPEAT COUNT
1908 DC A(RSBA) RSB ADDRESS
1909 DC A(\*-\*) CHAIN ADDRESS
1910 DC X'0100' BYTE COUNT
1911 DC A(\*-\*) READ DATA ADDRESS
1912 \*



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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
2706** 4. RESETS THE INTERRUPT INDICATOR AND CHECKS FOR ANY INTERRUPT
2707** SINCE THE LAST EXPECTED INTERRUPT. IF AN INTERRUPT IS FOUND,
2708** MYSTERY INTERRUPT (HI) CONTROL BIT IS SET.
2709** 5. MOVES THE ADDRESS OF THE I/O CONTROL BLOCK IN R7, SET THE
2710** EXPECTED INTERRUPT CONTROL BIT AND ISSUE THE 'SVC START'.
2711** 6. WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, TIMING
2712** STARTS TO DETERMINE A LOST INTERRUPT.
2713** 7. EXCEPT THE INTERRUPT AND GATHER INFORMATION TO DETERMINE IF IT
2714** WAS AN ERROR OR OKAY AND EXIT OFF THE INTERRUPT LEVEL.
2715** 8. CHECK IF THERE WAS A WRONG INTERRUPT LEVEL.
2716** 9. CHECK IF AN ERROR WAS EXPECTED AND IF THERE WAS RETURN.
2717** 10. CHECK IF THERE WAS AN ERROR CONDITION, IF NOT RETURN.
2718** 11. CHECK TO SEE IF THE EXERCISER IS TO BE TERMINATED.
2719** 12. CHECK IF A CYCLE STEAL OPERATION WAS IN PROGRESS THAT WAS
2720** ISSUED BY THIS SUBROUTINE.
2721** 13. CHECK THE ISB BITS THAT ARE ON. IF BIT 0 IS ON, ISSUE A
2722** CYCLE STEAL STATUS COMMAND. CHECK FOR ANY OTHER BIT BEING ON,
2723** COUNT IT AND SET UP THE PROPER ERROR MESSAGE TO BE PRINTED.
2724**
2725** CALLING SEQUENCE
2726**
2727** THIS ROUTINE HAS THE FOLLOWING ENTRIES:
2728**
2729** --> BAL XIO OR XEO ANY CYCLE STEAL COMMAND, MOD=0
2730** --> BAL XIO1 MOD PARM PRELOADED IN 'IOMOD'
2731** --> BAL XIOCS,R6 OR XEO START CYCLE STEAL STATUS, MOD=F
2732** --> BAL XIOCS=4,R6 XEO STATUS FOLLOWING OTHER XIO
2733** AND DOES NOT POST INTERRUPT STATUS)
2734**
2735** RETURN CONTROL
2736**
2737** BXS (R6,2) RETURN TO USER NO ERROR
2738** OR B (R6)* RETURN AND RETRY ON ERROR
2739** *****
2740** XIO MVWZ IOMOD,R3 SET MOD OF 0 FOR CYCLE STEAL OP
2741** J XIO1 CS I/O'S ARE NOT RETRIED
2742**
2743**
2744** XIOGD MVWI X'000D',IOMOD SET MODIFIER FOR DIAGNOSTIC OPS
2745** J XIO1 GO TO CS OPS
2746**
2747** TBTR (R4,CE) RESET CS STATUS INTER ERROR INDICAT.
2748** TBTS (R4,CS) SET 'CYCLE STEAL STATUS' IN PROGRFSS
2749** XIOCS MVA CSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
2750** MVWI X'000F',IOMOD SET CYCLE STEAL MODIFIER
2751** TBTR (R4,CS) IS CS IN PROGRESS, ERROR CONDITON
2752** JON XIO2 * YES, BYPASS SAVING I/O ADRS
2753** XIO1 MVW R6,LSTIO SAVE IAR FOR RETRY IF REQUESTED
2754** MVA DCBUF,R3 SET UP TO ADPS TO MOVE DCB TABLE
2755** MVW IODCB,R5 * AND THE FROM ADRS, ALONG WITH
2756** MVB 26,R7 * THE NUMBER OF MOVES
2757** MVFN (R5),(R3) MOVE 1 STATUS WORD AND ADJUST
2758** MVBI 25,R3 CLEAR CYCLE STATUS BUFFER
2759** MVA CSBUF,R5 * TO ALL ONES *
2760** MVBI 26,R7 *
2761** PFN R3,(R5) *
2762** MVWI X'0708', $IOIN OVERLAY OLD CONDITION CODES
2763** MVWZ $ISB,R3 ZERO OUT OLD ISB VALUE
2764**
2765** TBTR (R4,ER) RESET ANY ERROR BEFORE I/O COMMAND
2766** XIO2 TBTR (R4,IN) CLEAR INTERRUPT RECEIVED CNTL BIT
2767** MVA IOBLK,R7 SET UP CONTROL BLOCK FOR SUPVR
2768** TBTR (R4,$LE) RESET LEVEL ERROR INDICATOR
2769** TBTS (R4,XI) SET EXPECTED INTR CONTROL BIT
2770** SVC START CALL SUPVR FOR I/O COMMAND
2771**
2772** TBTR (R4,NI) IS AN INTR EXPECTED
2773** BN (R6,2) * NO, RETURN TO USER
2774**
2775** THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
2776**
2777**
2778** XIO8 MVWI 0,R5 SET UP WORK REG FOR 'LOST INTR'
2779** TBTR (R4,IN) HAS INTERRUPT BEEN RECEIVED
2780** JON XIOCK * YES, CHECK IF ALL WAS SATISFACTORY
2781** SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
2782** SVC IDLE SUPVR WILL RETURN HERE
2783** SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
2784** AWI 1,R5 SUPVR WILL RETURN HERE
2785** JNZ XIO8 ADVANCE TIME OUT COUNT
2786** TBTS (R4,ER) BCH IF TIME OUT NOT REACHED
2787** B (R6)* SET ON ERROR CONTROL BIT
2788** *****03FEB76**
2789** *****
2790** SUBROUTINE
2791**
2792** I/O EXECUTE ERROR HANDLING ROUTINE
2793**
2794** PURPOSE
2795** THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
2796** PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
2797** SUPERVISOR AND IT WAS NOT ACCEPTED.
2798**
2799** CALLING SEQUENCE
2800** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
2801**
2802** RETURN CONTROL
2803** B (R6)* RETURN TO USERS ERROR HANDLER
2804** *****
2805** CC 0= DEVICE NOT ATTACHED
2806** FOR 1= DEVICE BUSY
2807** I/O 2= DEVICE BUSY AFTER RESET
2808** 3= COMMAND REJECT
2809** 4= INTERVENTION REQUIRED
2810** 5= INTERFACE DATA CHECK
2811** 6= CONTROLLER BUSY
2812** 7= I/O COMMAND EXCEPTED
2813**
2814** XIOER CPLSR R3 COPY STATUS ANY LEVEL INTO R3
2815** SRL 13,R3 POSITION CC CODE TO BITS 13-15

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
0032F0 C328 301A 2822** MVB R3,$IOIN * PUT IN LOG OUT AREA
0032F4 68D2 0000 2823** B (R6)* RETURN TO USER ERROR HANDLER
2825** *****14APR76**
2826**
2827** SUB-ROUTINE
2828**
2829** ERROR INTERRUPT RUNS ON INTERRUPT LEVEL '$INTL'
2830**
2831** PURPOSE
2832**
2833** THIS ROUTINE WILL BE ENTERED WHEN THE SUPVR DETECTS AN ERROR
2834** OR THE INTERRUPTING CONDITION CODE DOES NOT AGREE WITH THE
2835** EXPECTED CODE.
2836**
2837** CALLING SEQUENCE
2838**
2839** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O INTERRUPT
2840**
2841** RETURN CONTROL
2842**
2843** SVC EXIT RETURN TO USER VIA SUPVR
2844**
2845** *****
2846**
2847** CC 0= CONTROLLER END ISB 0= ADD STATUS
2848** FOR 1= PROGRAM CONTROL INTERRUPT BITS 1= COMD REJECT
2849** INTR 2= EXCEPTION INTERRUPT FOR 2= INCOR LENGTH
2850** 3= DEVICE END INTERRUPT INTR 3= DCB SPEC CK
2851** 4= ATTENTION INTERRUPT 4= STG DATA CK
2852** 5= ATTENTION / PROGRAM CNTL INTR 5= INV STG ADRS
2853** 6= ATTENTION / EXCEPTION INTR 6= PROTRCT CK
2854** 7= ATTENTION / DEVICE END INTR 7= I-FACE DATA
2855**
2856** INTR CPLSR R3 COPY STATUS ANY LEVEL INTO R3
2857** SRL 13,R3 POSITION INDICATORS IN R3
2858** MVA OPTN1,R4 SET UP BASE ADRS
2859** TBTR (R4,CS) IS CS IN PROGRESS
2860** JOFF INTES * NO
2861** MVB (R4,CE) TURN ON CYCLE STEAL INTER ERROR
2862** MVB R3,DEV4 SAVE CS ERR ISB VALUE, BITS 0-7
2863** MVB R3,DEV4+1 * AND THE COND CODE
2864** J INTR1
2865** INTES TBT (R4,XE) TEST EXPECTED ATTEN / ERROR IND
2866** JOFF INTET BCH IF NOT EXPECTED
2867** CBI 4,R3 IS THIS AN 'ATTENTION' INTR
2868** JE INTR1 * YES, BCH TO END INTR SEQUENCE
2869** INTET TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
2870** J INTR1
2871** THE ERROR INTERRUPT USES THE SAME
2872** ENDING SEQUENCE AS THE NORMAL INTR
2873** *****14APR76**
2874** *****
2875** SUBROUTINE
2876**
2877** OKAY INTERRUPT RUNS ON INTERRUPT LEVEL '$INTL'
2878**
2879** PURPOSE
2880** TO CHECK THE INTERRUPT AND CONTINUE THE TEST
2881**
2882** CALLING SEQUENCE
2883**
2884** SUPERVISOR WILL ENTER HERE IF INTR CC IS AS REQUESTED
2885** THE ERROR INTERRUPT HANDLER WILL BRANCH TO THIS ROUTINE
2886** AFTER THE SPECIAL PART HAS BEEN COMPLETED AND THE
2887** COMMON SECTION IS HANDLED HERE.
2888**
2889** RETURN CONTROL
2890**
2891** SVC EXIT RETURN TO USER VIA SUPVR
2892**
2893** *****
2894**
2895** INTOK CPLSR R3 COPY STATUS ANY LEVEL INTO R3
2896** SRL 13,R3 POSITION INDICATORS IN R3
2897** MVA OPTN1,R4 SET UP BASE ADRS
2898** TBTR (R4,IN) SET UP INTERRUPT RECEIVED
2899** INTR1 TBTS (R4,CS) IS 'CS IN PROGRESS' ON
2900** TBT (R4,XE) * YES, BCH AROUND UPDATE
2901** JON INTR2 SAVE INTERRUPTING CC CODE
2902** MVB R3,$IOIN+1 SAVE INTR STATUS AND DEV ADRS
2903** MVW R7,$ISB
2904** INTR2 EQU *
2905** CPLC R5 CURRENT LEVEL COPIED BY DCP
2906** SLL 4,R5 POSITION INTR LEVEL AND PUT
2907** ABI 1,R5 * IN 'I' BIT
2908** CW $INTL,R5 IS THIS THE CORRECT INTR LEVEL
2909** J INTR3 * YES, GO EXIT THIS LEVEL
2910** TBTS (R4,$LE) SET INTR LEVEL ERROR CONTROL BIT
2911** TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
2912** INTR3 TBTR (R4,XI) WAS INTERRUPT EXPECTED
2913** JON INTRX * YES, EXIT OFF THIS INTR LEVEL
2914** TBTS (R4,MI) * NO, SET MYSTERY INTR CONTROL BIT
2915** CBI 4,R3 ATTENTION INTERRUPT?
2916** JE INTRX YES
2917** TBTS (R4,NG) ERROR, UNEXPECTED INTERRUPT
2918** INTRX SVC EXIT EXIT THIS LEVEL VIA SUPVR TO PGW
2919** *****03FEB76**
2920** *****
2921**
2922** THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
2923** HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
2924** RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
2925**
2926**
2927** XIOCK TBTR (R4,XE) WAS AN ERROR EXPECTED
2928** BN (R6,2) * YES, EXIT THIS ROUTINE
2929** TBTR (R4,CS) WAS AUTO CS IN PROGRESS
2930** JOFF XIOCV * NO, CONTINUE CHECKING
2931** TBT (R4,CE) IS CS IN AN ERR CONDITION
2932** JOFF XIOCO * NO, BCH
2933** B * CS ERROR
2934** XIOCO TBTS (R4,CSA) TURN ON CS STATS AVAIL FLAG
2935** BXS (R6,2) GO TO USER
2936** XIOCV TBT (R4,ER) WAS ERROR INTR CONTROL BIT ON
2937** JOFF XIOCX * NO, EXIT THIS ROUTINE
2938**

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
003368 C520 301B 2939+ MVB \$IOIN+1,R5 GET LAST INTR CC CODE
00336C F502 2940+ CBI 2,R5 IS THIS CC=2
00336E 1003 2941+ JE XIOCO YES
003370 F506 2942+ CBI 6,R5 IS THIS CC=6
003372 68D1 0000 2943+ BNE (R6)\* \* NO BCH TO ERROR HANDLER
003376 C520 301C 2944+XIOCO MVB \$ISB,R5 GET LAST ISB DATA BYTE AND IF CS
00337A 6A00 3288 2945+ BN XIOCS-4 \* AVAILABLE, GO AND GET IT
00337E 68D2 0000 2946+ B (R6)\* ERROR
003382 CB25 301E 2947+XIOCX MVWZ OPTN3,R3 CLEAR OUT OPTON 3 CNTL BITS
003386 5601 2948+ BXS (R6,2) RETURN TO USER VIA REG 6
2949+ I/O PARAMETER LIST
2950+
2951+
2952+IOBLK DC A (DEVADD) ADRS OF DEVICE ADRS
2953+ DC A (XIOER) ERROR ROUTINE ADRS
2954+IODCB DC A (\*-\*) DCB ADRS OR LEVEL & INTR
2955+IOMOD DC A (\*-\*) MODIFIER
2956+ DC A (\*-\*) ADRS OF LAST SVC CALL
2957+IORSR DC A (\*-\*) SECOND WORD OF LAST IDCB
2958+
2959+ INTERRUPT CONTROL BLOCK FOR I/C COMMANDS
2960+
2961+INTBL DC A (DEVADD) ADRS OF DEVICE ADRS
2962+ DC A (INTOK) INTERRUPT OK RETURN ADRS
2963+ DC A (INTEP) INTERRUPT ERROR ADRS
2964+INTCC DC X'0003' INTERRUPT CODE EXPECTED
2965+\*\*\*\*\*11MAY76\*\*
2966+
2967+
2968+ SUBROUTINE
2969+
2970+ CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
2971+
2972+ PURPOSE
2973+
2974+ TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
2975+ PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE
2976+ TO INTERRUPT.
2977+
2978+ CALLING SEQUENCE
2979+
2980+ THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
2981+
2982+ --> BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BLK
2983+ --> BAL \$CONC,R6 PREPARE DEVICE ONLY, ALREADY CONNECT
2984+
2985+ RETURN CONTROL
2986+
2987+ BXS (R6,2) RETURN TO USER VIA REG 6 IF OKAY
2988+ OR B (R6)\* IF THE DEVICE COULD NOT BE CONNECTED
2989+
2990+\*\*\*\*\*
2991+\$CONC MVB 6,R7 NUMBER OF BYTE TO CLEAR
2992+ MVB 0,R3 \* AND THE DATA TO USE
2993+ MVA DEV1,R5 \* ALONG WITH THE ADRS TO USE
2994+ FPN R3,(R5) \*
2995+ MVWZ OPTN3,R3 CLEAR OLD CONTROLS FOR NEW ROUTINE
2996+ MVB INTBL,R7 SET R7 TO CONTROL BLOCK AND
2997+ SVC CICE \* CONNECT IT TO THIS DEVICE
2998+ BN (R6)\* ERROR RETURN TO USER
2999+
3000+\$CONC MVW \$INTL,IODCB PUT IN LEVEL & INTR PARAMETER
3001+ MVA IOBLK,R7 SET R7 TO CONTROL BLOCK TO PREPARE
3002+ MVWZ X'0708', \$IOIN INITIALIZE CONDITION CODE STORAGE
3003+ MVWZ \$ISB,R3 \* AND CLEAR OLD ISB VALUE
3004+ MVW R6,LSTIO SET UP ADDRESS THAT STARTED LAST I/O
3005+ SVC PREP \* AND CALL ON SUPVR
3006+ BXS (R6,2) RETURN TO USER
3007+\*\*\*\*\*06APR76\*\*
3008+
3009+
3010+ SUBROUTINE
3011+
3012+ DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS
3013+
3014+ PURPOSE
3015+
3016+ DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
3017+ SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS
3018+ BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
3019+
3020+ CALLING SEQUENCE
3021+
3022+ THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
3023+
3024+ --> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG
3025+ --> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS
3026+
3027+ RETURN CONTROL
3028+
3029+ B TURTN\* RETURN TO MDI
3030+ OR B (R6)\* IF THE DEVICE COULD NOT BE CONNECTED
3031+
3032+\*\*\*\*\*
3033+\$ERR\$ MVI X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT
3034+ MVA HEBLK,R7 GET ADRS OF CONTROL BLOCK
3035+ SVC HTOE CONVERT HEX TO EBC VIS DCP
3036+ MVWI X'4040',TUWORK+116
3037+ MVWI X'4040',TUWORK+118
3038+ MVWI X'4040',TUWORK+120
3039+\$PRNT MVB 4,R5
3040+ MVA TUWORK,R3 SET UP BUFFER STORAGE
3041+ MVA R3,BUFPT
3042+ MVA LINE1,R1
3043+ MVB 4,R7
3044+ MVB 8,R6
3045+MVBUF MVFN (R3),(R1)
3046+ MVB 4,R7
3047+ MVB X'40',R2
3048+ MVB E2,(R1)+
3049+ JCT MVBUF,R6
3050+ MVB 8,R6
3051+ AWI 4,R1
3052+ JCT MVBUF,R5
3053+ MVWI PIDMSG10,PID+2
3054+ MVA FAKETU,@DCADD1

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
00341E 4020 19BA 359A 3055+ MVA DC2PT,@DCADD2
003424 402C 19C4 0080 3056+ OWI BIT0080,SUPSTAT
00342A 4324 3018 3057+ MVA \$TUID,R3
00342E 6F13 18BA 3058+ BAL TUMSGWTR\*,R7 SET UP BUFFER STORAGE
3059+ GO TO MESSAGE WRITER
003432 3060+\$CONX EQU \*
003436 C720 19D0 3061+ MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI
003438 6013 3062+ SVC RIBC RELEASE INTERRUPT CONTROL BLOCK
00343B 6812 305A 3063+ B TURTN\* RETURN TO MDI SUPERVISOR
3064+
00343C 0009 3065+\$BEGIN DC A (0009) NUMBER OF LINES TO PRINT
00343E 0008 3066+ DC A (0008) LINE LENGTH = 8 CHAR
003440 5C5C40C1C2D6D9E3 3067+ DC C'\*\*\* ABORT'
003448 0028 3068+ DC A (0040) LINE LENGTH = 40 CHAR
00344A E3E4C9C440C9D6C9D 3069+ DC C'TUID IOIN ISB INST SECT ID DATA CSCC '
003472 0028 3070+ DC A (0040) LINE LENGTH = 40 CHAR
003474 40404040404040404040 3071+\$LINE1 DC C'
00347C 0028 3072+ DC A (0040) LINE LENGTH = 40 CHAR
00347E C3D5E3D340C4C3C2F 3073+ DC C'CNTRL DCB1 DCB2 DCB3 DCB4 CHAD BYCT ADRS '
003486 0028 3074+ DC A (0040) LINE LENGTH = 40 CHAR
003488 40404040404040404040 3075+\$LINE2 DC C'
0034F0 0028 3076+ DC A (0040) LINE LENGTH = 40 CHAR
0034F2 C3E260F040C3E260F 3077+ DC C'CS-0 CS-1 CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 '
00351A 0028 3078+ DC A (0040) LINE LENGTH = 40 CHAR
00351C 40404040404040404040 3079+\$LINE3 DC C'
003544 0028 3080+ DC A (0040) LINE LENGTH = 40 CHAR
003546 C3E260F840C3E260F 3081+ DC C'CS-8 CS-9 CS-A CS-B CS-C
00356E 0028 3082+ DC A (0040) LINE LENGTH = 40 CHAR
003570 40404040404040404040 3083+\$LINE4 DC C'
3084+
003598 0000 3085+\$BUFPT DC A (\*-\*)
00359A 343C 3086+\$DC2PT DC A (\$BEGIN)
00359C 0101 3087+\$FKXTU DC X'0101'
00359E 0101 3088+\$FAKETU DC X'0101'
00359F 0101 3089+\$PIDMSG10 EQU X'F1F0'
000080 3090+\$BIT0080 EQU X'0080'
3091+
3092+ DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC
3093+
3094+\$HEBLK DC A (58) NUMBER OF BYTES TO CONVERT
3095+ DC A (\$TUID) FROM ADRS
3096+ DC A (TUWORK) AND THE TO ADRS
3097+ COPY T7A52 28APR78
3098+ T7A52 TUIT
3099+\*\*\*\*\*06FEB76\*\*
3100+
3101+ TEST UNIT
3102+
3103+
3104+
3105+ PURPOSE
3106+
3107+ TEST THE CONFIGURATION RECORD FOR THE BASE FILE AT THIS
3108+ ADDRESS.
3109+
3110+ CALLING SEQUENCE
3111+
3112+ MDI=@TUXX,T7A52,1,80,OF'
3113+
3114+ TURESUL BIT(S) 0 -.....NOT BASE FILE
3115+
3116+ RETURN CONTROL
3117+
3118+ B TURTN\* RETURN TO MDI SUPERVISOR
3119+
3120+\*\*\*\*\*
3121+\$T7A52 MVW R7,TURTN SAVE RETURN ADDRESS
3122+ MVWI X'7A52', \$TUID SAVE TU ID FOR DISPLAY
3123+ MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3124+
3125+ MVDZ TURESUL,R0 CLEAR THE RESULTS AREA
3126+ MVA TURESUL,R2 LOAD RESULTS BASE REG.
3127+ CB DEVADD,DEVADD+3 TEST IF BASE FILE
3128+ JE T7A50X NO CONTINUE THIS MAP
3129+ TBTS (R2,0) SET NOT BASE FILE BIT
3130+ TXIT \* RESULTS AND EXIT
0035C6 6802 3432 3131+\$T7A50X B \$CONX RETURN TO MDI CONTROLLER
3132+\*\*\*\*\*
3133+ COPY T7A55 14AUG78
3134+ T7A55 TUIT
3135+\*\*\*\*\*06FEB76\*\*
3136+
3137+
3138+ TEST UNIT
3139+
3140+ DIRECT PROGRAM CONTROL INTERRUPTING CMDS
3141+
3142+ PURPOSE
3143+
3144+ THREE PARAMETERS ARE NEEDED FOR THE EXECUTION OF THIS TU AND ARE:
3145+
3146+ 1. ONE BYTE OF FUNCTION-MODIFIER, IE, X'4X' FOR DPC WRITE,
3147+ 2. TWO BYTES OF DATA TO BE USED IN THE SECOND PART OF THE IDCB,
3148+ IE, X'0005' TO BE SENT TO THE DEVICE.
3149+
3150+ THIS TEST UNIT PREPARES THE DEVICE AND EXPECTS AN INTERRUPT
3151+ AND WILL SEND BACK THE CONDITION CODES OF THE I/O AND INTR.
3152+
3153+ CALLING SEQUENCE
3154+
3155+ MDI=@TUXX,T7A55,2,0708,EQ,PLNG=6,PARM=FMXXXX'
3156+
3157+ TURESUL BIT(S) 0 - 15.....OIO CC INTR CC
3158+ 16 - 23.....INTERRUPT STATUS BYTE
3159+ 24.....CYCLE STEAL STATUS IO/INTR ERROR
3160+ 25.....CAP ERROR STATUS BIT
3161+ 32 - 47.....CYCLE STEAL STATUS WORD 4
3162+ 48 - 63.....CYCLE STEAL STATUS WORD 5
3163+
3164+ RETURN CONTROL
3165+
3166+ B TURTN\* RETURN TO MDI SUPERVISOR
3167+
3168+\*\*\*\*\*
3169+\$T7A55 MVW R7,TURTN SAVE RETURN ADDRESS

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
0035CE 4020 3018 7A55 3170+ MVW X'07A55',STUID SAVE TU ID FOR DISPLAY
0035D4 4424 3012 3171+ MVA OPTN1,R4 SET UP POINTER ADRS IN R4
0035D8 6E03 339C 3172+ BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
0035DC 33D0 3173+ DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
0035DE 4224 18C8 3174+ MVA TURESUL,R2 LOAD ADDR TURESULS BUFF IN REG 2
0035E2 4020 301A 0708 3175 MVWI X'0708',SIOIN INIT THE CONDITION CODES
0035E8 6908 189A 3176 MVA TUPARM1,R1 SET UP PARM ADRS
0035EC 8118 3658 3177 MVB (R1),T7A55L \* AND SET IN FUNCTION-MODIFIER
0035F0 8028 19D0 3659 3178 MVB (R1),T7A55L+1 \* FOLLOWED BY THE DEVICE ADRS
0035F6 8118 365A 3179 MVB (R1),T7A55L+2 \* AND SET IN EVEN BYTE DATA
0035FA 8118 365B 3180 MVB (R1),T7A55L+3 \* AND SET IN ODD BYTE DATA
0035FE 8020 3658 3181 MVD T7A55L,R0 GET FUNCTION, MODIFIER AND DEV ADRS
003602 680C 3658 3182 \* IO T7A55L \* AND THE SECOND WORD OF THE IDCB
003606 70AE 3183 CPLSR R5 ISSUE THE I/O COMMAND AND
003608 356A 3184 SRL 13,R5 \* GET THE I/O CONDITION CODE IN R5
00360A C528 301A 3185 MVB R5,SIOIN \* AND SAVE IT IN THE RESULTS
00360E 0DFF 3186 MVEI -1,R5 SET UP FOR DELAY
003610 6003 3187 MVB T7A55K SVC WAIT FOR INTERRUPT
003612 4CA3 3188 TBTR (R4,ER) HAS IT COME YET
003614 1201 3189 JN T7A55L \* YES, GET OUT OF DELAY
003616 BDFC 3190 JCT T7A55K,R5 \* NO, CHECK FOR TIME OUT
003618 9028 301A 18C8 3191 MVD T7A55M SIOIN,TURESUL PUT ANY INTR COND CODE FOUND IN
00361E C025 18CB 3192 MVB TURESUL+3,R0 CLEAR BYTE 3 OF TURESULS BUFFER
003622 4C21 3193 TBT (R4,ER) EXCEPTION INTERRUPT OCCUR?
003624 1001 3194 JOFF X7A55 NO - RETURN TO MDI
003626 9E02 3195 JAL IO5ER,R6 GO GET CYCLE STEAL STATUS INFO
003628 6802 3432 3196 X7A55 TXIT \* RESULTS AND EXIT
3197 B X7A55 RETURN TO MDI CONTROLLER
3198 \* \$CONX \*\*\*\*\*
3199 \*
3200 \*
3201 \*
3202 \*
3203 \*
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3400 \*

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
0036C4 9028 304E 1824 3285 MVD CST12,TUWORK+10 SAVE THE DIAG. SENSE BYTES
0036CA 8828 181A 18C8 3286 MVB TUWORK,TURESUL MOVE INTO TU RESULTS AREA
0036D0 9028 181C 18CA 3287 MVD TUWORK+2,TURESUL+2 \*
0036D6 9028 1820 18CE 3288 MVD TUWORK+6,TURESUL+6 \*
0036DC 9028 1824 18D2 3289 MVD TUWORK+10,TURESUL+10 \*
0036E2 402B 181C 0001 3290 TWI X'0001',TUWORK+2 CHECK INTERFACE ERROR?
0036E8 1202 3291 MVB T7A89 YES EXIT
0036EA C025 18D5 3292 MVBZ TURESUL+13,R0 CLEAR WRAP BYTE IF NO ERROR
3293 TXIT
3294 T7A89 \$CONX RETURN TO MDI CONTROLLER
3295 \*\*\*\*\*
3296 \*\*\*\*\*
3297 \*\*\*\*\*
3298 T7A13 TUIT \*\*\*\*\*06FEB76\*\*
3299 \*\*\*\*\*
3300 \*\*\*\*\*
3301 \*\*\*\*\*
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3400 \*\*\*\*\*
0036F2 6F0D 305A 3337 MVW R7,TURTN SAVE RETURN ADDRESS
0036F6 4020 3018 7A13 3338 MVWI X'7A13',STUID SAVE TU ID FOR DISPLAY
0036FC 4424 3012 3339 MVA OPTN1,R4 SET UP POINTER ADRS IN R4
003700 6E03 339C 3340 BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
003704 33D0 3341 DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
003706 D025 18C8 3342 MVDZ TURESUL,R0 CLEAR TU RESULTS BUFFER
00370A D025 18CC 3343 MVDZ TURESUL+4,R0 CLEAR TU RESULTS BUFFER
00370E 4224 18C8 3344 MVA TURESUL,R2 SETUP ADDR OF TURESUL IN REG 2
003712 4020 3A82 0006 3345 MVWI 6,LPCNT,\* SET UP LOOP COUNT
003718 6908 3A82 3346 MVW LPCNT,R1 \*
00371C 6B28 3156 3347 MVB (R1,PDATA),R3 GET PATTERN TO BE WRITTEN
003720 C328 18C8 3348 MVB R3,TURESUL MOVE PATTERN TO TURESULS
003724 6B0D 338C 3349 MVB R3,IDCB MOVE PATTERN TO 2ND WD OF IDCB
003728 4020 338E 0048 3350 MVWI X'0048',IOMOD SETUP WRITE DIAG WD 1 IDCB MOD
00372E 6E03 3214 3351 BAL \$WRTO,R6 WRITE DIAG WORD 1
003732 33D0 3352 DC A(\$ERR\$) ABORT TEST IF OTO ERROR
003734 4C21 3353 TBT (R4,ER) EXCEPTION INTERRUPT OCCUR?
003736 1002 3354 JOFF \*\*6 BYPASS CHECKING STATUS
003738 9E26 3355 JAL WD1ER,R6 YES - CHECK THE ERROR
00373A 4A49 3356 TBTS (R2,9) ERROR ON WRITE
00373C 4020 30EA 2088 3357 MVWI X'2088',RDDCB LOAD READ DIAG WORD 1 CNTL WD
003742 4020 30F6 0002 3358 MVB R2,RDDCB+12 SETUP BYTE CNT TO READ WD 1
003748 4020 30F8 38BA 3359 MVA RDBUF,RDDCB+14 SETUP ADDR OF READ BUFFER
003752 33D0 3360 BAL \$DGRD,R6 READ DIAG WORD
003754 4C21 3361 TBT A(\$ERR\$) ABORT TEST IF OTO ERROR
003756 1002 3362 JOFF \*\*6 EXCEPTION INTERRUPT OCCUR?
003758 9E16 3363 JAL WD1ER,R6 BYPASS CHECKING STATUS
00375A 4A4A 3364 TBTS (R2,10) YES - CHECK THE ERROR
00375C 6908 3A82 3365 MVW LPCNT,R1 VERIFY THAT DATA PATTERN READ
003760 6B28 3156 3366 MVB (R1,PDATA),R3 IS AS WRITTEN
003764 6B0F 38BA 3367 SW RDBUF,R3 \*
003768 1808 3368 JNZ PAT1 SET BIT ON TURESUL IF DATA ERR
00376A A829 3A84 3A82 3369 SW T202,LPCNT DECREASE LPCNT TO GET NEXT PATTERN
003770 1A53 3370 DPAT0 NO - CONTINUE TEST
003772 C025 18C8 3371 MVBZ TURESUL,R0 CLEAR PATTN IN TURESULS IF NO ERRS
003776 6802 3432 3372 TXIT RETURN TO MDI
3373 B \$CONX RETURN TO MDI CONTROLLER
3374 \*\*\*\*\*
3375 \*\*\*\*\*
3376 \*\*\*\*\*
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3400 \*\*\*\*\*
00377A C328 18C8 3372 PAT1 MVB R3,TURESUL SET RESULTS BIT THAT FAILED
00377E 4A4B 3373 TBTS (R2,11) SET RESULTS BIT ON FOR DATA ERROR
003780 9E02 3374 JAL WD1ER,R6 GET THE STATUS
003782 50F9 3375 J X7A13 RETURN TO MDI
003784 50F8 3376 J X7A13 RETURN TO MDI
003786 6E0D 37AA 3377 WD1ER MVW R6,T7A13+2 SAVE RETURN ADDRESS
00378A 6E03 328C 3378 BAL XIOCS,R6 GET CYCLE STEAL STATUS
00378E 33D0 3379 DC A(\$ERR\$) ABORT TEST IF ERROR
003790 4C21 3380 TBT (R4,ER) EXCEPTION INTR OCCUR?
003792 1210 3381 JON CSER0 YES - SET CSS INTR ERROR BIT ON
003794 9028 3040 18CA 3382 MVD CSTL5,TURESUL+2 MOVE CS STATUS WDS 4 & 5 IN TU BUF
00379A 8028 3051 18CE 3383 MVB CST13+1,TURESUL+6 MOVE WRAP BYTE IN TURESULS BUFFER
0037A0 402B 3040 602A 3384 TWI X'602A',CSTL5 CHECK IF CAP ERROR BIT ON
0037A6 1002 3385 JOFF T7A13A NO - RETURN
0037A8 6802 0000 3386 TA13 B RETURN
0037AC 4029 37AA 0002 3387 TA13A AWI 2,T7A13+2 BYPASS SETTING ERROR
0037B2 50FA 3388 J T7A13
0037B4 4A4D 3389 CSER0 TBTS (R2,13) CYCLE STEAL STATUS EXCEPTION INTR
0037B6 50DF 3390 J X7A13 RETURN TO MDI
0037B8 0000 3392 TRKNO DC A(\*\*\*)
0037BA 128F 3393 WRBUF DS 128F
0037BC 128F 3394 RDBUF DS 128F
0037BE 3395 COPY T7A14 15MAR78
0037C0 TUIT
0037C2 \*\*\*\*\*06FEB76\*\*
0037C4 \*\*\*\*\*
0037C6 \*\*\*\*\*
0037C8 \*\*\*\*\*
0037CA \*\*\*\*\*
0037CC \*\*\*\*\*
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003A00 \*\*\*\*\*

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3401\*\* FCB TEST
3402\*\* PURPOSE
3403\*\* VERIFY THAT ALL FCB WORDS CAN BE WRITTEN WITHOUT ERRORS.
3404\*\* WRITE TWO FCB WORDS WITH THE FOLLOWING PATTERN X'FFFF'.
3405\*\* CHECK FOR NO CAP ERRORS THEN CHECK THE WORDS WRITTEN
3406\*\* TO DETERMINE IF WORDS WERE WRITTEN CORRECTLY.
3407\*\* CALLING SEQUENCE
3408\*\* MDI=\$TUXX,'T7A14,02,0000,EQ'
3409\*\* TURESULS BIT(S) 0 - 7 ..... DATA PATTERN IN USE IF ERROR
3410\*\* ..... 8 ..... DISK UNIT PARITY CHECK
3411\*\* ..... 9 ..... ERROR ON WRITE TO FCB
3412\*\* ..... 10 ..... ERROR ON READ TO FCB
3413\*\* ..... 11 ..... DATA COMPARE ERROR
3414\*\* ..... 12 ..... CS STATUS ERROR (BIT 12 - WORD 4)
3415\*\* ..... 13 ..... CS STATUS IO INTERRUPT ERROR
3416\*\* ..... 14 - 15 ..... NOT USED
3417\*\* ..... 16 - 47 ..... CYCLE STEAL STATUS WORDS 4 & 5
3418\*\* ..... 48 - 55 ..... BYTE 2 OF CSS WORD 12 (WRAP BYTE)
3419\*\* ..... 64 - 79 ..... ERROR DATA WORD
3420\*\* RETURN CONTROL
3421\*\* B TURTN\* RETURN TO MDI SUPERVISOR
3422\*\* \*\*\*\*\*
3423\*\* T7A14 MVB R7,TURTN SAVE RETURN ADDRESS
3424\*\* MVI X'7A14', \$TUID SAVE TU ID FOR DISPLAY
3425\*\* MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3426\*\* BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3427\*\* DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3428\*\* MVDZ TURESUL,R0 CLEAR TU RESULTS BUFFER
3429\*\* MVDZ TURESUL+4,R0 CLEAR TU RESULTS BUFFER
3430\*\* MVA TURESUL,R2 SETUP ADDR OF TURESUL IN REG 2
3431\*\* MVA WRBUF,WRDCB+14 GET DATA PATTERN ADDRESS
3432\*\* MVI 32,WRDCB+12 SETUP BYTE CNT TO WRITE FCB
3433\*\* MVI X'0020',WRDCB LOAD WRITE FCB DCB CNTL WORD
3434\*\* MVI X'1212',R3 SET PATTERN TO BE WRITTEN
3435\*\* MVB R3,TURESUL MOVE PATTERN TO TURESULS
3436\*\* MVI 32,R7 SETUP NUMBER OF BYTES TO INITIALIZE
3437\*\* MVA WRBUF,R5 GET ADDRESS OF WRITE BUFFER
3438\*\* MVI R3,(R5) INITIALIZE WRITE BUFFER WITH PATTERN
3439\*\* MVI X'FFFF',WRBUF+20 LOAD WRITE BUFFER WORD PATTERN
3440\*\* MVI X'FFFF',WRBUF+22 LOAD WRITE BUFFER WORD PATTERN
3441\*\* BAL \$DGRW,R6 WRITE ALL WORDS OF FCB
3442\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3443\*\* TBT (R4,ER) EXCEPTION INTERRUPT OCCUR?
3444\*\* JAL CAPER,R6 YES - CHECK THE STATUS
3445\*\* TBTS (R2,9) ERROR ON WRITE TO FCB
3446\*\* BAL XIOCS,R6 GET CYCLE STEAL STATUS
3447\*\* DC A(\$ERR\$) ABORT TEST IF ERROR
3448\*\* TBT (R4,ER) EXCEPTION INTR OCCUR?
3449\*\* JON CSSER YES - SET CSS INTR ERROR BIT ON
3450\*\* SW R1,R1 CLEAR REG 1
3451\*\* MVA WRBUF+22,R5 SET THE READ ADDRESS
3452\*\* MVI 2,R7 VERIFY THAT 2 WORDS OF THE
3453\*\* MVA CSTL9,R3 \* FCB OF THE SELECTED FILE
3454\*\* CW (R5)+,(R3)+ \* WERE WRITTEN WITH THE FF'S
3455\*\* JBE PCBER \* SET BIT ON IN TURESUL IF DATA ERR
3456\*\* -1,R7 \*
3457\*\* JNZ L7A14 \*
3458\*\* MVBZ TURESUL,R0 CLEAR PATTN IN TURESULS IF NO ERRS
3459\*\* TXIT RETURN TO MDI
3460\*\* X7A14 B \$CONX RETURN TO MDI CONTROLLER
3461\*\* X7A14 \*\*\*\*\*
3462\*\* \*
3463\*\* FCBER TBTS (R2,11) SET RESULTS BIT ON FOR DATA ERROR
3464\*\* SW (R5,-2),(R3,-2) \*
3465\*\* MVB (R3,-2),TURESUL+8 \*
3466\*\* JAL CAPER,R6 GET THE STATUS
3467\*\* J X7A14 RETURN TO MDI
3468\*\* J X7A14 RETURN TO MDI
3469\*\* MVB R6,TA14+2 SAVE THE RETURN
3470\*\* BAL XIOCS,R6 GET CYCLE STEAL STATUS
3471\*\* DC A(\$ERR\$) ABORT TEST IF ERROR
3472\*\* TBT (R4,ER) EXCEPTION INTR OCCUR?
3473\*\* JON CSSER YES - SET CSS INTR ERROR BIT ON
3474\*\* MVD CSTL5,TURESUL+2 MOVE CS STATUS WDS 4 & 5 IN TU BUF
3475\*\* MVB CST13+1,TURESUL+6 MOVE WRAP BYTE IN TURESULS BUFFER
3476\*\* TWI X'602A',CSTL5 CHECK CAP ERROR BITS
3477\*\* JOFF TA14A NO - RETURN
3478\*\* B \* RETURN
3479\*\* TA14A AWI 2,TA14+2 SET ERROR
3480\*\* J TA14 RETURN
3481\*\* TBTS (R2,13) CYCLE STEAL STATUS EXCEPTION INTR
3482\*\* J X7A14 RETURN TO MDI
3483\*\* \*
3484\*\* LPCNT DC X'0006' PATTERN LPCNT
3485\*\* TW02 DC X'0002' DECIMAL NUMBER 2
3486\*\* COPY T7A18 26APR78
3487\*\* TUIT \*\*\*\*\*06FEB76\*\*
3500\*\* \*\*\*\*\*
3501\*\* TEST UNIT
3502\*\* SINGLE INSTRUCTION MODE CHECK
3503\*\* PURPOSE
3504\*\* TO VERIFY THAT THE CAP ACCUMULATOR AND FILE CONTROL BLOCK
3505\*\* CAN BE WRITTEN/READ.
3506\*\* CALLING SEQUENCE
3507\*\* EXECUTE COMMANDS IN SINGLE INSTRUCTION MODE.
3508\*\* READ FCB 0 WORD 4.
3509\*\* PASS DATA WORD READ FROM FCB 0 WORD 4 TO TURESULS.
3510\*\*
3511\*\*
3512\*\*
3513\*\*
3514\*\*
3515\*\*

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3516\*\* MDI=\$TUXX,'T7A18,02,XXXX,EQ,PLNG=XX,PARM=XXXX/XXXX...'
3517\*\* TURESUL BIT(S) 0 - 15 ..... FCB 0 WORD 4 DATA WORD
3518\*\* RETURN CONTROL
3519\*\* B TURTN\* RETURN TO MDI SUPERVISOR
3520\*\* \*\*\*\*\*
3521\*\* T7A18 MVB R7,TURTN SAVE RETURN ADDRESS
3522\*\* MVI X'7A18', \$TUID SAVE TU ID FOR DISPLAY
3523\*\* MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3524\*\* BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3525\*\* DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3526\*\* MVBZ TURESUL,R0 CLEAR RESULTS AREA
3527\*\* \*
3528\*\* MVI X'0049',IOMOD LOAD DIAG WD 2 IDCB MODIFIER
3529\*\* MVI X'0008',IODCB SET CAP TO DIAG INSTR & CNTRL MODE
3530\*\* BAL \$WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3531\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3532\*\* TBT (R4,ER) TEST FOR ERROR
3533\*\* JOFF \*+4 BYPASS ERROR CHECK
3534\*\* JAL T18ER,R6 EXIT ON ERROR
3535\*\* \*
3536\*\* MVB TUPARM1,R0 GET NO. OF COMMANDS IN TABLE
3537\*\* MVB TUPARM2,R2 GET ADDR OF COMMAND TABLE
3538\*\* BAL 1,R0 COMPUTE ADDRESS OF LAST ENTRY
3539\*\* R2,R0 \* OF COMMANDS IN TABLE
3540\*\* MVB R0,LCMMD SAVE IT
3541\*\* MVB (R2)+,R0 GET COMMAND TO XEQ IN SINGLE MODE
3542\*\* VR R0 INVERT COMMAND
3543\*\* MVB R0,IODCB LOAD COMMAND IN 2ND WORD OF IDCB
3544\*\* MVI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3545\*\* BAL \$WRTO,R6 WRITE DIAG WORD 1
3546\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3547\*\* TBT (R4,ER) TEST FOR ERROR
3548\*\* JOFF \*+4 BYPASS ERROR CHECK
3549\*\* JAL T18ER,R6 EXIT ON ERROR
3550\*\* JAL WRTSN,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3551\*\* LCMMD,R2 HAVE ALL COMMANDS BEEN EXECUTED?
3552\*\* JNE INSTR NO - GO EXECUTE NEXT COMMAND
3553\*\* \*
3554\*\* MVI X'FF82',IODCB LOAD 2ND WORD OF IDCB
3555\*\* MVI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3556\*\* BAL \$WRTO,R6 WRITE DIAGNOSTIC WORD 1
3557\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3558\*\* TBT (R4,ER) TEST FOR ERROR
3559\*\* JOFF \*+4 BYPASS ERROR CHECK
3560\*\* JAL T18ER,R6 EXIT ON ERROR
3561\*\* JAL WRTSN,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3562\*\* \*
3563\*\* MVI X'0049',IOMOD LOAD DIAG WD 2 IDCB MODIFIER
3564\*\* MVI X'0008',IODCB SET CAP TO ACTIVE MODE
3565\*\* BAL \$WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3566\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3567\*\* TBT (R4,ER) TEST FOR ERROR
3568\*\* JOFF \*+4 BYPASS ERROR CHECK
3569\*\* JAL T18ER,R6 EXIT
3570\*\* MVI X'00FF',R0 DELAY LOOP
3571\*\* SVC IDLE5 \*
3572\*\* JCT T18LP,R0 \*
3573\*\* \*
3574\*\* BAL XIOCS,R6 GET CYCLE STEAL STATUS
3575\*\* DC A(\$ERR\$) ABORT TEST IF ERROR
3576\*\* TBT (R4,ER) EXCEPTION INTR OCCUR?
3577\*\* JON TA18A YES - SET CSS INTR ERROR BIT ON
3578\*\* MVB CSTL8,TURESUL SAVE FCB 0 WD 7 IN 'TURESULS'
3579\*\* J T18EX \*
3580\*\* \*
3581\*\* MVB R6,TA18+2 SAVE RETURN ADDRESS
3582\*\* BAL XIOCS,R6 GET CYCLE STEAL STATUS
3583\*\* DC A(\$ERR\$) ABORT TEST IF ERROR
3584\*\* TBT (R4,ER) EXCEPTION INTR OCCUR?
3585\*\* JON TA18A YES - SET CSS INTR ERROR BIT ON
3586\*\* MVB CSTL8,TURESUL SAVE FCB 0 WD 7 IN 'TURESULS'
3587\*\* J T18EX \*
3588\*\* \*
3589\*\* MVB R6,RETRN+2 SAVE RETURN ADDRESS
3590\*\* MVI X'000E',IODCB LOAD 2ND WORD OF IDCB
3591\*\* MVI X'0049',IOMOD LOAD WRITE DIAG WD 2 IDCB MODIFIER
3592\*\* BAL \$WRTO,R6 WRITE DIAGNOSTIC WORD 2
3593\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3594\*\* TBT (R4,ER) TEST FOR ERROR
3595\*\* JOFF \*+4 BYPASS ERROR CHECK
3596\*\* JAL T18ER,R6 EXIT OK
3597\*\* MVI X'2089',RDCB LOAD READ DIAG WD 2 DCB CNTL WD
3598\*\* MVI 2,RDDCB+12 LOAD BYTE COUNT
3599\*\* MVA RDBUF,RDDCB+14 LOAD ADDRESS OF DATA BUFFER
3600\*\* BAL \$DGRW,R6 READ DIAGNOSTIC WORD 2
3601\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3602\*\* TBT (R4,ER) TEST FOR ERROR
3603\*\* JOFF \*+4 BYPASS ERROR CHECK
3604\*\* JAL T18ER,R6 EXIT OK
3605\*\* TBT X'0010',RDBUF CHECK FOR 'CONTRLLR CYCLE COMPLETE'
3606\*\* JOFF WCCO WAIT TILL 'CONTRLLR CYCL
3607\*\* B \* RETURN TO CALLER
3608\*\* \*
3609\*\* LCMMD DC A(\*-\*) ADDR OF LAST CMD IN TABLE
3610\*\* COPY T7A30 06JUN78
3611\*\* TUIT \*\*\*\*\*06FEB76\*\*
3612\*\* \*\*\*\*\*
3613\*\* TEST UNIT
3614\*\* SINGLE INSTRUCTION MODE CHECK
3615\*\* PURPOSE
3616\*\* TO VERIFY THAT THE CAP ACCUMULATOR AND FILE CONTROL BLOCK
3617\*\* CAN BE WRITTEN/READ.
3618\*\* CALLING SEQUENCE
3619\*\* EXECUTE COMMANDS IN SINGLE INSTRUCTION MODE.
3620\*\* READ FCB 0 WORD 4.
3621\*\* PASS DATA WORD READ FROM FCB 0 WORD 4 TO TURESULS.
3622\*\*
3623\*\*
3624\*\*
3625\*\*
3626\*\*
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3629\*\*

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
3630\*\*
3631\*\* PURPOSE
3632\*\*
3633\*\* TO VERIFY THAT THE CAP ACCUMULATOR AND FILE CONTROL BLOCK
3634\*\* CAN BE WRITTEN/READ.
3635\*\*
3636\*\* CALLING SEQUENCE
3637\*\*
3638\*\* EXECUTE COMMANDS IN SINGLE INSTRUCTION MODE.
3639\*\* READ FCB 0 WORD 4.
3640\*\* PASS DATA WORD READ FROM FCB 0 WORD 4 TO TO TURESULS.
3641\*\*
3642\*\* MDI=\$TUXX,'T7A30,02,0000,OF,PLNG=XX,PARM=CCCC/DDDD....'
3643\*\* C= COUNT OF DATA WORDS PASSED, D= DATA WORDS.
3644\*\*
3645\*\* TURESUL BIT(S) 0 - 7 ..... FCB 0 WORD 4 DATA WORD
3646\*\*
3647\*\* RETURN CONTROL
3648\*\*
3649\*\* B TURTN\* RETURN TO MDI SUPERVISOR
3650\*\*
3651\*\* \*\*\*\*\*
3652\*\* T7A30 MVM R7,TURTN SAVE RETURN ADDRESS
3653\*\* MVI X'7A30',STUID SAVE TU ID FOR DISPLAY
3654\*\* MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3655\*\* BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3656\*\* DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3657\*\*
3658\*\* MVWZ TURESUL,R0 CLEAR RESULTS AREA
3659\*\*
3660\*\* MVI X'0049',IOMOD SET CAP RESET
3661\*\* BAL \$WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3662\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3663\*\* TBT (R4,ER) TEST ERROR
3664\*\* JON T30ER EXIT IF ON
3665\*\*
3666\*\* MVI X'0049',IOMOD LOAD DIAG WD 2 IDCB MODIFIER
3667\*\* MVI X'0008',IODCB SET CAP TO DIAG INSTR & CNTRL MODE
3668\*\* BAL \$WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3669\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3670\*\* TBT (R4,ER) TEST ERROR
3671\*\* JON T30ER EXIT IF ON
3672\*\*
3673\*\* MVW TUPARM1\*,R0 GET NO. OF COMMANDS IN TABLE
3674\*\* MVW TUPARM2,R2 GET ADDR OF COMMAND TABLE
3675\*\* SLL 1,R0 COMPUTE ADDRESS OF LAST ENTRY
3676\*\* AW R2,R0 \* OF COMMANDS IN TABLE
3677\*\* MVW R0,LCHM0 GET COMMAND TO XEQ IN SINGLE MODE
3678\*\* MVW (R2)+,R0 INVERT COMMAND
3679\*\* VR R0 LOAD COMMAND IN 2ND WORD OF IDCB
3680\*\* MVI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3681\*\* BAL \$WRTO,R6 WRITE DIAG WORD 1
3682\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3683\*\* TBT (R4,ER) TEST ERROR
3684\*\* JON T30ER EXIT IF ON
3685\*\* JAL WRTS0,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3686\*\* CW LCHM0,R2 HAVE ALL COMMANDS BEEN EXECUTED?
3687\*\* JNE INST0 NO - GO EXECUTE NEXT COMMAND
3688\*\*
3689\*\* MVI X'FFFF',IODCB LOAD 2ND WORD OF IDCB
3690\*\* MVI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3691\*\* BAL \$WRTO,R6 WRITE DIAGNOSTIC WORD 1
3692\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3693\*\* TBT (R4,ER) TEST ERROR
3694\*\* JON T30ER EXIT IF ON
3695\*\* JAL WRTS0,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3696\*\*
3697\*\* T7A0E MVI X'0000',TURESUL SET GOOD 'TURESULS'
3698\*\* J T30EX
3699\*\* B \$ERR\$ ABORT IF ERROP
3700\*\* T30EX TXIT
3701\*\* T30EX B \$CONX RETURN TO MDI CONTROLLER
3702\*\* T30EX B \$CONX
3703\*\* \*\*\*\*\*
3704\*\*
3705\*\* WRTS0 MVM R6,RETRO+2 SAVE RETURN ADDRESS
3706\*\* MVI X'000E',IODCB LOAD 2ND WORD OF IDCB
3707\*\* MVI X'0049',IOMOD LOAD WRITE DIAG WD 2 IDCB MODIFIER
3708\*\* BAL \$WRTO,R6 WRITE DIAGNOSTIC WORD 2
3709\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3710\*\* TBT (R4,ER) TEST ERROR
3711\*\* JON T30ER EXIT IF ON
3712\*\* MVI X'2089',RDDCB LOAD READ DIAG WD 2 DCB CNTL WD
3713\*\* MVW 2,RDDCB+12 LOAD BYTE COUNT
3714\*\* MVA RDBUF,RDDCB+14 LOAD ADDRESS OF DATA BUFFER
3715\*\* BAL \$DGRD,R6 READ DIAGNOSTIC WORD 2
3716\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3717\*\* TBT (R4,ER) TEST ERROR
3718\*\* JON T30ER EXIT IF ON
3719\*\* TWI X'0010',RDBUF CHECK FOR 'CONTRLLR CYCLE COMPLETE'
3720\*\* JOFF WCC0 WAIT TILL 'CONTRLLR CYCL
3721\*\* RETRO B \*-\* RETURN TO CALLER
3722\*\*
3723\*\* LCHM0 DC A(\*-\*) ADDR OF LAST CMD IN TABLE
3724\*\* COPY T7A31
3725\*\* T7A31 TUIT 06JUN78
3726\*\* \*\*\*\*\*
3727\*\*
3728\*\* TEST UNIT
3729\*\*
3730\*\* SINGLE INSTRUCTION MODE CHECK
3731\*\*
3732\*\* PURPOSE
3733\*\*
3734\*\* TO VERIFY THAT THE CAP ACCUMULATOR AND FILE CONTROL BLOCK
3735\*\* CAN BE WRITTEN/READ.
3736\*\*
3737\*\* CALLING SEQUENCE
3738\*\*
3739\*\* EXECUTE COMMANDS IN SINGLE INSTRUCTION MODE.
3740\*\* READ FCB 0 WORD 0.
3741\*\* PASS DATA WORD READ FROM FCB 0 WORD 0 TO TO TURESULS.
3742\*\*
3743\*\* MDI=\$TUXX,'T7A31,02,8000,OF'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
3744\*\*
3745\*\* TURESUL BIT(S) 0 - 7 ..... FCB 0 WORD 0 DATA WORD
3746\*\*
3747\*\* RETURN CONTROL
3748\*\*
3749\*\* B TURTN\* RETURN TO MDI SUPERVISOR
3750\*\*
3751\*\* \*\*\*\*\*
3752\*\* T7A31 MVM R7,TURTN SAVE RETURN ADDRESS
3753\*\* MVI X'7A31',STUID SAVE TU ID FOR DISPLAY
3754\*\* MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3755\*\* BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3756\*\* DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3757\*\*
3758\*\* MVWZ TURESUL,R0 CLEAR RESULTS AREA
3759\*\*
3760\*\* MVI X'0049',IOMOD LOAD DIAG WD 2 IDCB MODIFIER
3761\*\* MVI X'0808',IODCB SET CAP TO DIAG INSTR & CNTRL MODE
3762\*\* BAL \$WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3763\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3764\*\* TBT (R4,ER) TEST FOR ERROR
3765\*\* JON T31ER EXIT IF ON
3766\*\*
3767\*\* MVW TUPARM1\*,R0 GET NO. OF COMMANDS IN TABLE
3768\*\* MVW TUPARM2,R2 GET ADDR OF COMMAND TABLE
3769\*\* SLL 1,R0 COMPUTE ADDRESS OF LAST ENTRY
3770\*\* AW R2,R0 \* OF COMMANDS IN TABLE
3771\*\* MVW R0,LCHM1 SAVE IT
3772\*\* INSTR1 MVW (R2)+,R0 GET COMMAND TO XEQ IN SINGLE MODE
3773\*\* VR R0 INVERT COMMAND
3774\*\* MVI X'0048',IOMOD LOAD COMMAND IN 2ND WORD OF IDCB
3775\*\* MVI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3776\*\* BAL \$WRTO,R6 WRITE DIAG WORD 1
3777\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3778\*\* TBT (R4,ER) TEST FOR ERROR
3779\*\* JON T31ER EXIT IF ON
3780\*\* JAL WRTS1,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3781\*\* CW LCHM1,R2 HAVE ALL COMMANDS BEEN EXECUTED?
3782\*\* JNE INSTR1 NO - GO EXECUTE NEXT COMMAND
3783\*\*
3784\*\* MVI X'FFFF',IODCB LOAD 2ND WORD OF IDCB
3785\*\* MVI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3786\*\* BAL \$WRTO,R6 WRITE DIAGNOSTIC WORD 1
3787\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3788\*\* TBT (R4,ER) TEST FOR ERROR
3789\*\* JON T31ER EXIT IF ON
3790\*\* JAL WRTS1,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3791\*\*
3792\*\* T7A3E1 MVI X'0000',TURESUL SET GOOD 'TURESULS'
3793\*\* J T31EX
3794\*\* T31EX B \$ERR\$ ABORT IF ERROR
3795\*\* T31EX TXIT
3796\*\* T31EX B \$CONX RETURN TO MDI CONTROLLER
3797\*\* \*\*\*\*\*
3798\*\*
3799\*\* WRTS1 MVM R6,RETR1+2 SAVE RETURN ADDRESS
3800\*\* MVI X'080E',IODCB LOAD 2ND WORD OF IDCB
3801\*\* MVI X'0049',IOMOD LOAD WRITE DIAG WD 2 IDCB MODIFIER
3802\*\* BAL \$WRTO,R6 WRITE DIAGNOSTIC WORD 2
3803\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3804\*\* TBT (R4,ER) TEST FOR ERROR
3805\*\* JON T31ER EXIT IF ON
3806\*\* MVI X'2089',RDDCB LOAD READ DIAG WD 2 DCB CNTL WD
3807\*\* MVW 2,RDDCB+12 LOAD BYTE COUNT
3808\*\* MVA RDBUF,RDDCB+14 LOAD ADDRESS OF DATA BUFFER
3809\*\* BAL \$DGRD,R6 READ DIAGNOSTIC WORD 2
3810\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR
3811\*\* TBT (R4,ER) TEST FOR ERROR
3812\*\* JON T31ER EXIT IF ON
3813\*\* TWI X'0010',RDBUF CHECK FOR 'CONTRLLR CYCLE COMPLETE'
3814\*\* JOFF WCC1 WAIT TILL 'CONTRLLR CYCL
3815\*\* RETR1 B \*-\* RETURN TO CALLER
3816\*\*
3817\*\* LCHM1 DC A(\*-\*) ADDR OF LAST CMD IN TABLE
3818\*\* COPY T7A32
3819\*\* T7A32 TUIT 06JUN78
3820\*\* \*\*\*\*\*
3821\*\*
3822\*\* TEST UNIT
3823\*\*
3824\*\* SINGLE INSTRUCTION MODE CHECK
3825\*\*
3826\*\* PURPOSE
3827\*\*
3828\*\* TO VERIFY THAT THE CAP ACCUMULATOR AND FILE CONTROL BLOCK
3829\*\* CAN BE WRITTEN/READ.
3830\*\*
3831\*\* CALLING SEQUENCE
3832\*\*
3833\*\* EXECUTE COMMANDS IN SINGLE INSTRUCTION MODE.
3834\*\* READ FCB 0 WORD 4.
3835\*\* PASS DATA WORD READ FROM FCB 0 WORD 4 TO TO TURESULS.
3836\*\*
3837\*\* MDI=\$TUXX,'T7A32,02,8000,OF'
3838\*\*
3839\*\* TURESUL BIT(S) 0 - 7 ..... FCB 0 WORD 4 DATA WORD
3840\*\*
3841\*\* RETURN CONTROL
3842\*\*
3843\*\* B TURTN\* RETURN TO MDI SUPERVISOR
3844\*\*
3845\*\* \*\*\*\*\*
3846\*\* T7A32 MVM R7,TURTN SAVE RETURN ADDRESS
3847\*\* MVI X'7A32',STUID SAVE TU ID FOR DISPLAY
3848\*\* MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3849\*\* BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3850\*\* DC A(\$ERR\$) ERROR ADRS FOR INVALID PREP
3851\*\*
3852\*\* MVWZ TURESUL,R0 CLEAR RESULTS AREA
3853\*\*
3854\*\* MVI X'0049',IOMOD LOAD DIAG WD 2 IDCB MODIFIER
3855\*\* MVI X'0A08',IODCB SET CAP TO DIAG INSTR & CNTRL MODE
3856\*\* BAL \$WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3857\*\* DC A(\$ERR\$) ABORT TEST IF I/O ERROR

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003D42 4C21 3858 TBT (R4,ER) TEST FOR ERROR
003D44 1228 3859 JON T32ER EXIT IF ON
3860 *
003D46 6818 189A 3861 MVW TUPARM1*,R0 GET NO. OF COMMANDS IN TABLE
003D4A 6A08 189C 3862 MVW TUPARM2,R2 GET ADDR OF COMMAND TABLE
003D4E 3009 3863 SLL 1,R0 COMPUTE ADDRESS OF LAST ENTRY
003D50 7208 3864 AW R2,R0 * OF COMMANDS IN TABLE
003D52 680D 3DCE 3865 MVW R0,LCMM2 SAVE IT
003D56 C890 3866 INST2 MVW (R2)+,R0 GET COMMAND TO XEQ IN SINGLE MODE
003D58 700D 3867 VR R0 INVERT COMMAND
003D5A 680D 338C 3868 MVW R0,IODCB LOAD COMMAND IN 2ND WORD OF IDCB
003D5E 4020 338E 0048 3869 MVWI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
003D64 6E03 3214 3870 BAL $WRTO,R6 WRITE DIAG WORD 1
003D68 33D0 3871 DC A($ERR$) ABORT TEST IF I/O ERROR
003D6A 4C21 3872 TBT (R4,ER) TEST FOR ERROR
003D6C 1214 3873 JON T32ER EXIT IF ON
003D6E 9E17 3874 JAL WRTS2,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
003D70 CA24 3DCE 3875 JAL LCMM2,R2 HAVE ALL COMMANDS BEEN EXECUTED?
003D74 18F0 3876 JNE INST2 NO - GO EXECUTE NEXT COMMAND
3877 *
003D76 4020 338C FFFF 3878 MVWI X'FFFF',IODCB LOAD 2ND WORD OF IDCB
003D7C 4020 338E 0048 3879 MVWI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
003D82 6E03 3214 3880 BAL $WRTO,R6 WRITE DIAGNOSTIC WORD 1
003D86 33D0 3881 DC A($ERR$) ABORT TEST IF I/O ERROR
003D88 4C21 3882 TBT (R4,ER) TEST FOR ERROR
003D8A 1205 3883 JON T32ER EXIT IF ON
003D8C 9E08 3884 JAL WRTS2,R6 WAIT FOR CONTROLLER CYCLE COMPLETE
3885 *
003D8E 4020 18C8 0000 3886 T7A2E MVWI X'0000',TURESUL SET GOOD 'TURESULS'
003D94 5002 3887 J T32ER
003D96 6802 33D0 3888 T32ER B $ERR$ ABORT IF ERROR
3889 T32EX TXIT
003D9A 6802 3432 3890 T32EX B $CONX RETURN TO MDI CONTROLLER
3891 *****
3892 *
003D9E 6E0D 3DCC 3893 WRTS2 MVW R6,RETR2+2 SAVE RETURN ADDRESS
003DA2 4020 338C 0A0E 3894 MVWI X'0A0E',IODCB LOAD 2ND WORD OF IDCB
003DA8 4020 338E 0049 3895 MVWI X'0049',IOMOD LOAD WRITE DIAG WD 2 IDCB MODIFIER
003DAE 6E03 3214 3896 BAL $WRTO,R6 WRITE DIAGNOSTIC WORD 2
003DB2 33D0 3897 DC A($ERR$) ABORT TEST IF I/O ERROR
003DB4 4C21 3898 TBT (R4,ER) TEST FOR ERROR
003DB6 12EF 3899 JON T32ER EXIT IF ON
003DB8 4020 30EA 2089 3900 MVWI X'2089',RDDCB LOAD READ DIAG WD 2 DCB CNTL WD
003DBE 4020 30F6 0002 3901 MVW 2,RDDCB+12 LOAD BYTE COUNT
003DC4 4020 30F8 38BA 3902 MVA RDBUF,RDDCB+14 LOAD ADDRESS OF DATA BUFFER
3903 *CC2 BAL $DGRD,R6 READ DIAGNOSTIC WORD 2
3904 DC A($ERR$) ABORT TEST IF I/O ERROR
3905 * TBT (R4,ER) TEST FOR ERROR
3906 * JON T32ER EXIT IF ON
3907 * TWI X'0010',RDBUF CHECK FOR 'CONTRLLR CYCLE COMPLETE'
003DCA 6802 0000 3908 * JOFF WCC2 WAIT TILL 'CONTRLLR CYCL
3909 RETR2 B *-* RETURN TO CALLER
3910 *
003DCE 0000 3911 LCMM2 DC A(*-*) ADDR OF LAST CMD IN TABLE
3912 COPY T7A33 06JUN78
3913 T7A33 TUIT
3914 *****06FEB76**
3915 *
3916 * TEST UNIT
3917 *
3918 * SINGLE INSTRUCTION MODE CHECK
3919 *
3920 * PURPOSE
3921 *
3922 * TO VERIFY THAT THE CAP ACCUMULATOR AND FILE CONTROL BLOCK
3923 * CAN BE WRITTEN/READ.
3924 *
3925 * CALLING SEQUENCE
3926 *
3927 * EXECUTE COMMANDS IN SINGLE INSTRUCTION MODE.
3928 * READ FCB 0 WORD 4.
3929 * PASS DATA WORD READ FROM FCB 0 WORD 4 TO TURESULS.
3930 *
3931 * MDI=$TUXX,'T7A33,02,8000,0F'
3932 *
3933 * TURESUL BIT(S) 0 - 15 ..... FCB 0 WORD 4 DATA WORD
3934 * 16 - 79 ..... DATA BUFFER 1 WDS 0 - 3
3935 *
3936 * RETURN CONTROL
3937 *
3938 * B TURTN* RETURN TO MDI SUPERVISOR
3939 *
3940 *****
3941 T7A33 MVW R7,TURTN SAVE RETURN ADDRESS
3942 MVWI X'7A33',STUID SAVE TU ID FOR DISPLAY
3943 MVA OPTN1,R4 SET UP POINTER ADRS IN R4
3944 BAL $SCON,R6 CLEAR DEV DEP STG AND CONNECT I/O BL
3945 DC A($ERR$) ERROR ADRS FOR INVALID PREP
3946 *
3947 * MVWZ TURESUL,R0 CLEAR RESULTS AREA
3948 *
3949 * MVWI X'0049',IOMOD LOAD DIAG WD 2 IDCB MODIFIER
3950 MVWI X'0008',IODCB SET CAP TO DIAG INSTR & CNTRL MODE
3951 BAL $WRTO,R6 WRITE CAP DIAGNOSTIC WORD 2
3952 DC A($ERR$) ABORT TEST IF I/O ERROR
3953 TBT (R4,ER) TEST FOR ERROR
3954 *+4 JOFF BYPASS ERROR CHECK
3955 *+4 JAL T33ER,R6 EXIT IF ON
3956 *
3957 * MVW TUPARM1*,R0 GET NO. OF COMMANDS IN TABLE
3958 MVW TUPARM2,R2 GET ADDR OF COMMAND TABLE
3959 SLL 1,R0 COMPUTE ADDRESS OF LAST ENTRY
3960 AW R2,R0 * OF COMMANDS IN TABLE
3961 MVW R0,LCMM3 SAVE IT
3962 INST3 MVW (R2)+,R0 GET COMMAND TO XEQ IN SINGLE MODE
3963 VR R0 INVERT COMMAND
3964 MVW R0,IODCB LOAD COMMAND IN 2ND WORD OF IDCB
3965 MVWI X'0048',IOMOD LOAD WRITE DIAG WD 1 IDCB MODIFIER
3966 BAL $WRTO,R6 WRITE DIAG WORD 1
3967 DC A($ERR$) ABORT TEST IF I/O ERROR
3968 TBT (R4,ER) TEST FOR ERROR
3969 *+4 JOFF BYPASS ERROR CHECK
3970 *+4 JAL T33ER,R6 EXIT IF ON
3971 *+4 JAL WRTS3,R6 WAIT FOR CONTROLLER CYCLE COMPLETE

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003E2C CA24 3F24 3972 CW LCMM3,R2
003E30 18EF 3973 JNE INST3
3974 *
003E32 4020 338E 004F 3975 MVWI X'004F',IOMOD
003E38 6E03 3214 3976 BAL $WRTO,R6
003E3C 33D0 3977 DC A($ERR$)
003E3E 4C21 3978 TBT (R4,ER)
003E40 1021 3979 JOFF *+4
003E42 9E3F 3980 JAL T33ER,R6
3981 *
003E44 4020 30EA 2013 3982 MVWI X'2013',RDDCB
003E4A 4020 30F0 0001 3983 MVWI 1,RDDCB+6
003E50 4020 30F6 0100 3984 MVWI 256,RDDCB+12
003E56 6E03 31B2 3985 BAL $RD,R6
003E5A 33D0 3986 DC A($ERR$)
003E5C 4C21 3987 TBT (R4,ER)
003E5E 1001 3988 JOFF *+4
003E60 9E30 3989 JAL T33ER,R6
003E62 9028 38BA 18C8 3990 MVD RDBUF,TURESUL
003E68 9028 38BE 18CC 3991 MVD RDBUF+4,TURESUL+4
3992 *
003E6E 4020 338E 0049 3993 MVWI X'0049',IOMOD
003E74 4020 338C 0008 3994 MVWI X'0008',IODCB
003E7A 6E03 3214 3995 BAL $WRTO,R6
003E7E 33D0 3996 DC A($ERR$)
003E80 4C21 3997 TBT (R4,ER)
003E82 1001 3998 JOFF *+4
003E84 9E1E 3999 JAL T33ER,R6
003E86 4020 338C FFFF 4000 MVWI X'FFFF',IODCB
003E8C 4020 338E 0048 4001 MVWI X'0048',IOMOD
003E92 6E03 3214 4002 BAL $WRTO,R6
003E96 33D0 4003 DC A($ERR$)
003E98 4C21 4004 TBT (R4,ER)
003E9A 1001 4005 JOFF *+4
003E9C 9E12 4006 JAL T33ER,R6
003E9E 9E29 4007 JAL WRTS3,R6
4008 *
003EA0 4020 338E 0049 4009 T7ER3 MVWI X'0049',IOMOD
003EA6 4020 338C 0000 4010 MVWI X'0000',IODCB
003EAC 6E03 3214 4011 BAL $WRTO,R6
003EB0 33D0 4012 DC A($ERR$)
003EB2 4C21 4013 TBT (R4,ER)
003EB4 1001 4014 JOFF *+4
003EB6 9E05 4015 JAL T33ER,R6
003EB8 4024 00FF 4016 MVWI X'00FF',R0
003EBC 6003 4017 T33LP SVC IDLE5
003EBE B8FE 4018 JCT T33LP,R0
003EC0 5016 4019 J T33EX
003EC2 6E0D 3EE6 4020 T33ER MVW R6,TA33+2
003EC6 6E03 328C 4021 BAL XI0CS,R6
003ECA 33D0 4022 DC A($ERR$)
003ECC 4C21 4023 TBT (R4,ER)
003ECE 120C 4024 JON TA33A
003ED0 9028 3040 18CA 4025 MVD CSTL5,TURESUL+2
003ED6 8028 3051 18CE 4026 MVB CST13+1,TURESUL+6
003EDC 4028 3040 402A 4027 TWI X402A',CSTL5
003EE2 1202 4028 JON TA33A
003EE4 6802 0000 4029 TA33 B *-*
003EE8 4020 18C8 8888 4030 TA33A MVWI X'8888',TURESUL
4031 T33EX TXIT
003EEE 6802 3432 4032 T33EX B $CONX
4033 *****
4034 *
4035 WRTS3 MVW R6,RETR3+2
4036 MVWI X'000E',IODCB
4037 MVWI X'0049',IOMOD
4038 BAL $WRTO,R6
4039 DC A($ERR$)
4040 TBT (R4,ER)
4041 JOFF *+4
4042 JAL T33ER,R6
4043 MVWI X'2089',RDDCB
4044 MVWI 2,RDDCB+12
4045 MVA RDBUF,RDDCB+14
4046 *CC3 BAL $DGRD,R6
4047 * DC A($ERR$)
4048 * TBT (R4,ER)
4049 * JAL T33ER,R6
4050 * TWI X'0010',RDBUF
4051 * JOFF WCC3
4052 *+4 RETR3 B *-*
4053 *
4054 LCMM3 DC A(*-*)
4055 END

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CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2991	\$CONC	ADDRESS. HEX LOCATION(0000339C) IN CSECT(I7A10 ) LENGTH(2) 3172 3260 3334 3435 3529 3655 3755 3849 3944
3060	\$CONX	ADDRESS. HEX LOCATION(00003432) IN CSECT(I7A10 ) LENGTH(1) 3131 3199 3294 3369 3471 3599 3702 3796 3890
2116	\$DGRD	ADDRESS. HEX LOCATION(00003264) IN CSECT(I7A10 ) LENGTH(6) 3355
2113	\$DGWR	ADDRESS. HEX LOCATION(0000325A) IN CSECT(I7A10 ) LENGTH(6) 3451
3033	\$ERR\$	ADDRESS. HEX LOCATION(000033D0) IN CSECT(I7A10 ) LENGTH(6) 3173 3204 3261 3265 3270 3273 3277 3281 3284 3335 3347 3356 3379 3436 3452 3458 3482 3530 3537 3552 3563 3572 3581 3589 3606 3656 3662 3669 3683 3693 3700 3709 3756 3763 3777 3787 3794 3803 3850 3857 3871 3881 3888 3897 3945 3952 3967 3977 3986 3996 4003 4012 4022 4039
1697	\$INTL	ADDRESS. HEX LOCATION(00003058) IN CSECT(I7A10 ) LENGTH(2) 2908 3000
1662	\$IOIN	ADDRESS. HEX LOCATION(0000301A) IN CSECT(I7A10 ) LENGTH(2) 2097 2762 2822 2902 2939 3002 3176 3187 3193
1663	\$ISB	ADDRESS. HEX LOCATION(0000301C) IN CSECT(I7A10 ) LENGTH(2) 2098 2763 2903 2944 3003
1647	\$LE	ABSOLUTE. HEX VALUE(00000026) 2768 2910
2057	\$RD	ADDRESS. HEX LOCATION(000031B2) IN CSECT(I7A10 ) LENGTH(2) 3985
1661	\$TUID	ADDRESS. HEX LOCATION(00003018) IN CSECT(I7A10 ) LENGTH(2) 1707 3057 3095 3122 3170 3258 3332 3433 3527
2089	\$WRTO	ADDRESS. HEX LOCATION(00003214) IN CSECT(I7A10 ) LENGTH(4) 3653 3753 3847 3942 3269 3276 3280 3346 3536 3551 3571 3605 3611 3662 3682 3692 3708 3762 3776 3786 3802 3856 3870 3880 3896 3951 3966
2110	\$WRT1	ADDRESS. HEX LOCATION(00003254) IN CSECT(I7A10 ) LENGTH(2) 4011 4038
42	@CALL	ABSOLUTE. HEX VALUE(00000201) 711 747 765 783 801 819 837 855 901 919 937 1023 1029 1103 1177 1251 1367 1455
102	@DCADD1	ADDRESS. HEX LOCATION(000019B8) IN CSECT(I7A10 ) LENGTH(1) 1543
103	@DCADD2	ADDRESS. HEX LOCATION(000019BA) IN CSECT(I7A10 ) LENGTH(1) 3054
39	@FIXT	ABSOLUTE. HEX VALUE(00000101) 3055
41	@GOTO	ABSOLUTE. HEX VALUE(00000200) 717 732
46	@NVL	ABSOLUTE. HEX VALUE(00000600) 681 1549
45	@TUXX	ABSOLUTE. HEX VALUE(00000500) 873 887 955 969 983 997 1047 1061 1075 1089 1121 1135 1149 1163 1195 1209 1223 1237 1269 1283 1297 1311 1325 1339 1353 1385 1399 1413 1427 1441 1473 1487 1501 1515 1529
3065	BEGIN	ADDRESS. HEX LOCATION(0000343C) IN CSECT(I7A10 ) LENGTH(2) 1503 1517 1531
3090	BIT0080	ABSOLUTE. HEX VALUE(00000080) 3086
3085	BUFPT	ADDRESS. HEX LOCATION(00003598) IN CSECT(I7A10 ) LENGTH(2) 3056
3480	CAPER	ADDRESS. HEX LOCATION(00003A50) IN CSECT(I7A10 ) LENGTH(4) 3041
1651	CE	ABSOLUTE. HEX VALUE(0000002A) 3455 3477
1736	CICB	ABSOLUTE. HEX VALUE(00000014) 2747 2861 2931
1833	CLDCB	ADDRESS. HEX LOCATION(0000307A) IN CSECT(I7A10 ) LENGTH(2) 2997
1649	CS	ABSOLUTE. HEX VALUE(00000028) 2039
1650	CSA	ABSOLUTE. HEX VALUE(00000029) 2748 2751 2859 2900 2929
1680	CSBUF	ADDRESS. HEX LOCATION(00003038) IN CSECT(I7A10 ) LENGTH(1) 2934
1871	CSDCB	ADDRESS. HEX LOCATION(000030BA) IN CSECT(I7A10 ) LENGTH(2) 1878 2091 2759
3389	CSERO	ADDRESS. HEX LOCATION(000037B4) IN CSECT(I7A10 ) LENGTH(2) 2749
3213	CSER5	ADDRESS. HEX LOCATION(00003654) IN CSECT(I7A10 ) LENGTH(2) 3381
3492	CSSER	ADDRESS. HEX LOCATION(00003A7E) IN CSECT(I7A10 ) LENGTH(2) 3206
1685	CSTL5	ADDRESS. HEX LOCATION(00003040) IN CSECT(I7A10 ) LENGTH(2) 3460 3484 3207 3209 3267 3382 3384 3485 3487 3592 3594
1686	CSTL6	ADDRESS. HEX LOCATION(00003042) IN CSECT(I7A10 ) LENGTH(2) 4025 4027
1688	CSTL8	ADDRESS. HEX LOCATION(00003046) IN CSECT(I7A10 ) LENGTH(2) 3266
1689	CSTL9	ADDRESS. HEX LOCATION(00003048) IN CSECT(I7A10 ) LENGTH(2) 3584
1692	CST12	ADDRESS. HEX LOCATION(0000304E) IN CSECT(I7A10 ) LENGTH(2) 3464
1693	CST13	ADDRESS. HEX LOCATION(00003050) IN CSECT(I7A10 ) LENGTH(2) 3274 3285
1670	DCBUF	ADDRESS. HEX LOCATION(00003028) IN CSECT(I7A10 ) LENGTH(1) 3208 3383 3486 3593 4026
3086	DC2PT	ADDRESS. HEX LOCATION(0000359A) IN CSECT(I7A10 ) LENGTH(2) 2094 2754
105	DEVADD	ADDRESS. HEX LOCATION(000019D0) IN CSECT(I7A10 ) LENGTH(1) 3055
1665	DEV1	ADDRESS. HEX LOCATION(00003020) IN CSECT(I7A10 ) LENGTH(2) 1700 2952 2961 3061 3127 3127 3179
1668	DEV4	ADDRESS. HEX LOCATION(00003026) IN CSECT(I7A10 ) LENGTH(2) 1669 2993

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1822	DGDCB	2862 2863 ADDRESS. HEX LOCATION(0000306A) IN CSECT(I7A10 ) LENGTH(2) 2086
3341	DPATO	ADDRESS. HEX LOCATION(00003718) IN CSECT(I7A10 ) LENGTH(4) 3366
67	DUMMY	ABSOLUTE. HEX VALUE(00000000) 660 1554 1566
1555	ENTPT	ADDRESS. HEX LOCATION(00002F18) IN CSECT(I7A10 ) LENGTH(1) 195
47	EQ	ABSOLUTE. HEX VALUE(00000000) 600 738 792 810 878 946 960 974 988 1002 1014 1038 1052 1066 1080 1094 1112 1126 1140 1154 1168 1186 1200 1214 1228 1242 1260 1274 1288 1302 1316 1330 1344 1358 1376 1390 1404 1418 1432 1464 1478 1492 1506 1520
1642	ER	ABSOLUTE. HEX VALUE(00000021) 2100 2765 2786 2869 2911 2936 3195 3205 3271 3278 3282 3348 3357 3380 3453 3459 3483 3538 3553 3564 3573 3582 3590 3607 3663 3670 3684 3694 3710 3764 3778 3788 3804 3858 3872 3882 3990 3953 3968 3978 3987 3997 4004 4013 4023 4040
1722	EXIT	ABSOLUTE. HEX VALUE(00000006) 2918
3088	FAKETU	ADDRESS. HEX LOCATION(0000359E) IN CSECT(I7A10 ) LENGTH(2) 3054
3474	FCBER	ADDRESS. HEX LOCATION(00003A3C) IN CSECT(I7A10 ) LENGTH(2) 3466
1578	F00099	ADDRESS. HEX LOCATION(00002F30) IN CSECT(I7A10 ) LENGTH(1) 712 748 766 784 802 820 838 856 902 920 938 1024 1104 1178 1252 1368 1456 1544
1582	F00106	ADDRESS. HEX LOCATION(00002F56) IN CSECT(I7A10 ) LENGTH(1) 718
1586	F00107	ADDRESS. HEX LOCATION(00002F7C) IN CSECT(I7A10 ) LENGTH(1) 733
1574	F00111	ADDRESS. HEX LOCATION(00002F1E) IN CSECT(I7A10 ) LENGTH(1) 682
1594	F00241	ADDRESS. HEX LOCATION(00002FC4) IN CSECT(I7A10 ) LENGTH(1) 1030
1600	F00455	ADDRESS. HEX LOCATION(00003000) IN CSECT(I7A10 ) LENGTH(1) 1550
3094	HEBLK	ADDRESS. HEX LOCATION(000035A0) IN CSECT(I7A10 ) LENGTH(2) 3034
1742	HIOE	ABSOLUTE. HEX VALUE(0000001A) 3035
1718	IDLE	ABSOLUTE. HEX VALUE(00000002) 2780 2782
1719	IDLE5	ABSOLUTE. HEX VALUE(00000003) 3189 3577 4017
1963	ID00	ADDRESS. HEX LOCATION(00003154) IN CSECT(I7A10 ) LENGTH(2) 1944 2052
1644	IN	ABSOLUTE. HEX VALUE(00000023) 2099 2766 2778 2899 3190
3547	INSTR	ADDRESS. HEX LOCATION(00003AC6) IN CSECT(I7A10 ) LENGTH(2) 3558
3772	INSTR1	ADDRESS. HEX LOCATION(00003C9E) IN CSECT(I7A10 ) LENGTH(2) 3782
3678	INST0	ADDRESS. HEX LOCATION(00003BE6) IN CSECT(I7A10 ) LENGTH(2) 3688
3866	INST2	ADDRESS. HEX LOCATION(00003D56) IN CSECT(I7A10 ) LENGTH(2) 3876
3962	INST3	ADDRESS. HEX LOCATION(00003E10) IN CSECT(I7A10 ) LENGTH(2) 3973
2961	INTBL	ADDRESS. HEX LOCATION(00003394) IN CSECT(I7A10 ) LENGTH(2) 2996
2856	INTER	ADDRESS. HEX LOCATION(000032F8) IN CSECT(I7A10 ) LENGTH(2) 2963
2865	INTES	ADDRESS. HEX LOCATION(00003310) IN CSECT(I7A10 ) LENGTH(2) 2860
2869	INTET	ADDRESS. HEX LOCATION(00003318) IN CSECT(I7A10 ) LENGTH(2) 2866
2896	INTOK	ADDRESS. HEX LOCATION(0000331C) IN CSECT(I7A10 ) LENGTH(2) 2962
2918	INTRX	ADDRESS. HEX LOCATION(0000334C) IN CSECT(I7A10 ) LENGTH(2) 2913 2916
2899	INTR1	ADDRESS. HEX LOCATION(00003324) IN CSECT(I7A10 ) LENGTH(2) 2864 2868 2870
2904	INTR2	ADDRESS. HEX LOCATION(00003332) IN CSECT(I7A10 ) LENGTH(1) 2901
2912	INTR3	ADDRESS. HEX LOCATION(00003340) IN CSECT(I7A10 ) LENGTH(2) 2909
2952	IOBLK	ADDRESS. HEX LOCATION(00003388) IN CSECT(I7A10 ) LENGTH(2) 2102 2767 3001
2954	IODCB	ADDRESS. HEX LOCATION(0000338C) IN CSECT(I7A10 ) LENGTH(2) 2036 2039 2042 2050 2061 2064 2067 2070 2078 2082 2086 2113 2116 2749 2755 3000 3344 3535 3549 3560 3570 3603 3667 3680 3690 3706 3761 3774 3784 3800 3855 3868 3878 3894 3950 3964 3994 4000 4010 4036
2955	IOMOD	ADDRESS. HEX LOCATION(0000338E) IN CSECT(I7A10 ) LENGTH(2) 2103 2104 2741 2744 2750 3268 3275 3279 3345 3534 3550 3561 3569 3604 3660 3666 3681 3691 3707 3760 3775 3785 3801 3854 3869 3879 3895 3949 3965 3975 3983 4001 4009
3202	IO5ER	ADDRESS. HEX LOCATION(0000362C) IN CSECT(I7A10 ) LENGTH(4) 3197
37	I7A10	CSECT. START(00002500) LENGTH(6694) ESDID(1) 37
3622	LCMMD	ADDRESS. HEX LOCATION(00003B96) IN CSECT(I7A10 ) LENGTH(2) 3546 3557
3723	LCMM0	ADDRESS. HEX LOCATION(00003C5E) IN CSECT(I7A10 ) LENGTH(2) 3677 3687
3817	LCMM1	ADDRESS. HEX LOCATION(00003D16) IN CSECT(I7A10 ) LENGTH(2) 3771 3781
3911	LCMM2	ADDRESS. HEX LOCATION(00003DCE) IN CSECT(I7A10 ) LENGTH(2) 3865 3875
4054	LCMM3	ADDRESS. HEX LOCATION(00003F24) IN CSECT(I7A10 ) LENGTH(2) 3961 3972
3071	LINE1	ADDRESS. HEX LOCATION(00003474) IN CSECT(I7A10 ) LENGTH(40) 3042
3495	LPCNT	ADDRESS. HEX LOCATION(00003A82) IN CSECT(I7A10 ) LENGTH(2)



DECLARED	NAME	ATTRIBUTES AND REFERENCES
1664	LSTIO	3340 3341 3361 3365 ADDRESS. HEX LOCATION (0000301E) IN CSECT (I7A10 ) LENGTH (2)
3465	L7A14	2089 2753 3004 ADDRESS. HEX LOCATION (00003A2C) IN CSECT (I7A10 ) LENGTH (2)
1641	MI	3468 ABSOLUTE. HEX VALUE (00000020)
3045	MVBUF	2914 ADDRESS. HEX LOCATION (00003400) IN CSECT (I7A10 ) LENGTH (2)
1653	NG	3049 3052 ABSOLUTE. HEX VALUE (0000002C)
1648	NI	2917 ABSOLUTE. HEX VALUE (00000027)
669	N00001	2772 ADDRESS. HEX LOCATION (000026D0) IN CSECT (I7A10 ) LENGTH (2)
681	N00002	315 1565 ADDRESS. HEX LOCATION (000026E2) IN CSECT (I7A10 ) LENGTH (2)
687	N00003	318 ADDRESS. HEX LOCATION (000026EE) IN CSECT (I7A10 ) LENGTH (2)
699	N00004	321 670 ADDRESS. HEX LOCATION (00002700) IN CSECT (I7A10 ) LENGTH (2)
711	N00005	324 ADDRESS. HEX LOCATION (00002716) IN CSECT (I7A10 ) LENGTH (2)
717	N00006	327 ADDRESS. HEX LOCATION (00002722) IN CSECT (I7A10 ) LENGTH (2)
720	N00007	330 700 ADDRESS. HEX LOCATION (00002726) IN CSECT (I7A10 ) LENGTH (2)
732	N00008	333 688 ADDRESS. HEX LOCATION (00002744) IN CSECT (I7A10 ) LENGTH (2)
735	N00009	336 ADDRESS. HEX LOCATION (00002748) IN CSECT (I7A10 ) LENGTH (2)
747	N00010	339 721 ADDRESS. HEX LOCATION (0000275A) IN CSECT (I7A10 ) LENGTH (2)
753	N00011	342 ADDRESS. HEX LOCATION (00002766) IN CSECT (I7A10 ) LENGTH (2)
765	N00012	345 736 ADDRESS. HEX LOCATION (0000277C) IN CSECT (I7A10 ) LENGTH (2)
771	N00013	348 ADDRESS. HEX LOCATION (00002788) IN CSECT (I7A10 ) LENGTH (2)
783	N00014	351 754 ADDRESS. HEX LOCATION (000027AA) IN CSECT (I7A10 ) LENGTH (2)
789	N00015	354 ADDRESS. HEX LOCATION (000027B6) IN CSECT (I7A10 ) LENGTH (2)
801	N00016	357 772 ADDRESS. HEX LOCATION (000027D8) IN CSECT (I7A10 ) LENGTH (2)
807	N00017	360 ADDRESS. HEX LOCATION (000027E4) IN CSECT (I7A10 ) LENGTH (2)
819	N00018	363 790 ADDRESS. HEX LOCATION (00002816) IN CSECT (I7A10 ) LENGTH (2)
825	N00019	366 ADDRESS. HEX LOCATION (00002822) IN CSECT (I7A10 ) LENGTH (2)
837	N00020	369 808 ADDRESS. HEX LOCATION (00002848) IN CSECT (I7A10 ) LENGTH (2)
843	N00021	372 ADDRESS. HEX LOCATION (00002854) IN CSECT (I7A10 ) LENGTH (2)
855	N00022	375 826 ADDRESS. HEX LOCATION (0000287A) IN CSECT (I7A10 ) LENGTH (2)
861	N00023	378 ADDRESS. HEX LOCATION (00002886) IN CSECT (I7A10 ) LENGTH (2)
873	N00024	381 844 ADDRESS. HEX LOCATION (000028A0) IN CSECT (I7A10 ) LENGTH (2)
875	N00025	384 ADDRESS. HEX LOCATION (000028A2) IN CSECT (I7A10 ) LENGTH (2)
887	N00026	387 862 ADDRESS. HEX LOCATION (000028B8) IN CSECT (I7A10 ) LENGTH (2)
889	N00027	390 ADDRESS. HEX LOCATION (000028BA) IN CSECT (I7A10 ) LENGTH (2)
901	N00028	393 876 ADDRESS. HEX LOCATION (000028D8) IN CSECT (I7A10 ) LENGTH (2)
907	N00029	396 ADDRESS. HEX LOCATION (000028E4) IN CSECT (I7A10 ) LENGTH (2)
919	N00030	399 890 ADDRESS. HEX LOCATION (000028FA) IN CSECT (I7A10 ) LENGTH (2)
925	N00031	402 ADDRESS. HEX LOCATION (00002906) IN CSECT (I7A10 ) LENGTH (2)
937	N00032	405 908 ADDRESS. HEX LOCATION (0000291C) IN CSECT (I7A10 ) LENGTH (2)
943	N00033	408 ADDRESS. HEX LOCATION (00002928) IN CSECT (I7A10 ) LENGTH (2)
955	N00034	411 926 ADDRESS. HEX LOCATION (0000294A) IN CSECT (I7A10 ) LENGTH (2)
957	N00035	414 ADDRESS. HEX LOCATION (0000294C) IN CSECT (I7A10 ) LENGTH (2)
969	N00036	417 944 ADDRESS. HEX LOCATION (00002972) IN CSECT (I7A10 ) LENGTH (2)
971	N00037	420 ADDRESS. HEX LOCATION (00002974) IN CSECT (I7A10 ) LENGTH (2)
983	N00038	423 958 ADDRESS. HEX LOCATION (0000298A) IN CSECT (I7A10 ) LENGTH (2)
985	N00039	426 ADDRESS. HEX LOCATION (0000298C) IN CSECT (I7A10 ) LENGTH (2)
997	N00040	429 972 ADDRESS. HEX LOCATION (000029AE) IN CSECT (I7A10 ) LENGTH (2)
999	N00041	432 ADDRESS. HEX LOCATION (000029B0) IN CSECT (I7A10 ) LENGTH (2)
1011	N00042	435 986 ADDRESS. HEX LOCATION (000029CC) IN CSECT (I7A10 ) LENGTH (2)
1023	N00043	438 ADDRESS. HEX LOCATION (000029DE) IN CSECT (I7A10 ) LENGTH (2)
1029	N00044	441 ADDRESS. HEX LOCATION (000029EA) IN CSECT (I7A10 ) LENGTH (2)
1035	N00045	444 1012 ADDRESS. HEX LOCATION (000029F6) IN CSECT (I7A10 ) LENGTH (2)
1047	N00046	447 1000 ADDRESS. HEX LOCATION (00002A18) IN CSECT (I7A10 ) LENGTH (2)
1049	N00047	450 ADDRESS. HEX LOCATION (00002A1A) IN CSECT (I7A10 ) LENGTH (2)
1061	N00048	453 1036 ADDRESS. HEX LOCATION (00002A40) IN CSECT (I7A10 ) LENGTH (2)
1063	N00049	456 ADDRESS. HEX LOCATION (00002A42) IN CSECT (I7A10 ) LENGTH (2)
		459 1050

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1075	N00050	ADDRESS. HEX LOCATION (00002A58) IN CSECT (I7A10 ) LENGTH (2)
1077	N00051	462 ADDRESS. HEX LOCATION (00002A5A) IN CSECT (I7A10 ) LENGTH (2)
1089	N00052	465 1064 ADDRESS. HEX LOCATION (00002A7C) IN CSECT (I7A10 ) LENGTH (2)
1091	N00053	468 ADDRESS. HEX LOCATION (00002A7E) IN CSECT (I7A10 ) LENGTH (2)
1103	N00054	471 1078 ADDRESS. HEX LOCATION (00002A9A) IN CSECT (I7A10 ) LENGTH (2)
1109	N00055	474 ADDRESS. HEX LOCATION (00002AA6) IN CSECT (I7A10 ) LENGTH (2)
1121	N00056	477 1092 ADDRESS. HEX LOCATION (00002AC8) IN CSECT (I7A10 ) LENGTH (2)
1123	N00057	480 ADDRESS. HEX LOCATION (00002ACA) IN CSECT (I7A10 ) LENGTH (2)
1135	N00058	483 1110 ADDRESS. HEX LOCATION (00002AF0) IN CSECT (I7A10 ) LENGTH (2)
1137	N00059	486 ADDRESS. HEX LOCATION (00002AF2) IN CSECT (I7A10 ) LENGTH (2)
1149	N00060	489 1124 ADDRESS. HEX LOCATION (00002B08) IN CSECT (I7A10 ) LENGTH (2)
1151	N00061	492 ADDRESS. HEX LOCATION (00002B0A) IN CSECT (I7A10 ) LENGTH (2)
1163	N00062	495 1138 ADDRESS. HEX LOCATION (00002B2C) IN CSECT (I7A10 ) LENGTH (2)
1165	N00063	498 ADDRESS. HEX LOCATION (00002B2E) IN CSECT (I7A10 ) LENGTH (2)
1177	N00064	501 1152 ADDRESS. HEX LOCATION (00002B4C) IN CSECT (I7A10 ) LENGTH (2)
1183	N00065	504 ADDRESS. HEX LOCATION (00002B58) IN CSECT (I7A10 ) LENGTH (2)
1195	N00066	507 1166 ADDRESS. HEX LOCATION (00002B7A) IN CSECT (I7A10 ) LENGTH (2)
1197	N00067	510 ADDRESS. HEX LOCATION (00002B7C) IN CSECT (I7A10 ) LENGTH (2)
1209	N00068	513 1184 ADDRESS. HEX LOCATION (00002BA2) IN CSECT (I7A10 ) LENGTH (2)
1211	N00069	516 ADDRESS. HEX LOCATION (00002BA4) IN CSECT (I7A10 ) LENGTH (2)
1223	N00070	519 1198 ADDRESS. HEX LOCATION (00002BBA) IN CSECT (I7A10 ) LENGTH (2)
1225	N00071	522 ADDRESS. HEX LOCATION (00002BBC) IN CSECT (I7A10 ) LENGTH (2)
1237	N00072	525 1212 ADDRESS. HEX LOCATION (00002BDE) IN CSECT (I7A10 ) LENGTH (2)
1239	N00073	528 ADDRESS. HEX LOCATION (00002BB0) IN CSECT (I7A10 ) LENGTH (2)
1251	N00074	531 1226 ADDRESS. HEX LOCATION (00002BFE) IN CSECT (I7A10 ) LENGTH (2)
1257	N00075	534 ADDRESS. HEX LOCATION (00002C0A) IN CSECT (I7A10 ) LENGTH (2)
1269	N00076	537 1240 ADDRESS. HEX LOCATION (00002C3C) IN CSECT (I7A10 ) LENGTH (2)
1271	N00077	540 ADDRESS. HEX LOCATION (00002C3E) IN CSECT (I7A10 ) LENGTH (2)
1283	N00078	543 1258 ADDRESS. HEX LOCATION (00002C68) IN CSECT (I7A10 ) LENGTH (2)
1285	N00079	546 ADDRESS. HEX LOCATION (00002C6A) IN CSECT (I7A10 ) LENGTH (2)
1297	N00080	549 1272 ADDRESS. HEX LOCATION (00002C80) IN CSECT (I7A10 ) LENGTH (2)
1299	N00081	552 ADDRESS. HEX LOCATION (00002C82) IN CSECT (I7A10 ) LENGTH (2)
1311	N00082	555 1286 ADDRESS. HEX LOCATION (00002CA4) IN CSECT (I7A10 ) LENGTH (2)
1313	N00083	558 ADDRESS. HEX LOCATION (00002CA6) IN CSECT (I7A10 ) LENGTH (2)
1325	N00084	561 1300 ADDRESS. HEX LOCATION (00002CD0) IN CSECT (I7A10 ) LENGTH (2)
1327	N00085	564 ADDRESS. HEX LOCATION (00002CD2) IN CSECT (I7A10 ) LENGTH (2)
1339	N00086	567 1314 ADDRESS. HEX LOCATION (00002CE8) IN CSECT (I7A10 ) LENGTH (2)
1341	N00087	570 ADDRESS. HEX LOCATION (00002CEA) IN CSECT (I7A10 ) LENGTH (2)
1353	N00088	573 1328 ADDRESS. HEX LOCATION (00002D0C) IN CSECT (I7A10 ) LENGTH (2)
1355	N00089	576 ADDRESS. HEX LOCATION (00002D0E) IN CSECT (I7A10 ) LENGTH (2)
1367	N00090	579 1342 ADDRESS. HEX LOCATION (00002D2A) IN CSECT (I7A10 ) LENGTH (2)
1373	N00091	582 ADDRESS. HEX LOCATION (00002D36) IN CSECT (I7A10 ) LENGTH (2)
1385	N00092	585 1356 ADDRESS. HEX LOCATION (00002D6C) IN CSECT (I7A10 ) LENGTH (2)
1387	N00093	588 ADDRESS. HEX LOCATION (00002D6E) IN CSECT (I7A10 ) LENGTH (2)
1399	N00094	591 1374 ADDRESS. HEX LOCATION (00002D90) IN CSECT (I7A10 ) LENGTH (2)
1401	N00095	594 ADDRESS. HEX LOCATION (00002D92) IN CSECT (I7A10 ) LENGTH (2)
1413	N00096	597 1388 ADDRESS. HEX LOCATION (00002DB8) IN CSECT (I7A10 ) LENGTH (2)
1415	N00097	600 ADDRESS. HEX LOCATION (00002DBA) IN CSECT (I7A10 ) LENGTH (2)
1427	N00098	603 1402 ADDRESS. HEX LOCATION (00002DD0) IN CSECT (I7A10 ) LENGTH (2)
1429	N00099	606 ADDRESS. HEX LOCATION (00002DD2) IN CSECT (I7A10 ) LENGTH (2)
1441	N00100	609 1416 ADDRESS. HEX LOCATION (00002DF4) IN CSECT (I7A10 ) LENGTH (2)
1443	N00101	612 ADDRESS. HEX LOCATION (00002DF6) IN CSECT (I7A10 ) LENGTH (2)
1455	N00102	615 1430 ADDRESS. HEX LOCATION (00002E14) IN CSECT (I7A10 ) LENGTH (2)
1461	N00103	618 ADDRESS. HEX LOCATION (00002E20) IN CSECT (I7A10 ) LENGTH (2)
1473	N00104	621 1444 ADDRESS. HEX LOCATION (00002E56) IN CSECT (I7A10 ) LENGTH (2)
1475	N00105	624 ADDRESS. HEX LOCATION (00002E58) IN CSECT (I7A10 ) LENGTH (2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1487	N00106	627 1462 ADDRESS. HEX LOCATION(00002E7A) IN CSECT(I7A10 ) LENGTH(2)
1489	N00107	630 ADDRESS. HEX LOCATION(00002E7C) IN CSECT(I7A10 ) LENGTH(2)
1501	N00108	633 1476 ADDRESS. HEX LOCATION(00002EA2) IN CSECT(I7A10 ) LENGTH(2)
1503	N00109	636 ADDRESS. HEX LOCATION(00002EA4) IN CSECT(I7A10 ) LENGTH(2)
1515	N00110	639 1490 ADDRESS. HEX LOCATION(00002EBA) IN CSECT(I7A10 ) LENGTH(2)
1517	N00111	642 ADDRESS. HEX LOCATION(00002EBC) IN CSECT(I7A10 ) LENGTH(2)
1529	N00112	645 1504 ADDRESS. HEX LOCATION(00002EDE) IN CSECT(I7A10 ) LENGTH(2)
1531	N00113	648 ADDRESS. HEX LOCATION(00002EE0) IN CSECT(I7A10 ) LENGTH(2)
1543	N00114	651 1518 ADDRESS. HEX LOCATION(00002EFE) IN CSECT(I7A10 ) LENGTH(2)
1549	N00115	654 ADDRESS. HEX LOCATION(00002F0A) IN CSECT(I7A10 ) LENGTH(2)
58	OF	657 1532 ABSOLUTE. HEX VALUE(00000202)
57	ON	672 723 1534 ABSOLUTE. HEX VALUE(00000200)
		702 756 774 828 846 864 892 910 928
1606	OPTN1	1446 ADDRESS. HEX LOCATION(00003012) IN CSECT(I7A10 ) LENGTH(2)
1629	OPTN3	2858 2898 3123 3171 3259 3333 3434 3528 3654 ADDRESS. HEX LOCATION(00003016) IN CSECT(I7A10 ) LENGTH(2)
101	PARMARA	2947 2995 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7A10 ) LENGTH(1)
		679 697 709 730 745 763 781 799 817 835 853 871 885 899 917 935 953 967 981 993 1009 1021 1045 1059 1073 1087 1101 1119 1133 1147 1161 1175 1193 1207 1221 1235 1249 1267 1281 1295 1309 1323 1337 1351 1365 1383 1397 1411 1425 1439 1453 1471 1485 1499 1513 1527 1541
3372	PAT1	ADDRESS. HEX LOCATION(0000377A) IN CSECT(I7A10 ) LENGTH(4)
1964	PDATA	3364 ADDRESS. HEX LOCATION(00003156) IN CSECT(I7A10 ) LENGTH(2)
69	PID	3342 3362 ADDRESS. HEX LOCATION(00001800) IN CSECT(I7A10 ) LENGTH(1)
		71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106
3089	PIDMSG10	107 108 109 110 111 112 3053 ABSOLUTE. HEX VALUE(0000F1F0)
1728	PREP	3053 ABSOLUTE. HEX VALUE(0000000C)
3394	RDBUF	3005 ADDRESS. HEX LOCATION(000038BA) IN CSECT(I7A10 ) LENGTH(2)
1904	RDDCB	3354 3363 3612 3714 3808 3902 3990 3991 4045 ADDRESS. HEX LOCATION(000030EA) IN CSECT(I7A10 ) LENGTH(2)
		2058 2059 2061 2116 2117 2118 3352 3353 3354 3610 3611 3612 3712 3713 3714 3806 3807 3808 3900 3901 3902 3982 3983 3984 4043 4044 4045
3620	RETRN	ADDRESS. HEX LOCATION(00003B92) IN CSECT(I7A10 ) LENGTH(4)
3721	RETRO	3602 ADDRESS. HEX LOCATION(00003C5A) IN CSECT(I7A10 ) LENGTH(4)
3815	RETR1	3705 ADDRESS. HEX LOCATION(00003D12) IN CSECT(I7A10 ) LENGTH(4)
3909	RETR2	3799 ADDRESS. HEX LOCATION(00003DCA) IN CSECT(I7A10 ) LENGTH(4)
4052	RETR3	3893 ADDRESS. HEX LOCATION(00003F20) IN CSECT(I7A10 ) LENGTH(4)
1735	RICB	4035 ABSOLUTE. HEX VALUE(00000013)
1926	RKDCB	3062 ADDRESS. HEX LOCATION(0000310A) IN CSECT(I7A10 ) LENGTH(2)
1937	RMDCB	2070 2075 ADDRESS. HEX LOCATION(0000311A) IN CSECT(I7A10 ) LENGTH(2)
1960	RSBA	2050 ADDRESS. HEX LOCATION(00003144) IN CSECT(I7A10 ) LENGTH(2)
1849	RSDCB	1826 1842 1853 1864 1886 1897 1908 1919 1930 ADDRESS. HEX LOCATION(0000309A) IN CSECT(I7A10 ) LENGTH(2)
0	R0	1941 REGISTER. HEX VALUE(00000000)
		2042 2047 2103 2105 2106 3125 3182 3194 3292 3337 3338 3367 3438 3439 3469 3532 3542 3544 3545 3546 3547 3548 3549 3576 3578 3658 3673 3675 3676 3677 3678 3679 3680 3758 3767 3769 3770 3771 3772 3773 3774 3852 3861 3863 3864 3865 3866 3867 3868 3947 3957 3959 3960 3961 3962 3963 3964 4016 4018
0	R1	REGISTER. HEX VALUE(00000001)
		3042 3045 3048 3051 3177 3178 3180 3181 3341 3342 3361 3362 3461 3461
0	R2	REGISTER. HEX VALUE(00000002)
		3047 3048 3126 3129 3175 3211 3213 3339 3351 3360 3378 3389 3440 3456 3474 3492 3543 3545 3547 3547 3557 3674 3676 3678 3678 3687 3768 3770 3772 3772 3781 3862 3864 3866 3866 3875 3958 3960 3962 3962 3972
0	R3	REGISTER. HEX VALUE(00000003)
		1989 1991 2043 2046 2053 2054 2057 2060 2071 2074 2090 2093 2096 2098 2119 2120 2741 2754 2757 2758 2761 2763 2820 2821 2822 2856 2857 2863 2867 2896 2897 2902 2915 2947 2992 2994 2995 3003 3040 3041 3045 3057 3342 3343 3344 3362 3363 3372 3444 3445 3448 3464 3465 3476
0	R4	REGISTER. HEX VALUE(00000004)
		2099 2100 2101 2747 2748 2751 2765 2766 2768 2769 2772 2778 2786 2858 2859 2861 2865 2869 2898 2899 2900 2910 2911 2912 2914 2917 2927 2929 2931 2934 2936 3123 3171 3190 3195 3205 3259 3271 3278 3282 3333 3348 3357 3380 3434 3453 3459 3483 3528 3538 3553 3564 3573 3582

DECLARED	NAME	ATTRIBUTES AND REFERENCES
		3590 3607 3654 3663 3670 3684 3694 3710 3754 3764 3778 3788 3804 3848 3858 3872 3882 3898 3943 3953 3968 3978 3987 3997 4004 4013 4023 4040
0	R5	REGISTER. HEX VALUE(00000005)
		1990 1991 2044 2046 2052 2054 2058 2060 2072 2074 2091 2093 2094 2096 2118 2120 2755 2757 2759 2761 2777 2784 2906 2907 2908 2939 2940 2942 2944 2993 2994 3039 3052 3185 3186 3187 3188 3192 3447 3448 3462 3465
0	R6	REGISTER. HEX VALUE(00000006)
		1992 1993 2089 2753 2773 2787 2823 2928 2933 2935 2943 2946 2948 2998 3004 3006 3044 3049 3050 3172 3197 3202 3203 3260 3264 3269 3272 3276 3280 3283 3334 3346 3350 3355 3359 3374 3377 3378 3435 3451 3455 3457 3477 3480 3481 3529 3536 3540 3551 3555 3556 3562 3566 3567 3571 3575 3580 3587 3588 3602 3605 3609 3655 3661 3668 3682 3686 3692 3696 3705 3708 3755 3762 3776 3780 3786 3790 3799 3802 3849 3856 3870 3874 3880 3884 3893 3896 3944 3951 3955 3966 3970 3971 3976 3980 3985 3989 3995 3999 4002 4006 4007 4011 4015 4020 4021 4035 4038 4042
0	R7	REGISTER. HEX VALUE(00000007)
		1708 1988 2045 2051 2059 2073 2092 2095 2102 2117 2756 2760 2767 2862 2903 2991 2996 3001 3034 3043 3046 3058 3061 3121 3169 3257 3331 3432 3446 3463 3467 3526 3652 3752 3846 3941
1669	SC TID	ADDRESS. HEX LOCATION(00003020) IN CSECT(I7A10 ) LENGTH(2)
1860	SKDCB	1856 1933 1989 2044 2047 2072 2075 ADDRESS. HEX LOCATION(000030AA) IN CSECT(I7A10 ) LENGTH(2)
1726	START	2036 ABSOLUTE. HEX VALUE(0000000A)
104	SUPSTAT	2770 ADDRESS. HEX LOCATION(000019C4) IN CSECT(I7A10 ) LENGTH(1)
3386	TA13	3058 ADDRESS. HEX LOCATION(000037A8) IN CSECT(I7A10 ) LENGTH(4)
3387	TA13A	3377 3387 3388 ADDRESS. HEX LOCATION(000037AC) IN CSECT(I7A10 ) LENGTH(6)
3489	TA14	3385 ADDRESS. HEX LOCATION(00003A72) IN CSECT(I7A10 ) LENGTH(4)
3490	TA14A	3480 3490 3491 ADDRESS. HEX LOCATION(00003A76) IN CSECT(I7A10 ) LENGTH(6)
3596	TA18	3488 ADDRESS. HEX LOCATION(00003B56) IN CSECT(I7A10 ) LENGTH(4)
3597	TA18A	3589 ADDRESS. HEX LOCATION(00003B5A) IN CSECT(I7A10 ) LENGTH(6)
4029	TA33	3583 3591 3595 ADDRESS. HEX LOCATION(00003EE4) IN CSECT(I7A10 ) LENGTH(4)
4030	TA33A	4020 ADDRESS. HEX LOCATION(00003EE8) IN CSECT(I7A10 ) LENGTH(6)
3212	TA55	4024 4028 ADDRESS. HEX LOCATION(00003650) IN CSECT(I7A10 ) LENGTH(4)
92	TUMSGWTR	3202 ADDRESS. HEX LOCATION(000018BA) IN CSECT(I7A10 ) LENGTH(1)
76	TUPARM1	3058 ADDRESS. HEX LOCATION(0000189A) IN CSECT(I7A10 ) LENGTH(1)
77	TUPARM2	3177 3263 3542 3673 3767 3861 3957 ADDRESS. HEX LOCATION(0000189C) IN CSECT(I7A10 ) LENGTH(1)
98	TURESUL	3543 3674 3768 3862 3958 ADDRESS. HEX LOCATION(000018C8) IN CSECT(I7A10 ) LENGTH(1)
		3125 3126 3175 3193 3194 3207 3208 3286 3287 3288 3289 3292 3337 3338 3339 3343 3367 3372 3382 3383 3438 3439 3440 3445 3469 3476 3485 3486 3532 3584 3592 3593 3597 3658 3698 3758 3792 3852 3886 3947 3990 3991 4025 4026 4030
1698	TURTN	ADDRESS. HEX LOCATION(0000305A) IN CSECT(I7A10 ) LENGTH(2)
		3063 3121 3169 3257 3331 3432 3526 3652 3752 3846 3941
74	TUSTATUS	ADDRESS. HEX LOCATION(00001818) IN CSECT(I7A10 ) LENGTH(1)
75	TUWORK	3033 ADDRESS. HEX LOCATION(0000181A) IN CSECT(I7A10 ) LENGTH(1)
3496	TWO2	3036 3037 3038 3040 3096 3263 3266 3267 3274 3285 3286 3287 3288 3289 3290 ADDRESS. HEX LOCATION(00003A84) IN CSECT(I7A10 ) LENGTH(2)
3587	T18ER	3365 ADDRESS. HEX LOCATION(00003B34) IN CSECT(I7A10 ) LENGTH(4)
3599	T18EX	3540 3555 3566 3575 3609 ADDRESS. HEX LOCATION(00003B60) IN CSECT(I7A10 ) LENGTH(4)
3577	T18LP	3585 ADDRESS. HEX LOCATION(00003B1E) IN CSECT(I7A10 ) LENGTH(2)
3700	T30ER	3578 ADDRESS. HEX LOCATION(00003C26) IN CSECT(I7A10 ) LENGTH(4)
3702	T30EX	3664 3671 3685 3695 3711 ADDRESS. HEX LOCATION(00003C2A) IN CSECT(I7A10 ) LENGTH(4)
3794	T31ER	3699 ADDRESS. HEX LOCATION(00003CDE) IN CSECT(I7A10 ) LENGTH(4)
3796	T31EX	3765 3779 3789 3805 ADDRESS. HEX LOCATION(00003CE2) IN CSECT(I7A10 ) LENGTH(4)
3888	T32ER	3793 ADDRESS. HEX LOCATION(00003D96) IN CSECT(I7A10 ) LENGTH(4)
3890	T32EX	3855 3873 3883 3899 ADDRESS. HEX LOCATION(00003D9A) IN CSECT(I7A10 ) LENGTH(4)
4020	T33ER	3889 ADDRESS. HEX LOCATION(00003EC2) IN CSECT(I7A10 ) LENGTH(4)
4032	T33EX	3955 3970 3980 3989 3999 4006 4015 4042 ADDRESS. HEX LOCATION(00003EEB) IN CSECT(I7A10 ) LENGTH(4)
4017	T33LP	4019 ADDRESS. HEX LOCATION(00003EBC) IN CSECT(I7A10 ) LENGTH(2)
1707	T7A02	4018 ADDRESS. HEX LOCATION(00003062) IN CSECT(I7A10 ) LENGTH(6)
3257	T7A08	701 1013 ADDRESS. HEX LOCATION(0000365C) IN CSECT(I7A10 ) LENGTH(4)
3331	T7A13	722 ADDRESS. HEX LOCATION(000036F2) IN CSECT(I7A10 ) LENGTH(4)
3432	T7A14	689 ADDRESS. HEX LOCATION(000039BA) IN CSECT(I7A10 ) LENGTH(4)
3526	T7A18	737 ADDRESS. HEX LOCATION(00003A86) IN CSECT(I7A10 ) LENGTH(4)
		773 791 809 827 845 891 1445 1533

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
3652	T7A30	ADDRESS. HEX LOCATION (00003B98) IN CSECT (I7A10 ) LENGTH (4) 945 1037 1111 1185 1259 1375 1389 1463 1477
3752	T7A31	ADDRESS. HEX LOCATION (00003C60) IN CSECT (I7A10 ) LENGTH (4) 863 959 987 1051 1079 1125 1153 1199 1227 1403 1431 1491 1519
3846	T7A32	ADDRESS. HEX LOCATION (00003D18) IN CSECT (I7A10 ) LENGTH (4) 1273 1301 1315 1343
3941	T7A33	ADDRESS. HEX LOCATION (00003DD0) IN CSECT (I7A10 ) LENGTH (4) 1001 1093 1157 1241 1357
3131	T7A50X	ADDRESS. HEX LOCATION (000035C6) IN CSECT (I7A10 ) LENGTH (4) 3128
3121	T7A52	ADDRESS. HEX LOCATION (000035A6) IN CSECT (I7A10 ) LENGTH (4) 671
3169	T7A55	ADDRESS. HEX LOCATION (000035CA) IN CSECT (I7A10 ) LENGTH (4) 753 877 909 927 973 1065 1139 1213 1287 1329 1417 1505
3189	T7A55K	ADDRESS. HEX LOCATION (00003610) IN CSECT (I7A10 ) LENGTH (2) 3192
3218	T7A55L	ADDRESS. HEX LOCATION (00003658) IN CSECT (I7A10 ) LENGTH (2) 3178 3179 3180 3181 3182 3184
3193	T7A55M	ADDRESS. HEX LOCATION (00003618) IN CSECT (I7A10 ) LENGTH (6) 3191
3294	T7A89	ADDRESS. HEX LOCATION (000036EE) IN CSECT (I7A10 ) LENGTH (4) 3291
1893	VRDCB	ADDRESS. HEX LOCATION (000030DA) IN CSECT (I7A10 ) LENGTH (2) 2064
3377	WD1ER	ADDRESS. HEX LOCATION (00003786) IN CSECT (I7A10 ) LENGTH (4) 3350 3359 3374
1915	WKDCB	ADDRESS. HEX LOCATION (000030FA) IN CSECT (I7A10 ) LENGTH (2) 2078 2079
3393	WRBUF	ADDRESS. HEX LOCATION (000037BA) IN CSECT (I7A10 ) LENGTH (2) 3441 3447 3449 3450 3462
1882	WRDCB	ADDRESS. HEX LOCATION (000030CA) IN CSECT (I7A10 ) LENGTH (2) 2067 2113 3441 3442 3443
1732	WRIT0	ABSOLUTE. HEX VALUE (00000010) 2108
1733	WRIT1	ABSOLUTE. HEX VALUE (00000011) 2110
1954	WRSID	ADDRESS. HEX LOCATION (00003138) IN CSECT (I7A10 ) LENGTH (2) 1845 1922 1990 2079 2083
3602	WRTSN	ADDRESS. HEX LOCATION (00003B64) IN CSECT (I7A10 ) LENGTH (4) 3556 3567
3705	WRTS0	ADDRESS. HEX LOCATION (00003C2E) IN CSECT (I7A10 ) LENGTH (4) 3686 3696
3799	WRTS1	ADDRESS. HEX LOCATION (00003CE6) IN CSECT (I7A10 ) LENGTH (4) 3780 3790
3893	WRTS2	ADDRESS. HEX LOCATION (00003D9E) IN CSECT (I7A10 ) LENGTH (4) 3874 3884
4035	WRTS3	ADDRESS. HEX LOCATION (00003EF2) IN CSECT (I7A10 ) LENGTH (4) 3971 4007
1838	WSDCB	ADDRESS. HEX LOCATION (0000308A) IN CSECT (I7A10 ) LENGTH (2) 2082 2083
1645	XE	ABSOLUTE. HEX VALUE (00000024) 2865 2927
1643	XI	ABSOLUTE. HEX VALUE (00000022) 2101 2769 2912
2741	XIO	ADDRESS. HEX LOCATION (0000327A) IN CSECT (I7A10 ) LENGTH (4) 2037 2040 2048 2055 2062 2065 2068 2076 2080 2084 2087
2927	XIOCK	ADDRESS. HEX LOCATION (0000334E) IN CSECT (I7A10 ) LENGTH (2) 2779
2934	XIOCO	ADDRESS. HEX LOCATION (00003360) IN CSECT (I7A10 ) LENGTH (2) 2932
2944	XIOCQ	ADDRESS. HEX LOCATION (00003376) IN CSECT (I7A10 ) LENGTH (4) 2941
2749	XIOCS	ADDRESS. HEX LOCATION (0000328C) IN CSECT (I7A10 ) LENGTH (6) 2945 3203 3264 3272 3283 3378 3457 3481 3580 3588 4021
2936	XIOCV	ADDRESS. HEX LOCATION (00003364) IN CSECT (I7A10 ) LENGTH (2) 2930
2947	XIOCX	ADDRESS. HEX LOCATION (00003382) IN CSECT (I7A10 ) LENGTH (4) 2937
2744	XIODG	ADDRESS. HEX LOCATION (00003280) IN CSECT (I7A10 ) LENGTH (6) 2114 2121
2820	XIOER	ADDRESS. HEX LOCATION (000032EC) IN CSECT (I7A10 ) LENGTH (2) 2953
2753	XIOI	ADDRESS. HEX LOCATION (0000329C) IN CSECT (I7A10 ) LENGTH (4) 2742 2745
2766	XIO2	ADDRESS. HEX LOCATION (000032C2) IN CSECT (I7A10 ) LENGTH (2) 2752
2778	XIO8	ADDRESS. HEX LOCATION (000032D8) IN CSECT (I7A10 ) LENGTH (2) 2109 2111 2785
62	XTRNL	ABSOLUTE. HEX VALUE (00000001) 635 715 751 769 787 805 823 841 859 905 923 941 1027 1033 1107 1181 1255 1371 1459 1547 1553
3369	X7A13	ADDRESS. HEX LOCATION (00003776) IN CSECT (I7A10 ) LENGTH (4) 3375 3376 3390
3471	X7A14	ADDRESS. HEX LOCATION (00003A38) IN CSECT (I7A10 ) LENGTH (4) 3478 3479 3493
3199	X7A55	ADDRESS. HEX LOCATION (00003628) IN CSECT (I7A10 ) LENGTH (4) 3196 3210 3214