

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT. Contains assembly code for STEP AND RULE ADDRESS TABLE, including instructions like EQN00001, EQN00002, etc.

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT
539+ DC A(F00147)
540 N00025 \$QUXX T7834,QT=(Q00151),YES=N00027,CT=(C00152),ST=(S00015)
541 N00025 DC A(@QUXX)
542+ DC AL2(N00027)
543+ DC A(T7834)
544+ DC AL2(DUMMY)
545+ DC AL2(0)
546+ DC C'AA'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
653 F00081 EQU *
654 DC AL2(0005)
655 A(0040)
656 DC C10040'SUSPECT BROKEN CONDUCTOR ON A-A1 BOARD. '

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002B28 0003 767 F00206 EQU *
002B28 0003 768 DC AL2(0003)
002B2A 0014 769 DC A(0020)
002B2C D9C5D7D3C1C3C540C 770 DC CL0020'REPLACE CARD A-A1H2.'
002B40 0002 771 DC A(0002)
002B42 0040 772 DC CL0002'
002B44 0022 773 DC A(0034)
002B46 D9C5D4D6E5C540D1E 774 DC CL0034'REMOVE JUMPERS IF ANY WERE PUT ON.'
002B68 0008 775 F00210 EQU *
002B68 000C 776 DC AL2(0012)
002B6A 000A 777 DC A(0010)
002B6C D7D6E6C5D940D6C6C 778 DC CL0010'POWER OFF '
002B76 0026 779 DC A(0038)
002B78 D9C5D4D6E5C540D1E 780 DC CL0038'REMOVE JUMPER. CHECK CABLES D-W1B5 AND'
002B9E 0008 781 DC A(0008)
002BA0 C460E6F1C2F24B40 782 DC CL0008'D-W1B2. '
002BA8 001A 783 DC A(0026)
002BA8 E2C5C540E2C6F3F0F 784 DC CL0026'SEE SF308 , MLD VOLUME 01.'
002BA8 000E 785 DC A(0018)
002BCA C9C640C3C1C2D3C5E 786 DC CL0014'IF CABLES OK, '
002BD4 001A 787 DC A(0026)
002BD6 D9C5D7D3C1C3C540 788 DC CL0026'REPLACE (DE) CARD D-W1B3. '
002BF0 0014 789 DC A(0020)
002BF2 D9C5D7D3C1C3C540C 790 DC CL0020'REPLACE CARD A-A1H2.'
002C06 001A 791 DC A(0026)
002C08 D9C5D7D3C1C3C5404 792 DC CL0026'REPLACE (DE) CARD D-W1A5. '
002C22 0002 793 DC A(0002)
002C24 4040 794 DC CL0002'
002C26 0014 795 DC A(0020)
002C28 C9C640F4F9F6F240C 796 DC CL0020'IF 4962 AGAIN FAILS,'
002C3C 0010 797 DC A(0018)
002C3E D9C5D7D3C1C3C540E 798 DC CL0016'REPLACE THE DE. '
002C4E 002C 799 DC A(0044)
002C50 E2C5C540F4F9F6F24 800 DC CL0044'SEE 4962 MIN , PARAGRAPH 3.5 FOR PROCEDURE. '
002C7C 801 F00007 EQU *
002C7C 0001 802 DC AL2(0001)
002C7E 0014 803 DC A(0020)
002C80 D9C5D7D3C1C3C540C 804 DC CL0020'REPLACE CARD A-A1H2.'
002C94 0000 805 HDIT 00B2
002C94 0000 807+OPTN1 DC X'0000' PROGRAM OPTION CONTROL WORD 1
002C96 0000 808+** DC X'0000' PROGRAM OPTION CONTROL WORD 2
002C96 0000 809+OPTN2 DC X'0000' PROGRAM OPTION CONTROL WORD 2
000010 810+** EQU BIT HEX
000011 811+B48 EQU 16 0 8
000011 812+B49 EQU 17 1 4
000012 813+B50 EQU 18 2 2
000013 814+B51 EQU 19 3 1
000014 815+B52 EQU 20 4 8
000015 816+B53 EQU 21 5 4
000016 817+B54 EQU 22 6 2
000017 818+B55 EQU 23 7 1
000018 819+B56 EQU 24 8 8
000019 820+B57 EQU 25 9 4
00001A 821+B58 EQU 26 10 2
00001B 822+B59 EQU 27 11 1
00001C 823+B60 EQU 28 12 8
00001D 824+B61 EQU 29 13 4
00001E 825+B62 EQU 30 14 2
00001F 826+B63 EQU 31 15 1
00001F 827+CH EQU 30 14 2
00001F 828+CMP EQU 31 15 1
00001F 830+CPTN3 DC X'0000' PROGRAM OPTION CONTROL WORD 3
002C98 0000 831+**
832+** 0 MYSTERY INTERRUPT MI 8 CS STATUS IN PROGRESS CS
833+** 1 ERROR INTERRUPT ER 9 CS AVAILABLE CSA
834+** 2 EXPECTED INTERRUPT XI 10 CS STATUS INTERRUPT ERR CE
835+** 3 INTERRUPT RECEIVED IN 11 ISB BITS ON (1-7) ISBON
836+**
837+** 4 EXPECTED ERR/ATTENT YE 12 TEST UNIT RESULTS VOID NG
838+** 5 HARD ERROR FOUND HE 13 OIO CC ERROR IOCC
839+** 6 WRONG INTR LEVEL SLE 14 NO INTERRUPT NOIN
840+** 7 NO INTR EXPECTED NI 15 INTERRUPT CC ERROR INCC
841+** BIT HEX
000020 842+MI EQU 32 0 8 MYSTERY INTERRUPT HAPPENED
000021 843+ER EQU 33 1 4 ERROR RECEIVED ON INTERRUPT
000022 844+XI EQU 34 2 2 EXPECTED INTERRUPT CONTROL BIT
000023 845+IN EQU 35 3 1 INTERRUPT RECEIVED CONTROL BIT
000024 846+KE EQU 36 4 8 EXPECTED ERROR RESPONSE
000025 847+HE EQU 37 5 4 HARD ERROR, 8 RETRIES
000026 848+SLE EQU 38 6 2 INTERRUPT ON WRONG LEVEL ERROR
000027 849+NI EQU 39 7 1 NO INTERRUPT EXPECTED E
000028 850+CS EQU 40 8 8 CYCLE STATUS IN PROGRESS
000029 851+CSA EQU 41 9 4 CYCLE STEAL AVAILABLE
00002A 852+CE EQU 42 10 2 CYCLE STEAL STATUS INERRRUPT ERFOR
00002B 853+ISBON EQU 43 11 1 ISB BITS ON (1-7)
00002C 854+NG EQU 44 12 8 TEST UNIT RESULTS NO GOOD
00002D 855+IOCC EQU 45 13 4 OIO CC ERROR
00002E 856+NOIN EQU 46 14 2 NO INTERRUPT
00002F 857+INCC EQU 47 15 1 INTERRUPT CC ERROR
858+**
859+** COMMON BUFFER FOR PRINTING DATA
860+**
002C9A 0000 862+$TUID DC A(*-*) TEST UNIT IDENTIFICATION
002C9C 0000 863+$I0IN DC A(*-*) I/O AND INTR CONDITION CODES
002C9E 0000 864+$ISB DC A(*-*) R7, INTR STATUS BYTE & DEV ADRS
002CA0 0000 865+$LSTIO DC A(*-*) ADRS OF LAST I/O + 4 BYTES
002CA2 0000 866+$DEV1 DC A(*-*) DEVICE DEPENDENT DATA
002CA4 0000 867+$DEV2 DC A(*-*)
002CA6 0000 868+$DEV3 DC A(*-*)
002CA8 0000 869+$DEV4 DC A(*-*)
002CA2 870+$CTUID EQU DEV1 READ ID BUFFER FOR IBIS & TERN
002CAA 871+$DCBUF EQU * DCB BUFFER FOR LAST DCB USED
002CAB 0000 872+$DCB1 DC A(*-*) LAST DCB TABLE, CONTROL WORD
002CAC 0000 873+$DCB2 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002CAE 0000 874+$DCB3 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002CB0 0000 875+$DCB4 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002CB2 0000 876+$DCB5 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
002CB4 0000 877+$DCB6 DC A(*-*) LAST DCB TABLE, CHAIN ADRS
002CB6 0000 878+$DCB7 DC A(*-*) LAST DCB TABLE, BYTE COUNT
002CB8 0000 879+$DCB8 DC A(*-*) LAST DCB TABLE, BUFFER ADDRESS
880+**
002CBA 0000 881+$CSBUF EQU * CYCLE STEAL DATA BUFFER
002CBA 0000 882+$CSTL1 DC A(*-*) CYCLE STEAL BUFFER, RESIDUAL ADRS
002CBC 0000 883+$CSTL2 DC A(*-*) CYCLE STEAL WD 2, DEVICE DEPEND

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002CBE 0000 884+$CSTL3 DC A(*-*) CYCLE STEAL WD 3, DEVICE DEPEND
002CC0 0000 885+$CSTL4 DC A(*-*) CYCLE STEAL WD 4, DEVICE DEPEND
002CC2 0000 886+$CSTL5 DC A(*-*) CYCLE STEAL WD 5, DEVICE DEPEND
002CC4 0000 887+$CSTL6 DC A(*-*) CYCLE STEAL WD 6, DEVICE DEPEND
002CC6 0000 888+$CSTL7 DC A(*-*) CYCLE STEAL WD 7, DEVICE DEPEND
002CC8 0000 889+$CSTL8 DC A(*-*) CYCLE STEAL WD 8, DEVICE DEPEND
890+**
002CCA 0000 891+$SSUBN DC A(*-*) LAST SUBROUTINE ADDRESS USED
002CCC 00000000 892+$SDATA DC 2A(*-*) OPTIONAL DATA
002CD0 0021 893+$SINTL DC X'0021' INTERRUPT LEVEL REQUESTED
002CD2 0000 894+$TURTN DC A(*-*) TEST UNIT RETURN ADRS TO MDI
002CD4 00B2 895+$SDVID DC X'00B2' DEVICE ID
002CD6 19D0 896+$SVCAL DC A(DEVADD) ADRS OF DEVICE ADDRESS
002CD8 0000 897+* DC A(*-*) IBIS CYLINDER ADDRESS
898+**
899+** THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM
900+** FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE
901+** STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.
902+**
002CDA 4020 2C9A 3C02 903+$T3C02 MWHI X'3C02',STUID SET UP TEST UNIT ID
002CE0 5700 904+* EQU (R7) RETURN TO MDI SUPVR
906 COPY COMEQU
907 *****
908 *
909 * EQUATED NAMES FOR SUPPORTED SVC'S
910 *
911 *****
912 OUT EQU 0 OUT SVC
913 OUTIN EQU 1 OUTIN SVC
914 IDLE EQU 2 IDLE SVC
915 ASCII EQU 3 HEX TO ASCII SVC
916 CHNGE EQU 4 CHANGE LEVEL SVC
917 EGCHK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
918 EXIT EQU 6 EXIT SVC
919 TERN EQU 7 TERMINATE SVC
920 RESET EQU 8 RESET DEVICE SVC
921 RID EQU 9 READ ID SVC
922 START EQU 10 START CYCLE STEAL SVC
923 STCSS EQU 11 START CYCLE STEAL STATUS SVC
924 PREP EQU 12 PREPARE DEVICE SVC
925 READ0 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
926 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
927 RSTAT EQU 15 READ STATUS SVC
928 WRTO EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
929 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
930 CTRL EQU 18 CONTROL SVC
931 RICB EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
932 CICB EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
933 HIO EQU 21 HALT ALL I/O
934 RECDSD EQU 22 REQUEST USE OF DCP DISK SVC
935 RELESD EQU 23 RELEASE USE OF DCP DISK SVC
936 HALT EQU 24 HALT SVC
937 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
938 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
939 ATOH EQU 27 ASCII TO HEX SVC (STRING)
940 HTOA EQU 28 HEX TO ASCII SVC (STRING)
941 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
942 ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
943 READI EQU 31 READ DATA SETS FOR MDI/UTIL
944 WRITI EQU 32 WRITE DATA SETS FOR UTIL
946 *****
947 *
948 * EQUATES USED BY TU'S AS CONSTANTS
949 *
950 *****
951 PLUS EQU C'+ PLUS CHAR
952 MINUS EQU C-' MINUS CHAR
953 ZERO EQU 0
954 ONE EQU 1
955 TWO EQU 2
956 THREE EQU 3
957 FOUR EQU 4
958 FIVE EQU 5
959 SIX EQU 6
960 SEVEN EQU 7
961 EIGHT EQU 8
962 NINE EQU 9
963 TEN EQU 10
964 ELEVEN EQU 11
965 TWELVE EQU 12
966 THIRTEEN EQU 13
967 FOURTEEN EQU 14
968 FIFTEEN EQU 15
969 SIXTEEN EQU 16
970 SEVENTEEN EQU 17
971 EIGHTEEN EQU 18
972 NINETEEN EQU 19
973 TWENTY EQU 20
974 TWENTYFIVE EQU 25
975 THIRTY EQU 30
976 FORTY EQU 40
977 FORTYEIGHT EQU 48
978 FIFTY EQU 50
979 SIXTY EQU 60
980 SEVENTY EQU 70
981 EIGHTY EQU 80
982 NINETY EQU 90
984 *****
985 *
986 * THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE
987 * BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
988 *
989 *****
990 BS0 EQU 0
991 BS1 EQU 1
992 BS2 EQU 2
993 BS3 EQU 3
994 BS4 EQU 4
995 BS5 EQU 5
996 BS6 EQU 6
997 BS7 EQU 7
998 BS8 EQU 8
999 BS9 EQU 9
1000 BS10 EQU 10
1001 BS11 EQU 11
1002 BS12 EQU 12

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LOCTR OBJECT TEXT STMT SOURCE STATEMENT
00000D 1003 BS13 EQU 13
00000E 1004 BS14 EQU 14
00000F 1005 BS15 EQU 15
1007 COPY T7872 03JAN77
1008 *****
1009 *T7872
1010 * THIS TU INHIBITS INTERRUPT 12/01/76*
1011 * CALLING ROUTINE LOOPS ON T72A *****
1012 *****
1013 T7872 MVW R7,TURTN SAVE RETURN ADDRESS
1014 MVWI X'0020',IODCB PREP TO LEVEL 2 WITH THE 'I' BIT OFF
1015 MVA IOBLK,R7
1016 SVC FRFP
1017 J T72B
1018 T72A MVW R7,TURTN SAVE RETURN ADDRESS
1019 T72B B SCONX EXIT
1020 *
1021 COPY T7834 01DEC76
1022 T7834 TUIT S11H
1023 *****
1024 *****06FEB76**
1025**
1026** TEST UNIT
1027**
1028** T78S11 WRITE ,READ ID TEST LOOP 12/1/76
1029**
1030** PURPOSE
1031**
1032** FUNCTION:
1033**
1034** . SELECT HEAD ZERO
1035** . WRITE ID ON SECTOR #30 ('55')
1036** . READ AND COMPARE ID BYTES
1037** . SELECT HEAD ONE AND REPEAT WRITE ID
1038** . SELECT HEAD TWO AND REPEAT WRITE ID (IF INSTALLED)
1039** . RESTORE CE TRACK WITH ORIGINAL ID BYTES
1040** . LOOP UNTIL CE INPUTS ANSWER TO MAP QUESTION.
1041**
1042**
1043** CALLING SEQUENCE
1044**
1045** PROGRAM PASSES STATUS OF ALL LINES IN FOLLOWING FORMAT:
1046** . NO STATUS PASSED BACK TO MDI
1047**
1048** EXITS NORMAL
1049** . MDI TERMINATES LOOP
1050**
1051** EXITS ERROR
1052** . NONE
1053**
1054** RETURN CONTROL
1055**
1056** B TURTN* RETURN TO MDI SUPERVISOR
1057**
1058** *****
1059** *****
1060** *****
1061** *****
1062** *****
1063** *****
1064** *****
1065** *****
1066** *****
1067** *****
1068** *****
1069** *****
1070** *****
1071** *****
1072** *****
1073** *****
1074** *****
1075** *****
1076** *****
1077** *****
1078** *****
1079** *****
1080** *****
1081** *****
1082** *****
1083** *****
1084** *****
1085** *****
1086** *****
1087** *****
1088** *****
1089** *****
1090** *****
1091** *****
1092** *****
1093** *****
1094** *****
1095** *****
1096** *****
1097** *****
1098** *****
1099** *****
1100** *****
1101** *****
1102** *****
1103** *****
1104** *****
1105** *****
1106** *****
1107** *****
1108** *****
1109** *****
1110** *****
1111** *****
1112** *****
1113** *****
1114** *****
1115** *****
1116** *****
1117** *****
1118** *****
1119** *****

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
1120 * DCB TABLES AND DC'S
1121 *
1122 *****
1123 *
1124 *****
1125 *
1126 DGDCB DC X'2008' DIAGNOSTIC DCB
1127 DC X'0000' NOT USED
1128 DC A(0-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
1129 DC X'0000' NOT USED
1130 DC X'0000' NOT USED
1131 DC A(0-*) CHAINING ADDRESS
1132 DC X'0100' BYTE COUNT
1133 DC A(0-*) DATA ADDRESS
1134 *
1135 *
1136 *****
1137 *
1138 CLDCB DC X'0007' RECALIBRATE DCB
1139 DC 7A(0-*)
1140 *
1141 *****
1142 *
1143 WSDCB DC X'0002' WRITE SECTOR ID CONTROL WORD
1144 DC X'0000' NOT USED
1145 DC A(0-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
1146 DC A(0-*) NOT USED
1147 DC A(0-*) NOT USED
1148 DC A(0-*) CHAIN ADDRESS
1149 DC X'0006' BYTE COUNT
1150 DC A(WRSID) ADDR OF SECTOR ID DATA
1151 *
1152 *****
1153 *
1154 RSDCB DC X'200A' READ SECTOR ID
1155 DC X'0000' NOT USED
1156 DC X'0000' 0-7 = PHYSICAL SECTOR # MINUS ONE
1157 DC X'0000' NOT USED
1158 DC X'0000' NOT USED
1159 DC X'0000' CHAIN ADDRESS
1160 DC X'0006' BYTE COUNT FOR READ SECTOR ID
1161 DC A(SCTID) SECTOR ID DATA ADDRESS
1162 *
1163 *****
1164 *
1165 RIDCB DC X'200E' READ SECTOR ID
1166 DC X'0000' NOT USED
1167 DC X'0000' NOT USED
1168 DC X'0000' NOT USED
1169 DC X'0000' NOT USED
1170 DC A(0-*) CHAIN ADDRESS
1171 DC X'0006' BYTE COUNT FOR READ SECTOR ID
1172 DC A(SCTID) SECTOR ID DATA ADDRESS
1173 *
1174 *
1175 *****
1176 *
1177 SKDCB DC X'0005' SEEK DCB
1178 DC X'0000' BIT 0-3=0;BIT4=DIRECTION;5-15=DIPPER
1179 DC F'0'
1180 DC F'0'
1181 DC X'0000' 0-7 = HEAD;8-15 NOT USED
1182 DC A(0-*) CHAIN ADDRESS
1183 DC F'0' NOT USED
1184 DC F'0' NOT USED
1185 *
1186 *****
1187 *
1188 CSDCB DC X'2000' CONTROL WORD
1189 DC F'0' NOT USED
1190 DC F'0' NOT USED
1191 DC F'0' NOT USED
1192 DC F'0' NOT USED
1193 DC F'0' NOT USED
1194 DC X'0008' 4 WORDS OF STATS
1195 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
1196 *
1197 *****
1198 *
1199 WRDCB DC X'0001' WRITE CONTROL WORD
1200 DC F'0' NOT USED
1201 DC X'0000' 0-7=0;8-15 = FLAG BYTE
1202 DC X'0000' SEARCH ARGUMENT CYLINDER
1203 DC X'0000' SEARCH ARGUMENT HEAD-SECTOR
1204 DC A(0-*) CHAIN ADDRESS
1205 DC F'0' BYTE COUNT
1206 DC A(0-*) WRITE DATA ADDRESS
1207 *
1208 *****
1209 *
1210 VRDCB DC X'200C' CONTROL WORD
1211 DC F'0' NOT USED
1212 DC X'0000' 0-7=0;8-15 = FLAG BYTE
1213 DC X'0000' CYLINDER
1214 DC X'0000' HEAD - SECTOR
1215 DC A(0-*) CHAIN ADDRESS
1216 DC F'0' BYTE COUNT
1217 DC A(0-*) VERIFY DATA ADDRESS
1218 *
1219 *****
1220 *
1221 RDCB DC X'2009' READ DCB CONTROL WORD
1222 DC F'0' NOT USED
1223 DC X'0000' 0-7=0,8-15 = FLAG BYTE
1224 DC X'0000' SEARCH ARGUMENT CYLINDER
1225 DC X'0101' SEARCH ARGUMENT H-R
1226 DC A(0-*) CHAIN ADDRESS
1227 DC F'0' BYTE COUNT
1228 DC A(0-*) READ DATA ADDRESS
1229 *
1230 *****
1231 *
1232 WKDCB DC X'0003' CONTROL WORD
1233 DC X'0000' NOT USED

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
002E6C 0000 1234 DC A(*-*)
002E6E 0000 1235 DC A(*-*)
002E70 0000 1236 DC A(*-*)
002E72 0000 1237 DC A(*-*)
002E74 0006 1238 DC X'0006'

1348** EXIT NORMAL
1347** NO STATUS PASSED BACK TO MDI
1346** PROGRAM PASSES STATUS OF ALL LINES IN FOLLOWING FORMAT:
1345** CALLING SEQUENCE
1344** RECALIBRATE
1343** SEEK TO CE TRACK
1342** FUNCTION:

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
1349** MDI TERMINATES LOOP
1350**
1351** EXITS ERROR
1352** NONE
1353**
1354** RETURN CONTROL
1355**
1356** B TURTN* RETURN TO MDI SUPERVISOR
1357**

1457**
1456** BXS (R6,2) RETURN TO CALLER
1455**
1454** IO ICBCBRAP READ SENSE WORD 1
1453** MVB DEVADD,IDCBRAP+1 LOAD DEVICE ADDRESS IN IDCB
1452** WRAP R6,ISTIO SAVE ADDRESS OF LAST IO
1451**
1450**
1449**
1448**
1447** BIT 15 - RESET DIAGNOSTIC MODE
1446** BIT 14 -
1445** BIT 13 - RST RD/WRT CLOCK
1444** BIT 12 -
1443** BIT 11 - PLO OUT OF SYNC
1442** BIT 10 - RESET SEEK COMPLETE
1441** BIT 09 - SET SEEK COMPLETE
1440** BIT 08 - BEHIND HOME
1439** BIT 07 - SPEED PULSE
1438** BIT 06 - STANDARD READ DATA
1437** BIT 05 - SECTOR PULSE
1436** BIT 04 - INDEX PULSE
1435** BIT 03 - SET READ CLOCK
1434** BIT 02 - SET WRITE CLOCK
1433** BIT 01 - RESET READY
1432** BIT 00 - SET READY
1431** CE DIAGNOSTIC OP2 DATA WORD (CLOCK STEP)
1430**
1429**
1428**
1427**
1426** BXS (R6,2) RETURN
1425**
1424**
1423**
1422**
1421**
1420**
1419**
1418**
1417**
1416**
1415**
1414** EXECUTE DPC INPUT/OUTPUT COMMANDS
1413** THIS ROUTINE HAS THE FOLLOWING ENTRIES:
1412**
1411** COPY T78DPCIO 01DEC76
1410** (T78DPCIO)
1409**
1408**
1407**
1406**
1405**
1404** S20D B \$CONY RETURN TO MDI CONTROLLER
1403**
1402**
1401**
1400**
1399** S20C CWI 59,IGSEC
1398** BE \$ERRS
1397** JE 302,SCTID+2
1396** JNE S20C
1395** CB ZER00,SCTID+1
1394** CB S20D
1393** TBTR (R4,ER)
1392** DC A(\$ERRS)
1391** BAL SRDID,R6
1390** MVB PHYSC+1,RSDCB+4
1389** S20B BAL CONVT,R6
1388** MVNI 0,LGSEC
1387** MVNI X'200A',RSDCB
1386** BOB \$ERRS
1385** TBTR (R4,ER)
1384** JE \$ERRS
1383** TBTR (R4,ER)
1382** BAL \$ERRS
1381** MVNI 0,SKDCB+8
1380** MVNI 5,SKDCB
1379** MVNI 302,SKDCB+2
1378** DC A(\$ERRS)
1377** TBTR (R4,ER)
1376** BAL \$RECL,R6
1375** JCT TO720,R0
1374** TO720 SVC \$ERRS
1373** MVNI X'0000',R0
1372** TBTR \$ERRS
1371** J T20TC MVNI X'0C0E',T20T1+2
1370** J T20T2 SVC \$ERRS
1369** MVNI X'254C',T20T1+2
1368** JNE T20TC
1367** CBI 37,R0
1366** MVB CPUID,R0
1365** S20A MVA IOBLK,R7
1364**
1363** DC A(\$ERRS)
1362** BAL \$CONC,R6
1361** MVA OPM1,R4
1360** MVNI X'7820',STUID
1359** MVW R7,TURTN
1358** T7820 MVA R7,TURTN
1357**
1356**
1355**
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002FEA 6E0D 2CA0 1464 CEOP2 MVW R6,ISTIO SAVE ADDRESS OF LAST IO
002FEB 8028 19D0 3041 1465 MVB DEVADD,IDCBCE2+1 LOAD DEVICE ADDRESS IN IDCB
002FE4 680C 3040 1466 IO IDCBCE2 WRITE DIAG CLOCK STEP
002FE8 6F05 3026 1467 BNCC 7,CCERR CHECK COND CODE
002FFC 5601 1468 BXS (R6,2) RETURN TO CALLER
1469 *
1470 *
1471 SENS1 MVW R6,ISTIO SAVE ADDRESS OF LAST IO
003002 8028 19D0 3039 1472 MVB DEVADD,IDCB1+1 LOAD DEVICE ADDRESS IN IDCB
003008 680C 3038 1473 IO IDCB1 READ SENSE WORD 2
00300C 6F05 3026 1474 BNCC 7,CCERR CHECK COND CODE
003010 5601 1475 BXS (R6,2) RETURN TO CALLER
1476 *
1477 SENSO MVW R6,ISTIO SAVE ADDRESS OF LAST IO
003012 6E0D 2CA0 1478 MVB DEVADD,IDCB0+1 LOAD DEVICE ADDRESS IN IDCB
003016 8028 19D0 3035 1479 IO IDCB0 READ SENSE WORD 1
00301C 680C 3034 1480 BNCC 7,CCERR CHECK COND CODE
003020 6F05 3026 1481 BXS (R6,2) RETURN TO CALLER
1482 *
003026 706E 1483 CCERR DC X'706E' COPY STATUS ANY LEVEL INTO R3
003028 336A 1484 SRL 13,R3 POSITION CC CODE TO BITS 13-15
00302A C329 2C9C 1485 MVB R3,SI0IN * PUT IN LOG AREA
00302E 68D2 0000 1486 B (R6)* RETURN TO USER
1487 *
003032 6F05 1487 IORST DC X'6F05' RESET IO
003034 2205 1488 IDCB0 DC X'2205' SENSE WORD ZERO
003036 0000 1489 RDATA0 DC A(*-*) DATA WORD
003038 2105 1490 IDCB1 DC X'2105' SENSE WORD ONE
00303A 0000 1491 RDATA DC A(*-*)
00303C 4005 1492 IDCBCE1 DC X'4005' CE DIAG OP1
00303E 0000 1493 CEDAT DC A(*-*) SENSE DATA
003040 4105 1494 IDCBCE2 DC X'4105' CE DIAG OP2
003042 0000 1495 CEDAT2 DC A(*-*) SENSE DATA
003044 2F05 1496 IDCBRAP DC X'2F05' READ DIAG WRAP
003046 0000 1497 RAPDAT DC A(*-*) SENSE DATA
003048 0000 1498 CPUID EQU X'0232' CPU ID
1499 *
1500 COPY T78IO 01DEC76
1501 ** (T78IO)
1502 *****12/01/76*****
1503 *
1504 * SUBROUTINE
1505 *
1506 * PURPOSE
1507 *
1508 * COMPARE READ SECTOR ID DATA TO WRITE SECTOR ID DATA
1509 * NORMAL AND TEST DATA.
1510 *
1511 * CALLING SEQUENCE
1512 *
1513 * BAL CMPRW,R6 (NORMAL)
1514 * BAL CMPT,R6 (TEST)
1515 *
1516 * RETURN
1517 *
1518 * BXS (R6,2) - NORMAL
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1538 * SUBROUTINE
1539 *
1540 * PURPOSE
1541 * CONVERT LOGICAL SECTOR NUMBER TO A PHYSICAL SECTOR MINUS
1542 * ONE.
1543 * SETUP LOGICAL SECTOR # IN LOCATION 'LGSEC'
1544 * PHYSICAL SECTOR # WILL BE LOADED IN LOCATION 'PHYS'
1545 *
1546 * LOGICAL SECTOR# TO PHYSICAL SECTOR# CONVERSION
1547 * LOGICAL- 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D,
1548 * PHYSICAL X 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D,
1549 *
1550 * LOGICAL- 0E, 0F, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 1A, 1B,
1551 * PHYSICAL 0E, 0F, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 1A, 1B,
1552 *
1553 * LOGICAL- 0E, 2C, 0F, 2D, 10, 2E, 11, 2F, 12, 30, 13, 31, 14, 32,
1554 * PHYSICAL 1C, 1D, 1E, 1F, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29,
1555 *
1556 * LOGICAL- 15, 33, 16, 34, 17, 35, 18, 36, 19, 37, 1A, 38, 1B, 39,
1557 * PHYSICAL 2A, 2B, 2C, 2D, 2E, 2F, 30, 31, 32, 33, 34, 35, 36, 37,
1558 *
1559 * LOGICAL- 1C, 3A, 1D, 3B, X
1560 * PHYSICAL 38, 39, 3A, 3B, X
1561 *
1562 *
1563 * CALLING SEQUENCE
1564 *
1565 * BAL CONV, R6
1566 *
1567 * RETURN
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1569 * B (TT304+2)
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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
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003088 7802 003C 1580 SWI 60,R0 LOG SEC TIMES 2 MINUS 60
00308C C028 2EA9 1581 MVB R0,PHYS+1 PHYSICAL SECTOR NUMBER
003090 500C 1582 J TT304 RETURN TO CALLER
003092 8028 2EAC 2EA9 1583 TT303 MVB FIVES,PHYS+1 PHYSICAL SECTOR # 59
003098 5008 1584 J TT304 RETURN TO CALLER
00309A 4024 0002 1585 RTT01 MVWI 2,R0 LOAD MULTIPLIER
00309E E821 2EA7 1586 MB LGSEC+1,R0 LOG SECTOR # TIMES 2
0030A2 7802 0001 1587 SWI 1,R0 SUBTRACT ONE
0030A6 C028 2EA9 1588 MVB R0,PHYS+1 LOAD PHYSICAL SECTOR #
0030AA 6802 0000 1589 B *-* RETURN TO CALLER
1590 *
1591 *****
1592 *
1593 * SUBROUTINE
1594 *
1595 * PURPOSE
1596 *
1597 * LOAD WRITE SECTOR ID DATA BUFFER FROM RD SEC ID BUFFER
1598 *
1599 * CALLING SEQUENCE
1600 *
1601 * BAL LWSID,R6
1602 *
1603 * RETURN
1604 *
1605 * BXS (R6)
1606 *
1607 *
1608 *
1609 *
1610 *
1611 *
1612 *
1613 *
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1692 *
1693 *

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00311E 4020 2E86 2CA2 1694 MVA SCTID,RKDCB+14 DATA ADDR
00312C 5034 1695 J XIO
003126 4020 3290 2E68 1696 * SWKST MVA WKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
003132 4020 2E76 2EB6 1697 MVA HSIDT,WKDCB+14 DATA ADDR
003134 4020 3290 2E78 1699 J XIO
00313A 4020 2E86 2EBC 1701 * SRWST MVA RKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
003140 5026 1702 MVA SCTST,RKDCB+14 DATA ADDR
003142 4020 3290 2DF8 1703 J XIO
003148 08FFF MVA RSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
00314A 4524 2EBC 1706 MVA X'FF',R3 SET BUFFER TO F'S
00314E 4724 0006 1707 MVA SCTST,R5 SETUP READ SECTOR ID BUFFER ADRS
003154 2BAC MVA 6,R7 SETUP BUFFER LENGTH
00315A 5019 2E06 2EBC 1709 MVA R3,(R5) INIT READ SECTOR ID BUFFER
1710 MVA SCTST,RSDCB+14 DATA ADDR
1711 J XIO
1712 *
1713 \$WKEW MVA WKDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
1714 MVA WRSID,WKDCB+14 DATA ADDR
1715 J XIO
1716 *
1717 \$WSEC MVA WSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
1718 MVA WRSID,WSDCB+14 DATA ADDR
1719 J XIO
1720 \$WSTS MVA WSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
1721 MVA WSIDT,WSDCB+14 DATA ADDR
1722 J XIO
1723 *
1724 \$DIAG MVA DGDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
1725 MVA J XIO
1726 XEQIT
1727 *****29JUL76**
1728 *
1729 * SUB-ROUTINE
1730 *
1731 * EXECUTE INPUT AND OUTPUT COMMANDS
1732 *
1733 * PURPOSE
1734 *
1735 * TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
1736 * THIS SUBROUTINE WILL DO THE FOLLOWING FUNCTIONS:
1737 *
1738 * 1. SAVE THE ADDRESS THAT POINTS TO THE INSTRUCTION THAT STARTED
1739 * THE I/O COMMAND.
1740 * 2. SAVES THE DCB BLOCK USED UNLESS IT IS A START CYCLE STATUS
1741 * ISSUED BY THIS SUBROUTINE.
1742 * 3. CLEAR OUT THE CYCLE STEAL STATUS STORAGE UNLESS THE
1743 * START CYCLE STATUS WAS ISSUED BY THIS SUBROUTINE.
1744 * 4. RESETS THE INTERRUPT INDICATOR AND CHECKS FOR ANY INTERRUPT
1745 * SINCE THE LAST EXPECTED INTERRUPT. IF AN INTERRUPT IS FOUND,
1746 * MYSTERY INTERRUPT (MI) CONTROL BIT IS SET.
1747 * 5. MOVES THE ADDRESS OF THE I/O CONTROL BLOCK IN R7, SET THE
1748 * EXPECTED INTERRUPT CONTROL BIT AND ISSUES THE 'SVC START'
1749 * WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, TIMING
1750 * STARTS TO DETERMINE A LOST INTERRUPT.
1751 * 6. WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, IF IT
1752 * WAS AN ERROR OR OKAY AND EXIT OFF THE INTERRUPT LEVEL.
1753 * 7. CHECK IF THERE WAS A WRONG INTERRUPT LEVEL.
1754 * 8. CHECK IF AN ERROR WAS EXPECTED AND IF THERE WAS RETURN.
1755 * 9. CHECK IF THERE WAS AN ERROR CONDITION, IF NOT RETURN.
1756 * 10. CHECK TO SEE IF THE EXERCISER IS TO BE TERMINATED.
1757 * 11. CHECK IF A CYCLE STEAL OPERATION WAS IN PROGRESS THAT WAS
1758 * ISSUED BY THIS SUBROUTINE.
1759 * 12. CHECK THE ISB BITS THAT ARE ON. IF BIT 0 IS ON, ISSUE A
1760 * CYCLE STEAL STATUS COMMAND. CHECK FOR ANY OTHER BIT BEING ON,
1761 * COUNT IT AND SET UP THE PROPER ERROR MESSAGE TO BE PRINTED.
1762 *
1763 * CALLING SEQUENCE
1764 *
1765 * THIS ROUTINE HAS THE FOLLOWING ENTRIES:
1766 *
1767 * --> BAL XIO OR XEQ ANY CYCLE STEAL COMMAND, MOD=0
1768 * --> BAL XIO1 MOD PARM PRELOADED IN 'IOMOD'
1769 * --> BAL XIOCS,R6 OR XEQ START CYCLE STEAL STATUS, MOD=F
1770 * --> BAL XIOCS-4,R6 AUTO CS STATUS (FOLLOWING OTHER XIO
1771 * AND DOES NOT POST INTERRUPT STATUS)
1772 *
1773 * RETURN CONTROL
1774 *
1775 * BXS (R6,2) RETURN TO USER NO ERROR
1776 * OR B (R6)* RETURN AND RETRY ON ERROR
1777 *****
1779 * XIO MVWZ IOMOD,R3 SET MOF OF 0 FOR CYCLE STEAL OP
1780 * J XIO1 CS I/O'S ARE NOT RETRIED
1781 *
1782 * TBTR (R4,CE) RESET CS STATUS INTER ERROR INDICAT.
1783 * TBTS (R4,IN) SET I/CYCLE STEAL STATUS IN PROGRESS
1784 * XIOCS MVA CSDCB,IODCB SET UP CONTROL BLOCK FOR SVC CALL
1785 * NVWI X'0005',IOMOD SET CYCLE STEAL MODIFIER
1786 * TBT (R4,CS) IS CS IN PROGRESS, ERROR CONDITION
1787 * JON XIO2 * YES, BYPASS SAVING I/O ADRS
1788 * XIO1 MVW R6,ISTIO SAVE IAR FOR RETRY IF REQUESTED
1789 * MVA DCBUP,R3 SET UP TO ADRS TO MOVE DCB TABLE
1790 * NVW IODCB,R5 * AND THE FROM ADRS, ALONG WITH
1791 * MVA 16,R7 * THE NUMBER OF MOVES
1792 * NVFN (R5),(R3) MOVE 1 STATUS WORD AND ADJUST
1793 * NVBI 255,R3 CLEAR CYCLE STATUS BUFFER
1794 * MVA CSBUE,R5 * TO ALL ONES *
1795 * NVBI 16,R5 *
1796 * FVN R3,(R5) *
1797 * NVWI X'0708',STOIN OVERLAY OLD CONDITION CODES
1798 * MVWZ \$ISB,R3 ZERO OUT OLD ISB VALUE
1799 *
1800 * TBTR (R4,ER) RESFT ANY ERROR BEFORE I/O COMMAND
1801 * XIO2 TBTR (R4,IN) CLEAR INTERRUPT RECEIVED CNTL BIT
1802 * MVA IOBLR,R7 SET UP CONTROL BLOCK FOR SUPVR
1803 * TBTR (R4,ILE) RESET LEVEL ERROR INDICATOR
1804 * TBTS (R4,XT) SET EXPECTED INTR CONTROL BIT
1805 * SVC START CALL SUPVR FOR I/O COMMAND
1806 *
1807 * TBTR (R4,NI) IS AN INTR EXPECTED
1808 * BN (R6,2) * NO, RETURN TO USER

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1809**
1810** THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
1811**
1812**
1813** XIO8 MVBI X'00',R5 SET UP WORK REG FOR 'LOST INTR'
1814** TBTR (R4,IN) HAS INTERRUPT BEEN RECEIVED
1815** JON XIOCK * YES, CHECK IF ALL WAS SATISFACTORY
1816** SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
1817**
1818** ANI 1,R5 ADVANCE TIME OUT COUNT
1819** JNZ XIO8 BCH IF TIME OUT NOT REACHED
1820** B (R6)* SET ON ERROR CONTROL BIT
1821** ERR 'NO INTERRUPT'
1822*****03FEB76**
1823**
1824** SUBROUTINE
1825**
1826** I/O EXECUTE ERROR HANDLING ROUTINE
1827**
1828** PURPOSE
1829**
1830** THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
1831** PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
1832** SUPERVISOR AND IT WAS NOT ACCEPTED.
1833**
1834** CALLING SEQUENCE
1835**
1836** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
1837**
1838** RETURN CONTROL
1839**
1840** B (R6)* RETURN TO USERS ERROR HANDLER
1841**
1842*****
1843**
1844** CC 0= DEVICE NOT ATTACHED
1845** FOR 1= DEVICE BUSY
1846** I/O 2= DEVICE BUSY AFTER RESET
1847** 3= COMMAND REJECT
1848** 4= INTERVENTION REQUIRED
1849** 5= INTERFACE DATA CHECK
1850** 6= CONTROLLER BUSY
1851** 7= I/O COMMAND EXCEPTED
1852**
1853**
1854** XIOER DC X'706E' COPY STATUS ANY LEVEL INTO R3
1855** SRL 13,R3 POSITION CC CODE TO BITS 13-15
1856** MVB R3,STOIN * PUT IN LOG OUT AREA
1857** B (R6)* RETURN TO USER ERROR HANDLER
1858*****14APR76**
1859**
1860** SUB-ROUTINE
1861**
1862** ERROR INTERRUPT RUNS ON INTERRUPT LEVEL 'SINTL'
1863**
1864** PURPOSE
1865**
1866** THIS ROUTINE WILL BE ENTERED WHEN THE SUPVR DETECTS AN ERROR
1867** OF THE INTERRUPTING CONDITION CODE DOES NOT AGREE WITH THE
1868** EXPECTED CODE.
1869**
1870** CALLING SEQUENCE
1871**
1872** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O INTERRUPT
1873**
1874** RETURN CONTROL
1875**
1876** SVC EXIT RETURN TO USER VIA SUPVR
1877**
1878*****
1879**
1880** CC 0= CONTROLLER END ISB 0= ADD STATUS
1881** FOR 1= PROGRAM CONTROL INTERRUPT BITS 1= COMD REJECT
1882** INTR 2= EXCEPTION INTERRUPT FOR 2= INCOR LENGTH
1883** 3= DEVICE END INTERRUPT INTR 3= DCB SPEC CK
1884** 4= ATTENTION INTERRUPT 4= STG DATA CK
1885** 5= ATTENTION / PROGRAM CNTL INTR 5= INV STG ADRS
1886** 6= ATTENTION / EXCEPTION INTR 6= PROPRCT CK
1887** 7= ATTENTION / DECEPTION END INTR 7= I-FACE DATA
1888**
1889** INTER DC X'706E' COPY STATUS ANY LEVEL INTO R3
1890** SRL 13,R3 POSITION INDICATORS IN R3
1891** MVA OPEN1,R4 SET UP BASE ADRS
1892** TBT (R4,CS) IS CS IN PROGRESS
1893** JOFF INTES * NO
1894** TBTS (R4,CE) TURN ON CYCLE STEAL INTER ERROR
1895** MVW R7,CSTL8 SAVE CS ERR ISB VALUE, BITS 0-7
1896** MVB R3,CSTL8+1 * AND THE COND CODE
1897** J INTR1
1898** INTES TBT (R4,XE) TEST EXPECTED ATTEN / ERROR IND
1899** JOFF INTET BCH IF NOT EXPECTED
1900** CBI 4,R3 IS THIS AN 'ATTENTION' INTR
1901** JE INTR1 * YES, BCH TO END INTR SEQUENCE
1902** INTET TBTS (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT
1903** J INTR1
1904**
1905** THE ERROR INTERRUPT USES THE SAME
1906** ENDING SEQUENCE AS THE NORMAL INTR
1907*****14APR76**
1908**
1909** SOUBROUTINE
1910**
1911** OKAY INTERRUPT RUNS ON INTERRUPT LEVEL 'SINTL'
1912**
1913** PURPOSE
1914**
1915** TO CHECK THE INTERRUPT AND CONTINUE THE TEST
1916**
1917** CALLING SEQUENCE
1918**
1919** SUPERVISOR WILL ENTER HERE IF INTR CC IS AS REQUESTED
1920** THE ERROR INTERRUPT HANDLER WILL BRANCH TO THIS ROUTINE
1921** AFTER THE SPECIAL PART HAS BEEN COMPLETED AND THE
1922** COMMON SECTION IS HANDLED HERE.
1923**
1924** RETURN CONTROL
1925**

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1926** SVC EXIT RETURN TO USER VIA SUPVR IL
1927** IL
1928** ***** IL
1929+INTOK DC X'706E' COPY STATUS ANY LEVEL INTO R3 IL
1930+ SRL 13,R3 POSITION INDICATORS IN R3 IL
1931+ MVA OPTN1,R4 SET UP BASE ADRS IL
1932+INTR1 TBT (R4,IN) SET INTERRUPT RECEIVED IL
1933+ TBT (R4,CS) IS 'CS IN PROGRESS' ON IL
1934+ JON INTR2 * YES, BCH AROUND UPDATE IL
1935+ MVB R3,\$IOIN+1 SAVE INTERRUPTING CC CODE IL
1936+ MVB R7,\$ISB SAVE INTR STATUS AND DEV ADRS IL
1937+INTR2 EQU ***** IL
1938+ CACL R5 CURRENT LEVEL COPIED BY DCP IL
1939+ SLL 4,R5 POSITION INTR LEVEL AND PUT IL
1940+ ABI 1,R5 * IN 'I' BIT IL
1941+ CW \$INTL,R5 IS THIS THE CORRECT INTR LEVEL IL
1942+ JE INTR3 * YES, GO EXIT THIS LEVEL IL
1943+ TBT (R4,\$LE) SET INTR LEVEL ERROR CONTROL BIT IL
1944+ TBT (R4,ER) SET ERROR ON I/O COMMAND CNTL BIT IL
1945+INTR3 TBT (R4,XI) WAS INTERRUPT EXPECTED IL
1946+ JON INTRX * YES, EXIT OFF THIS INTR LEVEL IL
1947+ TBT (R4,MI) * NO, SET MYSTERY INTR CONTROL BIT IL
1948+ CBI 4,R3 YES ATTENTION INTERRUPT? IL
1949+ JE INTRX IL
1950+ TBT (R4,NG) ERROR, UNEXPECTED INTERRUPT IL
1951+INTRX SVC EXIT EXIT THIS LEVEL VIA SUPVR TO PGM IL
1953+*****03FEB76** IL
1954** IL
1955** THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT IL
1956** HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN IL
1957** RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS. IL
1958** IL
1959** IL
1960+XIOCK TBT (R4,XE) WAS AN ERROR EXPECTED IL
1961+ BN (R6,2) * YES, EXIT THIS ROUTINE IL
1962+ TBT (R4,CS) WAS AUTO CS IN PROGRESS IL
1963+ JOFF XIOCV * NO, CONTINUE CHECKING IL
1964+ TBT (R4,CE) IS CS IN AN ERR CONDITION IL
1965+ JOFF XIOCO * NO, BCH IL
1966+ B (R6)* CS ERROR IL
1967+XIOCO TBT (R4,CSA) TURN ON CS STATS AVAIL FLAG IL
1968+ BXS (R6,2) GO TO USER IL
1969+XIOCV TBT (R4,ER) WAS ERROR INTR CONTROL BIT ON IL
1970+ JOFF XIOCX * NO, EXIT THIS ROUTINE IL
1971** IL
1972+ MVB \$IOIN+1,R5 GET LAST INTP CC CODE IL
1973+ CBI 2,R5 IS THIS CC=2 IL
1974+ BNE (R6)* * NO, BCH TO ERROR HANDLER IL
1975+XIOCV MVB \$ISB,R5 GET LAST ISB DATA BYTE AND IF CS IL
1976+ BN XIOCS-4 * AVAILABLE, GO AND GET IT IL
1977+ B (R6)* ERROR IL
1978+XIOCV MVBZ OPTN3,R3 CLEAR OUT OPTION 3 CNTL BITS IL
1979+ BXS (R6,2) RETURN TO USER VIA REG 6 IL
1980** IL
1981** I/O PARAMETER LIST IL
1982** IL
1983+IOBLK DC A(DEVADD) ADRS OF DEVICE ADRS IL
1984+ DC A(XIOER) ERROR ROUTINE ADRS IL
1985+TODCB DC A(*-*) DCB ADRS OF LEVEL & INTR IL
1986+IOMOD DC A(*-*) MODIFIER IL
1987+ DC A(*-*) ADRS OF LAST SVC CALL IL
1988+IORSF DC A(*-*) SECOND WORD OF LAST IDCB IL
1989** IL
1990** INTEPRUPT CONTROL BLOCK FOR I/O COMMANDS IL
1991** IL
1992+INTEL DC A(DEVADD) ADRS OF DEVICE ADPS IL
1993+ DC A(INTOK) INTERRUPT OK RETURN ADRS IL
1994+ DC A(INTR) INTERRUPT ERROR ADRS IL
1995+INTCC DC X'0003' INTERRUPT CODE EXPECTED IL
1997+*****11MAY76** IL
1998** IL
1999** SUBROUTINE IL
2000** IL
2001** CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE IL
2002** IL
2003** PURPOSE IL
2004** IL
2005** TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND IL
2006** PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE IL
2007** TO INTEPRUPT. IL
2008** IL
2009** CALLING SEQUENCE IL
2010** IL
2011** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES: IL
2012** IL
2013** --> BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BLK IL
2014** --> BAL \$CONP,R6 PREPARE DEVICE ONLY, ALREADY CONNECT IL
2015** IL
2016** RETURN CONTPOL IL
2017** IL
2018** BXS (R6,2) RETURN TO USER VIA REG 6 IF OKAY IL
2019** OR B (R6)* IF THE DEVICE COULD NOT BE CONNECTED IL
2020** IL
2021+***** IL
2022+\$CONC MVB 6,R7 NUMBER OF BYTE TO CLEAR IL
2023+ MVB 0,R3 * AND THE DATA TO USE IL
2024+ MVA DEV1,R5 * ALONG WITH THE ADRS TO USE IL
2025+ MVA R3,(R5) * IL
2026+ MVBZ OPTN3,R3 CLEAR OLD CONTROLS FOR NEW ROUTINE IL
2027+ MVA INTBL,R7 SET R7 TO CONTROL BLOCK AND IL
2028+ SVC CIBC * CONNECT IT TO THIS DEVICE IL
2029+ BN (R6)* ERROR RETURN TO USER IL
2030** IL
2031+\$CONP MVB \$INTL,IODCB PUT IN LEVEL & INTR PARAMETER IL
2032+ MVA IOBLK,R7 SET R7 TO CONTROL BLOCK TO PREPARE IL
2033+ MVBZ X'0708',\$IOIN INITIALIZE CONDITION CODE STORAGE IL
2034+ MVBZ \$ISB,R3 * AND CLEAR OLD ISB VALUE IL
2035+ MVA R5,\$STIO SET UP ADDRESS THAT STARTED LAST I/O IL
2036+ SVC PRFP * AND CALL ON SUPVR IL
2037+ BXS (R6,2) RETURN TO USER IL
2039+*****06APR76** IL
2040** IL
2041** SUBROUTINE IL
2042** IL

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2043** DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS IL
2044** IL
2045** PURPOSE IL
2046** IL
2047** DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND IL
2048** SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS IL
2049** BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION. IL
2050** IL
2051** CALLING SEQUENCE IL
2052** IL
2053** THIS SUBROUTINE HAS THE FOLLOWING ENTRIES: IL
2054** IL
2055** --> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG IL
2056** --> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS IL
2057** IL
2058** RETURN CONTROL IL
2059** IL
2060** B TURTN* RETURN TO MDI IL
2061** OR B (R6)* IF THE DEVICE COULD NOT BE CONNECTED IL
2062** IL
2063+***** IL
2064+\$ERR\$ MVB X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT IL
2065+ MVA HEBLK,R7 GET ADRS OF CONTROL BLOCK IL
2066+ SVC HTOE CONVERT HEX TO EBC VIS DCP IL
2067+\$PRNT MVB 3,R5 IL
2068+ MVA TUWORK,R3 SET UP BUFFER STORAGE IL
2069+ MVB R3,BUFPT IL
2070+ MVA LINE1,R1 IL
2071+ MVB 4,R7 IL
2072+ MVB 8,R6 IL
2073+HVBUF MVB (R3),(R1) IL
2074+ MVB 4,R7 IL
2075+ MVB X'40',R2 IL
2076+ MVB R2,(R1)+ IL
2077+ JCT MVBUP,R6 IL
2078+ MVB 8,R6 IL
2079+ ANI 44,R1 IL
2080+ JCT MVBUP,R5 IL
2081+ MVBZ PIDMSG10,PID+2 IL
2082+ MVA FAKETU,@DCADD1 IL
2083+ MVA DC2PT,@DCADD2 IL
2084+ OWI BIT0080,SUPSTAT IL
2085+ MVA \$TUID,R3 SET UP BUFFER STORAGE IL
2086+ BAL TUMSGWTR*,R7 GO TO MESSAGE WRITER IL
2087** IL
2088+\$CONX EQU * IL
2089+ MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI IL
2090+ SVC RTCB RELEASE INTERRUPT CONTROL BLOCK IL
2091+ B TURTN* RETURN TO MDI SUPERVISOR IL
2092** IL
2093+\$BEGIN DC A(0007) NUMBER OF LINES TO PRINT IL
2094+ DC A(0008) LINE LENGTH = 8 CHAR IL
2095+ DC C'**ABORT' IL
2096+ DC A(0040) LINE LENGTH = 40 CHAR IL
2097+ DC C'TUID IOIN ISB INST DEV1 DEV2 DEV3 DEV4 IL
2098+ DC A(0040) LINE LENGTH = 40 CHAR IL
2099+ DC C' IL
2100+ DC A(0040) LINE LENGTH = 40 CHAR IL
2101+ DC C'CNTRL DCB2 DCB3 DCB4 LINE LENGTH = 40 CHAR IL
2102+ DC A(0040) IL
2103+LINE2 DC C' LINE LENGTH = 40 CHAR IL
2104+ DC A(0040) IL
2105+ DC C'RSID CS-2 CS-3 CS-4 LINE LENGTH = 40 CHAR IL
2106+ DC A(0040) IL
2107+LINE3 DC C' LINE LENGTH = 40 CHAR IL
2108** IL
2109+BUFPPT DC A(*-*) IL
2110+DC2PT DC A(\$BEGIN) IL
2111+PTXTU DC X'0101' IL
2112+FAKETU DC X'0101' IL
2113+PIDMSG10 EQU X'F1F0' IL
2114+BIT0080 EQU X'0080' IL
2115** IL
2116** DATA CONTROL BLOCK FOR CONVERTING HEX TO EBCDIC IL
2117** IL
2118+HEBLK DC A(48) NUMBER OF BYTES TO CONVERT IL
2119+ DC A(\$TUID) FROM ADRS IL
2120+ DC A(TUWORK) AND THE TO ADRS IL
2121** END IL

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
0	.R0.	ABSOLUTE. HEX VALUE(00000000) 1366 1367 1373 1375 1578 1579 1580 1581 1585 1586 1587 1588
0	.R1.	ABSOLUTE. HEX VALUE(00000001) 2070 2073 2076 2079
0	.R2.	ABSOLUTE. HEX VALUE(00000002) 1111 2075 2076
0	.R3.	ABSOLUTE. HEX VALUE(00000003) 1484 1485 1526 1530 1532 1611 1613 1669 1672 1676 1679 1680 1693 1732 1709 1779 1789 1792 1793 1796 1798 1854 1855 1890 1896 1900 1930 1935 1948 1978 2023 2025 2026 2034 2068 2069 2073 2085
0	.R4.	ABSOLUTE. HEX VALUE(00000004) 1061 1361 1378 1385 1393 1782 1783 1786 1800 1801 1803 1804 1807 1813 1819 1891 1892 1894 1898 1902 1931 1932 1933 1943 1944 1945 1947 1950 1960 1962 1964 1967 1969
0	.R5.	ABSOLUTE. HEX VALUE(00000005) 1527 1531 1532 1612 1613 1670 1672 1677 1679 1691 1693 1707 1709 1790 1792 1794 1796 1812 1817 1939 1940 1941 1972 1973 1975 2024 2025 2067 2080
0	.R6.	ABSOLUTE. HEX VALUE(00000006) 1062 1067 1070 1075 1080 1081 1082 1103 1104 1106 1108 1362 1376 1383 1389 1391 1452 1456 1458 1462 1464 1468 1471 1475 1477 1481 1486 1533 1534 1573 1614 1788 1808 1820 1856 1961 1966 1968 1974 1977 1979 2029 2035 2037 2072 2077 2078
0	.R7.	ABSOLUTE. HEX VALUE(00000007) 904 1013 1015 1018 1059 1084 1359 1365 1525 1529 1610 1671 1678 1692 1708 1791 1795 1802 1895 1936 2022 2027 2032 2065 2071 2074 2086 2089
2022	\$CONC	ADDRESS. HEX LOCATION(000032A0) IN CSECT(I7852) LENGTH(2) 1062 1362
2088	\$CONX	ADDRESS. HEX LOCATION(00003324) IN CSECT(I7852) LENGTH(1) 1019 1100 1404
2064	\$ERP\$	ADDRESS. HEX LOCATION(000032D4) IN CSECT(I7852) LENGTH(6) 1363 1377 1379 1384 1386 1392 1400
893	\$INTL	ADDRESS. HEX LOCATION(00002CD0) IN CSECT(I7852) LENGTH(2) 1941 2031
863	\$IOIN	ADDRESS. HEX LOCATION(00002C9C) IN CSECT(I7852) LENGTH(2) 1485 1797 1855 1935 1972 2033
864	\$ISB	ADDRESS. HEX LOCATION(00002C9E) IN CSECT(I7852) LENGTH(2) 1798 1936 1975 2034
848	\$LE	ABSOLUTE. HEX VALUE(00000026) 1803 1943
1668	\$RDID	ADDRESS. HEX LOCATION(000030CE) IN CSECT(I7852) LENGTH(6) 1075 1391
1665	\$RECL	ADDRESS. HEX LOCATION(000030C6) IN CSECT(I7852) LENGTH(6) 1376
1705	\$RIDS	ADDRESS. HEX LOCATION(00003142) IN CSECT(I7852) LENGTH(6) 1106
1662	\$SEEK	ADDRESS. HEX LOCATION(000030BE) IN CSECT(I7852) LENGTH(6) 1067 1383
862	\$TUID	ADDRESS. HEX LOCATION(00002C9A) IN CSECT(I7852) LENGTH(2) 903 1060 1360 2085 2119
1717	\$WSEC	ADDRESS. HEX LOCATION(0000316A) IN CSECT(I7852) LENGTH(6) 1082
1720	\$WSTS	ADDRESS. HEX LOCATION(00003178) IN CSECT(I7852) LENGTH(6) 1104
105	@DCADD1	ADDRESS. HEX LOCATION(000019B8) IN CSECT(I7852) LENGTH(1) 2082
106	@DCADD2	ADDRESS. HEX LOCATION(000019BA) IN CSECT(I7852) LENGTH(1) 2083
42	@FIXT	ABSOLUTE. HEX VALUE(00000101) 441 450 456 459 468 474 477 514 526 538 550 571 577 580 601 604 607
49	@NVLD	ABSOLUTE. HEX VALUE(00000600) 489 503
41	@QUES	ABSOLUTE. HEX VALUE(00000100) 438 444 447 453 462 465 471 574
47	@QUXX	ABSOLUTE. HEX VALUE(00000400) 480 505 517 529 541 553 562 583 592
48	@TUXX	ABSOLUTE. HEX VALUE(00000500) 491
2093	BEGIN	ADDRESS. HEX LOCATION(0000332E) IN CSECT(I7852) LENGTH(2) 2110
2114	BIT0080	ABSOLUTE. HEX VALUE(00000080) 2084
2109	BUPPT	ADDRESS. HEX LOCATION(00003436) IN CSECT(I7852) LENGTH(2) 2069
1269	CB29	ADDRESS. HEX LOCATION(00002EAA) IN CSECT(I7852) LENGTH(2) 1576
1483	CCERR	ADDRESS. HEX LOCATION(00003026) IN CSECT(I7852) LENGTH(2) 1455 1461 1467 1474 1480
852	CE	ABSOLUTE. HEX VALUE(0000002A) 1782 1894 1964
932	CICB	ABSOLUTE. HEX VALUE(00000014) 2028
1138	CLDCB	ADDRESS. HEX LOCATION(00002DD8) IN CSECT(I7852) LENGTH(2) 1665
1525	CMPT	ADDRESS. HEX LOCATION(00003048) IN CSECT(I7852) LENGTH(4) 1108
1573	CONVT	ADDRESS. HEX LOCATION(0000306C) IN CSECT(I7852) LENGTH(4) 1070 1389
1499	CPUID	ABSOLUTE. HEX VALUE(00000232) 1366
850	CS	ABSOLUTE. HEX VALUE(00000028) 1783 1786 1892 1933 1962
851	CSA	ABSOLUTE. HEX VALUE(00000029) 1967
881	CSBUF	ADDRESS. HEX LOCATION(00002CBA) IN CSECT(I7852) LENGTH(1) 1195 1794
1188	CSDCB	ADDRESS. HEX LOCATION(00002E28) IN CSECT(I7852) LENGTH(2) 1784
889	CSTL8	ADDRESS. HEX LOCATION(00002CC8) IN CSECT(I7852) LENGTH(2) 1895 1896
871	DCBUF	ADDRESS. HEX LOCATION(00002CAA) IN CSECT(I7852) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2110	DC2PT	1789 ADDRESS. HEX LOCATION(00003438) IN CSECT(I7852) LENGTH(2) 2083
108	DEVADD	ADDRESS. HEX LOCATION(000019D0) IN CSECT(I7852) LENGTH(1) 896 1453 1459 1465 1472 1478 1983 1992 2089
866	DEV1	ADDRESS. HEX LOCATION(00002CA2) IN CSECT(I7852) LENGTH(2) 870 2024
1126	DGDCB	ADDRESS. HEX LOCATION(00002DC8) IN CSECT(I7852) LENGTH(2) 1724
70	DUMMY	ABSOLUTE. HEX VALUE(00000000) 429 508 520 532 544 556 565 586 595 609 621
610	ENTPT	ADDRESS. HEX LOCATION(00002692) IN CSECT(I7852) LENGTH(1) 201
50	EQ	ABSOLUTE. HEX VALUE(00000000) 494
843	ER	ABSOLUTE. HEX VALUE(00000021) 1378 1385 1393 1800 1819 1902 1944 1969
918	EXIT	ABSOLUTE. HEX VALUE(00000006) 1951
2112	FAKETU	ADDRESS. HEX LOCATION(0000343C) IN CSECT(I7852) LENGTH(2) 2082
1270	FIVE9	ADDRESS. HEX LOCATION(00002EAC) IN CSECT(I7852) LENGTH(2) 1583
801	F00007	ADDRESS. HEX LOCATION(00002C7C) IN CSECT(I7852) LENGTH(1) 608
647	F00012	ADDRESS. HEX LOCATION(00002722) IN CSECT(I7852) LENGTH(1) 460 478
629	F00046	ADDRESS. HEX LOCATION(00002698) IN CSECT(I7852) LENGTH(1) 442
633	F00058	ADDRESS. HEX LOCATION(000026BE) IN CSECT(I7852) LENGTH(1) 451
643	F00067	ADDRESS. HEX LOCATION(0000270C) IN CSECT(I7852) LENGTH(1) 457
653	F00081	ADDRESS. HEX LOCATION(00002756) IN CSECT(I7852) LENGTH(1) 469
665	F00093	ADDRESS. HEX LOCATION(000027F0) IN CSECT(I7852) LENGTH(1) 475
673	F00121	ADDRESS. HEX LOCATION(00002834) IN CSECT(I7852) LENGTH(1) 515
689	F00131	ADDRESS. HEX LOCATION(000028C2) IN CSECT(I7852) LENGTH(1) 527
719	F00147	ADDRESS. HEX LOCATION(000029D8) IN CSECT(I7852) LENGTH(1) 539
727	F00158	ADDRESS. HEX LOCATION(00002A18) IN CSECT(I7852) LENGTH(1) 551
735	F00175	ADDRESS. HEX LOCATION(00002A44) IN CSECT(I7852) LENGTH(1) 572
743	F00186	ADDRESS. HEX LOCATION(00002A84) IN CSECT(I7852) LENGTH(1) 578
751	F00190	ADDRESS. HEX LOCATION(00002ABC) IN CSECT(I7852) LENGTH(1) 581
767	F00206	ADDRESS. HEX LOCATION(00002B28) IN CSECT(I7852) LENGTH(1) 602
775	F00210	ADDRESS. HEX LOCATION(00002B68) IN CSECT(I7852) LENGTH(1) 605
2118	HEBLK	ADDRESS. HEX LOCATION(0000343E) IN CSECT(I7852) LENGTH(2) 2065
938	H7OE	ABSOLUTE. HEX VALUE(0000001A) 2066
1493	IDCBCE1	ADDRESS. HEX LOCATION(0000303C) IN CSECT(I7852) LENGTH(2) 1459 1460
1495	IDCBCE2	ADDRESS. HEX LOCATION(00003040) IN CSECT(I7852) LENGTH(2) 1465 1466
1497	IDCBRAP	ADDRESS. HEX LOCATION(00003044) IN CSECT(I7852) LENGTH(2) 1453 1454
1489	IDCB0	ADDRESS. HEX LOCATION(00003034) IN CSECT(I7852) LENGTH(2) 1478 1479
1491	IDCB1	ADDRESS. HEX LOCATION(00003038) IN CSECT(I7852) LENGTH(2) 1472 1473
914	IDLE	ABSOLUTE. HEX VALUE(00000002) 1374 1815
845	IN	ABSOLUTE. HEX VALUE(00000023) 1801 1813 1932
1992	INTBL	ADDRESS. HEX LOCATION(00003298) IN CSECT(I7852) LENGTH(2) 2027
1889	INTER	ADDRESS. HEX LOCATION(00003200) IN CSECT(I7852) LENGTH(2) 1994
1898	INTES	ADDRESS. HEX LOCATION(00003218) IN CSECT(I7852) LENGTH(2) 1893
1902	INTET	ADDRESS. HEX LOCATION(00003220) IN CSECT(I7852) LENGTH(2) 1899
1929	INTOK	ADDRESS. HEX LOCATION(00003224) IN CSECT(I7852) LENGTH(2) 1993
1951	INTRX	ADDRESS. HEX LOCATION(00003254) IN CSECT(I7852) LENGTH(2) 1946 1949
1932	INTR1	ADDRESS. HEX LOCATION(0000322C) IN CSECT(I7852) LENGTH(2) 1897 1901 1903
1937	INTR2	ADDRESS. HEX LOCATION(0000323A) IN CSECT(I7852) LENGTH(1) 1934
1945	INTR3	ADDRESS. HEX LOCATION(00003248) IN CSECT(I7852) LENGTH(2) 1942
1983	IOBLK	ADDRESS. HEX LOCATION(0000328C) IN CSECT(I7852) LENGTH(2) 1015 1084 1365 1802 2032
1985	IODCB	ADDRESS. HEX LOCATION(00003290) IN CSECT(I7852) LENGTH(2) 1014 1662 1665 1668 1680 1683 1686 1689 1697 1701 1705 1713 1717 1720 1724 1784 1790 2031
1986	IOMOD	ADDRESS. HEX LOCATION(00003292) IN CSECT(I7852) LENGTH(2) 1086 1779 1785
40	I7852	CSECT. START(00002500) LENGTH(3908) ESDID(0) 40
1267	LGSEC	ADDRESS. HEX LOCATION(00002EA6) IN CSECT(I7852) LENGTH(2) 1069 1096 1097 1388 1399 1401 1574 1576 1579
2099	LINE1	ADDRESS. HEX LOCATION(00003366) IN CSECT(I7852) LENGTH(40) 1586
865	LSTIO	ADDRESS. HEX LOCATION(00002CA0) IN CSECT(I7852) LENGTH(2) 2070
1610	LWSID	ADDRESS. HEX LOCATION(000030AE) IN CSECT(I7852) LENGTH(4) 1452 1458 1464 1471 1477 1788 2035
842	MI	ABSOLUTE. HEX VALUE(00000020) 1081

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2073	MVBUF	1947 ADDRESS. HEX LOCATION(000032F2) IN CSECT(I7852) LENGTH(2)
854	NG	2077 2080 ABSOLUTE. HEX VALUE(0000002C)
849	NI	1950 ABSOLUTE. HEX VALUE(00000027)
438	N00001	1807 ADDRESS. HEX LOCATION(00002598) IN CSECT(I7852) LENGTH(2)
441	N00002	318 620 ADDRESS. HEX LOCATION(0000259C) IN CSECT(I7852) LENGTH(2)
444	N00003	321 ADDRESS. HEX LOCATION(000025A0) IN CSECT(I7852) LENGTH(2)
447	N00004	325 439 ADDRESS. HEX LOCATION(000025A4) IN CSECT(I7852) LENGTH(2)
450	N00005	327 ADDRESS. HEX LOCATION(000025A8) IN CSECT(I7852) LENGTH(2)
453	N00006	330 ADDRESS. HEX LOCATION(000025AC) IN CSECT(I7852) LENGTH(2)
456	N00007	333 448 ADDRESS. HEX LOCATION(000025B0) IN CSECT(I7852) LENGTH(2)
459	N00008	336 ADDRESS. HEX LOCATION(000025B4) IN CSECT(I7852) LENGTH(2)
462	N00009	339 454 ADDRESS. HEX LOCATION(000025B8) IN CSECT(I7852) LENGTH(2)
465	N00010	342 445 ADDRESS. HEX LOCATION(000025BC) IN CSECT(I7852) LENGTH(2)
468	N00011	345 ADDRESS. HEX LOCATION(000025C0) IN CSECT(I7852) LENGTH(2)
471	N00012	348 ADDRESS. HEX LOCATION(000025C4) IN CSECT(I7852) LENGTH(2)
474	N00013	351 466 ADDRESS. HEX LOCATION(000025C8) IN CSECT(I7852) LENGTH(2)
477	N00014	354 ADDRESS. HEX LOCATION(000025CC) IN CSECT(I7852) LENGTH(2)
480	N00015	357 472 ADDRESS. HEX LOCATION(000025D0) IN CSECT(I7852) LENGTH(2)
489	N00016	360 463 ADDRESS. HEX LOCATION(000025DE) IN CSECT(I7852) LENGTH(2)
491	N00017	363 ADDRESS. HEX LOCATION(000025E0) IN CSECT(I7852) LENGTH(2)
503	N00018	366 481 ADDRESS. HEX LOCATION(000025F2) IN CSECT(I7852) LENGTH(2)
505	N00019	369 ADDRESS. HEX LOCATION(000025F4) IN CSECT(I7852) LENGTH(2)
514	N00020	372 492 ADDRESS. HEX LOCATION(00002602) IN CSECT(I7852) LENGTH(2)
517	N00021	375 ADDRESS. HEX LOCATION(00002606) IN CSECT(I7852) LENGTH(2)
525	N00022	378 506 ADDRESS. HEX LOCATION(00002614) IN CSECT(I7852) LENGTH(2)
529	N00023	381 ADDRESS. HEX LOCATION(00002618) IN CSECT(I7852) LENGTH(2)
538	N00024	384 518 ADDRESS. HEX LOCATION(00002626) IN CSECT(I7852) LENGTH(2)
541	N00025	387 ADDRESS. HEX LOCATION(0000262A) IN CSECT(I7852) LENGTH(2)
550	N00026	390 530 ADDRESS. HEX LOCATION(00002638) IN CSECT(I7852) LENGTH(2)
553	N00027	393 ADDRESS. HEX LOCATION(0000263C) IN CSECT(I7852) LENGTH(2)
562	N00028	396 542 ADDRESS. HEX LOCATION(0000264A) IN CSECT(I7852) LENGTH(2)
571	N00029	399 ADDRESS. HEX LOCATION(00002658) IN CSECT(I7852) LENGTH(2)
574	N00030	402 ADDRESS. HEX LOCATION(0000265C) IN CSECT(I7852) LENGTH(2)
577	N00031	405 563 ADDRESS. HEX LOCATION(00002660) IN CSECT(I7852) LENGTH(2)
580	N00032	408 ADDRESS. HEX LOCATION(00002664) IN CSECT(I7852) LENGTH(2)
583	N00033	411 575 ADDRESS. HEX LOCATION(00002668) IN CSECT(I7852) LENGTH(2)
592	N00034	414 554 ADDRESS. HEX LOCATION(00002676) IN CSECT(I7852) LENGTH(2)
601	N00035	417 ADDRESS. HEX LOCATION(00002684) IN CSECT(I7852) LENGTH(2)
604	N00036	420 ADDRESS. HEX LOCATION(00002688) IN CSECT(I7852) LENGTH(2)
607	N00037	423 593 ADDRESS. HEX LOCATION(0000268C) IN CSECT(I7852) LENGTH(2)
807	OPTN1	426 584 ADDRESS. HEX LOCATION(00002C94) IN CSECT(I7852) LENGTH(2)
830	OPTN3	1061 1361 1891 1931 ADDRESS. HEX LOCATION(00002C98) IN CSECT(I7852) LENGTH(2)
104	PARMARA	1978 2026 ADDRESS. HEX LOCATION(0000196E) IN CSECT(I7852) LENGTH(1)
1268	PHYSC	487 501 512 524 536 548 560 569 590 ADDRESS. HEX LOCATION(00002EA8) IN CSECT(I7852) LENGTH(2)
72	PID	1071 1072 1073 1074 1390 1581 1583 1588 ADDRESS. HEX LOCATION(00001800) IN CSECT(I7852) LENGTH(1)
2113	PIDMSG10	74 75 76 77 78 79 80 81 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 2081 ABSOLUTE. HEX VALUE(0000F1F0)
924	PREP	2081 ABSOLUTE. HEX VALUE(0000000C)
1221	RDDCB	1016 2036 ADDRESS. HEX LOCATION(00002E58) IN CSECT(I7852) LENGTH(2)
920	RESET	1677 1680 ABSOLUTE. HEX VALUE(00000008)
931	FICB	1372 ABSOLUTE. HEX VALUE(00000013)
921	RID	2090 ABSOLUTE. HEX VALUE(00000009)
1243	RKDCB	1085 ADDRESS. HEX LOCATION(00002E78) IN CSECT(I7852) LENGTH(2)
1153	RSDCB	1074 1689 1694 1701 1702 ADDRESS. HEX LOCATION(00002DF8) IN CSECT(I7852) LENGTH(2)

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1585	RTT01	1071 1387 1390 1668 1673 1705 1710 ADDRESS. HEX LOCATION(0000309A) IN CSECT(I7852) LENGTH(4)
870	SCTID	1577 ADDRESS. HEX LOCATION(00002CA2) IN CSECT(I7852) LENGTH(2)
1278	SCTST	1160 1172 1250 1395 1397 1530 1611 1670 1673 1691 1694 ADDRESS. HEX LOCATION(00002EBC) IN CSECT(I7852) LENGTH(2)
1177	SKDCB	1526 1702 1707 1710 ADDRESS. HEX LOCATION(00002E18) IN CSECT(I7852) LENGTH(2)
922	START	1065 1066 1088 1090 1092 1094 1380 1381 1382 1662 ABSOLUTE. HEX VALUE(0000000A)
107	SUPSTAT	1805 ADDRESS. HEX LOCATION(000019C4) IN CSECT(I7852) LENGTH(1)
1092	S11B	2084 ADDRESS. HEX LOCATION(00002D88) IN CSECT(I7852) LENGTH(6)
1111	S11G	1087 ADDRESS. HEX LOCATION(00002DC4) IN CSECT(I7852) LENGTH(2)
1100	S11H	1109 ADDRESS. HEX LOCATION(00002DA6) IN CSECT(I7852) LENGTH(4)
1070	S11K	1063 1068 1076 1083 1089 1093 1105 1107 ADDRESS. HEX LOCATION(00002D28) IN CSECT(I7852) LENGTH(4)
1110	S11R	1098 ADDRESS. HEX LOCATION(00002DC0) IN CSECT(I7852) LENGTH(4)
1067	S11S	1103 1112 ADDRESS. HEX LOCATION(00002D1C) IN CSECT(I7852) LENGTH(4)
1103	S11WP	1091 1095 ADDRESS. HEX LOCATION(00002DAA) IN CSECT(I7852) LENGTH(4)
1389	S20B	1080 ADDRESS. HEX LOCATION(00002F86) IN CSECT(I7852) LENGTH(4)
1399	S20C	1402 ADDRESS. HEX LOCATION(00002FAC) IN CSECT(I7852) LENGTH(6)
1404	S20D	1396 ADDRESS. HEX LOCATION(00002FBE) IN CSECT(I7852) LENGTH(4)
1374	TO720	1394 1398 ADDRESS. HEX LOCATION(00002F4C) IN CSECT(I7852) LENGTH(2)
1583	TT303	1375 ADDRESS. HEX LOCATION(00003092) IN CSECT(I7852) LENGTH(6)
1589	TT304	1575 ADDRESS. HEX LOCATION(000030AA) IN CSECT(I7852) LENGTH(4)
1532	TT4Y	1573 1582 1584 ADDRESS. HEX LOCATION(00003062) IN CSECT(I7852) LENGTH(2)
95	TUMSGWTR	1528 ADDRESS. HEX LOCATION(000018BA) IN CSECT(I7852) LENGTH(1)
894	TURTN	2086 ADDRESS. HEX LOCATION(00002CD2) IN CSECT(I7852) LENGTH(2)
77	TUSTATUS	1013 1018 1059 1359 2091 ADDRESS. HEX LOCATION(00001818) IN CSECT(I7852) LENGTH(1)
78	TUWORK	2064 ADDRESS. HEX LOCATION(0000181A) IN CSECT(I7852) LENGTH(1)
1371	T20TC	2068 2120 ADDRESS. HEX LOCATION(00002F40) IN CSECT(I7852) LENGTH(6)
1373	T20T1	1368 ADDRESS. HEX LOCATION(00002F48) IN CSECT(I7852) LENGTH(4)
1372	T20T2	1369 1371 ADDRESS. HEX LOCATION(00002F46) IN CSECT(I7852) LENGTH(2)
1018	T72A	1370 ADDRESS. HEX LOCATION(00002CF4) IN CSECT(I7852) LENGTH(4)
1019	T72B	483 ADDRESS. HEX LOCATION(00002CF8) IN CSECT(I7852) LENGTH(4)
1359	T7820	1017 ADDRESS. HEX LOCATION(00002F18) IN CSECT(I7852) LENGTH(4)
1059	T7834	493 ADDRESS. HEX LOCATION(00002CFC) IN CSECT(I7852) LENGTH(4)
1013	T7872	507 519 531 543 555 564 585 594 ADDRESS. HEX LOCATION(00002CE2) IN CSECT(I7852) LENGTH(4)
1210	VRDCB	488 ADDRESS. HEX LOCATION(00002E48) IN CSECT(I7852) LENGTH(2)
1232	WKDCB	1683 ADDRESS. HEX LOCATION(00002E68) IN CSECT(I7852) LENGTH(2)
1199	WRDCB	1073 1697 1698 1713 1714 ADDRESS. HEX LOCATION(00002E38) IN CSECT(I7852) LENGTH(2)
1271	WRSID	1686 ADDRESS. HEX LOCATION(00002EAE) IN CSECT(I7852) LENGTH(2)
1143	WSDCB	1150 1239 1531 1612 1714 1718 ADDRESS. HEX LOCATION(00002DE8) IN CSECT(I7852) LENGTH(2)
1275	WSIDT	1072 1717 1718 1720 1721 ADDRESS. HEX LOCATION(00002EB6) IN CSECT(I7852) LENGTH(2)
846	XE	1077 1078 1079 1527 1698 1721 ABSOLUTE. HEX VALUE(00000024)
844	XI	1898 1960 ABSOLUTE. HEX VALUE(00000022)
1779	XIO	1804 1945 ADDRESS. HEX LOCATION(0000318E) IN CSECT(I7852) LENGTH(4)
1960	XIOCK	1663 1666 1674 1681 1684 1687 1695 1699 1703 ADDRESS. HEX LOCATION(00003256) IN CSECT(I7852) LENGTH(2)
1967	XIOCO	1814 ADDRESS. HEX LOCATION(00003268) IN CSECT(I7852) LENGTH(2)
1784	XIOCS	1965 ADDRESS. HEX LOCATION(00003198) IN CSECT(I7852) LENGTH(6)
1969	XIOCV	1376 ADDRESS. HEX LOCATION(0000326C) IN CSECT(I7852) LENGTH(2)
1978	XIOCX	1963 ADDRESS. HEX LOCATION(00003286) IN CSECT(I7852) LENGTH(4)
1853	XIOER	1970 ADDRESS. HEX LOCATION(000031F4) IN CSECT(I7852) LENGTH(2)
1788	XIO1	1984 ADDRESS. HEX LOCATION(000031A8) IN CSECT(I7852) LENGTH(4)
1801	XIO2	1780 ADDRESS. HEX LOCATION(000031CE) IN CSECT(I7852) LENGTH(2)
1813	XIO8	1787 ADDRESS. HEX LOCATION(000031E2) IN CSECT(I7852) LENGTH(2)
1253	ZER00	1818 ADDRESS. HEX LOCATION(00002E88) IN CSECT(I7852) LENGTH(2)