

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
001D70 3 038F3 START X'1D70'
4 *****
5 *
6 * ** PREREQUISITES **
7 *
8 * NONE
9 *
10 *****
11 *
12 * ** MODIFICATIONS **
13 *
14 * NONE
15 *
16 *****
17 *
18 * ** REA'S INCORPORATED **
19 *
20 * NONE
21 *
22 *****
23 *
24 * ** SPECIAL INSTRUCTIONS **
25 *
26 * NONE
27 *
28 *****
29 *
30 * ** E. C. HISTORY **
31 *
32 * DATE 12APR78 DATE 08AUG78 DATE DATE
33 * E.C. 755404D E.C. 755404 E.C.
34 *
35 *****
36 *****
37 *****
38 BEGIN MVW R7,OLYRA SAVE RETURN ADDRESS
39 B BEGIN1 NORMAL BEGIN
40 *****
41 BEGIN2 B ENTROPTS RETURN FROM DCP WITH DEVICE DATA
42 *****
43 *****
44 *****
45 * DEVICE ADDRESS TABLE
46 DATAB DC A(1) NUMBER OF DEVICE ENTRIES REQUESTED
47 DEVAD1 EQU *'00' DEVICE ADDRESS
48 DEVAD2 DC X'F8' DEVICE TYPE
49 DEVAD3 DC 8X'00' DEVICE INFO
50 *****
51 *****
52 *****
53 *****
54 *
55 * SYSTEM EQUATES - WAS MEMBER DCPEQUNA
56 *
57 *****
58 SM EQU 1 SUMMARY MASK DISABLE OR
59 *
60 AT EQU 2 ADDRESS TRANSLATOR ENABLE OR
61 *
62 *****
63 *****
64 * EQUATED NAMES FOR SUPPORTED SVC'S
65 *
66 *****
67 OUT EQU 0 OUT SVC
68 OUTIN EQU 1 OUTIN SVC
69 IDLE EQU 2 IDLE SVC
70 ASCII EQU 3 HEX TO ASCII SVC
71 CHNGE EQU 4 CHANGE LEVEL SVC
72 PGMCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
73 EXIT EQU 6 EXIT SVC
74 TERM EQU 7 TERMINATE SVC
75 RSET EQU 8 RESET DEVICE SVC
76 RID EQU 9 READ ID SVC
77 START EQU 10 START CYCLE STEAL SVC
78 STCSS EQU 11 START CYCLE STEAL STATUS SVC
79 PREP EQU 12 PREPARE DEVICE SVC
80 READ0 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
81 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
82 RSTAT EQU 15 READ STATUS SVC
83 WRIT0 EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
84 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
85 CTRL EQU 18 CONTROL SVC
86 RICE EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
87 CIBC EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
88 HIO EQU 21 HALT I/O SVC
89 REQSD EQU 22 REQUEST USE OF DCP DISK SVC
90 RELSD EQU 23 RELEASE USE OF DCP DISK SVC
91 HALT EQU 24 HALT SVC
92 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
93 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
94 ATOH EQU 27 ASCII TO HEX SVC (STRING)
95 HTOA EQU 28 HEX TO ASCII SVC (STRING)
96 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
97 ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
98 READI EQU 31 READ DATA SETS FOR MDI/UTIL
99 WRITI EQU 32 WRITE DATA SETS FOR UTIL
100 *
101 VLDSV EQU 32 NUMBER OF HIGHEST VALID SVC
102 *****
103 *****
104 *
105 * EQUATES USED BY DCP
106 *
107 *****
108 AUTO EQU 0 AUTOMATIC MODE IND
109 TPGSW EQU 0 TERMINATE PGM SW
110 LOOP EQU 1 LOOP PGM IND
111 OFF EQU 2 TURN OPT BITS OFF
112 ON EQU 2 TURN OPT BITS ON
113 UTIL EQU 3 UTILITY REQUESTING DATA
114 LODED EQU 4 PGM LOADED
115 STOP EQU 6 STOP AFTER MSG OUT
116 ALTDV EQU 7 ALTERNATE OUTPUT DEV ASSIGNED
117 NXTVT EQU 8 TAKE NEXT DATA SET IND
118 IRD EQU 10 MDI READ REQUEST
119 RTMDI EQU 11 MDI RETURN REQ
120 TUIDS EQU 12 SAVE THE T.U. I.D.

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121 LDIAG EQU 13 LOOP ALL DIAG PACKAGE
122 CNRNU EQU 14 UNIT ADR ASSIGNMENT RUN
123 NINTL EQU 3 HIGHEST INT LEVEL ON SYSTEM
124 MDIRT EQU 48 MDI IMMEDIATE RETURN IN CNL BLK
125 OPWRD EQU 14 DISP TO PGM OPTION WORD
126 EOT EQU X'0D' END OF MESSAGE CHAR (RETURN)
127 TTBEL EQU X'11' ATTN CHAR (X-ON)
128 DLETE EQU X'17' DELETE CHAR (RUBOUT)
129 PLUS EQU C'+' PLUS CHAR
130 MINUS EQU C'-' MINUS CHAR
131 EBBK EQU C'!' BLANK CHAR
132 NEGZR EQU X'1800' NEGATIVE AND ZERO INDICATORS
133 STPCD EQU X'64' STOP CODE FOR MEMORY
134 SMBIT EQU X'0010' SUMMARY MASK BIT
135 ZERO EQU 0 VALUE OF 0
136 ONE EQU 1
137 TWO EQU 2
138 THREE EQU 3
139 FOUR EQU 4
140 FIVE EQU 5
141 SIX EQU 6
142 SEVEN EQU 7
143 EIGHT EQU 8
144 NINE EQU 9
145 TEN EQU 10
146 ELEVN EQU 11
147 TWELV EQU 12
148 THRRTN EQU 13
149 FORTN EQU 14
150 FIVTN EQU 15
151 SIXTN EQU 16
152 SEVNTN EQU 17
153 EIGHTN EQU 18
154 NINTN EQU 19
155 TENTN EQU 20
156 ELEVTN EQU 21
157 TWENTY EQU 22
158 THRTN EQU 23
159 FORTN EQU 24
160 FIVTN EQU 25
161 SIXTN EQU 26
162 SEVNTN EQU 27
163 THRTY EQU 28
164 FIFTY EQU 29
165 SIXTY EQU 30
166 SIXTY EQU 31
167 SIXTY EQU 32
168 SEVNTY EQU 33
169 EIGHTY EQU 34
170 NINETY EQU 35
171 TWO56 EQU 256
172 THR52 EQU 352
173 FOURK EQU 4096
174 HHTTY EQU X'30' HEX 30
175 H3FFE EQU X'3FFE' HEX 3FFE
176 M1 EQU -1
177 M2 EQU -2
178 M3 EQU -3
179 M16 EQU -16
180 M28 EQU -28
181 M30 EQU -30
182 HCKLB EQU C'MC'
183 HCKLAB EQU C'PC'
184 *****
185 *****
186 *****
187 *****
188 *
189 * EQUATES FOR DISK
190 *
191 *****
192 BOE EQU 6 DISP TO BOE FROM START OF
193 * ENTRY IN VTOC
194 EOE EQU 8 DISP TO EOE FROM START OF
195 * ENTRY IN VTOC
196 DSTYP EQU 12 DISP TO TYPE OF DATA SET IN
197 * ENTRY OF VTOC
198 SPTE EQU 15 NUMBER SECTORS/TRACK
199 DIP2A EQU 15 ADDR 1ST DIPL2 SECTOR
200 EDIP2 EQU 30 ADDR LAST DIPL2 SECTOR+1
201 PRC1A EQU 120 ADDR 1ST PROC1 SECTOR
202 EPRC1 EQU 180 ADDR LAST PROC1 SECTOR+1
203 PRC2A EQU 180 ADDR 1ST PROC2 SECTOR
204 EPRC2 EQU 240 ADDR LAST PROC2 SECTOR+1
205 PRC3A EQU 240 ADDR 1ST PROC3 SECTOR
206 EPRC3 EQU 300 ADDR LAST PROC3 SECTOR+1
207 VTOCA EQU 330 ADDR 1ST VTOC SECTOR
208 EYTOC EQU 360 ADDR LAST VTOC SECTOR+1
209 LDSST EQU 2219 ADDR LAST SECTOR ON DISK
210 FDSST EQU 360 ADDR 1ST DATA SECTOR
211 DCPCY EQU 10 CYLINDER DCP ON
212 LVTE EQU 32 LENGTH IN BYTES OF A VTOC ENTRY
213 NDFPS EQU 8 NUMBER ENTRIES/SECTOR IN VTOC
214 CHDLG EQU 4 DISP TO DATA IN MULT SECT'S
215 VHDLG EQU 10 NUMBER BYTES OF HEADER INFORMATION
216 IHDLG EQU 14 NUM BYTES PAST ALL HEADER INFO
217 VHDLG EQU 30
218 *
219 * ON 1ST SECTOR OF EACH PROGRAM DATA
220 * SET
221 *****
222 *
223 * EQUATES FOR CODED STOPS USED BY DCP
224 * (NORMAL AND ERROR)
225 *
226 *****
227 RECD1 EQU X'3800' DCP WAIT
228 ACNG EQU X'3801' ALTERNATE CONSOLE ERROR
229 PCKCD EQU X'3802' PROGRAM CHECK ERROR
230 MCKCD EQU X'3803' MACHINE CHECK ERROR
231 PWHNG EQU X'3804' POWER THERMAL ERROR
232 PSTER EQU X'3805' PROGRAM TERM
233 INVCB EQU X'3806' INVALID COMMAND ERROR
234 ALTCN EQU X'3807' ALT IN/OUT UNDER TEST
235 RES EQU X'3808' ALT IN/OUT ON LINE
236 UXP EQU X'3809' UNEXPECTED I/O INTERRUPT
237 BPCD5 EQU X'380A' PROGRAM STARTED
238 LPCD4 EQU X'380B' DISK ERROR
239 LPCD5 EQU X'380C' PROGRAM NOT FOUND
240 LPCD6 EQU X'380D' PROGRAM LOADED
241 HLTCB EQU X'380E' HALT SVC
242 RPCD2 EQU X'3810' PROGRAM NOT EXPECTING REPLY

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243 RBCD5 EQU X'3812' PROGRAM EXPECTING HEX DATA
244 ERR1 EQU X'3813' TOO MANY CHARACTERS ENTERED
245 ENTCD EQU X'3814' ASK FOR DATA ENTRY
246 SVCOD EQU X'3815' TOO MANY SVC CALLS

249 *
250 * THE FOLLOWING EQUATES ARE THE DISPLACEMENT FROM THE
251 * START OF A PROGRAM HEADER OF THE VARIOUS INFORMATION IN
252 * EACH PROGRAM HEADER

000000 HD EQU 0 PROG I.D.
000001 DVADR EQU 0 DEVICE TYPE IN DEVICE TABLE
000002 DVTFP EQU 0 DEVICE ADDR IN DEVICE TABLE
000003 HDDP1 EQU 3 DEVICE DEPENDENT DATA
000004 HDDP2 EQU 4 DEVICE DEPENDENT DATA
000005 CPUMD EQU 4 CPU MODEL DISPLACEMENT
000006 LSADR EQU 6 LAST ADR DISPLACEMENT
000007 HPK EQU 6 PROTECT KEY
000008 HPK1 EQU 7 PROTECT KEY PLUS ONE
000009 HPSA EQU 6 DIAG PROG START ADR
000010 INTAR EQU 6 DEVICE INTERRUPT ADR
000011 HDVFB EQU 08 DIAG DEV TABLE POINTER
000012 EXPNT EQU 17 END OF TABLE IND
000013 TBEND EQU 18 END OF SECTOR IND
000014 CIBET EQU 20 C I C B INDICATOR
000015 CPEXT EQU 08
000016 HTUID EQU 18 MDI MAP I.D DISPLACEMENT
000017 UDTAS EQU 16 UNIT ASSIGNED BIT
000018 PDTAS EQU 32
000019 UNCRT EQU 0 UNCONDITIONAL RETURN BIT
000020 CKDAD EQU 11 CHECK REQUESTED DEV
000021 IOCHK EQU 11 I/O CHK IN PSW
000022 NEWAR EQU 15

281 * THE FOLLOWING EQUATES ARE THE OFFSETS INTO EACH ENTRY
282 * FOR THE DATA SPECIFIED. (16 BYTES / ENTRY)

000000 CUDA EQU 0 DEVICE ADDRESS
000001 CUDT EQU 1 DEVICE TYPE
000002 CUDF EQU 2 CONTROL FLAGS
000003 CUDD1 EQU 3 DEVICE DEPENDENT DATA -- 1
000004 CUDD2 EQU 4 DEVICE DEPENDENT DATA -- 2
000005 CUDD3 EQU 5 DEVICE DEPENDENT DATA -- 3
000006 CUDD4 EQU 6 DEVICE DEPENDENT DATA -- 4
000007 CUDD5 EQU 7 DEVICE DEPENDENT DATA -- 5
000008 CUDD6 EQU 8 DEVICE DEPENDENT DATA -- 6
000009 CUDD7 EQU 9 DEVICE DEPENDENT DATA -- 7
000010 CUDD8 EQU 10 DEVICE DEPENDENT DATA -- 8
000011 CUDD9 EQU 11 DEVICE DEPENDENT DATA -- 9
000012 CUDDA EQU 12 DEVICE DEPENDENT DATA -- 10
000013 CUDDB EQU 13 DEVICE DEPENDENT DATA -- 11
000014 CUDRI EQU 14 DEVICE READ ID DATA RETURNED

301 *
302 * THE FOLLOWING EQUATES ARE THE DISPLACEMENTS FROM THE
303 * START OF A QUE BLOCK OF THE VARIOUS INFORMATION.

000000 OIAR EQU 0 IARB OF CALLING PROGRAM
000001 OAKR EQU 2 KEY REG
000002 OLSR EQU 4 LSR OF CALLING PROGRAM
000003 ORO EQU 6 XFO OF CALLING PROGRAM
000004 OR1 EQU 8 XR1 OF CALLING PROGRAM
000005 OR2 EQU 10 XR2 OF CALLING PROGRAM
000006 OR3 EQU 12 XR3 OF CALLING PROGRAM
000007 OR4 EQU 14 XR4 OF CALLING PROGRAM
000008 OR5 EQU 16 XR5 OF CALLING PROGRAM
000009 OR6 EQU 18 XR6 OF CALLING PROGRAM
000010 OR7 EQU 20 XR7 OF CALLING PROGRAM
000011 OR7C EQU 20 RETURN CODE OF CALLING PROGRAM
000012 ORAL EQU 23 RETURN CODE AND LEVEL ENTERED
000013
000014
000015
000016
000017
000018
000019
000020

321 * THE FOLLOWING EQUATES ARE THE DISPLACEMENTS FROM THE START
322 * OF EACH SLOT IN THE DEVICE TABLE TO THE VARIOUS
323 * INFORMATION IN EACH SLOT

000002 OAG EQU 2 RETURN ADDRESS IF COND CODE OF
333 * INTERRUPT MATCHES THE COND
334 * CODE AT OCC
000004 OAB EQU 4 RETURN ADDRESS IF CONDITION
335 * CODE OF INTERRUPT DOES NOT
336 * MATCH CONDITION CODE AT OCC
000007 OCC EQU 7 CONDITION CODE EXPECTED

341 * DATA FOR 2ND AUTO CONFIG
342 *****
343 CTNAD EQU 256 # DEVICE ADDRESSES
344 *****
345 OLYRA DC A(*-*) OVERLAY RETURN ADDRESS
346 *****
001D8A 180A ADDRESS OF RTNE IN BASIC
001D8C 1812 ADDRESS OF DATAB IN BASIC
001D8E 1814 ADDRESS OF DEVAD IN BASIC
001D90 1816 ADDRESS OF DEVA# IN BASIC
001D92 1820 ADDRESS OF BEGIN# IN BASIC
001D94 1822 ADDRESS OF BEGIN# IN BASIC
001D96 1824 ADDRESS OF BEGIP IN BASIC
001D98 1826 ADDRESS OF BEGIO IN BASIC
001D9A 1828 ADDRESS OF SORT & WRITE IN BASIC
001D9C 1830 ADDRESS OF S & W RETURN ADD IN BASIC
001D9E 1836 ADDRESS OF IPL PASS SWITCH IN BASIC
001D9F 024A ADDRESS OF OVERLAY RETURN @ IN BASIC
001D99C ADDRESS OF IPL CONFIG IN DCP

359 *****
360 LVL DC X'0021' DEFAULT PREP LEVEL 2 & I BIT (15)

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001DA0 00 361 CTC00 DC X'00' CONSTANT
001DA1 01 362 CTC01 DC X'01' CONSTANT
001DA2 02 363 CTC02 DC X'02' CONSTANT
001DA3 03 364 CTC03 DC X'03' CONSTANT
001DA4 04 365 CTC04 DC X'04' CONSTANT
001DA5 05 366 CTC05 DC X'05' CONSTANT
001DA6 06 367 CTC06 DC X'06' CONSTANT
001DA7 07 368 CTC07 DC X'07' CONSTANT
001DA8 08 369 CTC08 DC X'08' CONSTANT
001DA9 09 370 CTC09 DC X'09' CONSTANT
001DAA 0A 371 CTC10 DC X'10' CONSTANT
001DAB 0B 372 CTC11 DC X'11' CONSTANT
001DAC 0C 373 CTC12 DC X'12' CONSTANT
001DAD 0D 374 CTC13 DC X'13' CONSTANT
001DAE 0E 375 CTC14 DC X'14' CONSTANT
001DAF 0F 376 CTC15 DC X'15' CONSTANT
001DB0 10 377 CTC16 DC X'16' CONSTANT
001DB1 11 378 CTC17 DC X'17' CONSTANT
001DB2 12 379 CTC18 DC X'18' CONSTANT
001DB3 13 380 CTC19 DC X'19' CONSTANT
001DB4 14 381 CTC20 DC X'20' CONSTANT
001DB5 15 382 CTC21 DC X'21' CONSTANT
001DB6 16 383 CTC22 DC X'22' CONSTANT
001DB7 17 384 CTC23 DC X'23' CONSTANT
001DB8 18 385 CTC24 DC X'24' CONSTANT
001DB9 19 386 CTC25 DC X'25' CONSTANT

001DBA 0000 387 R1SAV DC X'0000' SAVE AREA FOR R1
001DBB 0000 388 R1SAV DC X'0000' SEARCH FOR DEVICE ADDRESS
001DBC 0000 389 R1SAV DC X'0000' SEARCH FOR DEVICE ADDRESS - BYTE 2
001DBD 0000 390 R1SAV DC X'0000' ENTRY FOUND ADDRESS
001DBE 0000 391 R1SAV DC X'0000' ENTRY FOUND NUMBER
001DBF 0000 392 R1SAV DC X'0000' ENTRY FOUND NUMBER - BYTE 2
001DC0 0000 393 R1SAV DC X'0000' ADDRESS BYTE 1
001DC1 0000 394 R1SAV DC X'0000' ADDRESS BYTE 2
001DC2 0000 395 R1SAV DC X'0000' FLAG STATUS NOT READ OK = 01
001DC3 0000 396 R1SAV DC X'0000' FLAG FROM DCP
001DC4 0000 397 R1SAV DC X'0000'
001DC5 0000 398 R1SAV DC X'0000'

001DC6 0000 399 R1SAV DC X'0000' FLAG IN INITIAL CONFIGURATING MODE
001DC7 0000 400 R1SAV DC X'0000' FLAG BYPASS A4 KITE ENTRIES IN CSRCH
001DC8 0000 401 R1SAV DC X'0000' FLAG CONDITION CODE ERROR IN READ ID
001DCA 0000 402 R1SAV DC X'0000' COUNTER TO ENTER DEVICE TYPE
001DCB 0000 403 R1SAV DC X'0000' COUNTER
001DCC 0000 404 R1SAV DC X'0000' COUNTER FOR DEVICE ADDRESS
001DCD 0000 405 R1SAV DC X'0000' COUNTER 2ND BYTE
001DCE 0000 406 R1SAV DC X'0000' COUNTER FOR CHAIN LENGTH
001DCF 0000 407 R1SAV DC X'0000' PRINT COUNTER BYTE 1
001DD0 0000 408 R1SAV DC X'0000' PRINT COUNTER BYTE 2
001DD1 0000 409 R1SAV DC X'0000' DEVICE NAME RETURNED BY CDEVT
001DD2 0000 410 R1SAV DC X'0000' DEVICE NAME RETURNED BY CDEVT
001DD3 0000 411 R1SAV DC X'0000'
001DD4 40404040 412 R1SAV DC X'0000' LAST PROCESSED KITE DEVICE ADDRESS
001DD5 40404040 413 R1SAV DC X'0000'
001DD6 0000 414 R1SAV DC X'0000' KITE ATTACHMENT ENTRY ADDRESS
001DD7 0000 415 R1SAV DC X'0000' KITE ATTACHMENT DOMAIN SIZE
001DD8 0000 416 R1SAV DC X'0000' KITE ATTACHMENT DEVICE ADDRESS
001DD9 0000 417 R1SAV DC X'0000' KITE ATTACHMENT " " BYTE 2
001DE0 0000 418 R1SAV DC X'0000' 1 PAST DOMAIN OF KITE ATTACHMENT
001DE1 0000 419 R1SAV DC X'0000' 1 PAST DOMAIN OF KITE ATTACHMENT
001DE2 0000 420 R1SAV DC X'0000' AI CHAIN SEQUENCE FLAG
001DE3 0000 421 R1SAV DC X'0000' ENTRY ADDRESS OF LAST CHAINED AI
001DE4 0000 422 R1SAV DC X'0000'

001DEC 1DF2 423 WRITL CONTROL BLOCK @ CONFIG TABLE NAME
001DED 3000 424 CTRL5 DC X'3000' WRITL @ OF CONFIG TABLE
001DEF 0800 425 CTRL6 DC X'0800' WRITL # WORDS TO WRITE
001DF0 0800 426 CTRL6 DC X'38FF' CONFIG TABLE NAME
001DF1 F3F8C6F1 427 *****
001DF2 *****

428 * CONFIGURATION TABLE 1120 BYTES
429 * ENTRY ZERO = SYSTEM INFORMATION
430 * ENTRY 1 - FF = DEVICE DATA
001DF6 0010 431 CTLEL DC X'0010' TABLE ENTRY LENGTH = 16 BYTES
001DF7 1000 432 CTLENG DC F4096' CONFIGURATION TABLE LENGTH
001DF8 3000 433 CTABA DC X'3000' ADDRESS OF CONFIGURATION TABLE
001DF9 3002 434 CTABN DC X'3002' ADDRESS NUMBER OF ENTRIES USED
001DFA 3003 435 CTABP DC X'3003' ADDRESS OF CONFIGURED FLAG
001DFB 3005 436 CTABD DC X'3005' ADDRESS OF SYSTEM TYPE
001DFC 3006 437 CTABS DC X'3006' ADDRESS LAST USABLE STORAGE
001DFD 3008 438 CTABN DC X'3008' ADDRESS ALT CONSOLE ADD-TYPE
001DFE 3FF0 439 CTABF DC X'3FF0' ADDRESS LAST ENTRY
001DF7 00 440 CTMNE DC X'00' 255 = MAX # ENTRIES IN CONFIG TABLE
001DF8 FF 441 CTMNF DC X'FF' " " " " BYTE 2

442 *****
443 * CONFIGURATION TABLE FIELD EXPANSION
444 *
445 *
446 *
001E0A 00 446 CTDA ALIGN WORD
001E0B 00 447 CTDT DC X'00' DEVICE ADDRESS
001E0C 00 448 CTCF DC B'00000000' DEVICE TYPE

449 * CONTROL FLAGS
450 * BIT 0 - USED BY DCP
451 * 1 - CHAIN ENTRIES
452 * 2 - LAST USED ENTRY IN TABLE
453 * 3 - LAST ENTRY IN EACH SECTOR
454 * 4 - RESERVED
455 * 5 - RESERVED
456 * 6 - RESERVED
457 * 7 - RESERVED
001E0D 00 458 CTDD1 DC B'00000000' END OF TABLE
001E0E 00 459 CTDD2 DC B'00000000' DEVICE DEPENDENT
001E0F 00 460 CTDD3 DC B'00000000' DEVICE DEPENDENT
001E10 00 461 CTDD4 DC B'00000000' DEVICE DEPENDENT
001E11 00 462 CTDD5 DC B'00000000' DEVICE DEPENDENT
001E12 00 463 CTDD6 DC B'00000000' DEVICE DEPENDENT
001E13 00 464 CTDD7 DC B'00000000' DEVICE DEPENDENT
001E14 00 465 CTDD8 DC B'00000000' DEVICE DEPENDENT
001E15 00 466 CTDD9 DC B'00000000' DEVICE DEPENDENT
001E16 00 467 CTDDA DC B'00000000' DEVICE DEPENDENT
001E17 00 468 CTDDB DC B'00000000' DEVICE DEPENDENT
001E18 00 469 CTDDC DC X'00' DEVICE READ ID RESULTS
001E19 00 470 CTDDD DC X'00' DEVICE READ ID RESULTS - BYTE 2

471 *****
472 *****
473 * CONFIG TABLE MESSAGES = 3820 -38DF
474 *
475 * CONTROL BLOCK OUTPUT

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001E1A 00C0 476 ALIGN WORD
001E1C 1E22 477 DC X'00C0'
001E1E FFFF 478 CTH8 DC A(CTH8A)
479 DC A(-1)
480 * OUTPUT MESSAGE
001E20 384A 481 DC X'384A'
001E22 C3D6D5C6C9C7E4D9C 482 CTH8A DC C'CONFIGURATION TABLE IS FULL'
001E3D 00 483 DC X'00'
484 * HEX TO EBCDIC CONTROL BLOCK
001E3E 0010 485 CTH20 DC A(16) NO BYTES HEX DATA
001E40 0000 486 CTH21 DC A(0) DATA ADDRESS (HEX)
001E42 0000 487 CTH22 DC A(0) BUFFER ADDRESS (EBCDIC)
488 *
489 * CONTROL BLOCK OUTPUT
490 ALIGN WORD
491 DC X'00C0'
001E44 00C0 492 OSPEP DC A(C3828)
001E46 1E4C 493 DC A(-1)
001E48 FFFF 494 * OUTPUT
495 DC X'3828'
001E4A 3828 495 DC X'3828'
001E4C C3D6D5C6C9C740C5D 496 C3828 DC C'CONFIG ERROR-INT DI/DO'
001E62 00 497 DC X'00'
498 *
499 * CONTROL BLOCK OUTPUT
500 ALIGN WORD
501 DC X'00C0'
001E64 00C0 502 FF02 DC A(FF02A)
001E66 1E6C 503 DC A(-1)
001E68 FFFF 504 * OUTPUT
505 DC X'3833'
001E6A 3833 506 FF02A DC C'CONFIG ERROR-OIO CC='
001E6C C3D6D5C6C9C740C5D 507 FF02B DC C'
001E80 40404040 508 DC X'00'
001E84 00 509 *
510 * CONTROL BLOCK OUTPUT
511 ALIGN WORD
512 DC X'00C0'
001E86 00C0 513 FF03 DC A(FF03A)
001E88 1E8E 514 DC A(-1)
001E8A FFFF 515 * OUTPUT
516 DC X'3835'
001E8C 3835 517 FF03A DC C'INT CC='
001E8E C9D5E340C3C37E40 518 FF03B DC C'
001E90 40404040 519 DC X'00'
001E9A 00 520 *
521 * CONTROL BLOCK OUTPUT
522 ALIGN WORD
523 DC X'00C0'
001E9C 00C0 524 FF058 DC A(FF05A)
001E9E 1EA4 525 DC A(-1)
001EA0 FFFF 526 * OUTPUT
527 DC X'383F'
001EA2 383F 528 FF05A DC C'NO CONFIGURATION ENTRY'
001EA4 D5D640C3D6D5C6C9C 529 DC X'00'
001EA8 00 530 *
531 * CONTROL BLOCK OUTPUT
532 ALIGN WORD
533 DC X'0080'
001EBB 00 534 FF06 DC A(FF06A)
001EBC 0080 535 DC A(-1)
001EBE 1EC4 536 * OUTPUT
001EC0 FFFF 537 DC X'384C'
001EC2 384C 538 FF06A DC C'DEVICE NOT ATTACHED'
001EC4 C4C5E5C9C3C540D5D 539 DC X'00'
001ED7 00 540 *
541 * CONTROL BLOCK HTOE
542 FF09 DC A(1) # BYTES HEX DATA
001ED8 0001 543 FF09A DC A(DEVAD) DATA ADDRESS (HEX)
001EDA 1D7E 544 FF09B DC A(FF10B) BUFFER ADDRESS (EBCDIC)
001EDC 1EEE 545 *
546 * CONTROL BLOCK OUTPUT
547 ALIGN WORD
548 DC X'0080'
001EE0 0080 549 FF10 DC A(FF10A)
001EE2 1EE6 550 DC A(-1)
001EE4 FFFF 551 * OUTPUT
552 DC X'384C'
001EE6 C1C4C4D9C5E2E27E 553 FF10A DC C'ADDRESS='
001EE8 4040 554 FF10E DC C'
001EF0 00 555 DC X'00'
556 *
557 *****
558 * END OF CDATA
559 *****
001EF1 00 560 ALIGN WORD
561 *****
562 * BEGIN MAIN PROGRAM
563 *****
001EF2 6F0D 1D88 564 BEGIN1 MVW R7,OLYRA SAVE OVERLAY RETURN ADDRESS
001EF6 6802 238A 565 B TERN GO DO TERN AND OTHER DEVICES
566 *****
567 *****
568 *****
569 *****
570 * PROCEDURE WHERE AM I
571 * INPUT WAMI = C'XX'
572 * RETURN NEXT SEQUENTIAL INSTRUCTION
573 *****
574 * CONTROL BLOCK OUTPUT
575 * DC X'0080'
576 * WAMI2 DC A(WAMI3)
577 * DC A(-1)
578 * OUTPUT
579 * DC X'FFFF'
580 * WAMI3 DC C'WAMI=='
581 * WAMI DC C'
582 * DC X'00'
583 *****
584 * WAMIRA DC A(*-*) RETURN ADDRESS
585 *****
586 * WHEREAMI MVW R7,WAMIRA SAVE RETURN ADDRESS
587 * MVA WAMI2,R7
588 * SVC OUT PRINT 'WAMI==XX'
589 * MVWI C' WAMI REINITIALIZE
590 * B WAMIRA RETURN
591 *****

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593 *****
594 * PROCEDURE SEARCH MEMBER=CSEARCH
595 * SEARCH CONFIGURATION TABLE FOR A DEVICE ADDRESS
596 * R7 CONTAINS RETURN TO ADDRESS
597 * CTSA = DEVICE ADDRESS TO SEARCH FOR
598 * CTSEP = 0 IF ADDRESS IS NOT FOUND
599 * CTSEF = ENTRY # IF ADDRESS FOUND 1-63
600 * CTSEA = START ADDRESS OF ENTRY IF FOUND
601 *****
602 CSRCH NOP
603 CXS01 MVWI 1,CTSEP FIRST ENTRY FOUND #
604 MVW CTABA,R1 CONFIGURATION TABLE ADDRESS
605 MVB (R1,2),R2 R2 = # ENTRIES IN TABLE
606 ANI 16,R1 ADDRESS 1ST ENTRY CONFIGURATION TABLE
607 CB CTS2,CTSEP
608 CXS02 JE CXS04,(R1)
609 CXS03 ANI 16,R1
610 ANI 1,CTSEP J IF ADDRESS FOUND
611 CW CTSEP,R2 INCREMENT ADDRESS
612 JGE CXS02 INCREMENT ENTRY #
613 MVWI 0,CTSEF J IF MORE ENTRIES TO CHECK
614 J CXS08 ADDRESS NOT FOUND IN CONFIG TABLE
615 * ENTRY FOUND
616 CXS04 CWI 0,CBPA4 CK BYPASS KITE FLAG
617 JE CXS05
618 * BYPASS A3 KITE OEMIA ENTRIES
619 CB CDTA3,(R1,1) BASIC KITE DEVICE TYPE = A3
620 JE CXS03 BYPASS & CONTINUE SEARCH
621 * BYPASS A4 KITE ENTRIES
622 CB CDTA4,(R1,1) KITE DEVICE TYPE = A4
623 JE CXS03 BYPASS & CONTINUE SEARCH
624 * BYPASS 3D FLOATING POINT ENTRIES
625 CXS05 CB CDT3D,(R1,1) FLOATING POINT DEVICE TYPE = 3D
626 JE CXS03 BYPASS & CONTINUE SEARCH
627 *
628 CXS08 MVW R1,CTSEA
629 B (R7) RETURN
630 *****
631 * END OF SEARCH PROCEDURE
632 *****
633 *****
634 *****
635 * PROCEDURE READID MEMBER=CREADID
636 * READ DEVICE ID
637 * DEVICE ADDRESS LOCATED AT CTIDA
638 * DEVICE ID RETURNED IN CTIID
639 *****
640 * DATA DEFINITION
641 CTIT2 DC X'0000' 2ND TRY FLAG
642 CTICT DC X'0000' WAIT LOOP COUNTER
643 * CONTROL BLOCK FOR SVR RID AT AYI04
644 CTI04 DC A(CTIDA) DEVICE ADDRESS POINTER
645 DC A(CTI10) ERROR RETURN ADDRESS
646 DC A(0) RESERVED
647 DC A(0) RESERVED
648 DC A(0) ADDRESS OF SVC LAST USING
649 CTI05 DC X'0000' RETURNED DEVICE ID
650 *
651 CTIDD DC X'00' DUMMY TO CONVERT DEVICE ADD TO EBCDIC
652 CTIDA DC X'00' DEVICE ADDRESS (BYTE)
653 CTICA DC X'00' DEVICE ADDRESS FOR R3
654 CTICC DC X'00' CONDITION CODE FOR R3
655 * ALIGN WORD
656 CTIID DC X'0000' RETURNED DEVICE ID
657 CTIDF DC X'0000' DEVICE FOUND ON ADDRESS FLAG
658 *
659 * CONTROL BLOCK OUTPUT
660 ALIGN WORD
661 DC X'00C0'
662 CTI15 DC A(CTI16)
663 DC A(-1)
664 * OUTPUT MESSAGE
665 DC X'3844'
666 CTI16 DC C'CONFIG ERROR-READ ID D.A.='
667 CTI17 DC C' DEVICE ADDRESS
668 DC C' CC = '
669 CTI18 DC C' CONDITION CODE
670 DC X'00'
671 * ALIGN WORD
672 CTI20 DC C'01' EBCDIC CHARACTERS
673 CTI30 DC C'02'
674 CTI35 DC C'03'
675 CTI40 DC C'04'
676 CTI45 DC C'05'
677 CTI50 DC C'06'
678 CTI55 DC C'07'
679 * CONTROL BLOCK HTOE
680 CTI60 DC X'0002' HEX DATA 2 BYTES
681 DC A(CTIDD) DATA ADDRESS
682 DC A(CTI17) EBCDIC OUTPUT BUFFER - DEVICE ADDRESS
683 *****
684 * PROGRAM START
685 CYRID NOP
686 CYI01 MVW R7,R6 SAVE CONTENTS OF R7 TO RETURN
687 CYI05 MVWI 0,CTIDF RESET DEVICES FOUND FLAG
688 MVWI 0,CTIID RESET DEVICE ID
689 MVWI 0,CERR RESET CC ERROR FLAG
690 * START READ DEVICE ID
691 MVA CTI04,R7
692 * SVC RID START READ ID
693 * READ ID COMPLETE AND CC=7
694 * CTI05,CTIID RETAIN ID RETURNED
695 MVWI 1,CTIDD SET DEVICE FOUND FLAG
696 MVWI 0,CTIT2 RESET 2ND TRY FLAG
697 J CYI70 J TO END OF PROC
698 *****
699 * RETURN AFTER RID - CC NOT = 7 OR CC=7 FROM CONTROL BLOCK
700 * TEST CONDITION CODES RETURNED
701 CYI10 JEV CYI40 J ON EVEN
702 JCY CYI30 J ON CARRY
703 BOV CYI20 J ON OVERFLOW
704 * DEVICE NOT ATTACHED
705 J CYI70
706 * ERROR ON RID TO AN ADDRESS
707 * BUSY

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001FEC 402F 1F54 0001 708 CYI20 CWI 1,CTIT2 CC=1
001FF2 1012 709 *
001FF4 4020 1F54 0001 710 * MVWI 0,CTIT2
001FFA 4724 1F58 711 MVA CTI04,R7
001FFE 6008 712 * SVC RESET
002000 4020 1F56 0000 713 *
002006 6002 714 *
002008 4029 1F56 0001 715 * MVWI 0,CTICT
00200E 402F 1F56 0190 716 CYI22 SVC IDLE
002014 14F8 717 * AWI 1,CTICT
002016 50CF 718 * CWI 400,CTICT
719 * JLT CYI22
720 * J CYI05
721 *
722 * 2ND CC=1 FOUND - ERROR
723 * CYI25 MVWI 0,CTIT2
724 * MVW CTI20,CTI18
725 * MVB CTC02,CTICC
726 * J
727 * CYI30 BOV CYI35
728 *
729 * MVW CTI30,CTI18 CC=2
730 * MVB CTC02,CTICC
731 * J
732 *
733 * CYI35 MVW CTI35,CTI18 CC=3
734 * MVB CTC03,CTICC
735 * J
736 *
737 * CYI40 JCY CYI60
738 * BOV CYI45
739 * INTERVENTION REQUIRED CC=4
740 * MVW CTI40,CTI18
741 * MVB CTC04,CTICC
742 * J
743 * CYI45 MVW CTI45,CTI18 CC=5
744 * MVB CTC05,CTICC
745 * J
746 *
747 * CYI50 BOV CYI55
748 * CONTROLLER BUSY CC=6
749 * MVW CTI50,CTI18
750 * MVB CTC06,CTICC
751 * J
752 * CYI55 MVW CTI55,CTI18 CC=7
753 * MVB CTC07,CTICC
754 * J
755 * DO NOT PRINT ERROR IF INITIAL CONFIGURATING
756 *
757 * EQU *
758 * CWI X'0001',CINCF CK IF INITIAL CONFIGURATING
759 * JE CYI70 BYPASS CC ERROR PRINT IN INIT CONFJG
760 *
761 * MVA CTI60,R7
762 * SVC HTOE
763 * PRINT ERROR MESSAGE
764 * MVB CTI6A,R3 DEVICE ADDRESS FOR R3
765 * MVA CTI15,R7 R3 = DEVICE ADDRESS & CC AFTER ERROR
766 * SVC OUT PRINT 'ERROR...CC = ..'
767 * MVWI 1,CCERR SET CC ERROR FLAG
768 * END PROC - RETURN
769 * B (R6)
770 * *****
771 * END PROCEDURE READID
772 * *****
773 * *****
774 * *****
775 * PROCEDURE CDEVT
776 * FIND DEVICE TYPE FROM RESULT OF READID
777 * INPUT R5 = DEVICE TYPE (OPTIONAL)
778 * INPUT R6 = READ ID
779 * OUTPUT R6 = DEVICE TYPE
780 * OUTPUT CDVT1 & 2 = DEVICE NAME (EBCDIC)
781 * R1, R3, & R4 ARE NOT CHANGED
782 * IF DEVICE ID IS NOT RECOGNIZED: R6 RETURNED = 0000
783 * R5 RETURNED = 0000
784 * *****
785 * DATA DEFINITION
786 * DEVICE NAME TABLE
787 * DNTAB DC X'0010' READ ID
788 * DC X'0000' MASK
789 * DC X'0040' DEVICE TYPE
790 * DC C'TTY' DEVICE NAME
791 * DC X'0206' READ ID
792 * DC X'0000' MASK
793 * DC X'0064' DEVICE TYPE
794 * DC C'PRINTER' DEVICE NAME
795 * DC X'0306' READ ID
796 * DC X'0000' MASK
797 * DC X'0068' DEVICE TYPE
798 * DC C'PRINTER' DEVICE NAME
799 * DC X'0106' READ ID
800 * DC X'0000' MASK
801 * DC X'0048' DEVICE TYPE
802 * DC C'DISKETTE' DEVICE NAME
803 * DC X'0126' READ ID
804 * DC X'0000' MASK
805 * DC X'004A' DEVICE TYPE
806 * DC C'DISKETTE' DEVICE NAME
807 *
808 * DC X'00AA' READ ID
809 * DC X'0000' MASK
810 * DC X'0078' DEVICE TYPE
811 * DC C'DISK' DEVICE NAME DUTCHESS
812 * DC X'00BA' READ ID
813 * DC X'0000' MASK
814 * DC X'0078' DEVICE TYPE
815 * DC C'DISK' DEVICE NAME DUTCHESS
816 * DC X'00CA' READ ID
817 * DC X'0000' MASK
818 * DC X'0078' DEVICE TYPE
819 * DC C'DISK' DEVICE NAME DUTCHESS
820 * DC X'00A2' READ ID
821 * DC X'0000' MASK
822 * DC X'0079' DEVICE TYPE

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002108 C4C9E2D240404040 823 DC C'DISK' DEVICE NAME VTL
002110 00B2 824 DC X'00B2' READ ID
002112 0000 825 DC X'0000' MASK
002114 0079 826 DC X'0079' DEVICE TYPE
002116 C4C9E2D240404040 827 DC C'DISK' DEVICE NAME VTL
002118 3106 828 DC X'3106' READ ID
002120 0000 829 DC X'0000' MASK
002122 007A 830 DC X'007A' DEVICE TYPE
002124 C4C9E2D240404040 831 DC C'DISK' DEVICE NAME
832 *
833 * DC X'0406' READ ID
834 * DC X'0000' MASK
835 * DC X'0044' DEVICE TYPE
836 * DC C'DISPLAY' DEVICE NAME CRT
837 * DC X'040E' READ ID
838 * DC X'0000' MASK
839 * DC X'0045' DEVICE TYPE
840 * DC C'DISPLAY' DEVICE NAME 4978 DISPLAY
841 *
842 * DC X'0028' READ ID
843 * DC X'0000' MASK
844 * DC X'0050' DEVICE TYPE
845 * DC C'TIMER' DEVICE NAME
846 *
847 * DC X'0010' READ ID
848 * DC X'0000' MASK
849 * DC X'00A0' DEVICE TYPE
850 * DC C'INT DI' DEVICE NAME
851 * DC X'0018' READ ID
852 * DC X'0000' MASK
853 * DC X'00A0' DEVICE TYPE
854 * DC C'INT DO' DEVICE NAME
855 * DC X'8008' READ ID
856 * DC X'0000' MASK
857 * DC X'00B0' DEVICE TYPE
858 * DC C'SIO DI I' DEVICE NAME
859 * DC X'8010' READ ID
860 * DC X'0000' MASK
861 * DC X'00B0' DEVICE TYPE
862 * DC C'SIO DI' DEVICE NAME
863 * DC X'8018' READ ID
864 * DC X'0000' MASK
865 * DC X'00B4' DEVICE TYPE
866 * DC C'SIO DO' DEVICE NAME
867 * DC X'8020' READ ID
868 * DC X'0000' MASK
869 * DC X'00A8' DEVICE TYPE
870 * DC C'SIO AI' DEVICE NAME
871 * DC X'8028' READ ID
872 * DC X'0000' MASK
873 * DC X'00A8' DEVICE TYPE
874 * DC C'SIO AI A' DEVICE NAME INSTRUMENTATION AMP
875 * DC X'8030' READ ID
876 * DC X'0000' MASK
877 * DC X'00A8' DEVICE TYPE
878 * DC C'SIO AI R' DEVICE NAME MPX RELAY
879 * DC X'8038' READ ID
880 * DC X'0000' MASK
881 * DC X'00A8' DEVICE TYPE
882 * DC C'SIO AI S' DEVICE NAME MPX SS
883 * DC X'8040' READ ID
884 * DC X'0000' MASK
885 * DC X'00A9' DEVICE TYPE
886 * DC C'SIO AO' DEVICE NAME
887 *
888 * DC X'100E' READ ID
889 * DC X'0000' MASK
890 * DC X'00E8' DEVICE TYPE
891 * DC C'ACCA SL' DEVICE NAME
892 * DC X'1006' READ ID
893 * DC X'0000' MASK
894 * DC X'00F0' DEVICE TYPE
895 * DC C'BSCA SL' DEVICE NAME
896 * DC X'115C' READ ID
897 * DC X'1002' MASK
898 * DC X'100F' DEVICE TYPE
899 * DC C'SDLC SL' DEVICE NAME
900 * DC X'200E' READ ID
901 * DC X'0700' MASK
902 * DC X'00E9' DEVICE TYPE
903 * DC C'ACCA ML' DEVICE NAME
904 * DC X'2006' READ ID
905 * DC X'0700' MASK
906 * DC X'00F1' DEVICE TYPE
907 * DC C'BSCA ML' DEVICE NAME
908 *
909 * DC X'201E' READ ID
910 * DC X'0700' MASK
911 * DC X'00E1' DEVICE TYPE
912 * DC C'COM SYS' DEVICE NAME
913 *
914 * DC X'0030' READ ID
915 * DC X'0000' MASK
916 * DC X'003E' DEVICE TYPE
917 * DC C'TCS' DEVICE NAME
918 *
919 * DC X'FFFF' READ ID
920 * DC X'0000' MASK
921 * DC X'0000' DEVICE TYPE
922 * DC C'DELETED' DEVICE NAME
923 *
924 * DC X'0000'
925 * *****
926 * *****
927 * *****
928 * *****
929 * *****
930 * *****
931 * *****
932 * *****
933 * *****
934 * *****
935 * *****
936 * *****
937 * *****

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00227C 0000 938 *****
00227E 0000 939 CDVRA DC A(*-*) RETURN ADDRESS
940 CDVR1 DC X'0000' SAVE AREA FOR R1
941 *****
942 * PROGRAM START
943 * TEST FOR WOODPECKER
944 *****
002280 6F0D 227C 945 CDEVT MVW R7,CDVRA SAVE RETURN ADDRESS
002284 690D 227E 946 MVW R1,CDVR1 SAVE R1
947 * R6 = DEVICE READ ID
948 MVA DNTAE-FORTN,R2 ADDRESS OF DEVICE TYPE TABLE
949 DET15 EQU *
950 ABI FORTN,R2 INCREMENT TO NEXT ENTRY
951 CWI ZERO,(R2) END OF TABLE
952 JE DET17 J YES TEST OTHERS WITH NO READID
953 * R6 = PASSED DEVICE READ ID
954 MVW R6,R7
955 RBTW (R2,TWO),R7 MASK OUT UNUSED BITS
956 CW (R2,ZERO),R7 DOES ID MATCH
957 JNE DET15 BR/TRY NEXT ENTRY
958 DET16 EQU *
959 MVEI EIGHT,R7 LENGTH OF DEVICE NAME FIELD
960 MVA (R2,SIX),R6 START ADDRESS OF LABEL
961 MVA CDVT1,R1 WHERE TO PUT IT
962 MVFN (R6),(R1) MOVE THE DEVICE NAME
963 MVW (R2,FOUR),R6 DEVICE TYPE INTO R6
964 J DET21 J TO RETURN
965 * TEST FOR OTHERS WITH NO READID
0022B2 7524 966 DET17 EQU *
0022B2 1012 967 MVW R5,R1 CK FOR A PASSED DEVICE TYPE
0022B4 4224 968 JZ DET20 J NO DEVICE TYPE PASSED
0022B6 4224 224A 969 MVA DVTNA-TEN,R2 ADDRESS OF DEVICE TYPE TABLE
0022BA 020A 970 DET18 EQU *
0022BA 408F 0000 971 ABI TEN,R2 INCREMENT TO NEXT ENTRY
0022BC 100C 972 CWI ZEP0,(R2) END OF TABLE
0022C2 C5A4 0001 973 JE DET20 J YES
0022C6 18F9 974 * R5 = PASSED DEVICE TYPE
0022C8 0F08 975 CB (R2,ONE),R5 DOES ID MATCH
0022CA 45A4 0002 976 JNE DET18 J NO
0022CC 4124 1DD4 977 DET19 EQU *
0022CD 2D24 978 MVEI EIGHT,R7 LENGTH OF DEVICE NAME FIELD
0022CE 6E48 0004 979 MVA (R2,TWO),R5 START ADDRESS OF LABEL
0022D0 5008 980 MVA CDVT1,R1 WHERE TO PUT IT
0022D2 981 MVFN (R5),(R1) MOVE THE LABEL
0022D4 982 MVW (R2,FOUR),R6 DEVICE TYPE INTO R6
0022D8 983 J DET21
0022DA 0F08 984 DET20 EQU *
0022DA 4524 2274 985 MVEI EIGHT,R7 LENGTH OF DEVICE NAME FIELD
0022DC 4124 1DD4 986 MVA DVTUN,R5 START ADDRESS OF LABEL
0022DE 2D24 987 MVA CDVT1,R1 WHERE TO PUT IT
0022E0 0D00 988 MVFN (R5),(R1) MOVE THE LABEL
0022E2 75C4 989 MVEI ZERO,R5
0022E4 990 MVW R5,R6 RESET R6
0022EA 6908 227E 991 DET21 EQU *
0022EE 6812 227C 992 MVW CDVR1,R1 RESTORE R1
993 B CDVRA* RETURN
994 ***** END OF CDEVT PROCEDURE *****
995 *****
996 * CONSTANTS FOR OTHER THAN TP *****
997 *
998 *****
999 XLATR DC X'001' RESPONSE TO MESH
1000 FLOAT DC X'00' RESPONSE TO MESH
1001 ***** ALIGN WORD *****
1002 *
1003 * SORT CONSTANTS *****
1004 *
1005 NXTEN DC X'0000'
1006 CTAD DC X'0000'
1007 CTBSC DC X'0000'
1008 ABLEZ DC X'A000'
1009 AVAIL DC X'0000' THIS ENTRY AVAILABLE
1010 *****
1011 * MESSAGES *****
1012 *****
1013 DC X'382D'
1014 MESH DC X'FLOATING POINT? 00=NO, 01=YES'
1015 DC X'00'
1016 *****
1017 * MESSAGE CONTROL BLOCKS *****
1018 *****
1019 ALIGN WORD
1020 DC X'00C0'
1021 MHDB DC A(MESH)
1022 DC A(FLOAT)
1023 DC A(1)
1024 DC A(1)
1025 *****
1026 * CONTROL BLOCK OUTIN *****
1027 DC X'00C0'
1028 OEMQU DC A(OEMOU) @ OUTPUT
1029 DC A(OEMIN) @ INPUT
1030 DC A(1)
1031 DC A(1)
1032 * OUTPUT
1033 DC X'382B'
1034 OEMOU DC C'OEMI? 00=NO, 01=YES'
1035 DC X'00'
1036 * INPUT
1037 ALIGN WORD
1038 OEMIN DC X'00' OEMI ANSWER
1039 DC X'00'
1040 *
1041 * CONTROL BLOCK OUTIN *****
1042 ALIGN WORD
1043 DC X'0080'
1044 CTD20 DC A(CTD21) OUTPUT
1045 DC A(CTE04) INPUT
1046 DC A(1) LENGTH OF INPUT
1047 DC A(1) CONVERT TO HEX
1048 * OUTPUT
1049 DC X'3839'
1050 CTD21 DC C'ADDRESS' OUTPUT
1051 DC X'00'
1052 ALIGN WORD

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00235E 4040 1053 * INPUT - SEE CTE04 INPUT
002360 4040404040404040 1054 *
00237E 00 1055 CTE04 DC 1C' ' 16 WORDS
1056 CTE05 DC 15C' ' 16 WORDS
1057 CTE06 DC X'00'
1058 *
1059 *****
1060 *DEVICE DEPENDENT DATA TABLE *****
1061 *****
00237F 01 1062 DAT01 DC X'01'
002380 0D 1063 DAT0D DC X'0D'
002381 40 1064 DAT3D DC X'3D'
002382 40 1065 DAT4D DC X'4D'
002383 90 1066 DAT9D DC X'9D'
002384 A2 1067 DATA2 DC X'A2'
002385 A3 1068 DATA3 DC X'A3'
002386 AA 1069 DATAA DC X'AA'
002387 B2 1070 DATAB DC X'B2'
002388 B2 1071 DATBA DC X'BA'
002389 CA 1072 DATCA DC X'CA'
1073 *****
1074 ALIGN WORD *****
1075 *****
1076 ***** TERN ROUTINE AUTOMATIC *****
1077 *****
1078 *****
1079 TERN EQU *
1080 MVW CTABA,R3 TABLE START
1081 ABI X'10',R3 1ST OR NEXT ENTRY
1082 CW CTABF,R3 LAST TABLE ENTRY
1083 JGT CUCKO J IF FINISHED WITH LAST ENTRY
1084 MVB (R3,15),R2 R2 = READID 2ND BYTE
1085 CBI X'AA',R2 IS THIS A DUTCHESS W/OFIXED
1086 JE DEC27 IF YES BRANCH
1087 CBI X'BA',R2 IS THIS A DUTCHES W/FIXED HEADS
1088 JE DEC28 IF YES BRANCH
1089 CBI X'CA',R2 IS THIS A DUTCHESS
1090 JE DEC29 IF YES BRANCH
1091 CBI X'1A',R2 IS THIS VTL W/O FIXED HEADS
1092 JE DEC30 IF YES BRANCH
1093 CBI X'B2',R2 IS THIS VTL W/FIXED HEADS?
1094 JE DEC31 IF YES BRANCH
1095 J DEC25 CONTINUE LOOP
1096 *
1097 DEC27 MVB DATA,(R3,5) MOVE 'AA' INTO BYTE 5
1098 J DEC25
1099 DEC28 MVB DATBA,(R3,5) MOVE 'BA' INTO BYTE 5
1100 J DEC25
1101 DEC29 MVB DATCA,(R3,5) MOVE 'CA' INTO BYTE 5
1102 J DEC25
1103 DEC30 MVB DATA,(R3,5) MOVE 'A2' INTO BYTE 5
1104 J DEC25
1105 DEC31 MVB DATAB,(R3,5) MOVE 'B2' INTO BYTE 5
1106 J DEC25
1107 *****
1108 *****
1109 * TIMER FEATURE (ALSO KNOWN AS CUCKOO) 2 ENTRIES REQUIRED PER FEAT.
1110 *FIRST ENTRY SHOULD HAVE CHAIN BIT ON,SECOND ENTRY SHOULD SHUT IT
1111 *****
1112 CUCKO EQU *
1113 MVW CTABA,R3 ADDRESS OF CONFIG TABLE
1114 CUCKU ABI X'10',R3 ADDRESS OF 1ST OR NEXT ENTRY
1115 CW CTABF,R3 CK FOR LAST ENTRY
1116 JGT KITE J IF FINISHED LAST ENTRY
1117 CB CTR50,(R3,1)
1118 JE CUKOO J IF CUCKOO ENTRY FOUND
1119 J CUCKU
1120 CUKOO TBTS (R3,17) SET CHAIN BIT
1121 ABI X'10',R3 SKIP NEXT ENTRY
1122 J CUCKU CONTINUE SCANNING ENTRIES
1123 *****
1124 ***** KITE MAIN ROUTINE *****
1125 *****
1126 ***** AUTOMATIC CONFIG FOR KITE *****
1127 *****
1128 KITE EQU *
1129 MVW CTABA,R1 ADDRESS TABLE START
1130 KITEN AMT X'0010',R1 INCREMENT TO 1ST OR NEXT ENTRY
1131 CW CTABF,R1 R1 = ADDRESS OF TABLE ENTRY
1132 BGT KOEMI B IF PAST LAST ENTRY
1133 KITES MVB (R1,1),R2 R2 = DEVICE TYPE
1134 CBI X'A8',R2
1135 JE KPFOND FOUND A KITE
1136 CBI X'A9',R2
1137 JE KPFOND FOUND A KITE
1138 CBI X'RO',R2
1139 JE KPFOND FOUND A KITE
1140 CBI X'B4',R2
1141 JE KPFOND FOUND A KITE
1142 J KITEM KITEM
1143 * FOUND A KITE ENTRY
1144 * KPFOND EQU *
1145 * SEE IF ALREADY PROCESSED THIS DEVICE ADDRESS
1146 MVB (R1),R3 R3 = DEVICE ADDRESS
1147 SLL 8,R3
1148 SRL 8,R3
1149 CW KIKDA,R3
1150 JLE KITEM
1151 * J THIS DEVICE ADDRESS HAS BEEN PROCESSED
1152 * A 1ST KITE ENTRY FOUND
1153 MVW R1,KAEA SAVE KITE ATTACHMENT ENTRY ADDRESS
1154 MVB (R1),KADA2 SAVE KITE ATTACHMENT DEVICE ADDRESS
1155 MVB KADA,KADAT " "
1156 * ZERO OUT KITE BASIC ENTRY
1157 MVA KEB2,R2 MOVE TO ADDRESS
1158 SRL 16,R3 WHAT TO MOVE = 0
1159 MVWI 14,R7 # BYTES TO MOVE
1160 FPN R3,(R2) ZERO IT
1161 MVB CDTA4,KEDT SET DEVICE TYPE TO 'A4' KITE ATTACHMENT
1162 MVA KEB3,R2
1163 MVWI 0,CHCNT SET CHAIN COUNT TO 0
1164 *
1165 MVWZ F1STD1,R7 ZERO 1ST DI FLAG
1166 MVWZ F1STD0,R7 ZERO 1ST DO FLAG
1167 MVB (R1),KEDA DEVICE STARTING ADDRESS
1168 MVW (R1),ADEVA* SET DEVICE ADD & TYPE FOR TERM TO DCP
1169 MVW R1,RSAV SAVE R1

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002464 6F03 2620 1170 BAL READSTAT,R7 GO READ STATUS
002468 6908 1DBA 1171 * MVW R1SAV,R1 RESTORE R1
00246C C725 1DC4 1172 MVBZ RSNOK,R7
002470 18C3 1173 JNZ KITE J COULDN'T READ STATUS ON THAT ENTRY
002472 4524 25FE 1174 * STATUS READ SUCCESSFULLY
002476 4624 26A4 1175 MVA KEB4,R5 R5= ADDRESS OF KITE ENTRY BYTE 4
00247A 4E05 1176 MVA IDC#2,R6 R6= ADDRESS OF STATUS WORD
00247C 1004 1177 JOFF KTF8 (R6,5) TEST FOR 8 ADDRESSES
00247E 4424 0008 1178 MVAI 8,R4 COVERS 8 ADDRESSES
002482 4D45 1179 TBTS (R5,5) SET BIT
002484 5003 1180 J KDIMB
002486 1181 * KTF4 EQU (R6,6) TEST FOR 4 ADDRESSES
1182 * TBTS 8 OR 4 ADDRESSES ONLY. IT MUST BE ON.
1183 * JOFF COVERS 4 ADDRESSES
1184 * MVAI 4,R4
1185 * TBTS (R5,6) SET BIT
002486 4424 0004 1186 * KDIMB MVW R4,KDOMA SAVE ATTACHMENT DOMAIN SIZE
00248A 4D46 1187 * MVW KADA,R7
1188 * AW R4,R7
1189 * MVW R7,KADAL 1 ADDRESS BEYOND DOMAIN OF ATTACHMENT
00248C 6C0D 1DE0 1190 TBTS (R5,7) DIAG INT MASK ALWAYS ON
002490 6F08 1DE2 1191 TBT (R6,4) TEST PARITY CK/GEN
002494 74E8 1192 JOFF KLOOP J NOT SELECTED
002496 6F0D 1DE4 1193 TBTS (R5,4) PARITY CK/GEN SELECTED
00249A 4D47 1194 * DO FOR # ADDRESSES IN DOMAIN OF THIS KITE CONTROLLER
00249C 4E04 1195 KLOOP CB CDTA8,(R1,1) CK FOR AI (DT = A8)
00249E 1001 1196 * KCKAO JNE AI DEVICE FOUND
0024A2 806B 1DE2 0001 1200 * SET AI CHAIN FLAG
0024A8 181E 1201 * R1,KAICE SAVE ADDRESS OF LAST AI CHAINED ENTRY
1202 * MVW KAIC,R7
1203 * JZ KLOO2 J NOT ALREADY IN AN AI CHAIN
1204 * CWI 7,CHCNT CK FOR 7 CHAINS IN A ROW
1205 * JGE KLOO4
1206 * MVWI 1,KAIC SET IN AI CHAIN FLAG
1207 * TBTS (R1,17) SET CHAIN BIT IN THIS AI ENTRY
1208 * AWI 1,CHCNT INC CHAIN COUNT
1209 * J KLOO6 DO NOT SET CHAIN BIT, 8TH IN A ROW.
1210 * MVW CHCNT,R7 RESET CHAIN COUNT
1211 * MVW KAIC,R7
1212 * JZ KLOO2 J NOT ALREADY IN A CHAIN
0024AA 690D 1DEA 1213 * CWI X'8038',(R1,14)
0024AE 6F08 1DE8 1214 * KDFW J NO ACTION NEEDED FOR BASIC AI
0024B2 1004 1215 * MVWI AI S.S. MPXR
0024B4 402F 1DD0 0007 1216 * J X'0001',(R1,4) SET AI S.S. MPXR BIT
0024BA 1C08 1217 * KCKAO EQU *
0024BC 4020 1DE8 0001 1218 * AI WAS NOT FOUND. SEE IF IN AN AI CHAIN.
0024C2 4951 1219 * MVW KAIC,R7 TEST AND RESET AI CHAIN FLAG
0024C4 4029 1DD0 0001 1220 * JZ KCKA2 WAS IN A CHAIN. RESET CHAIN BIT IN LAST ENTRY.
0024CA 5002 1221 * MVW KAICE,R7
1222 * TBTR (R7,17) RESET LAST CHAIN BIT IN SEQUENCE.
0024CC CF25 1DD0 1223 * MVWZ CHCNT,R7 RESET CHAIN COUNT.
0024D0 6F08 1DE8 1224 * KCKA2 CB CDTA9,(R1,1) CK FOR AO (DT = A9)
0024D4 10F3 1225 * JNE KCKDI AO DEVICE FOUND
1226 * J NO ACTION NEEDED
1227 * KDFW
0024D6 406F 000E 8038 1228 * KCKDI CB CDTB0,(R1,1) CK FOR DI (DT = B0)
0024DC 184E 1229 * JNE KCKDO DI DEVICE FOUND
0024DE 4060 0004 0001 1230 * CWI X'8008',(R1,14)
0024E4 504A 1231 * JNE KCKD2 DI ISOLATED
1232 * KCKD3 CTC08,(R1,3)
1233 * MVW CTC08,(R1,5)
1234 * J KCKD3 CTC08,(R1,5)
0024E6 1235 * KCKD2 CWI X'8010',(R1,14)
0024E8 CF25 1DE8 1236 * JNE KCKD3 DO NOT KNOW TYPE
0024EA 1005 1237 * MVW DI NON ISOLATED
0024EC 6F08 1DEA 1238 * MVW CTC10,(R1,3)
0024F0 4F91 1239 * TBTR CTC10,(R1,5)
0024F2 CF25 1DD0 1240 * MVWZ CTC10,(R1,5)
0024F6 806B 1DB3 0001 1241 * KCKD3 CWI X'0001',F1STDI CK 1ST DI FLAG
0024FC 1801 1242 * JNE KDFW 1ST DI FOUND. ENTER ADDRESS
1243 * MVWI X'0001',F1STDI SET 1ST DI FLAG
1244 * MVB CTC01,KEB7 SET DI PRESENT
1245 * MVB (R1),KEB6 SET DO PRESENT
1246 * J KDFW ADDRESS 1ST DI
002500 806B 1DB4 0001 1247 * KCKDO CB CDTB4,(R1,1) CK FOR DO (DT = B4)
002506 1822 1248 * JNE KNOT J NOT A KITE DEVICE
002508 406F 000E 8008 1249 * DO DEVICE FOUND
00250E 1807 1250 * J NO ACTION NEEDED
1251 * KDFW
002510 8068 1DA8 0003 1252 * MVW CTC18,(R1,3)
002516 8068 1DA8 0005 1253 * MVW CTC18,(R1,5)
00251C 500A 1254 * J KDFW X'0001',F1STDO CK 1ST DO FLAG
00251E 406F 000E 8010 1255 * KCKD3 CWI X'8010',(R1,14)
002524 1806 1256 * JNE KCKD3 DO NOT KNOW TYPE
002526 8068 1DA9 0003 1257 * MVW DI NON ISOLATED
00252C 8068 1DA9 0005 1258 * MVW CTC10,(R1,3)
1259 * MVW CTC10,(R1,5)
002532 402F 260A 0001 1260 * KCKD3 CWI X'0001',F1STDI CK 1ST DI FLAG
002538 1020 1261 * JNE KDFW 1ST DI FOUND. ENTER ADDRESS
00253A 4020 260A 0001 1262 * MVWI X'0001',F1STDI SET 1ST DI FLAG
002540 8028 1DA1 2601 1263 * MVB CTC01,KEB7 SET DI PRESENT
002546 8108 2600 1264 * MVB (R1),KEB6 SET DO PRESENT
00254A 5017 1265 * J KDFW ADDRESS 1ST DI
00254C 806B 1DB5 0001 1266 * KCKDO CB CDTB4,(R1,1) CK FOR DO (DT = B4)
002552 182A 1267 * JNE KNOT J NOT A KITE DEVICE
002554 8068 1DAC 0003 1268 * MVW DO DEVICE FOUND
00255A 8068 1DAC 0005 1269 * MVW CTC18,(R1,3)
002560 402F 260C 0001 1270 * MVW CTC18,(R1,5)
002566 1009 1271 * CWI X'0001',F1STDO CK 1ST DO FLAG
1272 * J KDFW
002568 4020 260C 0001 1273 * MVWI 1ST DO FOUND. ENTER ADDRESS
00256E 8028 1DA1 2603 1274 * MVB X'0001',F1STDO SET 1ST DO FLAG
002574 8108 2602 1275 * MVB CTC01,KEB9 SET DO PRESENT
002578 5000 1276 * MVB (R1),KEB8 SET DO PRESENT
1277 * J KDFW ADDRESS 1ST DO
00257A 1278 * KDFW EQU * KITE DEVICE WAS FOUND
00257A 4029 1DE6 0001 1279 * FIND NEXT ENTRY IN DOMAIN OF CONTROLLER
002580 402F 1DE6 00FF 1280 * AWI 1,KADAT NEXT DEVICE ADDRESS
002586 1D10 1281 * CWI X'00FF',KADAT
002588 882B 1DE4 1DE6 1282 * JGT KDSR J ALL ADDRESSES TESTED
00258E 1C0C 1283 * CW KADAL,KADAT
002590 8828 1DE6 1DBC 1284 * JGE KDSR J ALL OF DOMAIN CHECKED
1285 * MVW KADAT,CTSA

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002596 6F03 1EFA 1284 BAL CSRCH,R7 SEARCH TABLE FOR NEXT ADDRESS IN DOMAIN
00259A 6F08 1DC0 1285 MVW CTSEF,R7
00259E 10ED 1286 JZ KFNE J ADDRESS NOT FOUND. FIND NEXT ONE.
0025A0 6908 1DBE 1287 * MVW DEVICE ENTRY FOUND
0025A4 6802 24A2 1288 CTSEA,R1 R1 = ADDRESS OF ENTRY
1289 * KLOOP
1290 * EQU *
1291 * KNOT EQU *
1292 * EQU * DEVICE IN DOMAIN OF KITE ATTACHMENT NOT A KITE. KITE MUST END.
1293 * EQU *
1294 * KDSR EQU *
1295 * EQU * LAST ENTRY OF DOMAIN CHECKED.
1296 * EQU *
1297 * MVW KADAT,CLKDA SAVE DEVICE @ OF LAST KITE DEVICE PROCESSED
1298 * IF IN AN AI CHAIN, RESET LAST CHAIN BIT.
1299 * MVWZ KAIC,R7 TEST & RESET AI CHAIN FLAG.
1300 * JZ KABE3
1301 * WAS IN A CHAIN, RESET CHAIN BIT IN LAST ENTRY.
1302 * MVW KAICE,R7
1303 * TBTR (R7,17) RESET LAST CHAIN BIT IN SEQUENCE.
1304 * MVWZ CHCNT,R7 RESET CHAIN COUNT.
1305 * EQU *
1306 * ADD BASIC KITE ENTRY TO CONFIGURATION TABLE FOR CONTROLLER.
1307 * EQU *
1308 * KABE3 EQU *
1309 * MVB CTABU*,R7
1310 * SLL 8,R7
1311 * SRL 8,R7
1312 * CWI CMMNE,R7 TEST FOR ROOM IN TABLE
1313 * JLT KABE2 B IF TABLE NOT FULL
1314 * MVA CMM8,R7 CONFIGURATION TABLE IS FULL
1315 * SVC CMM8,R7
1316 * B PRINT CONFIG TABLE FULL
1317 * KOEMI
1318 * ROOM IN TABLE FOR MORE ENTRIES
1319 * ENTER NEW ENTRY
1320 * KABE2 EQU *
1321 * MVB CTABU*,R2 # ENTRIES IN TABLE
1322 * ABI 1,R2 INCREMENT # ENTRIES
1323 * MVB R2,CTABU* STORE
1324 * MW CTLEL,R2 X 16 = DELTA INTO TABLE
1325 * AW CTABA,R2 START ADDRESS OF NEW ENTRY IN TABLE
1326 * EQU *
1327 * MVA KENT,R3 R2 = MOVE TO ADDRESS
1328 * MVW CTLEL,R7 R3 = MOVE FROM ADDRESS - KITE ENTRY
1329 * MVFN (R3),(R2) R7 = # BYTES TO MOVE
1330 * MOVE NEW ENTRY INTO CONFIG TABLE
1331 * EQU *
1332 * END OF ADD BASIC KITE
1333 * EQU *
1334 * MVW KAEA,R1 R1 = ADDRESS OF LAST ATTACHMENT ENTRY
1335 * B KITEB CONTINUE SEARCH FOR KITE ENTRIES
1336 * EQU *
1337 * KITE BASIC ENTRY
1338 * EQU *
1339 * KITE BASIC ENTRY - 16 BYTES
1340 * KENT EQU X'00' DEVICE ADDRESS
1341 * KEDA DC X'00' DEVICE TYPE
1342 * KEDT DC X'00' CONTROL
1343 * KEB2 DC X'00'
1344 * KEB3 DC X'00'
1345 * KEB4 DC X'00'
1346 * KEB5 DC X'00'
1347 * KEB6 DC X'00'
1348 * KEB7 DC X'00' 1ST DI ADDRESS
1349 * KEB8 DC X'00' '01' IF DI PRESENT
1350 * KEB9 DC X'00' 1ST DO ADDRESS
1351 * KEBA DC X'00' '01' IF DO PRESENT
1352 * KEBB DC X'00'
1353 * KEBC DC X'00'
1354 * KEBD DC X'00'
1355 * KEID1 DC X'00' READ ID
1356 * KEID2 DC X'00' READ ID
1357 * EQU *
1358 * F1STDI DC A(*-*) 1ST DI FLAG
1359 * F1STDO DC A(*-*) 1ST DO FLAG
1360 * EQU *
1361 * CYCLE STEAL STATUS WORD
1362 * EQU *
1363 * STATUS DC A(*-*) CYCLE STEAL STATUS
1364 * EQU *
1365 * EQU *
1366 * EQU *
1367 * EQU *
1368 * RESIDUAL STATUS BLOCK (RSB)
1369 * RSBO DC A(*-*)
1370 * EQU *
1371 * RSB1 DC A(*-*)
1372 * EQU *
1373 * EQU *
1374 * EQU *
1375 * MISC PROGRAM PARAMETERS
1376 * EQU *
1377 * ALIGN WORD
1378 * ASVC DC A(*-*) ADDRESS OF SVC BEFORE INTERRUPT ERROR
1379 * SPEED DC F'100' SPEED FOR TIMER
1380 * EQU *
1381 * PROGRAM FLAGS AND SWITCHES
1382 * EQU *
1383 * INTSW DC A(*-*) INTERRUPT SWITCH
1384 * CSSBPAS DC A(*-*) BYPASS READ OF CYCLE STEAL STATUS
1385 * TERMOK DC A(*-*) TERMINATE OK, DA/TYPE CORRECT
1386 * FLAGO DC X'0000' 'FIRST TIME THRU' FLAG
1387 * EQU *
1388 * EQU *
1389 * READ STATUS SUBROUTINE
1390 * READ THE CYCLE STEAL STATUS WORD FROM KITE
1391 * NOTE: WILL TERMINATE & BEGIN AGAIN.
1392 * EQU *
1393 * EQU *
1394 * READSTAT MVW R7,RSTRA SAVE RETURN ADDRESS
1395 * MVB ACIPL*,DCPPL SAVE FLAG FROM DCP
1396 * MVB CTC00*,ACIPL* RESET CONFIG IPL DEVICE LOAD SWITCH
1397 * SO WILL RETURN ON IPL PASS
1398 * MVWI X'CO01',ADATA* SET UP FOR 'DUMMY TERMINATE' IN BASIC
1399 * MVB ABEGP,ABEG2* MODIFY BRANCH ADDR
1400 * SVC TERM TERMINATE
1401 * EQU * EXIT THE PROGRAM HERE GO BACK TO 'BEGIN'
1402 * THE NEXT ENTRY TO PROGRAM WILL BE DIRECTLY TO 'ENTROPTS' BECAUSE THE

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1403 * BRANCH ADDRESS WAS ALTERED. IT WILL BE RESTORED TO 'RTO1' HOWEVER
1404 * AT 'ENTROPTS'. THIS ALLOWS DCP TO DO NECESSARY HOUSEKEEPING
1405 * FOR THE CONFIGURATION TABLE.
1406 *
1407 *****
1408 ENTROPTS MVWI ABEGO, ABEG2* MODIFY BRANCH ADDR TO ORIGINAL IN BAS
1409 MVE DCPFL, ACIPL* RESTORE FLAG IN DCP
1410 ENTR2 MVWI 1, RTIME* RESET ROUTINE (MAP # AFTER TERMINATE
1411 MVW ADEV#*, R1 CHECK THAT ENTRY IS VALID.
1412 JM TOK IF BIT 0 NOT ON, PRINT ERR MSG
1413 MVA FP058, R7
1414 SVC OUT PRINT 'NO CONFIG ENTRY'
1415 MVWZ FLAGO, R7 CLEAR FIRST TIME FLAG
1416 MVB CTC01, RSNOK SET READ STATUS NOT OK FLAG
1417 RSTRA* RETURN
1418 *-----*
1419 TOK EQU *
1420 * MOVE DEVICE INFO FROM BASIC
1421 MVW ADEVA, R1 FROM ADDRESS (IN BASIC)
1422 MVA DEVA, R2 TO ADDRESS (IN 2ND AUTO)
1423 MVWI TEN, R7 10 BYTES
1424 MVFN (R1), (R2) MOVE DEVICE INFO
1425 MVA INTCB, R7 CONNECT INTERRUPT CONTROL BLOCK
1426 SVC CIBC
1427 BAL RSET, R7 RESET DEVICE
1428 BAL PREPD, R7 PREPARE DEVICE
1429 BAL CSTAT, R7 READ CYCLE STEAL STATUS
1430 MVB DEVA, R7
1431 SLL 8, R7
1432 SRL 8, R7 R7 = DEVICE ADDRESS
1433 SVC RSTRA* RELEASE INTERRUPT CONTROL BLOCK
1434 B RETURN
1435 RSPIN B RSTRA*
1436 RSTRA DC A(*,*) RETURN ADDRESS
1437 *****
1439 *****
1440 * OIO CONTROL BLOCK - FOR DCP
1441 *****
1442 CTRLBLOK DC A(DEVA) 0/1 DEVICE ADDRESS POINTER
1443 DC A(OIOCCERR) 2/3 ERROR RETURN ADDRESS
1444 DATAWORD DC A(*,*) 4/5 VARIABLE (USUALLY DCB ADDRESS)
1445 DC A(*,*) 6/9 VARIABLE DEPENDENT ON OP
1446 LASTSVC DC A(*,*) 8/9 ADDRESS OF LAST SVC
1447 DDCB2 EQU * 2ND WORD IDCB = STATUS WORD FOR KITE
1448 DEVID DC A(*,*) 10/11 SECOND WORD OF IDCB (DEVICE ID)
1449 *****
1450 * NAME - ERROR OIO CC SUBROUTINE (BEFORE INTERRUPT)
1451 * PURPOSE - TO DETERMINE THE OIO CONDITION CODE RETURNED IF NOT 7
1452 * COME HERE ONLY IF CC NOT = 7
1453 *
1454 * CONDITION CODES BEFORE INTERRUPT ARE
1455 * CC = 0 NOT ATTACHED
1456 * CC = 1 BUSY
1457 * CC = 2 BUSY AFTER RESET
1458 * CC = 3 COMMAND REJECT
1459 * CC = 4 NOT USED
1460 * CC = 5 INTERFACE DATA CHECK
1461 * CC = 6 CONTROLLER BUSY
1462 * CC = 7 GOOD
1463 *****
1464 OIOCCERR CPLSR R3 GET INDICATORS
1465 SRL 13, R3 EXTRACT CONDITION CODE
1466 MVW R3, OIOCC SAVE CONDITION CODE
1467 * R3 = OIOCC FOR CE
1468 * R4 = DA & TYPE FOR CE
1469 MVW DEVA, R4
1470 MVA FP09, R7
1471 SVC HTO, R7
1472 MVA FF0, R7
1473 SVC OUT PRINT 'ADDRESS=XX'
1474 MVA CCERRHTE, R7
1475 SVC HTOE
1476 MVA FF02, R7
1477 SVC OUT PRINT 'OIO CC= XXXX'
1478 CWI 0, OIOCC
1479 JNE CCERRREND J
1480 * CC = 0 = DEVICE NOT ATTACHED
1481 MVA FF06, R7
1482 SVC OUT PRINT 'DEVICE NOT ATTACHED'
1483 MVWI 1, RTERMOK RESET SWITCH
1484 CCERRREND J RSTRA* GOTO RETURN FROM READ STATUS SUBROUTINE
1485 *****
1486 * CONTROL BLOCK HTOE
1487 CCERRHTE DC A(2) # BYTES
1488 DC A(OIOCC) FROM ADDRESS (HEX)
1489 DC A(FP02B) TO ADDRESS (EBCDIC)
1490 *****
1491 *****
1492 * NAME - OIO SUBROUTINE
1493 * PURPOSE - TO ISSUE ALL OIO COMMANDS
1494 * CALLING SEQUENCE - (1) SIX ENTR POINTS
1495 * (2) BAL PREPD, R7 PREPARE DEVICE
1496 * (3) BAL READ, R7 READ DEVICE ID
1497 * (4) BAL XRIO, R7 START I/O XMRVCV
1498 * (5) BAL CSTAT, R7 START CYCLE STEAL
1499 * STATUS
1500 * (6) BAL RSET, R7 RESET DEVICE
1501 * RETURN - RETURN TO NEXT SEQUENTIAL INSTRUCTION
1502 *****
1503 * PREPARE DEVICE
1504 PREPD MVW R7, BACK2 SAVE RETURN ADDRESS
1505 MVA LVL, DATAWORD PUT LVL AT PARAMETER LIST
1506 MVA CTRLBLOK, R7 GET PARAMETER LIST ADDRESS
1507 SVC PREPD PREPARE DEVICE
1508 MVA DCB1, DATAWORD
1509 B BACK2* RETURN
1510 *****
1511 * READ ID
1512 READ MVW R7, BACK2 SAVE RETURN ADDRESS
1513 MVWZ DATAWORD, R7 CLEAR MODIFIER
1514 MVA CTRLBLOK, R7 R7=ADDRESS OIO CONTROL BLOCK FOR DCP
1515 SVC RID READ DEVICE ID
1516 B BACK2* RETURN
1517 *****
1519 *****

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1520 * START READ STATUS
1521 *****
1522 CSTAT MVW R7, BACK6 SAVE RETURN ADDRESS
1523 MVWI X'000F', DATAWORD MODIFIER INTO CONTROL BLOCK
1524 MVWZ INTSW, R7 RESET INTERRUPT SWITCH
1525 MVA CTRLBLOK, R7 GET PARAMETER LIST ADDRESS
1526 MVWI 1, CSSBYPAS SET FLAG TO PREVENT CSS READ LOOP
1527 *-----*
1528 SVC RSTAT READ STATUS
1529 *-----*
1530 MVA DCB1, DATAWORD PUT DCB ADDRESS AT PARAMETER LIST
1531 B BACK6* RETURN
1532 *****
1533 *****
1534 *****
1535 * RESET DEVICE
1536 * PENDING INTERRUPTS WILL BE CLEARED, PREP REMAINS THE SAME,
1537 * DATA TERMINAL READY SIGNAL WILL NOT BE DROPPED.
1538 RSET MVW R7, BACK2 SAVE RETURN ADDRESS
1539 MVA DCB1, DATAWORD
1540 MVA CTRLBLOK, R7 GET PARAMETER LIST ADDRESS
1541 *-----*
1542 SVC RESET RESET DEVICE
1543 *-----*
1544 RTRN B BACK2*
1545 *****
1546 *****
1547 BACK2 DC A(*,*) RETURN ADDRESS
1548 BACK6 DC A(*,*) START CYCLE STEAL STATUS RETURN
1549 *****
1550 *****
1551 *****
1552 *****
1553 *****
1554 *****
1555 DCB1 DC A(*,*) CONTROL WORD
1556 DCB1TIME DC A(0) TIMERS
1557 DC A(0) NOT USED
1558 DC A(0) NOT USED
1559 DC A(RSBO) RESIDUAL STATUS BYTE ADDRESS (RSB)
1560 DC A(0) CHAIN ADDRESS
1561 DCB1K DC A(*,*) BYTE COUNT
1562 DC A(*,*) DATA ADDRESS
1563 *-----*
1564 *****
1565 *****
1566 *****
1567 *****
1568 *****
1569 *****
1570 *****
1571 *****
1572 *****
1573 *****
1574 *****
1575 *****
1576 *****
1577 *****
1578 *****
1579 *****
1580 *****
1581 *****
1582 *****
1583 *****
1584 *****
1585 * NAME - INTERRUPT HANDLER
1586 * PURPOSE - TO SAVE THE INTERRUPT ID
1587 * TO SAVE THE INTERRUPT ID
1588 * SAVE INTERRUPT CONDITION CODE
1589 * SAVE LAST SVC ADDRESS
1590 * SET INTERRUPT SWITCH
1591 * EXIT LEVEL
1592 * ADDRESSES SET IN TCB 'INTCB' USED WITH SVC CIBC
1593 * GINT - LABEL OF INTERRUPT ROUTINE
1594 * EINT - LABEL OF ERROR INTERRUPT ROUTINE
1595 * CALLING SEQUENCE - NONE
1596 * ENTERED BY SUPERVISOR FOR ALL INTERRUPTS
1597 * RETURN - SVC EXIT
1598 * RETURNED PARAMETER - LABEL FORMAT
1599 * INTERRUPT SWITCH INTSW X'01'
1600 *****
1601 *****
1602 *****
1603 * COME HERE ONLY IF INTERRUPT CC = 3 AS EXPECTED
1604 GINT CPLSR R1 GET INDICATORS
1605 SRL 13, R1 EXTRACT CONDITION CODE
1606 MVW R1, CC SAVE CONDITION CODE
1607 MVW R7, ISB SAVE INTERRUPT STATUS BYTE/DEV ADDR
1608 MVW R6, ASVC SAVE SVC ADDRESS
1609 MVWI 1, INTSW SET INTERRUPT SWITCH
1610 MVB ISB+1, R7 GET DEV ADDR BYTE ONLY TO R7
1611 SVC EXIT EXIT LEVEL
1612 *****
1613 *****
1614 *****
1615 * PROGRAM STATUS INFORMATION
1616 *****
1617 ISB DC A(*,*) INT STATUS (FROM R7 AND = DA(8-15))
1618 * BIT 00 STATUS AVAILABLE
1619 * BIT 01 COMMAND REJECT
1620 * BIT 02 INCORRECT LENGTH RECORD
1621 * BIT 03 DCB SPECIFICATION CHECK
1622 * BIT 04 STORAGE DATA CHECK
1623 * BIT 05 INVALID STG ADDR
1624 * BIT 06 STG PROTECT CHECK
1625 * BIT 07 INTERFACE CHECK
1626 * BIT 08-15 DEVICE ADDRESS
1627 OIOCC DC A(*,*) OIO CC BEFORE INTERRUPT
1628 CC DC A(*,*) CONDITION CODE AFTER INTERRUPT
1629 *****
1630 *****
1631 *****
1632 * PROCEDURE CLEAR CTE04
1633 * PURPOSE - CLEAR BUFFER CTE04
1634 *****
1635 CLEAR MVW R7, R1 SAVE RETURN ADDRESS
1636 SLL 16, R2 R2 = ZERO = WHAT TO MOVE
1637 MVA CTE04, R3 R3 = WHERE TO PUT IT
1638 MVW CTLEL, R7 R7 = HOW MANY BYTES
1639 PFN R2, (R3) ZERO THE BUFFER

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0027A6 6822 0000 1640 B (R1) RETURN
1641 *****
1642 * END CLEAR PROCEDURE
1643 *****
1644 * PROCEDURE NEXTE
1645 * PURPOSE - ADD NEXT ENTRY TO CONFIG TABLE.
1646 * MOVE CTE04 INTO NEXT AVAILABLE ENTRY OF CONFIG TABLE,
1647 * INCREMENT # OF ENTRIES. ERROR MESSAGE IF NO ROOM.
1648 * INPUT - CTE04 CONTAINS THE NEW ENTRY
1649 *****
1650 NEXTE MVW R7,R6 SAVE RETURN ADDRESS
1651 MVB CTABU*,R1 R1 = # ENTRIES USED
1652 SLL 8,R1
1653 SRL 8,R1 R1 = # ENTRIES USED & NO SIGN BITS
1654 CW CTMNE,R1 TEST FOR ROOM IN TABLE
1655 JLT NEXT2 NEXT2 J TABLE IS NOT FULL
1656 * TABLE IS FULL
1657 MVA CTMB,R7
1658 SVC OUT PRINT 'CONFIG TABLE FULL'
1659 J NEXT4
1660 * ROOM FOR NEW ENTRY
1661 NEXTE AWI 1,R1 INCREMENT # OF ENTRIES
1662 MVB R1,CTABU* STORE # ENTRIES
1663 MW CTLEL,R1 X 16 = DELTA INTO TABLE
1664 AW CTABA,R1 R1 = START ADDRESS OF NEW ENTRY = TO
1665 MVA CTE04,R2 R2 = FROM LOCATION
1666 MVW CTLEL,R7 R7 = # BYTES TO MOVE
1667 MVFN (R2),(R1) MOVE NEW ENTRY INTO CONFIG TABLE
1668 NEXT4 B (R6) RETURN
1669 *****
1670 * END OF NEXTE PROCEDURE
1671 *****
1672 * OEMIA MAIN ROUTINE
1673 *****
1674 KOEMI EQU *
1675 * ADD BASIC OEMI ENTRIES
1676 *****
1677 OEMIA MVA OEMOU,R7
1678 SVC OUTN PRINT 'OEMI?YES=01,NO=00' '382B'
1679 MVB OEMIN,R7
1680 JZ KOEMC J NO MORE OEMI DEVICES TO ENTER
1681 * ADD A BASIC OEMI ENTRY TO TABLE
1682 BAL CLEAR,R7 CLEAR CTE04
1683 MVA CTD20,R7 PRINT 'ADDRESS', BYTE INTO CTE04 '3839'
1684 SVC OUTN
1685 MVB CDTA3,CTE04+ONE DEVICE TYPE A3
1686 BAL NEXTE,R7 ENTER ENTRY INTO CONFIG TABLE
1687 * SORT & WRITE CONFIGURATION TABLE
1688 MVW OLYRA,AOLRA* SAVE OVERLAY RETURN @ IN BASIC @1836
1689 MVA OEMI5,ADSA* SET RETURN ADDRESS IN BASIC @182E
1690 B ADSA* B TO SORT & WRITE IN BASIC @182A
1691 * WILL RETURN HERE AFTER THIS OVERLAY IS BROUGHT IN AGAIN
1692 OEMI5 EQU *
1693 MVW AOLRA*,OLYRA RESTORE OVERLAY RETURN ADDRESS
1694 J OEMIA SEE IF ANY MORE ENTRIES
1695 ***** END ADD BASIC OEMIA *****
1696 *****
1697 * AUTOMATIC CONFIG FOR OEMI
1698 *****
1699 KOEMC MVW CTABA,R1 ADDRESS TABLE START
1700 KOTEN AWI X'0010',R1 INCREMENT TO 1ST OR NEXT ENTRY
1701 CW CTABF,R1 R1 = ADDRESS OF TABLE ENTRY
1702 BGT FLTPT B IF PAST LAST ENTRY
1703 KOTES MVB (R1),R2 R2 = DEVICE TYPE
1704 CBI X'A3',R2
1705 JNE KOTEN J CONTINUE SEARCH
1706 * FOUND AN OEMIA
1707 KOFND MVB CDTA3,KEDT SET DEVICE TYPE
1708 *
1709 MVW (R1),ADEVA* SET DEVICE ADD & TYPE FOR TERM TO DCP
1710 MVW R1,R1SAV SAVE R1
1711 *
1712 BAL READSTAT,R7 GO READ STATUS
1713 *
1714 MVW R1SAV,R1 RESTORE R1
1715 RSNOK,R7
1716 JNZ KOTEN J COULDN'T READ STATUS ON THAT ENTRY
1717 * STATUS READ SUCCESSFULLY
1718 AWI 4,R1,R5 R5 = ADDRESS OF KITE ENTRY BYTE 4
1719 MVA IDCW2,R6 R6 = ADDRESS OF STATUS WORD
1720 TBT (R6,5) TEST FOR 8 ADDRESSES
1721 JOFF KOTF4
1722 MVWI 8,R4 COVERS 8 ADDRESSES
1723 TBTS (R5,5) SET BIT 10
1724 J KOIMB
1725 KOTF4 TBT (R6,6) TEST FOR 4 ADDRESSES
1726 JOFF KOIMB 16 ADDRESSES 00
1727 MVWI 4,R4 COVERS 4 ADDRESSES
1728 TBTS (R5,6) SET BIT 01
1729 *
1730 KOIMB TBTS (R5,7) DIAG INT MASK ALWAYS ON - SET BIT
1731 *
1732 TBT (R6,4) TEST PARITY CK/GEN
1733 JOFF KOBEB3 J NOT SELECTED
1734 TBTS (R5,4) PARITY CK/GEN SELECTED - SET BIT
1735 KOBEB3 EQU *
1736 *****
1737 * END OF MODIFY ONE OEMIA ENTRY
1738 *****
1739 B KOTEN CONTINUE SEARCH FOR OTHER OEMIA ENTRIES
1740 *****
1741 * FLOATING POINT
1742 *****
1743 FLTPT EQU *
1744 MVA MHDB,R7
1745 SVC OUTN PRINT 'FLOATING POINT?YES=01,NO'
1746 CB DATO1,FLOAT FLOATING POINT?
1747 BNE OSPRE NO, GO TO OSPRE
1748 FLPNT MVBI X'10',R1 16 BYTE PER ENTRY

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002888 4324 3002 1757 MVWI X'3002',R3 # ENTRIES
00288C 89C1 1758 MB (R3),R1 NO ENTRIES TIMES HEX 16
00288E 7921 3000 1759 AWI X'3000',R1 LAST ENTRY IN TABLE
002892 0110 1760 ABI X'10',R1 START NXT AVAIL ENTRY
002894 0101 1761 ABI 1,R1 BYTE 1
002896 8060 2381 1762 MVB DAT3D,(R1) MOVES 3D TO BYTE 1
00289A C2C0 1763 MVB (R3),R2 #ENTRIES TO R2
00289C 7A41 0001 1764 AWI 1,R2 INC. R2
0028A0 C2C8 1765 MVB R2,(R3) INCRMTD # ENTRIES BACK TO (R3)
1766 *****
1767 *****
1768 *****
1769 * OSPREY
1770 *DAA0 4000 0000 0000 0000 0000 0000 C010(BOTH DI)
1771 *DAA0 4000 0000 0000 0000 0000 0000 C018(BOTH DO)
1772 *
1773 *LAST DO HAS CHAIN BIT OFF
1774 *
1775 *****
1776 OSPRE EQU *
1777 MVWI X'3011',R0
1778 MVB (R0),R1 MOVE DEVICE TYPE IN R1
1779 CBI X'A01',R1 COMPARE AO TO R1
1780 * YES OSPREY
1781 SCAN ABI X'10',R0 SCANNING
1782 CWI X'3FF1',R0 ALL SCANNED?
1783 JGE FIN YES. FINISHED
1784 B OSCAN CONTINUE SCANNING
1785 OSPR1 TBTS (R0,9) SET CHAIN BIT ENTRY 1
1786 ABI 16,R0 GETS TO NEXT ENTRY BYTE1
1787 MVB (R0),R2 MOVES TYPE INTO R2
1788 CBI X'A01',R2 COMPARES AO TO TYPE
1789 J OSPR2 IF EQUAL CONTINUES
1790 OSERR OSERR IF NOT = WE HAVE AN ERROR
1791 OSPR2 TBTS (R0,9) SET CHAIN BIT ENTRY 2
1792 ABI 16,R0 GETS TO NEXT ENTRY BYTE1
1793 MVB (R0),R2 MOVES TYPE INTO R2
1794 CBI X'A01',R2 COMPARES AO TO TYPE
1795 J OSPR3 IF EQUAL CONTINUES
1796 OSERR OSERR IF NOT = WE HAVE AN ERROR
1797 OSPR3 TBTS (R0,9) SET CHAIN BIT ENTRY 3
1798 ABI 16,R0 GETS TO LAST ENTRY BYTE1
1799 MVB (R0),R2 MOVES TYPE INTO R2
1800 CBI X'A01',R2 COMPARES AO TO TYPE
1801 JE SCAN J OSPREY DOES HAVE 4 ENTRIES
1802 OSERR MVA OSPRE,R7
1803 SVC OUT PRINT 'OSPREY ERROR'
1804 J SCAN CK NEXT ENTRY
1805 *
1806 *****
1807 FIN B OLYRA* RETURN TO BASIC
1808 *****
1809 END BEGIN END OF PROGRAM
1810 *****
1811 * END OF 2ND AUTO CONFIG OVERLAY
1812 *****
1813 *****

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
352	ABEGP	ABSOLUTE. HEX VALUE(00001822)
353	ABEGQ	ABSOLUTE. HEX VALUE(00001826)
351	ABEG2	ADDRESS. HEX LOCATION(00001D92) IN CSECT(038F3)) LENGTH(2)
358	ACIPL	ADDRESS. HEX LOCATION(00001D9C) IN CSECT(038F3)) LENGTH(2)
348	ADATA	ADDRESS. HEX LOCATION(00001D8C) IN CSECT(038F3)) LENGTH(2)
350	ADEV#	ADDRESS. HEX LOCATION(00001D90) IN CSECT(038F3)) LENGTH(2)
349	ADEVA	ADDRESS. HEX LOCATION(00001D8E) IN CSECT(038F3)) LENGTH(2)
355	ADSAR	ADDRESS. HEX LOCATION(00001D96) IN CSECT(038F3)) LENGTH(2)
354	ADSAW	ADDRESS. HEX LOCATION(00001D94) IN CSECT(038F3)) LENGTH(2)
357	AOLRA	ADDRESS. HEX LOCATION(00001D9A) IN CSECT(038F3)) LENGTH(2)
347	ARTNE	ADDRESS. HEX LOCATION(00001D8A) IN CSECT(038F3)) LENGTH(2)
1378	ASVC	ADDRESS. HEX LOCATION(00002614) IN CSECT(038F3)) LENGTH(2)
1547	BACK2	ADDRESS. HEX LOCATION(0000274A) IN CSECT(038F3)) LENGTH(2)
1548	BACK6	ADDRESS. HEX LOCATION(0000274C) IN CSECT(038F3)) LENGTH(2)
38	BEGIN	ADDRESS. HEX LOCATION(00001D70) IN CSECT(038F3)) LENGTH(4)
565	BEGIN1	ADDRESS. HEX LOCATION(00001EF2) IN CSECT(038F3)) LENGTH(2)
399	CBPA4	ADDRESS. HEX LOCATION(00001DC8) IN CSECT(038F3)) LENGTH(4)
1628	CC	ADDRESS. HEX LOCATION(00002796) IN CSECT(038F3)) LENGTH(2)
400	CCERR	ADDRESS. HEX LOCATION(00001DCA) IN CSECT(038F3)) LENGTH(2)
1483	CCERREND	ADDRESS. HEX LOCATION(000026DE) IN CSECT(038F3)) LENGTH(2)
1486	CCERRHTE	ADDRESS. HEX LOCATION(000026E0) IN CSECT(038F3)) LENGTH(2)
377	CDTA3	ADDRESS. HEX LOCATION(00001DB0) IN CSECT(038F3)) LENGTH(1)
378	CDTA4	ADDRESS. HEX LOCATION(00001DB1) IN CSECT(038F3)) LENGTH(1)
379	CDTA8	ADDRESS. HEX LOCATION(00001DB2) IN CSECT(038F3)) LENGTH(1)
380	CDTA9	ADDRESS. HEX LOCATION(00001DB3) IN CSECT(038F3)) LENGTH(1)
381	CDTB0	ADDRESS. HEX LOCATION(00001DB4) IN CSECT(038F3)) LENGTH(1)
382	CDTB4	ADDRESS. HEX LOCATION(00001DB5) IN CSECT(038F3)) LENGTH(1)
375	CDT3D	ADDRESS. HEX LOCATION(00001DAE) IN CSECT(038F3)) LENGTH(1)
376	CDT50	ADDRESS. HEX LOCATION(00001DAF) IN CSECT(038F3)) LENGTH(1)
939	CDVRA	ADDRESS. HEX LOCATION(0000227C) IN CSECT(038F3)) LENGTH(2)
940	CDVR1	ADDRESS. HEX LOCATION(0000227E) IN CSECT(038F3)) LENGTH(2)
408	CDVT1	ADDRESS. HEX LOCATION(00001DD4) IN CSECT(038F3)) LENGTH(4)
405	CHCNT	ADDRESS. HEX LOCATION(00001DD0) IN CSECT(038F3)) LENGTH(2)
87	CICB	ABSOLUTE. HEX VALUE(00000014)
1635	CLEAR	ADDRESS. HEX LOCATION(00002798) IN CSECT(038F3)) LENGTH(2)
602	CSRCH	ADDRESS. HEX LOCATION(00001EFA) IN CSECT(038F3)) LENGTH(2)
1384	CSSBYPAS	ADDRESS. HEX LOCATION(0000261A) IN CSECT(038F3)) LENGTH(2)
1522	CSTAT	ADDRESS. HEX LOCATION(00002712) IN CSECT(038F3)) LENGTH(4)
433	CTABA	ADDRESS. HEX LOCATION(00001DFA) IN CSECT(038F3)) LENGTH(2)
439	CTABF	ADDRESS. HEX LOCATION(00001E06) IN CSECT(038F3)) LENGTH(2)
434	CTABU	ADDRESS. HEX LOCATION(00001DFC) IN CSECT(038F3)) LENGTH(2)
361	CTC00	ADDRESS. HEX LOCATION(00001DA0) IN CSECT(038F3)) LENGTH(1)
362	CTC01	ADDRESS. HEX LOCATION(00001DA1) IN CSECT(038F3)) LENGTH(1)
363	CTC02	ADDRESS. HEX LOCATION(00001DA2) IN CSECT(038F3)) LENGTH(1)
364	CTC03	ADDRESS. HEX LOCATION(00001DA3) IN CSECT(038F3)) LENGTH(1)
365	CTC04	ADDRESS. HEX LOCATION(00001DA4) IN CSECT(038F3)) LENGTH(1)
366	CTC05	ADDRESS. HEX LOCATION(00001DA5) IN CSECT(038F3)) LENGTH(1)
367	CTC06	ADDRESS. HEX LOCATION(00001DA6) IN CSECT(038F3)) LENGTH(1)
368	CTC07	ADDRESS. HEX LOCATION(00001DA7) IN CSECT(038F3)) LENGTH(1)
369	CTC08	ADDRESS. HEX LOCATION(00001DA8) IN CSECT(038F3)) LENGTH(1)
370	CTC10	ADDRESS. HEX LOCATION(00001DA9) IN CSECT(038F3)) LENGTH(1)
373	CTC18	ADDRESS. HEX LOCATION(00001DAC) IN CSECT(038F3)) LENGTH(1)
1044	CTD20	ADDRESS. HEX LOCATION(0000234C) IN CSECT(038F3)) LENGTH(2)
1050	CTD21	ADDRESS. HEX LOCATION(00002356) IN CSECT(038F3)) LENGTH(7)
1055	CTE04	ADDRESS. HEX LOCATION(0000235E) IN CSECT(038F3)) LENGTH(2)
654	CTICC	ADDRESS. HEX LOCATION(00001F67) IN CSECT(038F3)) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
642	CTICT	ADDRESS. HEX LOCATION(00001F56) IN CSECT(038F3)) LENGTH(2)
652	CTIDA	ADDRESS. HEX LOCATION(00001F65) IN CSECT(038F3)) LENGTH(1)
651	CTIDD	ADDRESS. HEX LOCATION(00001F64) IN CSECT(038F3)) LENGTH(1)
657	CTIDF	ADDRESS. HEX LOCATION(00001F6A) IN CSECT(038F3)) LENGTH(2)
656	CTIID	ADDRESS. HEX LOCATION(00001F68) IN CSECT(038F3)) LENGTH(2)
641	CTIT2	ADDRESS. HEX LOCATION(00001F54) IN CSECT(038F3)) LENGTH(2)
644	CTI04	ADDRESS. HEX LOCATION(00001F58) IN CSECT(038F3)) LENGTH(2)
649	CTI05	ADDRESS. HEX LOCATION(00001F62) IN CSECT(038F3)) LENGTH(2)
666	CTI16	ADDRESS. HEX LOCATION(00001F74) IN CSECT(038F3)) LENGTH(26)
667	CTI17	ADDRESS. HEX LOCATION(00001F8E) IN CSECT(038F3)) LENGTH(6)
669	CTI18	ADDRESS. HEX LOCATION(00001F9A) IN CSECT(038F3)) LENGTH(2)
672	CTI20	ADDRESS. HEX LOCATION(00001F9E) IN CSECT(038F3)) LENGTH(2)
673	CTI30	ADDRESS. HEX LOCATION(00001FA0) IN CSECT(038F3)) LENGTH(2)
674	CTI35	ADDRESS. HEX LOCATION(00001FA2) IN CSECT(038F3)) LENGTH(2)
675	CTI40	ADDRESS. HEX LOCATION(00001FA4) IN CSECT(038F3)) LENGTH(2)
676	CTI45	ADDRESS. HEX LOCATION(00001FA6) IN CSECT(038F3)) LENGTH(2)
677	CTI50	ADDRESS. HEX LOCATION(00001FA8) IN CSECT(038F3)) LENGTH(2)
678	CTI55	ADDRESS. HEX LOCATION(00001FAA) IN CSECT(038F3)) LENGTH(2)
431	CTLEL	ADDRESS. HEX LOCATION(00001DF6) IN CSECT(038F3)) LENGTH(2)
440	CTMNE	ADDRESS. HEX LOCATION(00001E08) IN CSECT(038F3)) LENGTH(1)
478	CTM8	ADDRESS. HEX LOCATION(00001E1C) IN CSECT(038F3)) LENGTH(2)
482	CTM8A	ADDRESS. HEX LOCATION(00001E22) IN CSECT(038F3)) LENGTH(27)
1442	CTRLBLOK	ADDRESS. HEX LOCATION(0000269A) IN CSECT(038F3)) LENGTH(2)
426	CTRL6	ADDRESS. HEX LOCATION(00001DF2) IN CSECT(038F3)) LENGTH(4)
388	CTSA	ADDRESS. HEX LOCATION(00001DBC) IN CSECT(038F3)) LENGTH(1)
389	CTSA2	ADDRESS. HEX LOCATION(00001DBD) IN CSECT(038F3)) LENGTH(1)
390	CTSEA	ADDRESS. HEX LOCATION(00001DBE) IN CSECT(038F3)) LENGTH(2)
391	CTSEF	ADDRESS. HEX LOCATION(00001DC0) IN CSECT(038F3)) LENGTH(1)
1112	CUCKO	ADDRESS. HEX LOCATION(000023D8) IN CSECT(038F3)) LENGTH(1)
1114	CUCKU	ADDRESS. HEX LOCATION(000023DC) IN CSECT(038F3)) LENGTH(2)
1120	CUK00	ADDRESS. HEX LOCATION(000023EE) IN CSECT(038F3)) LENGTH(2)
607	CXS02	ADDRESS. HEX LOCATION(00001F0E) IN CSECT(038F3)) LENGTH(4)
609	CXS03	ADDRESS. HEX LOCATION(00001F14) IN CSECT(038F3)) LENGTH(4)
616	CXS04	ADDRESS. HEX LOCATION(00001F2C) IN CSECT(038F3)) LENGTH(6)
625	CXS05	ADDRESS. HEX LOCATION(00001F44) IN CSECT(038F3)) LENGTH(6)
628	CXS08	ADDRESS. HEX LOCATION(00001F4C) IN CSECT(038F3)) LENGTH(4)
687	CYI05	ADDRESS. HEX LOCATION(00001FB6) IN CSECT(038F3)) LENGTH(6)
701	CYI10	ADDRESS. HEX LOCATION(00001FE2) IN CSECT(038F3)) LENGTH(2)
708	CYI20	ADDRESS. HEX LOCATION(00001FEC) IN CSECT(038F3)) LENGTH(6)
716	CYI22	ADDRESS. HEX LOCATION(00002006) IN CSECT(038F3)) LENGTH(2)
723	CYI25	ADDRESS. HEX LOCATION(00002018) IN CSECT(038F3)) LENGTH(6)
727	CYI30	ADDRESS. HEX LOCATION(0000202C) IN CSECT(038F3)) LENGTH(4)
733	CYI35	ADDRESS. HEX LOCATION(0000203E) IN CSECT(038F3)) LENGTH(6)
736	CYI40	ADDRESS. HEX LOCATION(0000204C) IN CSECT(038F3)) LENGTH(2)
743	CYI45	ADDRESS. HEX LOCATION(00002060) IN CSECT(038F3)) LENGTH(6)
746	CYI50	ADDRESS. HEX LOCATION(0000206E) IN CSECT(038F3)) LENGTH(4)
752	CYI55	ADDRESS. HEX LOCATION(00002080) IN CSECT(038F3)) LENGTH(6)
756	CYI60	ADDRESS. HEX LOCATION(0000208E) IN CSECT(038F3)) LENGTH(1)
769	CYI70	ADDRESS. HEX LOCATION(0000208E) IN CSECT(038F3)) LENGTH(4)
496	C3828	ADDRESS. HEX LOCATION(00001E4C) IN CSECT(038F3)) LENGTH(22)
1069	DATAA	ADDRESS. HEX LOCATION(00002386) IN CSECT(038F3)) LENGTH(1)
1444	DATAWORD	ADDRESS. HEX LOCATION(0000269E) IN CSECT(038F3)) LENGTH(2)
1057	DATA2	ADDRESS. HEX LOCATION(00002384) IN CSECT(038F3)) LENGTH(1)
1071	DATBA	ADDRESS. HEX LOCATION(00002388) IN CSECT(038F3)) LENGTH(1)
1070	DATB2	ADDRESS. HEX LOCATION(00002387) IN CSECT(038F3)) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1072	DATCA	ADDRESS. HEX LOCATION (00002389) IN CSECT (038F3) LENGTH (1)
1062	DAT01	ADDRESS. HEX LOCATION (0000237F) IN CSECT (038F3) LENGTH (1)
1064	DAT3D	ADDRESS. HEX LOCATION (00002381) IN CSECT (038F3) LENGTH (1)
1555	DCB1	ADDRESS. HEX LOCATION (0000274E) IN CSECT (038F3) LENGTH (2)
396	DCPFL	ADDRESS. HEX LOCATION (00001DC5) IN CSECT (038F3) LENGTH (1)
1081	DEC25	ADDRESS. HEX LOCATION (0000238E) IN CSECT (038F3) LENGTH (2)
1097	DEC27	ADDRESS. HEX LOCATION (000023B0) IN CSECT (038F3) LENGTH (6)
1099	DEC28	ADDRESS. HEX LOCATION (000023B8) IN CSECT (038F3) LENGTH (6)
1101	DEC29	ADDRESS. HEX LOCATION (000023C0) IN CSECT (038F3) LENGTH (6)
1103	DEC30	ADDRESS. HEX LOCATION (000023C8) IN CSECT (038F3) LENGTH (6)
1105	DEC31	ADDRESS. HEX LOCATION (000023D0) IN CSECT (038F3) LENGTH (6)
949	DET15	ADDRESS. HEX LOCATION (0000228C) IN CSECT (038F3) LENGTH (1)
966	DET17	ADDRESS. HEX LOCATION (000022B2) IN CSECT (038F3) LENGTH (1)
970	DET18	ADDRESS. HEX LOCATION (000022BA) IN CSECT (038F3) LENGTH (1)
984	DET20	ADDRESS. HEX LOCATION (000022DA) IN CSECT (038F3) LENGTH (1)
991	DET21	ADDRESS. HEX LOCATION (000022EA) IN CSECT (038F3) LENGTH (1)
47	DEVAD	ADDRESS. HEX LOCATION (00001D7E) IN CSECT (038F3) LENGTH (1)
787	DNTAB	ADDRESS. HEX LOCATION (00002092) IN CSECT (038F3) LENGTH (2)
927	DVTNA	ADDRESS. HEX LOCATION (00002254) IN CSECT (038F3) LENGTH (2)
934	DVTUN	ADDRESS. HEX LOCATION (00002274) IN CSECT (038F3) LENGTH (8)
147	EIGHT	ABSOLUTE. HEX VALUE (00000008)
1600	EINT	ADDRESS. HEX LOCATION (00002776) IN CSECT (038F3) LENGTH (1)
1408	ENTROPTS	ADDRESS. HEX LOCATION (0000263E) IN CSECT (038F3) LENGTH (6)
73	EXIT	ABSOLUTE. HEX VALUE (00000006)
502	FF02	ADDRESS. HEX LOCATION (00001E66) IN CSECT (038F3) LENGTH (2)
506	FF02A	ADDRESS. HEX LOCATION (00001E6C) IN CSECT (038F3) LENGTH (20)
507	FF02B	ADDRESS. HEX LOCATION (00001E80) IN CSECT (038F3) LENGTH (4)
517	FF03A	ADDRESS. HEX LOCATION (00001E8E) IN CSECT (038F3) LENGTH (8)
528	FF05A	ADDRESS. HEX LOCATION (00001EA4) IN CSECT (038F3) LENGTH (22)
524	FF058	ADDRESS. HEX LOCATION (00001E9E) IN CSECT (038F3) LENGTH (2)
534	FF06	ADDRESS. HEX LOCATION (00001EBE) IN CSECT (038F3) LENGTH (2)
538	FF06A	ADDRESS. HEX LOCATION (00001EC4) IN CSECT (038F3) LENGTH (19)
542	FF09	ADDRESS. HEX LOCATION (00001ED8) IN CSECT (038F3) LENGTH (2)
549	FF10	ADDRESS. HEX LOCATION (00001EE0) IN CSECT (038F3) LENGTH (2)
553	FF10A	ADDRESS. HEX LOCATION (00001EE6) IN CSECT (038F3) LENGTH (8)
554	FF10B	ADDRESS. HEX LOCATION (00001EEE) IN CSECT (038F3) LENGTH (2)
1808	FIN	ADDRESS. HEX LOCATION (000028E4) IN CSECT (038F3) LENGTH (4)
1386	FLAGO	ADDRESS. HEX LOCATION (0000261E) IN CSECT (038F3) LENGTH (2)
1000	FLOAT	ADDRESS. HEX LOCATION (000022F3) IN CSECT (038F3) LENGTH (1)
1751	PLTPT	ADDRESS. HEX LOCATION (00002876) IN CSECT (038F3) LENGTH (1)
153	PORTN	ABSOLUTE. HEX VALUE (0000000E)
143	FOUR	ABSOLUTE. HEX VALUE (00000004)
1358	F1STDI	ADDRESS. HEX LOCATION (0000260A) IN CSECT (038F3) LENGTH (2)
1359	F1STDO	ADDRESS. HEX LOCATION (0000260C) IN CSECT (038F3) LENGTH (2)
1604	GINT	ADDRESS. HEX LOCATION (00002776) IN CSECT (038F3) LENGTH (2)
93	HTOE	ABSOLUTE. HEX VALUE (0000001A)
1447	IDCBW2	ADDRESS. HEX LOCATION (000026A4) IN CSECT (038F3) LENGTH (1)
69	IDLE	ABSOLUTE. HEX VALUE (00000002)
1578	INTCB	ADDRESS. HEX LOCATION (0000276E) IN CSECT (038F3) LENGTH (2)
1383	INTSW	ADDRESS. HEX LOCATION (00002618) IN CSECT (038F3) LENGTH (2)
1617	ISB	ADDRESS. HEX LOCATION (00002792) IN CSECT (038F3) LENGTH (2)
1320	KABE2	ADDRESS. HEX LOCATION (000025D6) IN CSECT (038F3) LENGTH (1)
1308	KABE3	ADDRESS. HEX LOCATION (000025BE) IN CSECT (038F3) LENGTH (1)
415	KADA	ADDRESS. HEX LOCATION (00001DE2) IN CSECT (038F3) LENGTH (1)
417	KADAL	ADDRESS. HEX LOCATION (00001DE4) IN CSECT (038F3) LENGTH (2)
418	KADAT	ADDRESS. HEX LOCATION (00001DE6) IN CSECT (038F3) LENGTH (2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
416	KADA2	ADDRESS. HEX LOCATION (00001DE3) IN CSECT (038F3) LENGTH (1)
413	KAEA	ADDRESS. HEX LOCATION (00001DDE) IN CSECT (038F3) LENGTH (2)
419	KAIC	ADDRESS. HEX LOCATION (00001DE8) IN CSECT (038F3) LENGTH (2)
420	KAICE	ADDRESS. HEX LOCATION (00001DEA) IN CSECT (038F3) LENGTH (2)
1223	KCKAO	ADDRESS. HEX LOCATION (000024E6) IN CSECT (038F3) LENGTH (1)
1232	KCKA2	ADDRESS. HEX LOCATION (000024F6) IN CSECT (038F3) LENGTH (6)
1238	KCKDI	ADDRESS. HEX LOCATION (00002500) IN CSECT (038F3) LENGTH (6)
1262	KCKDO	ADDRESS. HEX LOCATION (0000254C) IN CSECT (038F3) LENGTH (6)
1248	KCKD2	ADDRESS. HEX LOCATION (0000251E) IN CSECT (038F3) LENGTH (6)
1254	KCKD3	ADDRESS. HEX LOCATION (00002532) IN CSECT (038F3) LENGTH (6)
1189	KDIMB	ADDRESS. HEX LOCATION (0000248C) IN CSECT (038F3) LENGTH (4)
414	KDOMA	ADDRESS. HEX LOCATION (00001DE0) IN CSECT (038F3) LENGTH (2)
1294	KDSR	ADDRESS. HEX LOCATION (000025A8) IN CSECT (038F3) LENGTH (1)
1276	KDWF	ADDRESS. HEX LOCATION (0000257A) IN CSECT (038F3) LENGTH (1)
1343	KEB2	ADDRESS. HEX LOCATION (000025FC) IN CSECT (038F3) LENGTH (1)
1344	KEB3	ADDRESS. HEX LOCATION (000025FD) IN CSECT (038F3) LENGTH (1)
1345	KEB4	ADDRESS. HEX LOCATION (000025FE) IN CSECT (038F3) LENGTH (1)
1347	KEP6	ADDRESS. HEX LOCATION (00002600) IN CSECT (038F3) LENGTH (1)
1348	KEB7	ADDRESS. HEX LOCATION (00002601) IN CSECT (038F3) LENGTH (1)
1349	KEB8	ADDRESS. HEX LOCATION (00002602) IN CSECT (038F3) LENGTH (1)
1350	KEB9	ADDRESS. HEX LOCATION (00002603) IN CSECT (038F3) LENGTH (1)
1341	KEDA	ADDRESS. HEX LOCATION (000025FA) IN CSECT (038F3) LENGTH (1)
1342	KEDT	ADDRESS. HEX LOCATION (000025FB) IN CSECT (038F3) LENGTH (1)
1340	KENT	ADDRESS. HEX LOCATION (000025FA) IN CSECT (038F3) LENGTH (1)
1278	KFNE	ADDRESS. HEX LOCATION (0000257A) IN CSECT (038F3) LENGTH (6)
1144	KFOND	ADDRESS. HEX LOCATION (0000241A) IN CSECT (038F3) LENGTH (1)
1128	KITE	ADDRESS. HEX LOCATION (000023F4) IN CSECT (038F3) LENGTH (1)
1130	KITEN	ADDRESS. HEX LOCATION (000023F8) IN CSECT (038F3) LENGTH (4)
411	KLKDA	ADDRESS. HEX LOCATION (00001DDC) IN CSECT (038F3) LENGTH (1)
1199	KLOOP	ADDRESS. HEX LOCATION (000024A2) IN CSECT (038F3) LENGTH (6)
1208	KLOO2	ADDRESS. HEX LOCATION (000024BC) IN CSECT (038F3) LENGTH (6)
1213	KLOO4	ADDRESS. HEX LOCATION (000024CC) IN CSECT (038F3) LENGTH (4)
1214	KLOO6	ADDRESS. HEX LOCATION (000024D0) IN CSECT (038F3) LENGTH (4)
1291	KNOT	ADDRESS. HEX LOCATION (000025A8) IN CSECT (038F3) LENGTH (1)
1741	KOBE3	ADDRESS. HEX LOCATION (00002872) IN CSECT (038F3) LENGTH (1)
1705	KOEMC	ADDRESS. HEX LOCATION (00002818) IN CSECT (038F3) LENGTH (4)
1678	KOEMI	ADDRESS. HEX LOCATION (000027E0) IN CSECT (038F3) LENGTH (1)
1736	KOIMB	ADDRESS. HEX LOCATION (0000286A) IN CSECT (038F3) LENGTH (2)
1706	KOTEN	ADDRESS. HEX LOCATION (0000281C) IN CSECT (038F3) LENGTH (4)
1731	KOTF4	ADDRESS. HEX LOCATION (00002860) IN CSECT (038F3) LENGTH (2)
1183	KTF4	ADDRESS. HEX LOCATION (00002486) IN CSECT (038F3) LENGTH (1)
360	LVL	ADDRESS. HEX LOCATION (00001D9E) IN CSECT (038F3) LENGTH (2)
1014	MESH	ADDRESS. HEX LOCATION (00002300) IN CSECT (038F3) LENGTH (29)
1021	MHDB	ADDRESS. HEX LOCATION (00002320) IN CSECT (038F3) LENGTH (2)
1652	NEXTE	ADDRESS. HEX LOCATION (000027AA) IN CSECT (038F3) LENGTH (2)
1663	NEXT2	ADDRESS. HEX LOCATION (000027C2) IN CSECT (038F3) LENGTH (4)
1670	NEXT4	ADDRESS. HEX LOCATION (000027DC) IN CSECT (038F3) LENGTH (4)
1682	OEMIA	ADDRESS. HEX LOCATION (000027E0) IN CSECT (038F3) LENGTH (4)
1038	OEMIN	ADDRESS. HEX LOCATION (00002348) IN CSECT (038F3) LENGTH (1)
1697	OEMIS	ADDRESS. HEX LOCATION (00002810) IN CSECT (038F3) LENGTH (1)
1034	OEMOU	ADDRESS. HEX LOCATION (00002334) IN CSECT (038F3) LENGTH (19)
1028	OEMQU	ADDRESS. HEX LOCATION (0000232A) IN CSECT (038F3) LENGTH (2)
1627	OIOCC	ADDRESS. HEX LOCATION (00002794) IN CSECT (038F3) LENGTH (2)
1464	OIOCCERR	ADDRESS. HEX LOCATION (000026A6) IN CSECT (038F3) LENGTH (2)
345	OLYRA	ADDRESS. HEX LOCATION (00001D88) IN CSECT (038F3) LENGTH (2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
140	ONE	ABSOLUTE. HEX VALUE (00000001) 975 1690
1778	OSCAN	ADDRESS. HEX LOCATION (000028A6) IN CSECT (038F3) LENGTH(2) 1784
1802	OSERR	ADDRESS. HEX LOCATION (000028DC) IN CSECT (038F3) LENGTH(4) 1790 1796
492	OSPER	ADDRESS. HEX LOCATION (00001E46) IN CSECT (038F3) LENGTH(2) 1802
1776	OSPRE	ADDRESS. HEX LOCATION (000028A2) IN CSECT (038F3) LENGTH(1) 1755
1785	OSPR1	ADDRESS. HEX LOCATION (000028BA) IN CSECT (038F3) LENGTH(2) 1780
1791	OSPR2	ADDRESS. HEX LOCATION (000028C6) IN CSECT (038F3) LENGTH(2) 1787
1797	OSPR3	ADDRESS. HEX LOCATION (000028D2) IN CSECT (038F3) LENGTH(2) 1795
67	OUT	ABSOLUTE. HEX VALUE (00000000) 1316 1414 1472 1476 1481 1660 1803
68	OUTIN	ABSOLUTE. HEX VALUE (00000001) 1683 1689 1753
3	O38F3	CSECT. START (00001D70) LENGTH (2936) ESDID (1) 3
79	PREP	ABSOLUTE. HEX VALUE (0000000C) 1507
1504	PREPD	ADDRESS. HEX LOCATION (000026E6) IN CSECT (038F3) LENGTH(4) 1428
1394	READSTAT	ADDRESS. HEX LOCATION (00002620) IN CSECT (038F3) LENGTH(4) 1179 1718
75	RESET	ABSOLUTE. HEX VALUE (00000008) 713 1543
86	RICB	ABSOLUTE. HEX VALUE (00000013) 1433
76	RID	ABSOLUTE. HEX VALUE (00000009) 692 1515
1369	RSB0	ADDRESS. HEX LOCATION (00002610) IN CSECT (038F3) LENGTH(2) 1559
1539	RSET	ADDRESS. HEX LOCATION (00002736) IN CSECT (038F3) LENGTH(4) 1427
1434	RSFIN	ADDRESS. HEX LOCATION (00002694) IN CSECT (038F3) LENGTH(4) 1483
395	RSNOK	ADDRESS. HEX LOCATION (00001DC4) IN CSECT (038F3) LENGTH(1) 1173 1416 1721
82	RSTAT	ABSOLUTE. HEX VALUE (0000000F) 1528
1436	RSTRA	ADDRESS. HEX LOCATION (00002698) IN CSECT (038F3) LENGTH(2) 1394 1417 1434
0	R0	REGISTER. HEX VALUE (00000000) 1777 1778 1781 1782 1785 1786 1787 1791 1792
0	R1	REGISTER. HEX VALUE (00000001) 1793 1797 1798 1799 604 605 606 607 609 619 622 625 628 946 961 962 967 980 981 987 988 992 1129 1130 1131 1133 1146 1152 1153 1166 1167 1168 1172 1199 1203 1209 1217 1220 1232 1238 1241 1244 1245 1248 1251 1252 1259 1262 1265 1266 1272 1288 1333 1411 1421 1424 1604 1605 1606 1635 1640 1653 1654 1655 1656 1663 1664 1665 1666 1669 1705 1706 1707 1709 1715 1716 1720 1724 1756 1758 1759 1760 1761 1762 1778 1779
387	R1SAV	ADDRESS. HEX LOCATION (00001DBA) IN CSECT (038F3) LENGTH(2) 1168 1172 1716 1720
0	R2	REGISTER. HEX VALUE (00000002) 605 611 948 950 951 955 956 960 963 969 971 972 975 979 982 1084 1085 1087 1089 1091 1093 1133 1134 1136 1138 1140 1156 1159 1161 1321 1322 1323 1324 1325 1329 1422 1424 1636 1639 1667 1669 1709 1710 1763 1764 1765 1787 1788 1793 1794 1799 1800
0	R3	REGISTER. HEX VALUE (00000003) 1080 1081 1082 1084 1097 1099 1101 1103 1105 1110 1114 1115 1117 1120 1121 1146 1147 1148 1149 1157 1159 1327 1329 1464 1465 1466 1637 1639 1757 1758 1763 1765
0	R4	REGISTER. HEX VALUE (00000004) 1180 1186 1189 1191 1468 1728 1733
0	R5	REGISTER. HEX VALUE (00000005) 967 975 979 981 986 988 989 990 1176 1181 1187 1193 1196 1724 1729 1734 1736 1740
0	R6	REGISTER. HEX VALUE (00000006) 686 769 954 960 962 963 982 990 1177 1178 1194 1608 1652 1670 1725 1726 1731 1738
0	R7	REGISTER. HEX VALUE (00000007) 38 569 629 686 691 712 945 954 955 956 959 978 985 1158 1164 1165 1170 1173 1190 1191 1192 1204 1213 1214 1225 1228 1229 1230 1284 1285 1299 1302 1303 1304 1309 1310 1311 1312 1315 1328 1394 1413 1415 1423 1425 1427 1428 1429 1430 1431 1432 1469 1471 1473 1475 1480 1504 1506 1512 1513 1514 1522 1524 1525 1539 1541 1607 1610 1635 1638 1652 1659 1668 1682 1684 1687 1688 1691 1718 1721 1752
1781	SCAN	ADDRESS. HEX LOCATION (000028AE) IN CSECT (038F3) LENGTH(2) 1801 1804
145	SIX	ABSOLUTE. HEX VALUE (00000006) 960
1364	STATUS	ADDRESS. HEX LOCATION (0000260E) IN CSECT (038F3) LENGTH(2) 1572
149	TEN	ABSOLUTE. HEX VALUE (0000000A) 969 971 1423
74	TERM	ABSOLUTE. HEX VALUE (00000007) 1400
1385	TERMOK	ADDRESS. HEX LOCATION (0000261C) IN CSECT (038F3) LENGTH(2) 1482
1079	TERN	ADDRESS. HEX LOCATION (0000238A) IN CSECT (038F3) LENGTH(1) 586
1419	TOK	ADDRESS. HEX LOCATION (0000266A) IN CSECT (038F3) LENGTH(1) 1412
141	TWO	ABSOLUTE. HEX VALUE (00000002) 955 979

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
139	ZERO	ABSOLUTE. HEX VALUE (00000000) 951 956 972 989

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