

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
001800 3 U38F9 START X'1800'
4 *****
5 *** PREREQUISITES ***
6 NONE
7 *****
8 *** MODIFICATIONS ***
9 ADD SUPPORT FOR THE 4966.
10 *****
11 *** REA'S INCORPORATED ***
12 NONE
13 *****
14 *** SPECIAL INSTRUCTIONS ***
15 NONE
16 *****
17 *** E. C. HISTORY ***
18 DATE 01OCT76 DATE 02DEC76 DATE 17DEC76 DATE 10JUN77
19 E.C. 578468 E.C. 578469 E.C. 578486 E.C. 578625
20 *****
21 DATE 15SEP77 DATE 15JAN79 DATE DATE
22 E.C. 754882 E.C. 375147 E.C. E.C.
23 *****
24 EQUATED NAMES FOR SUPPORTED SVC'S
25 *****
26 OUT EQU 0 OUT SVC
27 OUTIN EQU 1 OUTIN SVC
28 IDLE5 EQU 3 IDLE SVC
29 TERM EQU 7 TERMINATE SVC
30 RICB EQU 19 RESET INT CONTROL BLOCK
31 CICB EQU 20 CONNECT INT CONTRL BLOCK
32 REQSD EQU 22 REQUEST SYSTEM DISKETTE
33 RELSD EQU 23 RELEASE SYSTEM DISKETTE
34 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
35 READI EQU 31 READ IN AN OVERLAY
36 *****
37 EQUATE TABLE
38 *****
39 LASAD EQU X'1230' LAST ADDRESSABLE WORD IN STG
40 DKAD EQU X'1233' SYSTEM DISKETTE ADDRESS
41 DCPIN EQU X'1234' DCP INDICATORS
42 SCHED EQU X'1248'
43 TPGSW EQU 0 TERMINATE PGM SW
44 ZERO EQU 0 VALUE OF 0
45 ONE EQU 1
46 TWO EQU 2
47 THREE EQU 3
48 FOUR EQU 4
49 FIVE EQU 5
50 SIX EQU 6
51 SEVEN EQU 7
52 EIGHT EQU 8
53 TEN EQU 10
54 ELEVN EQU 11
55 TWELV EQU 12
56 THRTRN EQU 13
57 FORTN EQU 14
58 FIFTN EQU 15
59 TWENT EQU 26
60 TWENT EQU 27
61 THRTY EQU 30
62 THIR EQU 32
63 SIXTY EQU 60
64 SIXTY EQU 63
65 SIXTY EQU 65
66 NINE EQU 99
67 ONE EQU 127
68 ONE EQU 128
69 TWO EQU 128
70 TWO EQU 256
71 TWO EQU 256
72 TWO EQU 295
73 TWO EQU 2048
74 TWO EQU 2048
75 H000F EQU X'000F' X'000F'
76 H3FF0 EQU X'3FF0' X'3FF0'
77 HFF00 EQU X'FF00' 295
78 M1 EQU -1 -1
79 M4 EQU -4 -4
80 *****
81 EQUATES FOR DISKETTE
82 *****
83 BOE EQU 6 DISP TO BOE IN THE VTOC
84 BOE EQU 8 DISP TO BOE IN THE VTOC
85 PTCNT EQU 16 DISP TO PATCH COUNT
86 DSTYP EQU 12 DISP TO TYPE OF DATA SET IN VTOC
87 PRTNM EQU 17 DISP TO PART NUM IN THE VTOC
88 SPT EQU 15 NUMBER SECTORS/TRACK
89 PRC1A EQU 000 ADDR 1ST PROC1 SECTOR
90 PRC2A EQU 1020 START ADDRESS FOR PROCESSORS
91 VTOCA EQU 330 ADDR 1ST VTOC SECTOR
92 EVTOC EQU 360 ADDR LAST VTOC SECTOR+1
93 LBSST EQU 2219 ADDR LAST SECTOR ON DISKETTE
94 FDSST EQU 360 ADDR 1ST DATA SECTOR
95 LVTE EQU 32 LENGTH IN BYTES OF A VTOC ENTRY

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000008 120 NDDPS EQU 8 NUMBER ENTRIES/SECTOR IN VTOC
00000A 121 VHDLG EQU 10 NUMBER BYTES OF HEADER INFORMATION
00000A 122 DPCPY EQU 10 CYLINDER DCP IS ON
000100 123 PSCSZ EQU 256 4966 SECTOR SIZE-256 BYTES
001000 124 ISCSZ EQU 4096 4964 SECTOR SIZE-256 BYTES
000106 125 IBIID EQU X'0106' 4964 READ DEVICE ID
000126 126 PELID EQU X'0126' 4966 READ DEVICE ID
128 *****
129 *
130 * EQUATES FOR CODED STOPS USED BY THIS UTILITY MONITOR *
131 * (NORMAL AND ERROR) *
132 *
133 *****
134 UTL1 EQU X'380C' DATA SET NOT FOUND
135 UTL3 EQU X'380B' DISKETTE ERROR
136 UTL4 EQU X'3871' LOAD THE IPL DSKT ON THE IPL DEVICE
137 UTL5 EQU X'3806' INVALID COMMAND
138 UTL6 EQU X'3872' SECTOR DISP ERROR CODE
139 UTL8 EQU X'3874' WORD COUNT ERROR
140 UTL9 EQU X'3875' PATCH IN DS OR OUTSIDE PGM LIMITS
141 UTL10 EQU X'3876' INSERT FROM DISKETTE
142 UTL11 EQU X'3877' INSERT TO DISKETTE
143 UTL12 EQU X'3878' VERIFY ERROR
144 UTL13 EQU X'3879' IS THE DISKETTE LOADED
145 UTL14 EQU X'387A' LINE OF DATA
146 UTL15 EQU X'387B' IS 8 RETRIES REQUIRED FOR ERRORS
147 UTL16 EQU X'387C' ENTER THE DATA SET NAME
148 UTL17 EQU X'387D' ENTER START ADDRESS
149 UTL18 EQU X'387E' ENTER WORD COUNT
150 UTL19 EQU X'387F' ENTER CYLINDER
151 UTL20 EQU X'3880' ENTER THE HEAD
152 UTL21 EQU X'3881' ENTER THE SECTOR
153 UTL22 EQU X'3882' ENTER THE NUMBER OF SECTORS
154 UTL23 EQU X'3883' ENTER THE DATA
155 UTL24 EQU X'3884' NOT ENOUGH ROOM ON THE DISKETTE
156 UTL25 EQU X'3885' VTOC FULL--DATA SET NOT ADDED
157 UTL26 EQU X'3886' START ADDRESS HIGH
158 UTL27 EQU X'3887' END ADDRESS TOO HIGH
159 UTL28 EQU X'3888' DISKETTE POSITION
160 UTL29 EQU X'3889' ANY MORE TO DO WITH SAME DEVICE
161 UTL30 EQU X'388A' DEVICE ADDRESS
162 UTL31 EQU X'388B' SELECT ONE OPTION
163 UTL33 EQU X'388C' ENTER FROM ADDRESS
164 UTL34 EQU X'388D' ENTER TO ADDRESS
165 UTL35 EQU X'388E' START ADR LOW
166 UTL36 EQU X'388F' ENTER END ADDRESS
167 *****
168 F3F8C6F9 DC CL4'38F9' PROGRAM IDENTIFIER
169 LEVEL DC X'00' PROGRAM RELEASE LEVEL
170 FF DC X'FF' DEFINITION RESERVED
171 INADR DC A(INIT) INITIAL EXECUTION POINTER
172 DEVTB DC A(DEVTB) DEVICE TABLE ADDRESS
173 RTNE DC X'38F9' CURRENT ROUTINE NUMBER
174 CKPT DC A(0) CURRENT CHECKPOINT NUMBER
175 OPTN1 DC A(0) OPTION WORD ONE
176 OPTN2 DC A(0) OPTION WORD TWO
177 DEVTB DC A(1) NUMBER OF ENTRIES
178 DEVTB DC A(1)
179 DEVDV DC X'0048'
180 DVASG DC X'0000'
181 DC 6A(0)
182 DEVGND DC X'8000'
183 SPT DC A(SPT)
184 SPT2 DC X'FE'
185 SPT DC X'FE'
186 SPTB DC X'0F'
187 NO DC C'N'
188 SAVE0 DC A(*-*)
189 SAVE6 DC A(*-*)
190 SAVE7 DC A(*-*)
191 ERROR DC A(*-*)
192 RTYCT DC A(8)
193 *****
194 *****
195 *
196 * THE FOLLOWING IS THE DESCRIPTION OF THE DIAGNOSTIC *
197 * DISKETTE FORMAT: *
198 * START END *
199 * CYL TRK CYL TRK DESCRIPTION *
200 * 0 0 0 1 IPL PROGRAM *
201 * 1 0 3 1 DISKETTE DIAGNOSTIC TEST TRACKS *
202 * 4 0 5 1 CPU TEST PROGRAM (PROC1) *
203 * 6 0 7 1 CPU TEST PROGRAM (PROC2) *
204 * 8 0 9 1 CPU TEST PROGRAM (PROC3) *
205 * 10 0 10 1 DCP PROGRAM (DCPO) *
206 * 11 0 11 1 VTOC (DIRECTORY) *
207 * 12 0 73 1 PROBLEM PROGRAM SPACE *
208 * MDI *
209 * MAPS AND TUS *
210 * DCP UTILITIES *
211 * OTHER DIAGNOSTICS *
212 * DISKETTE DIAGNOSTIC TEST TRACKS *
213 *
214 *****
215 *
216 * THE FOLLOWING IS THE FORMAT OF A VTOC ENTRY: *
217 *
218 * EACH ENTRY IS 32 BYTES IN LENGTH WITH 8 ENTRIES/SECTOR. *
219 *
220 * BYTES DESCRIPTION *
221 * 0-5 DATASET NAME IN EBCDIC. *
222 * 6-9 BEGINNING RECORD NUMBER OF THE PROGRAM (BOE). *
223 * 10-11 ENDING RECORD NUMBER+1 OF THE PROGRAM (EOE). *
224 * 12 RESERVED (USED IN PRGPD'S ENTRY AS EOD). *
225 * TYPE OF DATASET - 'P' PROGRAM DATASET. *
226 * - 'D' NON-ADDRESSABLE DATASET. *
227 *
228 * 13-16 RESERVED. *
229 * 17 PATCH COUNT (TIMES PROGRAM HAS BEEN PATCHED). *
230 * 18-24 PROGRAM PART NUMBER. *
231 * 25-31 PROGRAM EC NUMBER. *
232 *****
233 *
234 * THE FOLLOWING IS THE METHOD OF RECORD NUMBERING: *
235 *
236 * ALL RECORDS ARE GIVEN A UNIQUE NUMBER 0-2309. NUMBERING *
237 * STARTS AT CYLINDER 0, TRACK 0, RECORD 1 (0) AND GOES *

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238 *      TO CYLINDER 76, TRACK 1, RECORD 15 (2309). SEQUENCING
239 *      GOES FROM TRACK 0 RECORD 15 TO TRACK 1 RECORD 1 THEN TO
240 *      THE NEXT CYLINDER TRACK 0.
241 *
242 *****
243 *****
244 *****
245 *****
246 *      THE FOLLOWING IS THE FORMAT OF A DATASET CONTAINING A
247 *      PROGRAM.
248 *
249 *      FIRST SECTOR OF PROGRAM
250 *
251 *      BYTES
252 *      0- 1 LENGTH OF PROGRAM IN BYTES.
253 *      2- 3 ADDRESS PROGRAM IS TO START EXECUTION AT.
254 *      4- 5 NUMBER DATA SECTORS IN DATASET.
255 *      6- 9 RESERVED.
256 *      10- 11 ADDRESS OF 1ST DATA WORD-MUST BE AN EVEN ADDRESS.
257 *      12- 13 NUMBER DATA WORDS IN RECORD.
258 *      14- 239 113 DATA WORD-OBJECT MODULE.
259 *      240-255 RELOCATION FLAGS.
260 *
261 *      REMAINING SECTORS OF PROGRAM
262 *      BYTES
263 *      0- 1 ADDRESS OF 1ST DATA WORD-MUST BE AN EVEN ADDRESS.
264 *      2- 23 NUMBER DATA WORDS IN RECORD.
265 *      4- 233 118 DATA WORDS-OBJECT MODULE.
266 *      240-255 RELOCATION FLAGS.
267 *      BIT 0 IS RELOCATION FLAG FOR 1ST DATA WORD.
268 *      BIT 1 FOR 2ND DATA WORD ETC.....
269 *
270 *      BIT ON INDICATES DATA WORD IS RELOCATABLE.
271 *      OFF INDICATES ABSOLUTE.
272 *
273 *****
274 *****
275 *****
276 *
277 *      NAME          FINDS
278 *
279 *      PURPOSE TO FIND A DATA SET NAME IN THE VTDC
280 *
281 *      METHOD THE DATA SET NAME REQUESTED IS COMPARED WITH ENTRIES
282 *      PARA LIST IS COMPARED WITH ENTRIES IN THE VTDC.
283 *      IN THE THE VTDC. CONTROL WILL BE RETURNED WITH
284 *      THE FOLLOWING REGISTERS SET WHEN THIS ROUTINE
285 *      IS COMPLETED.
286 *
287 *      R0=ADDR OF CORE LOCATION OF VTDC ENTRY OR NEXT
288 *      AVAILABLE ADDR IF NOT FOUND.
289 *      R1=QUE BLOCK ADDR
290 *      R2=HEADER ADDR OF DIAGNOSTIC PROGRAM
291 *      R3=ADDR OF DIAGNOSTIC PROGRAM PARA LIST
292 *      R4=SECTOR ADDR OF VTDC WHERE DATA SET NAME
293 *      FOUND OR WHERE SLOT AVAILABLE IF NOT FOUND.
294 *      R5=0 IF FOUND, 1 IF NOT FOUND, 2 IF DISKETTE ERROR
295 *      4 IF VTDC FULL
296 *      R6=NEXT AVAIL DATA SECTOR ADDR IF NOT FOUND OR
297 *      EOF OF DATA SET IF FOUND.
298 *
299 *      CONDITION CODE UPON RETURN WILL REFLECT CONTENTS
300 *      OF XR5.
301 *
302 *****
303 *      FINDS EQU *
304 *      MVW R7,SAVE7          SAVE RETUPN ADDR
305 *      MVWI VTOCA,R4        ADDR 1ST VTDC SECTOR
306 *      MVW FINDE,R3        ADR OF DATA SET NAME
307 *      FN10 EQU *
308 *      JAL DREAD,R7        READ A VTDC SECTOR
309 *      IR R5,R5            SET CONDITION CODES
310 *      JNZ FN40            BR IF DISKETTE ERROR
311 *      MVBI NDPPS,R7       NUMBER DATA SET DEPINED/RECORD
312 *      FN20 EQU *
313 *      MVWS (R0),R5        SEE IF END OF ENTRIES IN VTDC
314 *      JZ FN50            IF SO BR
315 *      MVWS (R0,EOE),R6   SAVE EOF
316 *      MVW R0,R2          ADR OF HEX PID
317 *      ABI ONE,R2        BUMP PAST 1ST CHAR
318 *      MVBI FOUR,R5       BYTE COUNT
319 *      FN25 EQU *
320 *      CB (R3)+,(R2)+    SEE IF DATA SET NAME IS THE SAME
321 *      JNE FN30          B-NO NOT THIS ONE
322 *      JCT FN25,R5       FINISH THE DATA SET NAME
323 *      J FN30
324 *      FN30 EQU *
325 *      ABI LVTE,R0        UPDATE TO NEXT ENTRY
326 *      MVW FINDE,R3       RESET NAME POINTER
327 *      JCT FN20,R7       LOOP THRU ALL DATA SETS ON SECT
328 *      ABI ONE,R4        UPDATE TO NEXT SECTOR
329 *      CWI EVTOC,R4      SEE IF END OF VTDC
330 *      JN FN10           IF SO BR
331 *      MVBI FOUR,R5      SET NO ROOM ON DISKETTE ERROR CODE
332 *      FN40 EQU *
333 *      IR R5,R5          SET INDICATORS TO REFLECT XR5
334 *      B SAVE7*         RETURN TO CALLING RTN
335 *      FN50 EQU *
336 *      MVBI ONE,R5       SET DATA SET NOT FOUND
337 *      J FN40           GO RETURN
338 *      FN70 EQU *
339 *      MVBI ZERO,R5      SET DATA SET FOUND
340 *      J FN40           GO RETURN
341 *****
342 *****
343 *
344 *      THE FOLLOWING ROUTINE IS ENTERED TO RECALIBRATE.
345 *
346 *****
347 *      VERCB EQU *
348 *      MVA RECAL,SEID2    SET UP A RECALIBRATE
349 *      J DSK11           GO ISSUE THE COMMAND
350 *****
351 *****
352 *      THE FOLLOWING ROUTINE IS ENTERED TO READ A SECTOR ID.
353 *
354 *****

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00187E      4020 1ADE 1A0C
00187E      5011
001884

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LOCTR OBJECT TEXT          STMT SOURCE STATEMENT          COPYRIGHT IBM CORP 1976
001886 452U 1A5C          355 DSCID EQU *
001886      500B          356 MVA SDCB,R5          ADDR READ SECTOR ID DCB
00188A      500B          357 J DSK10             GO ISSUE READ
358 *****
359 *****
360 *      THE FOLLOWING ROUTINE IS ENTERED TO VERIFY A TRACK.
361 *
362 *****
363 *      DVERF EQU *
364 *      MVA VDCB,R5          ADDR READ VERIFY DCB
365 *      J DSK10             GO ISSUE THE VERIFY.
366 *****
367 *****
368 *      THE FOLLOWING ROUTINE IS ENTERED TO FORMAT A TRACK
369 *      WITH ZERO'S DATA.
370 *
371 *****
372 *      DFORM EQU *
373 *      MVA FDCB,R5          ADDR FORMAT DCB
374 *      J DSK10             GO ISSUE THE FORMAT.
375 *****
376 *****
377 *      THE FOLLOWING ROUTINE IS ENTERED TO DO A READ FROM
378 *      A DISKETTE INTO A BUFFER.
379 *
380 *****
381 *      DREAD EQU *
382 *      MVA RDCB,R5          ADDR READ DCB
383 *      J DSK10             GO ISSUE READ
384 *****
385 *****
386 *
387 *      THE FOLLOWING ROUTINE IS ENTERED TO DO A WRITE TO
388 *      A DISKETTE FROM A BUFFER.
389 *
390 *      FROM THE LABEL DSK10 ON IS A COMMON ROUTINE TO SET UP THE
391 *      DCBS AND ISSUE THE IO COMMAND TO THE DISKETTE. IT ALSO CHECKS
392 *      THE CONDITION CODE AFTER THE I/O AND DOES ERROR RECOVERY.
393 *
394 *****
395 *****
396 *      DWRT EQU *
397 *      MVA WRDCB,R5          ADDR WRITE DCB
398 *      DSK10 EQU *
399 *      MVA SEDCB,SEID2      ADDR OF THE IDCB
400 *      DSK11 EQU *
401 *      MVW RDW8,R0          ADD DISKETTE BUFFER
402 *      MVW R5,SKW6         SET CHAIN ADDR IN SEEK DCB
403 *      MVW R6,DKSV         RESTORE POINTER
404 *      STM RTYCT,DKRTY     GET THE RETRY COUNT
405 *      IO R6,DK5V         SAVE REGS
406 *      IO DSKPR           PREPARE DISKETTE
407 *      BNCC SEVEN,IS25     J-NO DISKETTE ERROR
408 *      DSK20 EQU *
409 *      ABI M1,DKRTY        DECREMENT RETRY COUNT
410 *      JN IS25            RETURN IF UNRECOVERABLE ERROR
411 *      JAL SEEK,R7        GO SET UP DCBS
412 *      MVA SEIDB,R6       IDCB TO START SEEK
413 *      IS11 EQU *
414 *      IO (R6)            ISSUE I/O TO DISKETTE
415 *      IS12 EQU *
416 *      BCC SEVEN,SCHED*   GO TO SCHED IF I/O OK
417 *      IO DKRST           ISSUE RESET
418 *      IO DSKPR           ISSUE PREPARE
419 *      BNCC SEVEN,IS25     BR IF IN ERROR
420 *      MVBI ZERO,R7       INITIALIZE R7 TO 0
421 *      IS22 EQU *
422 *      IO (R6)            RE-ISSUE THE IO
423 *      BNCC TWO,IS12     IF NOT CC = BUSY AFTER RESET THEN
424 *      *                  GO TEST FOR CC = 7
425 *      ABI ONE,R7        ELSE ADD TO RETRY/DELAY COUNTER
426 *      JP IS22           LOOP UNTIL OVERFLOW OR CC NOT = 2
427 *      IS25 EQU *
428 *      MVWI TWO,DKR5       SET DISKETTE ERROR CODE
429 *      MVA DSKIT,DKII     RESTORE ORIGINAL INTERRUPT ADR
430 *      MVA DSKIT,DKIII    RESTORE ORIGINAL INTERRUPT ADR
431 *      J DK04            RETURN TO CALLING RTN
432 *****
433 *****
434 *      THE FOLLOWING ROUTINE HANDLES INTERRUPTS FROM THE DISKETTE.
435 *
436 *****
437 *      DSKIT EQU *
438 *      BNCC THREE,DK10    BR IF NOT DEVICE END INT
439 *      MVWI ZERO,DKR5     SET DISKETTE I/O OK
440 *      DK04 EQU *
441 *      LMB DKSV           RET TO RTN REQUESTING I/O
442 *      DK10 EQU *
443 *      BCC FOUR,SCHED*   DISKETTE JUST BECAME READY
444 *      MVA CALIB,R6       GET RECALIBRATE ADR
445 *      MVA DK12,DKII     NEW INTERRUPT ADR
446 *      MVA DK12,DKIII    NEW INTERRUPT ADR
447 *      J IS11            RE-CALIBRATE THE DISKETTE
448 *      DK12 EQU *
449 *      BNCC THREE,IS25    UNRECOVERABLE ERROR
450 *      MVA DSKIT,DKII     RESTORE ORIGINAL INTERRUPT ADR
451 *      MVA DSKIT,DKIII    RESTORE ORIGINAL INTERRUPT ADR
452 *      MVWZ PCYLA,R7      HOME POSITION
453 *      J DSK20           REISSUE THE I/O
454 *****
455 *****
456 *      THE FOLLOWING ROUTINE BUILDS AND SETS THE SEEK CONTROL
457 *      WORD IN THE SEEK DCB AND THE HEAD/SECT AND N/CYL WORDS
458 *      IN READ, WRITE AND VERIFY DCBS.
459 *
460 *      THE SECTOR ADDR IS PASSED TO THIS ROUTINE IN XR4 AND IT
461 *      COMPUTES THE SEEK INFORMATION FROM WHERE THE HEAD
462 *      PRESENTLY IS.
463 *
464 *
465 *****
466 *      SEEK EQU *
467 *      MVW PCYLA,R6          GET WHERE HEAD PRESENTLY AT
468 *      MVW DKR4,R4          GET SECTOR # GOING TO
469 *      MVW SCIZE,R0        WHAT IS THE SECTOR SIZE
470 *      JNZ S03            BR/256 BYTE SECTOR
471 *      DB SPTA,R4          COMPUTE TRACK # (128 BYTE SECTOR)

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001948      6E08 1B4A
001948      6C08 1AFC
00194C      C020 1B4E
001954      1803
001956      EC22 1829

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001B02 704 PSEEK EQU *
001B03 705 MVW DKR4,R4      GET SECTOR # GOING TO
001B06 C020 1B4E 706 MVB SCIZE,R0      WHAT IS THE SECTOR SIZE
001B0A 1803 707 JNZ PSE03         BR/256 BYTE SECTOR
001B0C EC22 1829 708 DB SPTA,R4      COMPUTE TRACK # (128 BYTE SECTOR)
001B10 5005 709 J PSE10          SKIP
001B12 710 PSE03 EQU *
001B12 EC22 182A 711 DB SPTB,R4      COMPUTE TRACK # (256 BYTE SECTOR)
001B16 1302 712 JEV PSE10        BF/HEAD 0
001B18 7C83 0800 713 OWI TWOK,R4    SET HEAD 1 - POS/HEAD/CYL WD
001B1C 714 PSE10 EQU *
001B1C 340A 715 SRL ONE,R4      CONVERT TRACK # TO CYLINDER #
001B1E 6C09 1B50 716 OW DKNUM,R4     SET DISKETTE POS # - POS/HEAD/CYL WD
001B22 0501 717 ABI ONE,R5      SET RECORD NUMBER TO BE 1-15
001B24 6D09 1B4E 718 OW SCIZE,R5     SET THE SECTOR SIZE BIT
001B28 7564 719 MVD R5,R3        CHANGE REGISTERS
001B2A D328 1A1E 720 MVD R5,SKW2     SET SEEK N/SECT, POS/HEAD/CYL WORDS
001B2E D328 1A2E 721 MVD R3,RDWD2    SET READ N/SECT, POS/HEAD/CYL WORDS
001B32 D328 1A3E 722 MVD R3,WRW2    SET WRITE N/SECT, POS/HEAD/CYL WORDS
001B36 C328 19FF 723 MVB R3,VFW2+ONE SET VERIFY SECT, POS/HEAD/CYL WORDS
001B3A 6C0D 1A00 724 MVW R4,VFW3     SET VERIFY HEAD/CYL WORDS
001B3E D328 1A4E 725 MVD R3,FMW2    SET FORMAT N/SECT, HEAD/CYL WORDS
001B42 D328 1A5E 726 MVD R3,SIW2   SET READ SID N/SECT, HEAD/CYL WORDS
001B46 5700 727 BXS (R7)      RETURN TO CALLING RTN
001B48 728 PSEND EQU *
729 *
730 * DISKETTE DATA CONSTANTS
731 *
001B48 0000 732 DKRTY DC A(*-*)  DISKETTE RETRY COUNT
001B4A 000A 733 PCYLA DC A(DCPY)  CYLINDER HEAD PRESENTLY AT
001B4C 0000 734 FINDE DC A(*-*)  CYLINDER HEAD PRESENTLY AT
001B4E 0000 735 SCIZE DC A(*-*)  CYLINDER HEAD PRESENTLY AT
001B50 0000 736 DKNUM DC A(*-*)  DISKETTE POSITION NUMBER
001B52 0D00 737 SMWDC DC A(3328)  CYLINDER 0 DATA CAPACITY
001B54 0F00 738 HOP00 DC A(3840)  CYLINDER 1-76 DATA CAPACITY
001B56 0100 739 HXHUN DC X'0100'  NUMBER OF BYTES PER SECTOR
000046 741 PSLN EQU PSEND-PSEEK
001B58 742 PDCH EQU *
743 *
744 * 4966 DCB OVERLAY
745 *
746 * VERIFY DCB FOR 4966
001B58 0C19 747 DC X'0019'  DCB CONTROL WORD
001B5A 0100 748 DC X'0100'  N/SECTOR WORD
001B5C 0000 749 DC A(0)      DISKETTE POS #/HEAD/CYLINDER WORD
001B5E 0000 750 DC A(0)      FORMAT DATA WORD
001B60 0000 751 DC A(0)      RESIDUAL STATUS ADDRESS
001B62 0000 752 DC A(0)      CHAIN ADDRESS
001B64 0000 753 DC A(0)      BYTE COUNT
001B66 0000 754 DC A(0)      DATA ADDRESS
755 * RECALIBRATE UNLOAD DCB
001B68 0003 756 DC X'0003'  DCB CONTROL WORD
001B6A 0000 757 DC A(0)
001B6C 0000 758 DC A(0)
001B6E 0000 759 DC A(0)
001B70 0000 760 DC A(0)
001B72 0000 761 DC A(0)
001B74 0000 762 DC A(0)
001B76 0000 763 DC A(0)
764 * SEEK DCB
001B78 8000 765 DC X'8000'  DCB CONTROL WOPD
001B7A 0000 766 DC A(0)      N/SECTOR WORD
001B7C 0000 767 DC A(0)      DISKETTE POS #/HEAD/CYLINDER WORD
001B7E 0000 768 DC A(0)      FORMAT DATA WORD
001B80 0000 769 DC A(0)      RESIDUAL STATUS ADDRESS
001B82 0000 770 DC A(0)      CHAIN ADDRESS
001B84 0000 771 DC A(0)      BYTE COUNT
001B86 0000 772 DC A(0)      DATA ADDRESS
773 * READ DCB - NO AUTO SEEK
001B88 2018 774 DC X'2018'  DCB CONTROL WORD
001B8A 0000 775 DC A(0)      N/SECTOR WORD
001B8C 0000 776 DC A(0)      DISKETTE POS #/HEAD/CYLINDER WORD
001B8E 0000 777 DC A(0)      FORMAT DATA WORD
001B90 0000 778 DC A(0)      RESIDUAL STATUS ADDRESS
001B92 0000 779 DC A(0)      CHAIN ADDRESS
001B94 0100 780 DC A(256)   BYTE COUNT
001B96 39C6 781 DC A(BUF1)  DATA ADDRESS
782 * WRITE/READ VERIFY DCB - NO AUTO SEEK
001B98 002A 783 DC X'002A'  DCB CONTROL WORD
001B9A 0000 784 DC A(0)      N/SECTOR WORD
001B9C 0000 785 DC A(0)      DISKETTE POS #/HEAD/CYLINDER WORD
001B9E 0000 786 DC A(0)      FORMAT DATA WORD
001BA0 0000 787 DC A(0)      RESIDUAL STATUS ADDRESS
001BA2 0000 788 DC A(0)      CHAIN ADDRESS
001BA4 0100 789 DC A(256)   BYTE COUNT
001BA6 39C6 790 DC A(BUF1)  DATA ADDRESS
791 * FORMAT DCB FOR 4966
001BA8 000C 792 DC X'000C'  DCB CONTROL WORD
001BA8 0000 793 DC A(0)      N/SECTOR WORD
001BAE 0000 794 DC A(0)      DISKETTE POS #/HEAD/CYLINDER WOPD
001BAE 0000 795 DC A(0)      FORMAT DATA WORD
001BB0 0000 796 DC A(0)      RESIDUAL STATUS ADDRESS
001BB2 0000 797 DC A(0)      CHAIN ADDRESS
001BB4 0D00 798 DC A(3328)  BYTE COUNT
001BB6 0000 799 DC A(0)      DATA ADDRESS
800 * READ SECTOR ID FOR 4966
001BB8 201C 801 DC X'201C'  DCB CONTROL WORD
001BBA 0000 802 DC A(0)      N/SECTOR WORD
001BBC 0000 803 DC A(0)      DISKETTE POS #/HEAD/CYLINDER WORD
001BBD 0000 804 DC A(0)      FORMAT DATA WORD
001BBD 0000 805 DC A(0)      RESIDUAL STA ADDRESS
001BC2 0000 806 DC A(0)      CHAIN ADDRESS
001BC4 0008 807 DC A(8)     BYTE COUNT
001BC6 3AC6 808 DC A(BUF2)  DATA ADDRESS
809 PDEND EQU *
810 PDLEN EQU PDEND-PDCH
811 *****
812 *
813 * DETERMINE DISKETTE TYPE AND INSURE PROPER I/O SEEK CODE
814 *
815 *
816 * ALIGN WORD
001BC8 6F0D 1830 817 DTYPE EQU *
001BC8 818 MVW R7,SAVE7   SAVE THE RETURN ADDRESS
001BCC C020 1C4D 819 MVB DKADD+ONE,R0 DISKETTE ADP

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001BD0 780A FF00 820 PBTWI HFPO0,R0  PESET HIGH OPDEP BYTE
001BD2 0904 821 MVBI FOUR,R3   NUMBER IDCB DISKETTE
001BD4 4124 1ADD 822 EQU *EID1,R1  ADDR 1ST IDCB
823 TYPE1
001BD8 C048 824 MVB RO,(R1)   MOVE DEVICE ADDR INTO IDCB
001BDC 0104 825 ABI FOUR,R1  UPDATE TO NEXT IDCB
001BDE BBFD 826 JCT TYPE1,R3 DO ALL IDCB
001BE0 C525 1C4C 827 MVBZ DKADD,R5 IS THIS DEVICE A 4966
001BE4 1015 828 JZ TYPE2     BR/NO - ASSUME 4966
001BE6 4020 1B4E 0100 829 MVWI PSCSZ,SCIZE SECTOR SIZE 256
001BEC 4724 0046 830 MVWI PSLN,R7  LENGTH OF SEEK OVERLAY
001BF0 4124 1B02 831 MVA PSEK,R1   SEEK ROUTINE OVERLAY ADDRESS
001BF4 4224 1948 832 MVA SEEK,R2  SEEK ROUTINE ADDRESS
001BF8 2944 833 MVFN (R1),(R2) MOVE ROUTINE
001BFC 4724 0070 834 MVWI PDLEN,R7 LENGTH OF DCB OVERLAY
001C02 4124 1B58 835 MVA PDCH,R1  DCB OVERLAY ADDRESS
001C06 4224 19FC 836 MVA VDCB,R2 DCB ADDRESS
001C08 2944 837 MVFN (R1),(R2) MOVE DCB
001C0A 3559 838 SLL ELEVN,R5 POSITION THE BITS
001C0E 600D 1B50 839 MVW R5,DKNUM  SAVE THE POSITION
001C10 5011 840 J TYPND
841 TYPE2 EQU *
001C10 4020 1B4E 1000 842 MVWI ISCSZ,SCIZE SECTOR SIZE 256
001C16 4724 005A 843 MVWI PSEK,R7  LENGTH OF SEEK OVERLAY
001C1A 4124 19A2 844 MVA SEEK1,R1 SEEK ROUTINE OVERLAY ADDRESS
001C1E 4224 1948 845 MVA SEEK,R2  SEEK ROUTINE ADDRESS
001C22 2944 846 MVFN (R1),(R2) MOVE ROUTINE
001C24 4724 0070 847 MVWI VDCB,R1 LENGTH OF DCB OVERLAY
001C28 4124 1A6C 848 MVA VDCB1,R1 DCB OVERLAY ADDRESS
001C2C 4224 19FC 849 MVA VDCB,R2 DCB ADDRESS
001C30 2944 850 MVFN (R1),(R2) MOVE DCB
001C32 EQU *
001C32 6812 1830 851 TYPND B SAVE7* RETURN TO SENDER
852 *
853 *
854 * ALIGN WORD
001C36 00 855 SECTR DC X'00'
001C37 00 856 FXSEC DC X'00'
001C38 3806 857 DC C(UTL5)
001C39 C9D5 E540D9C5D840 858 ERMS1 DC C(UTL)REQ
001C42 0080 859 DC X'0080'
001C44 E2C3D9E3C3C8 860 SCRAT DC C'SCRTCH'
001C4A 00 861 BF1FL DC X'00'
001C4A 0000 862 RERUN EQU BF1FL
001C4C 0000 863 DKADD DC A(*-*)
001C4E 0000 864 DKAD1 DC A(*-*)
001C50 0000 865 DKAD2 DC A(*-*)
001C52 0000 866 DKAD3 DC A(*-*)
001C54 2000 867 REDID DC X'2000'
001C56 0000 868 BUFFER DC A(*-*)
001C58 38C6 869 BF1PT DC A(BUF1)
001C5C 3AC6 870 BF2PT DC A(BUF2)
001C5E 0000 871 BF1ND DC A(*-*)
001C60 0233 872 MVSTR DC A(*-*)
001C62 0000 873 CTLBK DC A(DKAD)
001C64 1C4D 874 DC A(0)
001C66 190E 875 DKCIC DC A(DKADD+ONE)
001C68 190E 876 DKII DC A(DSKIT)
001C6A 0003 877 DKIII DC A(DSKIT)
001C6C 00C0 878 DC A(3)
001C6E 1C3A 879 SCRA DC X'00C0'
001C70 0000 880 INCMD DC A(ERMS1)
001C74 0000 0000 881 SAV DC 2A(*-*) ADDRESS OF MESSAGE
001C76 0000 882 SAV1 DC A(*-*) SAVE AREA
001C78 0000 883 SAV3 DC A(*-*) SAVE AREA
001C7A 0000 884 SAV2 DC A(*-*) SAVE AREA
001C7C 0000 885 SAV2A EQU SAV2+ONE
001C7E 0000 886 SAV4 DC A(*-*) SAVE AREA
001C7F 0000 887 ROSAV DC A(*-*)
001C80 0000 888 R7SAV DC A(*-*)
001C82 00 889 PCSAV DC A(*-*)
001C84 0000 890 DC X'00' SAVE AREA
001C86 E4F3F8C6F9 891 UTILT DC C'U38F9'
001C88 0000 892 DC A(*-*)
001C8A 0001 893 CVPC1 DC A(1)
001C8C 0000 894 CVPC2 DC A(*-*)
001C8E 0000 895 CVPC3 DC A(*-*)
001C90 0000 896 ENTRA DC A(*-*)
001C92 0000 897 ENTRB DC A(*-*)
001C94 0000 898 BUFAD DC A(*-*)
001C96 0A 899 TENS DC H'10'
001C98 00 900 RELOD DC X'00'
001C9A 00 901 MORE DC X'00'
001C9C 00 902 IPLDV DC X'00'
001C9E 0000 903 ENDDP DC A(*-*)
001CA0 0000 904 WDCNT DC A(0)
001CA2 1CA6 905 DC X'00C0'
001CA4 00C0 906 VTRL3 DC A(MSG6)
001CA6 380C 907 DC X'00C0'
001CA8 C4C1E3C140E2C5E34 908 DC A(UTL1)
001CBA 00 909 MSG6 DC C'DATA SET NOT FOUND'
001CB2 FF 910 DC X'00'
001CB4 00C0 911 FSTSW DC X'FF'
001CBC 1CC0 912 ALIGN WORD
001CBE 3B71 913 DC X'00C0'
001CBB0 D3D6C1C440E3C8C54 914 RELMG DC A(RLMG1)
001CBB2 00 915 DC A(UTL4)
001CBB4 00C0 916 RLMG1 DC C'LOAD THE IPL DISKETTE ON THE IPL DEVICE'
001CBB6 00C0 917 DC X'00'
001CBB8 1CF4 918 RELEM DC A(*-*)
001CBC 1C56 919 DC A(BUFR)
001CBE 0001 920 DC A(1)
001CBF0 0000 921 DC A(0)
001CBF2 3879 922 DC A(UTL13)
001CBF4 C9E240E3C8C540C4C 923 RLMG2 DC C'IS THE DISKETTE LOADED?'
001CDB 00 924 DC X'00'
001DC0 00 925 DC X'00'
001D00 FF 926 ASKOT DC X'00'
001D02 00 927 HEXFF DC X'FF'
001D04 10 928 NORTY DC X'00'
001D06 0000 929 HEX10 DC X'10'
001D08 0000 930 FTAB DC A(*-*)
001D10 0000 931 SCOMP DC A(0)
001D12 0001 932 ONES DC A(1)
001D14 0000 933 SADR DC A(*-*)

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001D18 0000 934 ENADR DC A (*-*) END DUMP ADDRESS
001D1A 0000 935 SEOF DC A (*-*) EOE SAVE
001D1C 0000 936 R6SAV DC A (*-*) REGISTER SAVE AREA
001D1E 0000 937 R5AV DC A (*-*)
001D20 0000 938 FXSAV DC A (*-*)
001D22 3876 939 DC A (UTL10)
001D24 00C0 940 X'00C0'
001D26 1D2A 941 VTRL5 DC A (MSG8)
001D28 380B 942 DC A (UTL3)
001D2A C4C9E2D2C5E3E3C54 943 MSG8 DC C'DISKETTE ERROR'
001D3A 0000 944 SCRTT DC A (0)
001D3C 0000 945 SCEND DC A (*-*)
001D3E 000A 946 DEC10 DC A (10)
001D40 0080 948 X'0080'
001D42 1D46 949 DPMSG DC A (DSNAM)
001D44 0000 950 DC A (0)
001D46 C4E2D5407E40 951 DSNAM DC C'DSN = '
001D4C 40404040 952 DSNM1 DC C'
001D50 00 953 X'00'
001D51 00 954 X'00'
001D52 E5 955 VENT0 DC C'V'
001D53 E3D6C3F0F0 956 VENT1 DC C'TOC00'
001D58 0169 957 HX167 DC X'0167'
001D5A 0169 958 VTEHD DC X'0169'
960 *****
961 * NAME COMPR *
962 * * *
963 * PURPOSE COMPRESS THE DISKETTE. *
964 * * *
965 * METHOD THE VTOC WILL BE COMPRESSED FIRST THEN *
966 * THE DATA SETS WILL BE COMPRESSED. *
967 * * *
968 * CALLING SEQUENCE: *
969 * * *
970 * 05 *
971 * * *
972 * *****
973 *
974 COMP1 EQU *
975 COMP2 EQU *
976 COMP3 EQU *
977 COMP4 EQU *
978 COMP5 EQU *
979 COMP6 EQU *
980 COMP7 EQU *
981 COMP8 EQU *
982 COMP9 EQU *
983 COMP10 EQU *
984 COMP11 EQU *
985 COMP12 EQU *
986 COMP13 EQU *
987 COMP14 EQU *
988 COMP15 EQU *
989 COMP16 EQU *
990 COMP17 EQU *
991 COMP18 EQU *
992 COMP19 EQU *
993 COMP20 EQU *
994 COMP21 EQU *
995 COMP22 EQU *
996 COMP23 EQU *
997 COMP24 EQU *
998 COMP25 EQU *
999 COMP26 EQU *
1000 COMP27 EQU *
1001 COMP28 EQU *
1002 COMP29 EQU *
1003 COMP30 EQU *
1004 COMP31 EQU *
1005 COMP32 EQU *
1006 COMP33 EQU *
1007 COMP34 EQU *
1008 COMP35 EQU *
1009 COMP36 EQU *
1010 COMP37 EQU *
1011 COMP38 EQU *
1012 COMP39 EQU *
1013 COMP40 EQU *
1014 COMP41 EQU *
1015 COMP42 EQU *
1016 COMP43 EQU *
1017 COMP44 EQU *
1018 COMP45 EQU *
1019 COMP46 EQU *
1020 COMP47 EQU *
1021 COMP48 EQU *
1022 COMP49 EQU *
1023 COMP50 EQU *
1024 COMP51 EQU *
1025 COMP52 EQU *
1026 COMP53 EQU *
1027 COMP54 EQU *
1028 COMP55 EQU *
1029 COMP56 EQU *
1030 COMP57 EQU *
1031 COMP58 EQU *
1032 COMP59 EQU *
1033 COMP60 EQU *
1034 COMP61 EQU *
1035 COMP62 EQU *
1036 COMP63 EQU *
1037 COMP64 EQU *
1038 COMP65 EQU *
1039 COMP66 EQU *
1040 COMP67 EQU *
1041 COMP68 EQU *
1042 COMP69 EQU *
1043 COMP70 EQU *
1044 COMP71 EQU *
1045 COMP72 EQU *
1046 COMP73 EQU *
1047 COMP74 EQU *
1048 COMP75 EQU *
1049 COMP76 EQU *

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001E46 1713 1050 JLLT COM12
001E48 892B 0006 1C90 1051 CH (R1,BOE),ENTRA
001E4E 6F00 1FA6 1052 BLT COM24
001E52 892B 0006 1C92 1053 CH (R1,BOE),ENTRB
001E58 1E0A 1054 JLTG COM12
001E5A * 1055 COM11 EQU *
001E5A 4724 0020 1056 HVWI LVTB,R7
001E5E 690D 1C56 1057 HVW R1,BUFPR
001E62 8028 1C9D 1058 MVB HEXFF,SCRA
001E68 8928 0006 1C90 1059 HVW (R1,BOE),ENTRA
001E6E * 1060 COM12 EQU *
001E72 7921 0020 1061 ANI LVTB,R1
001E76 C924 1C5C 1062 CH BF1ND,R1
001E78 18DB 1063 JNE COM10
001E7C 4424 014A 1064 MVWI VTOCA,R4
001E80 C225 1C4A 1065 MVBZ RERUN,R2
001E82 1003 1066 JZ COM13
001E84 C225 1C6C 1067 MVBZ SCRA,R2
001E86 50D1 1068 J COM09
001E88 * 1069 COM13 EQU *
001E88 C225 1C6C 1070 MVBZ SCRA,R2
001E8C 6800 1FC9 1071 BZ COM26
001E90 8928 1C92 1072 HVW ENRFB,MVSTR
001E96 6E0D 1C56 1073 HVW BUFPR,R3
001E9A E4C3 1074 MVWS (R3,BOE),R4
001E9C E6C4 1075 MVWS (R3,BOE),R6
001E9E 74CA 1076 SW R4,R6
001EA0 7890 1077 SECON R4
001EA2 6E0D 1C76 1078 MVW R6,SAV3
001EA6 * 1079 COM14 EQU *
001EA6 8828 1C5C 1A3A 1080 MVW BF1ND,RDWB
001EAC 8828 1C5C 1A4A 1081 MVW BF1ND,WRWB
001EB2 CE24 1D12 1082 CH SCOMP,R6
001EB6 1606 1083 JLE COM15
001EB8 6E0F 1D12 1084 SW SCOMP,R6
001EBE 6E0D 1C7A 1085 MVW R6,SAV4
001EC0 6E08 1D12 1086 MVW SCOMP,R6
001EC4 * 1087 COM15 EQU *
001EC4 7444 1088 MVW R4,R2
001EC6 EA22 182A 1089 DB SPTR,R2
001ECA 7367 1090 IR R3,R3
001ECC 100B 1091 JZ COM16
001ECE 4224 000F 1092 MVWI FIFTN,R2
001ED2 734A 1093 SW R3,R2
001ED4 7264 1094 MVW R2,R3
001ED6 6E0D 182E 1095 MVW R6,SAVE6
001EDA CB2F 182E 1096 SW R3,SAVE6
001EDC 120A 1097 JN COM18
001EE0 73C4 1098 MVW R3,R6
001EE2 5008 1099 J COM18
001EE4 * 1100 COM16 EQU *
001EE4 6E0D 182E 1101 MVW R6,SAVE6
001EE8 * 1102 COM17 EQU *
001EE8 402E 182E 000F 1103 SWI FIFTN,SAVE6
001EEE 1202 1104 JN COM18
001EF0 4624 000F 1105 MVWI FIFTN,R6
001EF4 * 1106 COM18 EQU *
001EF4 CE2E 1C74 1107 AV R6,SAV1
001EF8 7664 1108 HVW R6,R3
001EF8 3641 1109 SL FIFTN,R6
001EFC 6E0D 1A38 1110 MVW R6,RDWB
001FF0 6F03 1898 1111 BAL DRPAD,R7
001F04 6801 2090 1112 BNZ COM33
001F08 7388 1113 AW R3,R4
001F0A 6E08 182E 1114 MVW SAVE6,R6
001F0E 1005 1115 JZ COM19
001F10 1204 1116 JN COM19
001F12 A828 1A38 1A3A 1117 AW RDW7,RDWB
001F18 50E7 1118 J COM17
001F1A * 1119 COM19 EQU *
001F1A 6C0D 1C70 1120 MVW R4,SAV
001F1E 6C08 1C5E 1121 HVW SPTR,R4
001F22 CE25 1C74 1122 MVWZ SAV1,R6
001F26 CE2E 1C5E 1123 AV R6,MVSTR
001F2A 7444 1124 MVW R4,R2
001F2C EA22 182A 1125 DB SPTR,R2
001F30 7367 1126 IR R3,R3
001F32 100B 1127 JZ COM20
001F34 4224 000F 1128 MVWI FIFTN,R2
001F38 734A 1129 SW R3,R2
001F3A 7264 1130 MVW R2,R3
001F3C 6E0D 182E 1131 MVW R6,SAVE6
001F40 CB2F 182E 1132 SW R3,SAVE6
001F44 120A 1133 JN COM21
001F46 73C4 1134 MVW R3,R2
001F48 5008 1135 J COM22
001F4A * 1136 COM20 EQU *
001F4A 6E0D 182E 1137 MVW R6,SAVE6
001F4E * 1138 COM21 EQU *
001F4E 402E 182E 000F 1139 SWI FIFTN,SAVE6
001F54 1202 1140 JN COM22
001F56 4624 000F 1141 MVWI FIFTN,R6
001F5A * 1142 COM22 EQU *
001F5A 7664 1143 HVW R6,R3
001F5E 3641 1144 SL FIFTN,R6
001F62 6F03 1A48 1145 MVW R6,WRWB
001F66 6F03 1898 1146 BAL DRPAD,R7
001F68 6801 2090 1147 BNZ COM33
001F6A 7388 1148 AW R3,R4
001F6C 6E08 182E 1149 MVW SAVE6,R6
001F70 1005 1150 JZ COM23
001F72 1204 1151 JN COM23
001F74 A828 1A48 1A4A 1152 AW WRW7,WRWB
001F7A 50E9 1153 J COM21
001F7C * 1154 COM23 EQU *
001F7C 6C08 1C70 1155 MVW SAV,R4
001F80 CE25 1C7A 1156 HVWZ SAV4,R6
001F84 1890 1157 COM14 EQU *
001F86 8828 1C5E 1C90 1158 MVW MVSTR,ENTRA
001F8C 6E08 1C56 1159 HVW BUFPR,R3
001F90 88E8 1C92 0006 1160 MVW ENRFB,(R3,BOE)
001F96 88E8 1C5E 0008 1161 MVW MVSTR,(R3,BOE)
001F9C 8828 1C5E 1C92 1162 MVW MVSTR,ENTRB
001FA2 6802 1E2A 1163 B COM09

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001FA6 1164 COM24 EQU *
001FA6 C520 1C6C 1165 MVB SCRA,R5 IS THE MOVE IND ON
001FAA 6801 1E6E 1166 BNZ COM12 J-YES
001FAE 6802 1E5A 1167 B COM11 J-SAVE THIS ENTRY
001FB2 1168 COM25 EQU *
001FB2 8928 0008 1C90 1169 MVB (R1,EOE),ENTRA SAVE THIS ADR
001FB9 8928 0008 1C92 1170 MVB (R1,EOE),ENTRB SAVE THIS ADR
001FB9 8928 1D0D 1C4A 1171 MVB HEXFF,RERUN T/ON RERUN IND
001FC4 6802 1E6E 1172 B COM12 GO AGAIN
001FC8 1173 COM26 EQU *
001FC8 6808 1C58 1174 MVB BF1PT,R3 START OF VTOC DATA
001FC8 6F08 1830 1175 MVB SAVE7,R7 GET THE SAVED BYTE COUNT
001FDD 6908 1C5C 1176 MVB BF1PT,R1 END OF VTOC DATA
001FD4 0A00 1177 MVB ZER0,R2 FILL DATA
001FDD 2A2C 1178 FPN R2,(R1) ZERO THE REST OF THE VTOC
001FDD 8828 1B54 1A48 1179 MVB HOP00,WRW7 TRACK BYTE COUNT
001FDE 8828 1C58 1A4A 1180 MVB BF1PT,WRW8 ADDRESS OF THE DATA TO WRITE
001FE4 4424 014A 1181 MVTI VT0CA,R4 START SECTOR ADDRESS
001FE9 8828 1C92 0008 1182 MVB ENTRB,(R3,EOE) NEW END ADR
001FE9 8028 1D0D 1CB9 1183 MVB HEXFF,FSTSW T/ON RERUN IND
001FF4 1184 COM27 EQU *
001FF4 6F03 189E 1185 BAL DWRT,F7 WRITE NEW VTOC ENTRY
001FFB 6801 2090 1186 BNZ COM33 B-IF ERROR
001FFC C725 1CB9 1187 MVBZ FSTSW,R7 CLEAR THE INDICATOR
002000 1005 1188 JZ COM28 J-IF NOT ON
002002 040F 1189 ABI FIFTN,R4 BUMP THE RECORD COUNTER
002004 A828 1B54 1A4A 1190 AW HOP00,WRW8 BUMP THE DATA
00200A 50F4 1191 J COM27
00200C 1192 COM28 EQU *
00200C 6808 1C56 1193 MVB BUFR,R3 ADDRESS OF BUFFER
002010 D3E5 0006 1194 MVDZ (R3,B0E),R3 FOR HOUSEKEEPING
002014 4724 1816 1195 COM29 EQU *
002014 4724 1816 1196 MVA DVASG,R7 ADDRESS OF DEVICE DEPENDENT DATA
002018 4F04 1197 TBT (R7,FOUR) WAS THE DEVICE CONNECTED
00201A 1003 1198 JZ COM30 J-NO
00201C 6F08 1C4C 1199 MVB DKADD,R7 CONTROL BLOCK ADDRESS
002020 6013 1200 SVC RICB
002022 1201 COM30 EQU *
002022 D625 1C4C 1202 MVDZ DKADD,R6 CLEAR THE
002026 D625 1C50 1203 MVDZ DKADD,R6 DATA AREAS
00202A 4724 1C60 1204 MVA CTLBK,R7 CONTROL BLOCK ADDRESS
00202E C320 1C97 1205 SVC RELOD,R3 IS THE RELOAD UTILITY IND ON
002032 C320 1C99 1206 MVB RELOD,R3 J-NO
002036 C725 1C99 1208 JZ COM32 IS THE DEVICE USED THE IPL DEVICE
00203A 100A 1209 JZ COM32 J-NO
00203C 4724 1C83 1210 MVA REIMG,R7 GET THE MSG CONTROL BLOCK ADR
002040 6000 1211 SVC OUT
002042 4724 1CEA 1212 COM31 EQU *
002042 6001 1213 MVA RELEM,R7 GET THE MSG CONTROL BLOCK ADR
002046 6001 1214 SVC OUTIN
002048 802B 1C56 182B 1215 CB BUFR,NO WAS IT A NEGATIVE ANSWER
00204E 10F9 1216 JE COM31 J-YES
002050 1217 COM32 EQU *
002050 4324 3FF0 1218 MVA RELSV,R3 ADR OF SAVE
002054 88E4 0234 1219 MVB DCPIN,(R3)+ SAVE THE IND
002058 88E0 1810 1220 MVB OPTN2,(R3) SAVE THE IND
00205C 4724 0234 1221 MVTI DCPIN,R7 GET THE MONITOR IND
002060 4F87 1222 TBT (R7,SEVEN) RESET THE ALT CON IND
002062 4F86 1223 TBT (R7,SIX) RESET THE STOP IND
002064 4724 1C83 1224 MVA UTILT,R7 READI CONTROL BLOCK
002068 601F 1225 SVC READI
00206A 75A7 1226 IR R5,R5 SET THE IND
00206C 6801 2090 1227 BNZ COM33 B-IF ERROR
002070 4324 3FF0 1228 MVA RELSV,R3 GET THE SAVE AREA ADDRESS
002074 8818 0234 1229 MVB (R3)+,DCPIN RESTORE THE INDICATORS
002078 8808 1810 1230 MVB (R3),OPTN2
00207C 1231 COM35 EQU *
00207C 4624 180E 1232 MVA OPTN1,R6 GET OPTION WORD 1 ADR
002080 4800 1233 TBT (R6,TPGSW) IS THE TERMINATE BIT ON
002082 6800 2634 1234 BZ INT RESET DEVICE REQUEST
002086 CA25 1812 1235 MVBZ DEVTB,R2 RESET ASSIGNED BIT
00208A D225 1814 1236 MVDZ DEVAD,R2 TERMINATE PGM
00208E 6007 1237 SVC TERM
002090 1238 COM33 EQU *
002090 8028 1D0D 1832 1239 MVB HEXFF,ERROR SET THE ERROR INDICATOR
002096 4724 1D26 1240 MVA VTRLS,R7 DISKETTE ERROR
00209A 7006 0002 1241 CWI TWO,R5 WAS IT A DISKETTE ERROR
00209E 1007 1242 JE COM34 J-YES
0020A0 4724 1CA0 1243 MVA VTRLS,R7 PNP MESSAGE
0020A4 7006 0001 1244 CWI ONE,R5 WAS IT A PGM NOT FOUND
0020A8 1002 1245 JE COM34 J-YES
0020AA 4724 25AC 1246 MVA ADRP4,R7 MUST HAVE BEEN A VTOC FULL
0020AE 6000 1247 EQU *
0020B0 C725 1832 1248 SVC OUT PRINT THE MESSAGE
0020B4 6800 2634 1249 MVBZ ERROR,R7 IS THE INDICATOR ON
0020B8 50AD 1250 BZ INIT GO TO ENTER MSG
1251 J COM29
1252 *****
1253 *****
1254 *****
1255 * TEST FOR PROGRAM TERMINATE BIT ON. *
1256 * *****
1257 *****
1258 *****
1259 TPGMB EQU *
1260 MVA R6,R6SAV SAVE THE REGISTER
1261 MVA OPTN1,R6 GET OPTION WORD 1 ADR
1262 TBT (R6,TPGSW) IS THE TERMINATE BIT ON
1263 JNZ COM29 B-YES--TERMINATE THE UTILITY
1264 MVB R6SAV,R6 RESTORE THE REGISTER
1265 BXS (R7) RETURN TO CALLING ROUTINE
1266 CMBPF EQU *
1267 *****
1268 *****
1269 *****
1270 * TERMINATE THE PROGRAM. *
1271 * *****
1272 *****
1273 *****
1274 TERMP EQU *
1275 MVA OPTN1,R6 GET OPTION WORD 1 ADR
1276 TBTS (R6,TPGSW) SET THE TERMINATE BIT
1277 J COM29 B-HOUSEKEEP
1278 *****
1279 *****
1280 * NAME ADREP *
1281 * *****
1282 *****

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1283 * PURPOSE ADD OR REPLACE A DATA SET. *
1284 * *****
1285 * METHOD A DATA SET IS READ FROM ONE DISKETTE AND *
1286 * WRITTEN ON ANOTHER. *
1287 * *****
1288 * CALLING SEQUENCE: *
1289 * *****
1290 * 06 *
1291 * *****
1292 *****
1293 ADREP EQU *
1294 MVB HEXFF,OVRLY SET THE INDICATOR
1295 RQST,R7 SET UP THE IPL DEVICE
1296 MVB HEXFF,ASKQT SET THE INDICATOR ON
1297 ADRO1 EQU *
1298 MVB RELOD,R7 IS THE RELOAD IND ON
1299 ADDR2 EQU * J-IF 16K STORAGE
1300 MVWI SIXT5,SCOMP NUMBER OF SECTORS TO READ
1301 MVA FFRBF,BFTAB BUFFER POINTER
1302 J ADRO3
1303 ADRO2 EQU *
1304 MVTI FIFTN,SCOMP NUMBER OF SECTORS
1305 SECBF,BFTAB BUFFER POINTER
1306 ADRO3 EQU *
1307 BAL RQDSN,R7 REQUEST THE DATA SET NAME
1308 BAL TPGMB,R7 TEST THE TERMINATE BIT
1309 MVB R2,R3 SAVE R2
1310 MVA DATSN,R0 TARGET AREA
1311 MVB FIVE,R7 ENTRIES TO COMPARE
1312 ADRO4 EQU *
1313 CD (R0),(R2) DO THEY COMPARE
1314 JE ADRO5 J-YES
1315 ABI EIGHT,R0 BUMP THE ADDRESS
1316 JCT ADRO4,R7 CHECK THEM ALL
1317 ADRO5 EQU *
1318 MVB HEXFF,SECTR T/ON THE IND
1319 ADRO8 EQU *
1320 MVB EIGHT,R7 ENTRIES TO COMPARE
1321 ADRO6 EQU *
1322 MVB EIGHT,R7 ENTRIES TO COMPARE
1323 ADRO7 EQU *
1324 CD (R0),(R2) COMPARE THE BYTES
1325 MVA ADRO9 NO COMPARE
1326 ADRO8 EQU *
1327 MVB HEXFF,EXSEC IND A FIXED SECTOR DATA SET
1328 J ADRO10
1329 ADRO9 EQU *
1330 ABI EIGHT,R0 UPDATE TO NEXT NAME AND EXTENT
1331 JCT ADRO7,R7 CHECK ALL FIXED DATA SETS
1332 ADRO10 EQU *
1333 MVB MORE,R7 IS THERE MORE TO DO
1334 JNZ ADR17 J-YES
1335 MVB FSTSW,R7 IS THE FIRST PASS IND ON
1336 JZ ADR17 J-NO
1337 ADR11 EQU *
1338 MVA DEVIN,R7 ADR OF MSG CONTROL BLOCK
1339 SVC OUTIN ISSUE THE OUTIN
1340 MVB HEXFF,DEVIC GET THE INDICATOR
1341 BAL DEVAA,R6 GET THE DEVICE ADDRESS
1342 J ADR11 ASK AGAIN
1343 MVA R3,DKAD1 SAVE THE ADDRESS
1344 CWI PELID,REDID+TWO IS THIS A 4966 DEVICE
1345 J-NO ADR13
1346 MVA DKPOS,R7 MESSAGE CONTROL BLOCK
1347 SVC OUTIN ISSUE THE MESSAGE
1348 BAL DEVAA,R6 GET THE DEVICE ADDRESS
1349 MVB R3,R5 GET THE DATA
1350 BAL DTH,R7 CONVERT DECIMAL TO HEX
1351 MVB R5,DKAD1 SAVE THE POSITION NUMBER
1352 MVB HEXFF,DKAD3 SET THE INDICATOR
1353 ADR13 EQU *
1354 MVA DEVOU,R7 ADR OF MSG CONTROL BLOCK
1355 SVC OUTIN ISSUE THE OUTIN
1356 MVB HEXFF,DEVIC SET THE INDICATOR
1357 BAL DEVAA,R6 GET THE DEVICE ADDRESS
1358 J ADR13 ASK AGAIN
1359 MVA R3,DKAD2 SAVE THE ADDRESS
1360 CWI PELID,REDID+TWO IS THIS A 4966 DEVICE
1361 J-NO ADR16
1362 MVA DKPOS,R7 MESSAGE CONTROL BLOCK
1363 SVC OUTIN ISSUE THE MESSAGE
1364 BAL DEVAA,R6 GET THE DEVICE ADDRESS
1365 MVB R3,R5 GET THE DATA
1366 BAL DTH,R7 CONVERT DECIMAL TO HEX
1367 MVB R5,DKAD1 SAVE THE POSITION NUMBER
1368 MVB HEXFF,DKAD3+ONE SET THE INDICATOR
1369 ADR16 EQU *
1370 MVB CB DKAD,DKAD3+ONE IS IT THE IPL DEVICE
1371 J-NO ADR17
1372 MVA DKAD3,R7 DEVICE DATA
1373 TBT (R7,SEVEN) IS THE POSITION ONE IND ON
1374 JZ ADR17 J-NO
1375 MVB HEXFF,IPLDV IT IS THE IPL DEVICE
1376 ADR17 EQU *
1377 MVB ASKTQ,R7 SHALL I ASK AGAIN
1378 J-NO ADR18
1379 MVA COM11,R7 MSG TO LOAD FROM DISKETTE
1380 SVC OUTIN ISSUE THE OUTIN
1381 CB BUFR,NO WAS IT A NO ANSWER
1382 JE ADR17 ASK AGAIN
1383 ADR18 EQU *
1384 MVB DKAD1+ONE,DEVAD PUT THE FROM DEV ADR IN CONTROL BLOCK
1385 MVA DKADD,DKADD SET THE PARAMETER
1386 BAL DTIPE,R7 SET UP THE SEEK ROUTINE
1387 MVA DKCTC,R7 CONTROL BLOCK FOR THE CONNECT
1388 SVC CIBC CONNECT FOR INTERRUPT SERVICE
1389 MVB FSTSW,R7 IS FIRST PASS IND ON
1390 JZ ADR19 J-NO
1391 MVA HXHUN,RDWB7 BYTE COUNT
1392 MVB BUFR,RDWB8 DATA ADDRESS
1393 MVA RELOD,R7 IS THE RELOAD IND ON
1394 JZ ADR44 J-NO
1395 MVA COMPR,RDWB8 NEW DATA AREA
1396 ADR44 EQU *
1397 *****
0020D4 8028 1D0D 1D51 0020D4
0020DA 6F03 27C4 0020DA
0020DE 8028 1D0D 1D0C 0020DE
0020E4 0020E4 0020E4
0020E8 C720 1C97 0020E8
1807 0020E8
4020 1D12 0041 0020EA
4020 1D10 3BC6 0020F0
5006 0020F6
0020F8 0020F8
4020 1D12 000F 0020F8
4020 1D10 30F0 0020FE
002104 002104
6F03 26B8 002104
6F03 20BA 002108
7264 00210C
4024 25CC 00210E
0F05 002112
002114 002114
9083 002114
1003 002116
0008 002118
BFEC 00211C
5004 00211C
00211E 00211E
8028 1D0D 1C36 00211E
5003 002124
002126 002126
0F08 002126
002128 002128
9083 002128
1804 00212A
00212C 00212C
8028 1D0D 1C37 00212C
5002 002132
002134 002134
0008 002134
BFF8 002136
002138 002138
C720 1C98 002138
1846 00213C
C720 1CB9 00213E
1043 002142
002144 002144
4724 380E 002148
6001 002148
8028 1D0D 347D 00214A
6E03 2880 002150
50F7 002154
680D 1C4E 002156
402F 1C56 0126 00215A
180D 002160
4724 35A2 002162
6001 002166
6E03 2880 002168
73A4 00216C
6E03 33FA 002174
C528 1C44 002176
8028 1D0D 1C52 002176
00217C 00217C
4724 3830 00217C
6001 002180
8028 1D0D 347D 002182
6E03 2880 002188
50F7 00218C
680D 1C50 00218E
402F 1C56 0126 002192
180D 002198
4724 35A2 00219A
6001 00219E
6E03 2880 0021A4
73A4 0021A6
6F03 33FA 0021A8
C528 1C50 0021AA
8028 1D0D 1C53 0021AE
0021B4 0021B4
802B 0233 1C53 0021B4
1807 0021BA
4724 1C52 0021BC
4F07 0021C0
1003 0021C2
8028 1D0D 1C99 0021C4
0021CA 0021CA
C720 1D0C 0021CA
1007 0021CE
4724 2502 0021D0
6001 0021D4
802B 1C94 182B 0021D6
10F6 0021DC
0021DE 0021DE
8028 1C4F 1814 0021DE
8828 1C4E 1C4C 0021E4
6F03 1BC8 0021E8
4724 1C64 0021E8
6014 0021F2
C720 1CB9 0021F4
101D 0021F8
8828 1B56 1A38 0021FA
4020 1A3A 39C6 002200
C720 1C97 002206
1003 00220A
4020 1A3A 1D5C 00220C
002212 002212

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
0024FE	0000	1626	DC A(0)
002500	00C0	1627	DC X'00C0'
002502	24DA	1628	DC COPM1 A(COPM)
002504	1C94	1629	DC A(BUFAD)
002506	0000	1630	DC A(1)
002508	0000	1631	DC X(0)
00250A	00C0	1632	DC COPM2 X'00C0'
00250C	2558	1633	DC A(COPM)
00250E	1C94	1634	DC A(BUFAD)
002510	C001	1635	DC A(1)
002512	0000	1636	DC A(0)
002514	3889	1637	DC A(UTL29)
002516	C1D5E840D4D6D9C54	1638	DC NEXT DC C'ANY MORE TO DO USING THE SAME FROM AND TO DEVICE ADD'
00251A	D9C5E2E24DC5E25D6	1639	DC C'RESS (RS) ?'
00251C	0000	1640	DC A(0)
00251E	3877	1641	DC A(UTL11)
002520	C9E240E3C8C540E3D	1642	DC COPN DC C'IS THE TO DISKETTE LOADED?'
002522	0000	1643	DC A(0)
002524	3884	1644	DC A(UTL24)
002526	D5D6E340C5D5D6E4C	1645	DC ADR1B DC C'NOT ENOUGH ROOM '
002528	00C0	1646	DC X'00C0'
00252A	2576	1647	DC ADRP3 DC A(ADR1B)
00252C	3885	1648	DC A(UTL25)
00252E	E5E3D6C340C6E4D3D	1649	DC ADR1C DC C'VTOC FULL--DATA SET NOT ADDED '
002530	00C0	1650	DC X'00C0'
002532	258C	1651	DC ADRP4 DC A(ADR1C)
002534	00C0	1652	DC X'00C0'
002536	25BA	1653	DC ADRP1 DC A(ADR1A)
002538	1D4C	1654	DC A(DSNM1)
00253A	0004	1655	DC A(4)
00253C	0000	1656	DC A(0)
00253E	387C	1657	DC A(UTL16)
002540	C4C1E3C140E2C5E34	1658	DC ADR1A DC C'DATA SET NAME IS'
002542	0000	1659	DC A(0)
002544	F2F0C1F1	1660	DC DATSN DC C'20A1'
002546	0000	1661	DC A(PRC1A)
002548	0100	1662	DC A(256)
00254A	F2F5C1F0	1663	DC C'25A0'
00254C	0000	1664	DC A(PRC1A)
00254E	0100	1665	DC A(256)
002550	F2F5C1F1	1666	DC C'25A1'
002552	0000	1667	DC A(PRC1A)
002554	0000	1668	DC A(3328)
002556	F3F4C1F1	1669	DC C'34A1'
002558	0000	1670	DC A(PRC1A)
00255A	0100	1671	DC A(256)
00255C	C5F4C1F1	1672	DC C'E4A1'
00255E	0000	1673	DC A(PRC1A)
002560	0D00	1674	DC A(3328)
002562	F2F0C1F2	1675	DC C'20A2'
002564	03E0	1676	DC X'03E0'
002566	3C00	1677	DC A(15360)
002568	F2F5C1F2	1678	DC C'25A2'
00256A	03FC	1679	DC A(PRC2A)
00256C	3C00	1680	DC A(15360)
00256E	F3F4C1F2	1681	DC C'34A2'
002570	0000	1682	DC A(PRC1A)
002572	0600	1683	DC X'0600'
002574	F2F5C1F3	1684	DC C'25A3'
002576	03FC	1685	DC A(PRC2A)
002578	3C00	1686	DC A(15360)
00257A	F3F4C1F3	1687	DC C'34A3'
00257C	0330	1688	DC X'0330'
00257E	0680	1689	DC X'0680'
002580	F3F8F0F0	1690	DC C'3800'
002582	0000	1691	DC A(PRC1A)
002584	1E00	1692	DC A(7680)
002586	F3F4F0F0	1693	DC C'3400'
002588	0000	1694	DC A(PRC1A)
00258A	1E00	1695	DC A(7680)
00258C	C5F4C1F0	1696	DC C'E4A0'
00258E	0000	1697	DC A(PRC1A)
002590	1E00	1698	DC A(7680)
1700	*	*****	*****
1701	*	THIS IS THE INITIAL ENTRY POINT TO THIS UTILITY.	*
1702	*	*	*
1703	*	*	*
1704	*	*****	*****
1705	INIT EQU *		
1706	MVA COM29,INADR	NEW RESTART ADDRESS	
1707	MVA OPW2,R0	GET THE OPTION WORD	
1708	TBT (R0,EIGHT)	IS THE MENU REQUIRED	
1709	JZ INITB	J-YES	
1710	INITA EQU *		
1711	MVWZ WRD1,R0	CLEAR THE WORD COUNT	
1712	MVWZ SECTR,R0	CLEAR THE IND	
1713	MVBZ BF1FL,R0	CLEAR THE IND	
1714	MVBZ NORTY,R0	CLEAR THE IND	
1715	MVBZ MORE,R0	CLEAR THE IND	
1716	MVBZ ASKOT,R0	CLEAR THE IND	
1717	MVB HEXFF,FSTSW	T/ON THE IND	
1718	MVHI M1,TITL	T/ON THE IND'S	
1719	MVB DEC10,VHDL1	RESTORE THE CONSTANT	
1720	MVB EBCRK,R0	READY TO BLANK OUT LINE	
1721	MVBI SIXTY,R7	LENGTH	
1722	MVA BUF2,R1	ADDRESS OF LINE	
1723	FFN R0,(R1)	BLANK IT OUT	
1724	MVA VTRLH,R7	ENTER OPTIONS MSG ADR	
1725	SVC OUTIN		
1726	J INITC		
1727	INITB EQU *		
1728	MVBI FORTN,R6	NUMBER OF MESSAGES TO PRINT	
1729	MVA VTRL9,R7	COMMUNICATIONS	
1730	INITB EQU *		
1731	SVC OUT		
1732	ABI FOUR,R7	BUMP TO NEXT MESSAGE	
1733	JCT INIB,R6	PRINT ALL MESSAGES	
1734	J INITA	RETURN TO ENTER OPTIONS	
1735	INITC EQU *		
1736	CB BUF2,NUMCM	IS THIS A VALID COMMAND	
1737	JLLT INVAL	J-NO	
1738	SW R2,R2	CLEAR R2	
1739	MVB BUF2,R2	GET THE COMMAND	
1740	SLL ONE,R2	DOUBLE FOR ADR OPERATION	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT
00269E	4324 3526	1741	MVA CMTB,R3
0026A2	7268	1742	AW R2,P3
0026A4	CB00	1743	MVW (R3),R3
0026A6	5300	1744	BXS (R3)
0026A8		1745	INITD EQU *
0026AA	4024 1810	1746	MVA OPTN2,R0
0026AC	48C8	1747	TBT (R0,EIGHT)
0026AE	50C2	1748	J INIT
1750	*	*****	*****
1751	*	INVALID REQUEST MESSAGE	*
1752	*	*	*
1753	*	*	*
1754	*	*****	*****
0026B0		1756	INITD EQU *
0026B2	4724 1C6E	1757	MVA INCMD,R7
0026B4	6000	1758	SVC OUT
0026B6	50BE	1759	J INIT
1760	*	*****	*****
1761	*	*****	*****
1762	*	SUBROUTINE TO REQUEST DATA SET NAME.	*
1763	*	*	*
1764	*	*****	*****
0026B8		1766	RQDSN EQU *
0026BA	6F0D 1D1E	1767	MVW R7,RSVA
0026BC	4724 25B0	1768	MVA ADRP1,R7
0026C0	6001	1769	SVC OUTIN
0026C2	4224 1D4C	1770	MVA DSNM1,R2
0026C6	5045	1771	J REQ1
1772	*	*****	*****
1773	*	*****	*****
1774	*	SUBROUTINE TO REQUEST START ADDRESS.	*
1775	*	*	*
1776	*	*****	*****
0026C8		1778	RQSTA EQU *
0026CA	6F0D 1D1E	1779	MVW R7,RSVA
0026CC	4724 391E	1780	MVA ADRP5,R7
0026D0	6001	1781	SVC OUTIN
0026D2	4224 3AC6	1782	MVA BUF2,R2
0026D6	503D	1783	J REQ1
1785	*	*****	*****
1786	*	*****	*****
1787	*	SUBROUTINE TO REQUEST ENDING ADDRESS.	*
1788	*	*	*
1789	*	*****	*****
0026D8		1791	RQSTE EQU *
0026DA	6F0D 1D1E	1792	MVW R7,RSVA
0026DC	4724 3934	1793	MVA ADRP6,R7
0026E0	6001	1794	SVC OUTIN
0026E2	4224 3AC6	1795	MVA BUF2,R2
0026E6	5035	1796	J REQ1
1797	*	*****	*****
1798	*	*****	*****
1799	*	SUBROUTINE TO REQUEST WORD COUNT FOR PATCHING.	*
1800	*	*	*
1801	*	*****	*****
0026E8		1803	RQCNT EQU *
0026EA	6F0D 1D1E	1804	MVW R7,RSVA
0026EC	4724 3948	1805	MVA ADRP7,R7
0026F0	6001	1806	SVC OUTIN
0026F2	502F	1807	J REQ1
1809	*	*****	*****
1810	*	*****	*****
1811	*	SUBROUTINE TO REQUEST DATA FOR PATCHING.	*
1812	*	*	*
1813	*	*****	*****
0026F4		1815	RQDAT EQU *
0026F6	6F0D 1D1E	1816	MVW R7,RSVA
0026F8	4724 39AA	1817	MVA ADRP8,R7
0026FC	6001	1818	SVC OUTIN
0026FE	CF24 39AE	1819	CV ADRP,R7
002702	1702	1820	JLLT RQDT1
002704	6F08 39AE	1821	MVW ADR8,R7
002708		1822	RQDT1 EQU *
00270A	370A	1823	SLL ONE,R7
00270C	77C4	1824	MVW P7,R6
00270E	4020 1C94 3AC6	1825	MVA BUF2,BUFAD
002712	501F	1826	J REQ1
1827	*	*****	*****
1828	*	*****	*****
1829	*	SUBROUTINE TO REQUEST STARTING CYLINDER.	*
1830	*	*	*
1831	*	*****	*****
002714		1833	REQCY EQU *
002716	6F0D 1D1E	1834	MVW R7,RSVA
002718	4724 395E	1835	MVA ADRP9,R7
00271C	6001	1836	SVC OUTIN
00271E	6D08 3AC6	1837	MVW BUF2,R5
002722	5017	1838	J REQ1
1840	*	*****	*****
1841	*	*****	*****
1842	*	SUBROUTINE TO REQUEST HEAD (0 OR 1).	*
1843	*	*	*
1844	*	*****	*****
002724		1846	REQHD EQU *
002726	6F0D 1D1E	1847	MVW R7,RSVA
002728	4724 396E	1848	MVA ADRPA,R7
00272C	6001	1849	SVC OUTIN
00272E	6D08 3AC6	1850	MVW BUF2,R5
002732	500F	1851	J REQ1
1853	*	*****	*****
1854	*	*****	*****
1855	*	SUBROUTINE TO REQUEST SECTOR.	*
1856	*	*	*
1857	*	*****	*****
002734		1859	REQSC EQU *
002736	6F0D 1D1E	1860	MVW R7,RSVA
002738	4724 397E	1861	MVA ADRPB,R7
00273C	6001	1862	SVC OUTIN
00273E	6D08 3AC6	1863	MVW BUF2,R5
002742	5007	1864	J REQ1
1866	*	*****	*****
1867	*	*****	*****
1868	*	SUBROUTINE TO REQUEST NUMBER SECTORS.	*
1869	*	*	*

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003006 4124 39C6 2797 MVA BUF1,R1 START OF BUFFER AREA
00300A 71EA 2798 SW R1,R7 NUMBER OF BYTES TO CLEAR

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
003132 4624 0168 2913 WAIT1 MWVI EVTOC,R6 WAIT FOR THE DEVICE TO SETTLE
003136 7136 2914 EQU *
003138 6003 2915 SVC IDLE5

LOCTR	OBJECT TEXT	STMT	SOURCE	STATEMENT
003978	C8C5C1C4	3485	ADRAC	DC C'HFAD'
00397C	00C0	3486		DC X'00C0'
00397E	3988	3487	ADRPB	DC A(ADRB)
003980	3AC6	3488		DC A(BUF2)
003982	0004	3489		DC A(4)
003984	0001	3490		DC A(1)
003986	3881	3491		DC A(UTL21)
003988	E2C5C3E3D6D9	3492	ADPBA	DC C'SFCTOR'
00398E	00C0	3493		DC X'00C0'
003990	399A	3494	ADRPC	DC A(ADRC)
003992	3AC6	3495		DC A(BUF2)
003994	0004	3496		DC A(4)
003996	0001	3497		DC A(1)
003998	3882	3498		DC A(UTL22)
00399A	D5E4D440D6C640E2C	3499	ADRC	DC C'NUM OF SECTORS'
00399C	00C0	3500		DC X'00C0'
00399E	3984	3501	ADRPB	DC A(ADRB)
0039A	3AC6	3502		DC A(BUF2)
0039AE	0040	3503	ADR8	DC A(64)
0039B0	0001	3504		DC A(1)
0039B2	3883	3505		DC A(UTL23)
0039B4	C4C1E3C1	3506	ADR8A	DC C'DATA'
0039B8	00	3507		DC X'00'
0039BA	0002	3508	HTACA	DC A(2)
0039BC	0000	3509	HTACB	DC A(*-*)
0039BE	0000	3510	HTACC	DC A(*-*)
0039C0	0001	3511	HEDCV	DC A(1)
0039C2	1C79	3512		DC A(SAV2A)
0039C4	389A	3513		DC A(DSG4B)
0039C6	0000C0C0C0C0C0C0C0C0	3514	BUF1	DC 128A(0)
0039C8	0000C0C0C0C0C0C0C0C0	3515	BUF2	DC 128A(0)
0039CA		3516	BF120	EQU BUF2+120
0039CB		3517	BF122	EQU BUF2+122
0039B40		3518	ALIGN	WORD
0039C6		3519	ERRRF	EQU *
		3520	ORG	U38F9+X'18F0'
0039F0		3521	SECBF	EQU *
		3522	ORG	U38F9+X'27F0'
0039F0		3523	RELSV	EQU *
002634		3524	END	INIT

DECLARED	NAME	ATTRIBUTES AND REFERENCES
3102	ACCU	ADDRESS. HEX LOCATION (00003328) IN CSECT(U38F9)) LENGTH(1)
3107	ACCU5	ADDRESS. HEX LOCATION (0000333C) IN CSECT(U38F9)) LENGTH(1)
3485	ADRAC	ADDRESS. HEX LOCATION (00003978) IN CSECT(U38F9)) LENGTH(4)
3492	ADRBA	ADDRESS. HEX LOCATION (00003988) IN CSECT(U38F9)) LENGTH(6)
3499	ADRC	ADDRESS. HEX LOCATION (0000399A) IN CSECT(U38F9)) LENGTH(14)
1294	ADREP	ADDRESS. HEX LOCATION (000020D4) IN CSECT(U38F9)) LENGTH(1)
3480	ADPBA	ADDRESS. HEX LOCATION (0000396E) IN CSECT(U38F9)) LENGTH(2)
3487	ADRPB	ADDRESS. HEX LOCATION (0000397E) IN CSECT(U38F9)) LENGTH(2)
3494	ADRPC	ADDRESS. HEX LOCATION (00003990) IN CSECT(U38F9)) LENGTH(2)
1653	ADRP1	ADDRESS. HEX LOCATION (000025B0) IN CSECT(U38F9)) LENGTH(2)
1647	ADRP3	ADDRESS. HEX LOCATION (00002588) IN CSECT(U38F9)) LENGTH(2)
1651	ADRP4	ADDRESS. HEX LOCATION (000025AC) IN CSECT(U38F9)) LENGTH(2)
3452	ADRP5	ADDRESS. HEX LOCATION (0000391E) IN CSECT(U38F9)) LENGTH(2)
3459	ADRP6	ADDRESS. HEX LOCATION (00003934) IN CSECT(U38F9)) LENGTH(2)
3466	ADRP7	ADDRESS. HEX LOCATION (00003948) IN CSECT(U38F9)) LENGTH(2)
3501	ADRP8	ADDRESS. HEX LOCATION (000039AA) IN CSECT(U38F9)) LENGTH(2)
3473	ADRP9	ADDRESS. HEX LOCATION (0000395E) IN CSECT(U38F9)) LENGTH(2)
1298	ADR01	ADDRESS. HEX LOCATION (000020E4) IN CSECT(U38F9)) LENGTH(1)
1304	ADR02	ADDRESS. HEX LOCATION (000020F8) IN CSECT(U38F9)) LENGTH(1)
1307	ADR03	ADDRESS. HEX LOCATION (00002104) IN CSECT(U38F9)) LENGTH(1)
1313	ADR04	ADDRESS. HEX LOCATION (00002114) IN CSECT(U38F9)) LENGTH(1)
1319	ADR05	ADDRESS. HEX LOCATION (0000211E) IN CSECT(U38F9)) LENGTH(1)
1322	ADR06	ADDRESS. HEX LOCATION (00002126) IN CSECT(U38F9)) LENGTH(1)
1324	ADR07	ADDRESS. HEX LOCATION (00002128) IN CSECT(U38F9)) LENGTH(1)
1327	ADR08	ADDRESS. HEX LOCATION (0000212C) IN CSECT(U38F9)) LENGTH(1)
1330	ADR09	ADDRESS. HEX LOCATION (00002134) IN CSECT(U38F9)) LENGTH(1)
1658	ADR1A	ADDRESS. HEX LOCATION (000025BA) IN CSECT(U38F9)) LENGTH(16)
1645	ADR1B	ADDRESS. HEX LOCATION (00002576) IN CSECT(U38F9)) LENGTH(16)
1649	ADR1C	ADDRESS. HEX LOCATION (0000258C) IN CSECT(U38F9)) LENGTH(30)
1333	ADR10	ADDRESS. HEX LOCATION (00002138) IN CSECT(U38F9)) LENGTH(1)
1338	ADR11	ADDRESS. HEX LOCATION (00002144) IN CSECT(U38F9)) LENGTH(1)
1354	ADR13	ADDRESS. HEX LOCATION (0000217C) IN CSECT(U38F9)) LENGTH(1)
1370	ADR16	ADDRESS. HEX LOCATION (000021B4) IN CSECT(U38F9)) LENGTH(1)
1377	ADR17	ADDRESS. HEX LOCATION (000021CA) IN CSECT(U38F9)) LENGTH(1)
1384	ADR18	ADDRESS. HEX LOCATION (000021DE) IN CSECT(U38F9)) LENGTH(1)
1408	ADR19	ADDRESS. HEX LOCATION (00002234) IN CSECT(U38F9)) LENGTH(1)
1415	ADR20	ADDRESS. HEX LOCATION (0000224C) IN CSECT(U38F9)) LENGTH(1)
1422	ADR21	ADDRESS. HEX LOCATION (00002264) IN CSECT(U38F9)) LENGTH(1)
1435	ADR22	ADDRESS. HEX LOCATION (00002284) IN CSECT(U38F9)) LENGTH(1)
1437	ADR23	ADDRESS. HEX LOCATION (00002288) IN CSECT(U38F9)) LENGTH(1)
1441	ADR24	ADDRESS. HEX LOCATION (00002294) IN CSECT(U38F9)) LENGTH(1)
1446	ADR25	ADDRESS. HEX LOCATION (000022A0) IN CSECT(U38F9)) LENGTH(1)
1455	ADR26	ADDRESS. HEX LOCATION (000022BA) IN CSECT(U38F9)) LENGTH(1)
1463	ADR27	ADDRESS. HEX LOCATION (000022D2) IN CSECT(U38F9)) LENGTH(1)
1465	ADR28	ADDRESS. HEX LOCATION (000022D8) IN CSECT(U38F9)) LENGTH(1)
1475	ADR29	ADDRESS. HEX LOCATION (000022F8) IN CSECT(U38F9)) LENGTH(1)
1497	ADR30	ADDRESS. HEX LOCATION (00002346) IN CSECT(U38F9)) LENGTH(1)
1512	ADR31	ADDRESS. HEX LOCATION (0000237A) IN CSECT(U38F9)) LENGTH(1)
1522	ADR32	ADDRESS. HEX LOCATION (00002398) IN CSECT(U38F9)) LENGTH(1)
1538	ADR33	ADDRESS. HEX LOCATION (000023C6) IN CSECT(U38F9)) LENGTH(1)
1540	ADR34	ADDRESS. HEX LOCATION (000023CA) IN CSECT(U38F9)) LENGTH(1)
1544	ADR35	ADDRESS. HEX LOCATION (000023D6) IN CSECT(U38F9)) LENGTH(1)
1548	ADR36	ADDRESS. HEX LOCATION (000023DE) IN CSECT(U38F9)) LENGTH(1)
1557	ADR37	ADDRESS. HEX LOCATION (000023F8) IN CSECT(U38F9)) LENGTH(1)
1567	ADR38	ADDRESS. HEX LOCATION (00002418) IN CSECT(U38F9)) LENGTH(1)
1573	ADR39	ADDRESS. HEX LOCATION (0000242C) IN CSECT(U38F9)) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1575	ADR40	1569 ADDRESS. HEX LOCATION(00002432) IN CSECT(U38F9) LENGTH(1)
1585	ADR41	1572 ADDRESS. HEX LOCATION(0000245E) IN CSECT(U38F9) LENGTH(1)
1594	ADR42	1582 ADDRESS. HEX LOCATION(0000247A) IN CSECT(U38F9) LENGTH(1)
1610	ADR43	1589 ADDRESS. HEX LOCATION(000024B4) IN CSECT(U38F9) LENGTH(1)
1397	ADR44	1601 ADDRESS. HEX LOCATION(00002212) IN CSECT(U38F9) LENGTH(1)
1503	ADR45	1395 ADDRESS. HEX LOCATION(0000235E) IN CSECT(U38F9) LENGTH(1)
3457	ADR5A	1501 ADDRESS. HEX LOCATION(00003928) IN CSECT(U38F9) LENGTH(10)
3464	ADR6A	3452 ADDRESS. HEX LOCATION(0000393E) IN CSECT(U38F9) LENGTH(8)
3471	ADR7A	3459 ADDRESS. HEX LOCATION(00003952) IN CSECT(U38F9) LENGTH(10)
3503	ADR8	3466 ADDRESS. HEX LOCATION(000039AE) IN CSECT(U38F9) LENGTH(2)
3506	ADR8A	1819 1821 2359 2432 2685 2731 ADDRESS. HEX LOCATION(000039B4) IN CSECT(U38F9) LENGTH(4)
3478	ADR9A	3501 ADDRESS. HEX LOCATION(00003968) IN CSECT(U38F9) LENGTH(4)
3190	ALL	3473 ADDRESS. HEX LOCATION(00003432) IN CSECT(U38F9) LENGTH(4)
926	ASKQT	3484 ADDRESS. HEX LOCATION(00001D0C) IN CSECT(U38F9) LENGTH(1)
3200	BCONT	1297 1378 1466 1474 1716 1940 1965 2054 2940 ADDRESS. HEX LOCATION(00003454) IN CSECT(U38F9) LENGTH(2)
930	BFTAB	2985 ADDRESS. HEX LOCATION(00001D10) IN CSECT(U38F9) LENGTH(2)
861	BF1FL	1302 1306 1409 1494 1523 1578 1579 ADDRESS. HEX LOCATION(00001C4A) IN CSECT(U38F9) LENGTH(1)
871	BF1ND	862 1418 1562 1713 2206 2239 2293 2324 ADDRESS. HEX LOCATION(00001C5C) IN CSECT(U38F9) LENGTH(2)
869	BF1PT	1014 1062 1080 1081 1176 ADDRESS. HEX LOCATION(00001C58) IN CSECT(U38F9) LENGTH(2)
3516	BF120	980 983 986 988 990 1043 1174 1180 ADDRESS. HEX LOCATION(00003B3E) IN CSECT(U38F9) LENGTH(1)
3517	BF122	2375 2377 2380 ADDRESS. HEX LOCATION(00003B40) IN CSECT(U38F9) LENGTH(1)
870	BF2PT	2376 ADDRESS. HEX LOCATION(00001C5A) IN CSECT(U38F9) LENGTH(2)
107	BOE	1002 1024 1033 ABSOLUTE. HEX VALUE(00000006)
3234	BOTH	1047 1049 1051 1053 1059 1074 1160 1194 1403 ADDRESS. HEX LOCATION(000034FB) IN CSECT(U38F9) LENGTH(1)
898	BUFAD	1486 1593 1921 2099 2775 2781 ADDRESS. HEX LOCATION(00001C94) IN CSECT(U38F9) LENGTH(2)
868	BUFFR	2938 3027 ADDRESS. HEX LOCATION(00001C56) IN CSECT(U38F9) LENGTH(2)
3514	BUF1	1382 1470 1629 1634 1825 2420 2423 2721 ADDRESS. HEX LOCATION(000039C6) IN CSECT(U38F9) LENGTH(2)
3515	BUF2	920 1057 1073 1159 1193 1215 1516 1590 1616 ADDRESS. HEX LOCATION(00003AC6) IN CSECT(U38F9) LENGTH(2)
3268	BY128	2976 3048 3105 3119 3162 3163 3164 ADDRESS. HEX LOCATION(00003554) IN CSECT(U38F9) LENGTH(2)
678	CALIB	600 666 898 871 1499 1722 1736 1739 1782 ADDRESS. HEX LOCATION(00001AEO) IN CSECT(U38F9) LENGTH(2)
50	CICB	2980 2986 2994 3034 3040 3072 3375 3453 3460 ABSOLUTE. HEX VALUE(00000014)
3247	CMDTB	3474 3481 3488 3495 3502 3516 3517 ADDRESS. HEX LOCATION(00003526) IN CSECT(U38F9) LENGTH(1)
1266	CMPPB	1389 1480 1982 ADDRESS. HEX LOCATION(000020CC) IN CSECT(U38F9) LENGTH(1)
975	COMPR	174 ADDRESS. HEX LOCATION(00001D5C) IN CSECT(U38F9) LENGTH(1)
982	COM01	980 ADDRESS. HEX LOCATION(00001D74) IN CSECT(U38F9) LENGTH(1)
984	COM02	1396 3253 ADDRESS. HEX LOCATION(00001D7A) IN CSECT(U38F9) LENGTH(1)
992	COM03	979 ADDRESS. HEX LOCATION(00001D9C) IN CSECT(U38F9) LENGTH(1)
1000	COM04	981 ADDRESS. HEX LOCATION(00001DB4) IN CSECT(U38F9) LENGTH(1)
1008	COM05	999 ADDRESS. HEX LOCATION(00001DCA) IN CSECT(U38F9) LENGTH(1)
1023	COM06	996 1010 ADDRESS. HEX LOCATION(00001DF6) IN CSECT(U38F9) LENGTH(1)
1030	COM07	1022 1034 ADDRESS. HEX LOCATION(00001E08) IN CSECT(U38F9) LENGTH(1)
1035	COM08	1005 ADDRESS. HEX LOCATION(00001E12) IN CSECT(U38F9) LENGTH(1)
1042	COM09	1026 ADDRESS. HEX LOCATION(00001E2A) IN CSECT(U38F9) LENGTH(1)
1044	COM10	1022 ADDRESS. HEX LOCATION(00001E2E) IN CSECT(U38F9) LENGTH(1)
1055	COM11	1068 1163 ADDRESS. HEX LOCATION(00001E5A) IN CSECT(U38F9) LENGTH(1)
1060	COM12	1063 ADDRESS. HEX LOCATION(00001E6E) IN CSECT(U38F9) LENGTH(1)
1069	COM13	1167 1502 ADDRESS. HEX LOCATION(00001E88) IN CSECT(U38F9) LENGTH(1)
1079	COM14	1046 1050 1054 1166 1172 ADDRESS. HEX LOCATION(00001EA6) IN CSECT(U38F9) LENGTH(1)
1087	COM15	1066 ADDRESS. HEX LOCATION(00001EC4) IN CSECT(U38F9) LENGTH(1)
1100	COM16	1157 ADDRESS. HEX LOCATION(00001EE4) IN CSECT(U38F9) LENGTH(1)
1102	COM17	1083 ADDRESS. HEX LOCATION(00001EE8) IN CSECT(U38F9) LENGTH(1)
1106	COM18	1091 ADDRESS. HEX LOCATION(00001EF4) IN CSECT(U38F9) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1119	COM19	1097 1099 1104 ADDRESS. HEX LOCATION(00001F1A) IN CSECT(U38F9) LENGTH(1)
1136	COM20	1115 1116 ADDRESS. HEX LOCATION(00001F4A) IN CSECT(U38F9) LENGTH(1)
1138	COM21	1127 ADDRESS. HEX LOCATION(00001F4E) IN CSECT(U38F9) LENGTH(1)
1142	COM22	1153 ADDRESS. HEX LOCATION(00001F5A) IN CSECT(U38F9) LENGTH(1)
1154	COM23	1133 1135 1140 ADDRESS. HEX LOCATION(00001F7C) IN CSECT(U38F9) LENGTH(1)
1164	COM24	1150 1151 ADDRESS. HEX LOCATION(00001FA6) IN CSECT(U38F9) LENGTH(1)
1168	COM25	1092 ADDRESS. HEX LOCATION(00001FB2) IN CSECT(U38F9) LENGTH(1)
1173	COM26	1048 ADDRESS. HEX LOCATION(00001FC8) IN CSECT(U38F9) LENGTH(1)
1184	COM27	1071 ADDRESS. HEX LOCATION(00001FF4) IN CSECT(U38F9) LENGTH(1)
1192	COM28	1191 ADDRESS. HEX LOCATION(0000200C) IN CSECT(U38F9) LENGTH(1)
1195	COM29	1188 ADDRESS. HEX LOCATION(00002014) IN CSECT(U38F9) LENGTH(1)
1201	COM30	1251 1263 1277 1521 1618 1706 2080 2195 2227 ADDRESS. HEX LOCATION(00002022) IN CSECT(U38F9) LENGTH(1)
1212	COM31	1198 ADDRESS. HEX LOCATION(00002042) IN CSECT(U38F9) LENGTH(1)
1217	COM32	1216 ADDRESS. HEX LOCATION(00002050) IN CSECT(U38F9) LENGTH(1)
1238	COM33	1209 ADDRESS. HEX LOCATION(00002090) IN CSECT(U38F9) LENGTH(1)
1247	COM34	994 1112 1147 1186 1227 1400 1448 1506 1550 ADDRESS. HEX LOCATION(000020AE) IN CSECT(U38F9) LENGTH(1)
1231	COM35	1584 1599 1604 1609 1893 2067 2084 2182 2305 ADDRESS. HEX LOCATION(0000207C) IN CSECT(U38F9) LENGTH(1)
1620	COPH	2367 2440 2452 2458 2549 2710 2738 2773 2794 ADDRESS. HEX LOCATION(000024DA) IN CSECT(U38F9) LENGTH(28)
1628	COPM1	2835 2872 2875 2890 2898 2903 ADDRESS. HEX LOCATION(00002502) IN CSECT(U38F9) LENGTH(2)
1633	COPM2	1209 ADDRESS. HEX LOCATION(0000250C) IN CSECT(U38F9) LENGTH(2)
3444	COPM3	1468 ADDRESS. HEX LOCATION(000038AC) IN CSECT(U38F9) LENGTH(2)
3448	COPM4	2862 ADDRESS. HEX LOCATION(000038E6) IN CSECT(U38F9) LENGTH(2)
1642	COPN	2946 ADDRESS. HEX LOCATION(00002558) IN CSECT(U38F9) LENGTH(26)
3446	COPN1	1633 ADDRESS. HEX LOCATION(000038B0) IN CSECT(U38F9) LENGTH(52)
3450	COPN2	3444 ADDRESS. HEX LOCATION(000038EA) IN CSECT(U38F9) LENGTH(50)
2623	CTB	3448 ADDRESS. HEX LOCATION(00002E6E) IN CSECT(U38F9) LENGTH(1)
873	CTLBK	2487 2510 2516 2653 2677 2698 ADDRESS. HEX LOCATION(00001C60) IN CSECT(U38F9) LENGTH(2)
893	CVPC1	1204 1958 ADDRESS. HEX LOCATION(00001C8A) IN CSECT(U38F9) LENGTH(2)
894	CVPC2	2110 ADDRESS. HEX LOCATION(00001C8C) IN CSECT(U38F9) LENGTH(2)
895	CVPC3	2108 ADDRESS. HEX LOCATION(00001C8E) IN CSECT(U38F9) LENGTH(2)
1660	DATSN	2109 ADDRESS. HEX LOCATION(000025CC) IN CSECT(U38F9) LENGTH(4)
122	DCPCY	1311 1894 ABSOLUTE. HEX VALUE(0000C00A)
63	DCPIN	733 ABSOLUTE. HEX VALUE(00000234)
2166	DDPGM	1219 1221 ADDRESS. HEX LOCATION(000029BA) IN CSECT(U38F9) LENGTH(1)
2174	DDP01	3249 ADDRESS. HEX LOCATION(000029D2) IN CSECT(U38F9) LENGTH(1)
2180	DDP02	2171 ADDRESS. HEX LOCATION(000029D8) IN CSECT(U38F9) LENGTH(1)
2192	DDP03	2215 2270 ADDRESS. HEX LOCATION(000029FC) IN CSECT(U38F9) LENGTH(1)
2196	DDP04	2278 2466 ADDRESS. HEX LOCATION(00002A06) IN CSECT(U38F9) LENGTH(1)
2199	DDP05	2186 ADDRESS. HEX LOCATION(00002A0A) IN CSECT(U38F9) LENGTH(1)
2209	DDP06	2191 ADDRESS. HEX LOCATION(00002A22) IN CSECT(U38F9) LENGTH(1)
2219	DDP07	2207 ADDRESS. HEX LOCATION(00002A32) IN CSECT(U38F9) LENGTH(1)
2224	DDP08	2211 ADDRESS. HEX LOCATION(00002A3E) IN CSECT(U38F9) LENGTH(1)
2228	DDP09	2214 2280 2691 2695 ADDRESS. HEX LOCATION(00002A48) IN CSECT(U38F9) LENGTH(1)
2243	DDP10	2223 2263 2294 2296 ADDRESS. HEX LOCATION(00002A64) IN CSECT(U38F9) LENGTH(1)
2258	DDP11	2231 ADDRESS. HEX LOCATION(00002A94) IN CSECT(U38F9) LENGTH(1)
2262	DDP12	2255 ADDRESS. HEX LOCATION(00002A9A) IN CSECT(U38F9) LENGTH(6)
2271	DDP13	2260 ADDRESS. HEX LOCATION(00002AB2) IN CSECT(U38F9) LENGTH(1)
2275	DDP14	2268 2282 ADDRESS. HEX LOCATION(00002ABC) IN CSECT(U38F9) LENGTH(1)
2285	DDP15	2184 ADDRESS. HEX LOCATION(00002AE2) IN CSECT(U38F9) LENGTH(1)
2297	DDP16	2307 ADDRESS. HEX LOCATION(00002B04) IN CSECT(U38F9) LENGTH(1)
2303	DDP17	2265 2290 ADDRESS. HEX LOCATION(00002B12) IN CSECT(U38F9) LENGTH(1)
947	DEC10	2301 ADDRESS. HEX LOCATION(00001D3F) IN CSECT(U38F9) LENGTH(2)
2767	DELET	1718 ADDRESS. HEX LOCATION(00002FAA) IN CSECT(U38F9) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2780	DELO1	ADDRESS. HEX LOCATION (00002FD4) IN CSECT (U38F9) LENGTH (1)
2810	DELO2	ADDRESS. HEX LOCATION (0000302C) IN CSECT (U38F9) LENGTH (1)
2823	DELO3	ADDRESS. HEX LOCATION (0000304C) IN CSECT (U38F9) LENGTH (1)
2825	DELO4	ADDRESS. HEX LOCATION (0000305C) IN CSECT (U38F9) LENGTH (1)
2829	DELO5	ADDRESS. HEX LOCATION (0000305C) IN CSECT (U38F9) LENGTH (1)
2841	DELO6	ADDRESS. HEX LOCATION (0000307C) IN CSECT (U38F9) LENGTH (1)
1994	DEVAA	ADDRESS. HEX LOCATION (00002880) IN CSECT (U38F9) LENGTH (1)
1999	DEVAB	ADDRESS. HEX LOCATION (0000288C) IN CSECT (U38F9) LENGTH (1)
2002	DEVAC	ADDRESS. HEX LOCATION (00002892) IN CSECT (U38F9) LENGTH (1)
179	DEVAD	ADDRESS. HEX LOCATION (00001814) IN CSECT (U38F9) LENGTH (2)
2014	DEVAE	ADDRESS. HEX LOCATION (000028BC) IN CSECT (U38F9) LENGTH (1)
182	DEVGN	ADDRESS. HEX LOCATION (00001824) IN CSECT (U38F9) LENGTH (2)
3411	DEVI	ADDRESS. HEX LOCATION (00003818) IN CSECT (U38F9) LENGTH (8)
3213	DEVIC	ADDRESS. HEX LOCATION (0000347D) IN CSECT (U38F9) LENGTH (1)
3406	DEVIN	ADDRESS. HEX LOCATION (0000380E) IN CSECT (U38F9) LENGTH (2)
3421	DEVO	ADDRESS. HEX LOCATION (0000383A) IN CSECT (U38F9) LENGTH (6)
3416	DEVOU	ADDRESS. HEX LOCATION (00003830) IN CSECT (U38F9) LENGTH (2)
3401	DEVRO	ADDRESS. HEX LOCATION (00003804) IN CSECT (U38F9) LENGTH (2)
178	DEVTB	ADDRESS. HEX LOCATION (00001812) IN CSECT (U38F9) LENGTH (2)
2016	DEV00	ADDRESS. HEX LOCATION (000028BE) IN CSECT (U38F9) LENGTH (2)
3414	DEV1	ADDRESS. HEX LOCATION (00003824) IN CSECT (U38F9) LENGTH (10)
372	DFORM	ADDRESS. HEX LOCATION (00001892) IN CSECT (U38F9) LENGTH (1)
2053	DIPVT	ADDRESS. HEX LOCATION (000028C0) IN CSECT (U38F9) LENGTH (1)
2065	DIP01	ADDRESS. HEX LOCATION (000028E6) IN CSECT (U38F9) LENGTH (1)
2069	DIP02	ADDRESS. HEX LOCATION (000028F0) IN CSECT (U38F9) LENGTH (1)
2077	DIP03	ADDRESS. HEX LOCATION (00002900) IN CSECT (U38F9) LENGTH (1)
2081	DIP04	ADDRESS. HEX LOCATION (0000290A) IN CSECT (U38F9) LENGTH (1)
2089	DIP05	ADDRESS. HEX LOCATION (00002920) IN CSECT (U38F9) LENGTH (1)
2119	DIP06	ADDRESS. HEX LOCATION (0000296C) IN CSECT (U38F9) LENGTH (1)
2125	DIP07	ADDRESS. HEX LOCATION (0000297E) IN CSECT (U38F9) LENGTH (1)
2130	DIP08	ADDRESS. HEX LOCATION (0000298C) IN CSECT (U38F9) LENGTH (1)
2132	DIP09	ADDRESS. HEX LOCATION (00002992) IN CSECT (U38F9) LENGTH (1)
62	DKAD	ABSOLUTE. HEX VALUE (00000233)
863	DKADD	ADDRESS. HEX LOCATION (00001C4C) IN CSECT (U38F9) LENGTH (2)
864	DKAD1	ADDRESS. HEX LOCATION (00001C4E) IN CSECT (U38F9) LENGTH (2)
865	DKAD2	ADDRESS. HEX LOCATION (00001C50) IN CSECT (U38F9) LENGTH (2)
866	DKAD3	ADDRESS. HEX LOCATION (00001C52) IN CSECT (U38F9) LENGTH (2)
875	DKCIC	ADDRESS. HEX LOCATION (00001C64) IN CSECT (U38F9) LENGTH (2)
700	DKHL	ADDRESS. HEX LOCATION (00001BC2) IN CSECT (U38F9) LENGTH (1)
876	DKII	ADDRESS. HEX LOCATION (00001C66) IN CSECT (U38F9) LENGTH (2)
877	DKIII	ADDRESS. HEX LOCATION (00001C68) IN CSECT (U38F9) LENGTH (2)
691	DKLL	ADDRESS. HEX LOCATION (00001AF0) IN CSECT (U38F9) LENGTH (2)
736	DKNUM	ADDRESS. HEX LOCATION (00001B50) IN CSECT (U38F9) LENGTH (2)
3293	DKPOS	ADDRESS. HEX LOCATION (000035A2) IN CSECT (U38F9) LENGTH (2)
3332	DKPS1	ADDRESS. HEX LOCATION (000035F0) IN CSECT (U38F9) LENGTH (32)
684	DKPST	ADDRESS. HEX LOCATION (00001AE8) IN CSECT (U38F9) LENGTH (2)
732	DKPTY	ADDRESS. HEX LOCATION (00001B48) IN CSECT (U38F9) LENGTH (2)
697	DKR4	ADDRESS. HEX LOCATION (00001AF0) IN CSECT (U38F9) LENGTH (2)
698	DKR5	ADDRESS. HEX LOCATION (00001AFE) IN CSECT (U38F9) LENGTH (2)
688	DKSV	ADDRESS. HEX LOCATION (00001AEA) IN CSECT (U38F9) LENGTH (2)
689	DKSV2	ADDRESS. HEX LOCATION (00001AEC) IN CSECT (U38F9) LENGTH (2)
440	DK04	ADDRESS. HEX LOCATION (00001918) IN CSECT (U38F9) LENGTH (1)
442	DK10	ADDRESS. HEX LOCATION (0000191C) IN CSECT (U38F9) LENGTH (1)
448	DK12	ADDRESS. HEX LOCATION (00001932) IN CSECT (U38F9) LENGTH (1)
949	DPMSG	ADDRESS. HEX LOCATION (00001D42) IN CSECT (U38F9) LENGTH (2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
381	DREAD	ADDRESS. HEX LOCATION (00001898) IN CSECT (U38F9) LENGTH (1)
355	DSCID	ADDRESS. HEX LOCATION (00001886) IN CSECT (U38F9) LENGTH (1)
3436	DSG4	ADDRESS. HEX LOCATION (00003884) IN CSECT (U38F9) LENGTH (4)
3437	DSG4A	ADDRESS. HEX LOCATION (00003888) IN CSECT (U38F9) LENGTH (8)
3438	DSG4B	ADDRESS. HEX LOCATION (00003890) IN CSECT (U38F9) LENGTH (8)
3439	DSG4C	ADDRESS. HEX LOCATION (00003898) IN CSECT (U38F9) LENGTH (2)
3441	DSG6	ADDRESS. HEX LOCATION (0000389C) IN CSECT (U38F9) LENGTH (13)
437	DSKIT	ADDRESS. HEX LOCATION (0000190E) IN CSECT (U38F9) LENGTH (1)
681	DSKPR	ADDRESS. HEX LOCATION (00001AF4) IN CSECT (U38F9) LENGTH (2)
397	DSK10	ADDRESS. HEX LOCATION (000018A2) IN CSECT (U38F9) LENGTH (1)
399	DSK11	ADDRESS. HEX LOCATION (000018A8) IN CSECT (U38F9) LENGTH (1)
407	DSK2C	ADDRESS. HEX LOCATION (000018CA) IN CSECT (U38F9) LENGTH (1)
951	DSNAM	ADDRESS. HEX LOCATION (00001D46) IN CSECT (U38F9) LENGTH (6)
952	DSNM1	ADDRESS. HEX LOCATION (00001D4C) IN CSECT (U38F9) LENGTH (4)
2484	DSPDS	ADDRESS. HEX LOCATION (00002C98) IN CSECT (U38F9) LENGTH (1)
2495	DSP01	ADDRESS. HEX LOCATION (00002CC2) IN CSECT (U38F9) LENGTH (1)
2504	DSP02	ADDRESS. HEX LOCATION (00002CE0) IN CSECT (U38F9) LENGTH (1)
2506	DSP03	ADDRESS. HEX LOCATION (00002CE6) IN CSECT (U38F9) LENGTH (1)
2508	DSP04	ADDRESS. HEX LOCATION (00002CEC) IN CSECT (U38F9) LENGTH (1)
2521	DSP05	ADDRESS. HEX LOCATION (00002D20) IN CSECT (U38F9) LENGTH (1)
2547	DSP06	ADDRESS. HEX LOCATION (00002D76) IN CSECT (U38F9) LENGTH (1)
2556	DSP07	ADDRESS. HEX LOCATION (00002D90) IN CSECT (U38F9) LENGTH (1)
2558	DSP08	ADDRESS. HEX LOCATION (00002D94) IN CSECT (U38F9) LENGTH (1)
2571	DSP09	ADDRESS. HEX LOCATION (00002DC2) IN CSECT (U38F9) LENGTH (1)
2600	DSP10	ADDRESS. HEX LOCATION (00002E26) IN CSECT (U38F9) LENGTH (1)
2602	DSP11	ADDRESS. HEX LOCATION (00002E2C) IN CSECT (U38F9) LENGTH (1)
2607	DSP12	ADDRESS. HEX LOCATION (00002E40) IN CSECT (U38F9) LENGTH (1)
2610	DSP13	ADDRESS. HEX LOCATION (00002E48) IN CSECT (U38F9) LENGTH (1)
2616	DSP14	ADDRESS. HEX LOCATION (00002E5C) IN CSECT (U38F9) LENGTH (1)
2619	DSP15	ADDRESS. HEX LOCATION (00002E64) IN CSECT (U38F9) LENGTH (1)
3432	DSRL4	ADDRESS. HEX LOCATION (0000387C) IN CSECT (U38F9) LENGTH (2)
3434	DSRL6	ADDRESS. HEX LOCATION (00003880) IN CSECT (U38F9) LENGTH (2)
110	DSTYP	ABSOLUTE. HEX VALUE (0000000C)
3167	DT0H	ADDRESS. HEX LOCATION (000033FA) IN CSECT (U38F9) LENGTH (1)
817	DTYPE	ADDRESS. HEX LOCATION (00001BC8) IN CSECT (U38F9) LENGTH (1)
180	DVASG	ADDRESS. HEX LOCATION (00001816) IN CSECT (U38F9) LENGTH (2)
363	DVERF	ADDRESS. HEX LOCATION (0000188C) IN CSECT (U38F9) LENGTH (1)
395	DWRIT	ADDRESS. HEX LOCATION (0000189E) IN CSECT (U38F9) LENGTH (1)
3266	EBCBK	ADDRESS. HEX LOCATION (00003552) IN CSECT (U38F9) LENGTH (1)
3263	EBCDI	ADDRESS. HEX LOCATION (00003542) IN CSECT (U38F9) LENGTH (1)
74	EIGHT	ABSOLUTE. HEX VALUE (00000008)
76	ELEVN	ABSOLUTE. HEX VALUE (0000000B)
934	ENADR	ADDRESS. HEX LOCATION (00001D18) IN CSECT (U38F9) LENGTH (2)
903	ENDDP	ADDRESS. HEX LOCATION (00001C9A) IN CSECT (U38F9) LENGTH (2)
896	ENTRA	ADDRESS. HEX LOCATION (00001C90) IN CSECT (U38F9) LENGTH (2)
897	ENTRB	ADDRESS. HEX LOCATION (00001C92) IN CSECT (U38F9) LENGTH (2)
108	EOE	ABSOLUTE. HEX VALUE (00000008)
3186	ERCNT	ADDRESS. HEX LOCATION (00003428) IN CSECT (U38F9) LENGTH (2)
858	ERMS1	ADDRESS. HEX LOCATION (00001C3A) IN CSECT (U38F9) LENGTH (8)
3519	ERRBF	ADDRESS. HEX LOCATION (00003BC6) IN CSECT (U38F9) LENGTH (1)
2904	ERRG	ADDRESS. HEX LOCATION (00003118) IN CSECT (U38F9) LENGTH (1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
191	ERROR	3028 ADDRESS. HEX LOCATION(00001832) IN CSECT(U38F9) LENGTH(2)
3031	ERTRP	1239 1249 ADDRESS. HEX LOCATION(0000326C) IN CSECT(U38F9) LENGTH(1)
3426	ER4	3009 ADDRESS. HEX LOCATION(00003870) IN CSECT(U38F9) LENGTH(2)
116	EVTOC	2467 ABSOLUTE. HEX VALUE(00000168)
584	PDCE	329 2075 2913 ADDRESS. HEX LOCATION(00001A4C) IN CSECT(U38F9) LENGTH(2)
118	FDSST	373 ABSOLUTE. HEX VALUE(00000168)
80	FIFTN	1039 1049 ABSOLUTE. HEX VALUE(0000000F)
734	FINDE	977 1092 1103 1105 1128 1139 1141 1189 1305 1427 1438 1440 1530 1541 1543 2613 2815 2826 2828 2884 3029 3098 ADDRESS. HEX LOCATION(00001B4C) IN CSECT(U38F9) LENGTH(2)
303	FINDS	306 326 1398 1504 1580 1602 1891 2082 2443 2771 ADDRESS. HEX LOCATION(00001836) IN CSECT(U38F9) LENGTH(1)
2861	FINT0	1399 1505 1581 1603 1892 2083 2451 2772 ADDRESS. HEX LOCATION(00003084) IN CSECT(U38F9) LENGTH(1)
2880	FINT1	2867 ADDRESS. HEX LOCATION(000030C6) IN CSECT(U38F9) LENGTH(1)
2882	FINT2	2877 ADDRESS. HEX LOCATION(000030CC) IN CSECT(U38F9) LENGTH(1)
2892	FINT3	2879 2891 ADDRESS. HEX LOCATION(000030EA) IN CSECT(U38F9) LENGTH(1)
71	FIVE	2886 ABSOLUTE. HEX VALUE(00000005)
3193	FHTYP	1312 1895 2112 2580 ADDRESS. HEX LOCATION(0000343A) IN CSECT(U38F9) LENGTH(4)
585	FMW2	3143 ADDRESS. HEX LOCATION(00001A4E) IN CSECT(U38F9) LENGTH(2)
587	FMW4	425 ADDRESS. HEX LOCATION(00001A52) IN CSECT(U38F9) LENGTH(2)
590	FMW7	467 522 ADDRESS. HEX LOCATION(00001A58) IN CSECT(U38F9) LENGTH(2)
307	FN10	2873 2883 ADDRESS. HEX LOCATION(00001842) IN CSECT(U38F9) LENGTH(1)
312	FN20	330 ADDRESS. HEX LOCATION(0000184A) IN CSECT(U38F9) LENGTH(1)
319	FN25	327 ADDRESS. HEX LOCATION(00001856) IN CSECT(U38F9) LENGTH(1)
324	FN30	322 ADDRESS. HEX LOCATION(0000185E) IN CSECT(U38F9) LENGTH(1)
332	FN40	321 ADDRESS. HEX LOCATION(00001870) IN CSECT(U38F9) LENGTH(1)
335	FN50	310 337 340 ADDRESS. HEX LOCATION(00001876) IN CSECT(U38F9) LENGTH(1)
338	FN70	314 ADDRESS. HEX LOCATION(0000187A) IN CSECT(U38F9) LENGTH(1)
3218	FORMT	323 ADDRESS. HEX LOCATION(00003492) IN CSECT(U38F9) LENGTH(4)
79	FORTN	3145 ABSOLUTE. HEX VALUE(0000000E)
70	FOUR	1728 ABSOLUTE. HEX VALUE(00000004)
95	FOURK	318 331 443 821 825 1197 1732 2093 2128 211 2277 2278 2283 2284 2374 2415 2419 2628 2964 2994 3040 3170 3172 3177 ABSOLUTE. HEX VALUE(00001000)
2859	FRMAT	489 524 ADDRESS. HEX LOCATION(00003080) IN CSECT(U38F9) LENGTH(1)
3239	FRMER	3258 ADDRESS. HEX LOCATION(00003502) IN CSECT(U38F9) LENGTH(4)
911	FSTSW	2972 ADDRESS. HEX LOCATION(00001CB9) IN CSECT(U38F9) LENGTH(1)
938	FXSAV	995 1183 1187 1336 1390 1481 1561 1613 1717 2185 2371 2405 2465 2543 2550 2996 ADDRESS. HEX LOCATION(00001D20) IN CSECT(U38F9) LENGTH(2)
856	FXSEC	2368 2414 ADDRESS. HEX LOCATION(00001C37) IN CSECT(U38F9) LENGTH(1)
3511	HEDCV	1328 1483 1588 1600 1914 2183 2264 2369 2412 ADDRESS. HEX LOCATION(000039C0) IN CSECT(U38F9) LENGTH(2)
3216	HEDMG	2528 ADDRESS. HEX LOCATION(00003485) IN CSECT(U38F9) LENGTH(5)
927	HEXFF	3133 ADDRESS. HEX LOCATION(00001D0D) IN CSECT(U38F9) LENGTH(1)
929	HEX10	976 1006 1058 1171 1183 1239 1295 1297 1320 1328 1341 1353 1357 1369 1376 1418 1612 1613 1717 1904 1914 1945 1963 1979 1991 2054 2239 2938 2940 2956 2978 2983 3105 3117 3154 3164 ADDRESS. HEX LOCATION(00001D0F) IN CSECT(U38F9) LENGTH(1)
3285	HEX40	1571 ADDRESS. HEX LOCATION(0000357D) IN CSECT(U38F9) LENGTH(1)
3289	HEX50	2975 ADDRESS. HEX LOCATION(0000358F) IN CSECT(U38F9) LENGTH(1)
3238	HEX6	3163 ADDRESS. HEX LOCATION(00003500) IN CSECT(U38F9) LENGTH(2)
98	HFP00	3065 3075 ABSOLUTE. HEX VALUE(0000FF00)
3508	HTACA	820 1952 2003 ADDRESS. HEX LOCATION(000039BA) IN CSECT(U38F9) LENGTH(2)
3509	HTACB	2235 2576 ADDRESS. HEX LOCATION(000039BC) IN CSECT(U38F9) LENGTH(2)
3510	HTACC	2236 2247 2577 ADDRESS. HEX LOCATION(000039BE) IN CSECT(U38F9) LENGTH(2)
53	HTOE	2237 2248 2578 ABSOLUTE. HEX VALUE(0000001A)
3262	HUN	2111 2238 2250 2529 2579 ADDRESS. HEX LOCATION(00003541) IN CSECT(U38F9) LENGTH(1)
739	HXHUN	2563 2626 3174 ADDRESS. HEX LOCATION(00001B56) IN CSECT(U38F9) LENGTH(2)
957	HX167	1392 1498 1576 1577 1964 2792 ADDRESS. HEX LOCATION(00001D58) IN CSECT(U38F9) LENGTH(2)
738	HOF00	2775 ADDRESS. HEX LOCATION(00001B54) IN CSECT(U38F9) LENGTH(2)
96	H000F	985 987 998 1012 1179 1190 2883 ABSOLUTE. HEX VALUE(0000000F)

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97	H3FF0	1018 ABSOLUTE. HEX VALUE(00003FF0)
125	IBIID	1017 ABSOLUTE. HEX VALUE(00000106)
47	IDLE5	2011 ABSOLUTE. HEX VALUE(00000003)
171	INADR	2915 ADDRESS. HEX LOCATION(00001806) IN CSECT(U38F9) LENGTH(2)
880	INCMD	1706 ADDRESS. HEX LOCATION(00001C6E) IN CSECT(U38F9) LENGTH(2)
1730	INIB	1757 2777 ADDRESS. HEX LOCATION(00002686) IN CSECT(U38F9) LENGTH(1)
1705	INIT	1733 ADDRESS. HEX LOCATION(00002634) IN CSECT(U38F9) LENGTH(1)
1710	INITA	171 1234 1250 1748 1759 3524 ADDRESS. HEX LOCATION(00002642) IN CSECT(U38F9) LENGTH(1)
1727	INITB	1734 ADDRESS. HEX LOCATION(00002680) IN CSECT(U38F9) LENGTH(1)
1735	INITC	1709 ADDRESS. HEX LOCATION(0000268E) IN CSECT(U38F9) LENGTH(1)
1745	INITD	1726 ADDRESS. HEX LOCATION(000026A8) IN CSECT(U38F9) LENGTH(1)
1756	INVAL	3256 ADDRESS. HEX LOCATION(000026B0) IN CSECT(U38F9) LENGTH(1)
902	IPLDV	1737 ADDRESS. HEX LOCATION(00001C99) IN CSECT(U38F9) LENGTH(1)
124	ISCSZ	1208 1376 1979 ABSOLUTE. HEX VALUE(00001000)
412	IS11	842 1461 1570 2446 2502 2598 2667 2878 3013 ADDRESS. HEX LOCATION(000018D8) IN CSECT(U38F9) LENGTH(1)
414	IS12	447 ADDRESS. HEX LOCATION(000018DC) IN CSECT(U38F9) LENGTH(1)
420	IS22	422 ADDRESS. HEX LOCATION(000018EE) IN CSECT(U38F9) LENGTH(1)
426	IS25	425 ADDRESS. HEX LOCATION(000018FA) IN CSECT(U38F9) LENGTH(1)
1897	IO5	406 409 418 449 ADDRESS. HEX LOCATION(0000277A) IN CSECT(U38F9) LENGTH(1)
1903	IO10	1901 ADDRESS. HEX LOCATION(00002784) IN CSECT(U38F9) LENGTH(1)
1908	IO15	1899 ADDRESS. HEX LOCATION(00002796) IN CSECT(U38F9) LENGTH(1)
1910	IO16	1902 ADDRESS. HEX LOCATION(00002798) IN CSECT(U38F9) LENGTH(1)
1913	IO17	1918 ADDRESS. HEX LOCATION(0000279C) IN CSECT(U38F9) LENGTH(1)
1916	IO20	1907 ADDRESS. HEX LOCATION(000027A4) IN CSECT(U38F9) LENGTH(1)
1919	IO25	1912 ADDRESS. HEX LOCATION(000027A8) IN CSECT(U38F9) LENGTH(1)
1927	IO45	1915 ADDRESS. HEX LOCATION(000027C0) IN CSECT(U38F9) LENGTH(1)
61	LASAD	1925 ABSOLUTE. HEX VALUE(00000230)
117	LDSST	1016 1987 ABSOLUTE. HEX VALUE(000008AB)
3189	LSTSK	1513 ADDRESS. HEX LOCATION(0000342E) IN CSECT(U38F9) LENGTH(2)
119	LVTE	2968 2974 3019 3023 3024 3128 3162 ABSOLUTE. HEX VALUE(00000020)
3389	MAD5	325 1056 1061 2120 ADDRESS. HEX LOCATION(00003798) IN CSECT(U38F9) LENGTH(14)
3393	MAD6	3387 ADDRESS. HEX LOCATION(000037AC) IN CSECT(U38F9) LENGTH(14)
3397	MAD7	3391 ADDRESS. HEX LOCATION(000037C0) IN CSECT(U38F9) LENGTH(12)
2909	MAXRC	3395 ADDRESS. HEX LOCATION(00003126) IN CSECT(U38F9) LENGTH(2)
3237	MFMBT	2967 3021 3026 ADDRESS. HEX LOCATION(000034FE) IN CSECT(U38F9) LENGTH(1)
901	MORE	2945 2983 2998 ADDRESS. HEX LOCATION(00001C98) IN CSECT(U38F9) LENGTH(1)
3359	MSGAA	1334 1612 1715 ADDRESS. HEX LOCATION(000036A8) IN CSECT(U38F9) LENGTH(21)
3356	MSGBB	3322 ADDRESS. HEX LOCATION(0000369E) IN CSECT(U38F9) LENGTH(7)
3362	MSGCC	3324 ADDRESS. HEX LOCATION(000036C0) IN CSECT(U38F9) LENGTH(11)
3365	MSGDD	3308 ADDRESS. HEX LOCATION(000036CE) IN CSECT(U38F9) LENGTH(12)
3369	MSGEE	3310 ADDRESS. HEX LOCATION(000036E8) IN CSECT(U38F9) LENGTH(33)
3371	MSGFF	3328 ADDRESS. HEX LOCATION(0000370C) IN CSECT(U38F9) LENGTH(33)
3338	MSG1A	3330 ADDRESS. HEX LOCATION(0000362E) IN CSECT(U38F9) LENGTH(11)
3341	MSG11	3304 ADDRESS. HEX LOCATION(0000363C) IN CSECT(U38F9) LENGTH(12)
3343	MSG3A	3306 ADDRESS. HEX LOCATION(0000364A) IN CSECT(U38F9) LENGTH(15)
3334	MSG4	3312 ADDRESS. HEX LOCATION(00003612) IN CSECT(U38F9) LENGTH(12)
3346	MSG4A	3298 ADDRESS. HEX LOCATION(0000365C) IN CSECT(U38F9) LENGTH(13)
3349	MSG5A	3310 ADDRESS. HEX LOCATION(0000366C) IN CSECT(U38F9) LENGTH(11)
909	MSG6	3316 ADDRESS. HEX LOCATION(00001CA6) IN CSECT(U38F9) LENGTH(18)
3352	MSG6A	906 ADDRESS. HEX LOCATION(0000367A) IN CSECT(U38F9) LENGTH(14)
3399	MSG7	3320 ADDRESS. HEX LOCATION(000037CE) IN CSECT(U38F9) LENGTH(52)
3354	MSG7A	3300 ADDRESS. HEX LOCATION(0000368A) IN CSECT(U38F9) LENGTH(18)
943	MSG8	3316 ADDRESS. HEX LOCATION(00001D2A) IN CSECT(U38F9) LENGTH(14)
3367	MSG8A	941 ADDRESS. HEX LOCATION(000036DC) IN CSECT(U38F9) LENGTH(10)
3336	MSG9	3326 ADDRESS. HEX LOCATION(00003620) IN CSECT(U38F9) LENGTH(12)

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3379	MSG9A	ADDRESS. HEX LOCATION(0000373A) IN CSECT(U38F9) LENGTH(18)
872	MVSTR	ADDRESS. HEX LOCATION(00001C5E) IN CSECT(U38F9) LENGTH(2)
99	M1	ABSOLUTE. HEX VALUE(FFFFFFFF)
100	M4	ABSOLUTE. HEX VALUE(FFFFFFFFC)
120	NDFPS	ABSOLUTE. HEX VALUE(00000008)
1638	NEXT	ADDRESS. HEX LOCATION(00002516) IN CSECT(U38F9) LENGTH(52)
89	NINE9	ABSOLUTE. HEX VALUE(00000063)
187	NO	ADDRESS. HEX LOCATION(0000182B) IN CSECT(U38F9) LENGTH(1)
928	NORTY	ADDRESS. HEX LOCATION(00001D0E) IN CSECT(U38F9) LENGTH(1)
3261	NUMCM	ADDRESS. HEX LOCATION(00003540) IN CSECT(U38F9) LENGTH(1)
1623	NXTDS	ADDRESS. HEX LOCATION(000024F8) IN CSECT(U38F9) LENGTH(2)
67	ONE	ABSOLUTE. HEX VALUE(00000001)
		317 328 336 424 478 480 485 513 515 520 675 715 717 723 819 875 885 1244 1369 1371 1385 1476 1511 1568 1583 1740 1823 1953 1954 1974 1995 1997 2007 2074 2116 2134 2139 2201 2212 2266 2299 2302 2358 2360 2394 2400 2403 2410 2425 2431 2435 2455 2541 2542 2581 2588 2589 2611 2615 2684 2686 2699 2706 2707 2724 2730 2734 2911 2954 2977 3019 3032 3053 3074 3081 3085 3095 3100 3106 3127 3128 3131 3138
932	ONES	ADDRESS. HEX LOCATION(00001D14) IN CSECT(U38F9) LENGTH(2)
90	ONE27	ABSOLUTE. HEX VALUE(0000007F)
91	ONE28	ABSOLUTE. HEX VALUE(00000080)
175	OPTN1	ADDRESS. HEX LOCATION(0000180E) IN CSECT(U38F9) LENGTH(2)
176	OPTN2	ADDRESS. HEX LOCATION(00001810) IN CSECT(U38F9) LENGTH(2)
45	OUT	ABSOLUTE. HEX VALUE(000000C0)
		1211 1248 1520 1731 1758 2058 2063 2079 2086 2176 2194 2226 2273 2318 2462 2537 2621 2743 2778 2863 2947 3113 3115 3148 3158 3160
46	OUTIN	ABSOLUTE. HEX VALUE(00000001)
		1214 1340 1348 1356 1364 1381 1469 1615 1725 1769 1781 1794 1806 1818 1836 1849 1862 1875 1944 1968 2865 2949 2953
954	OVRLY	ADDRESS. HEX LOCATION(00001D51) IN CSECT(U38F9) LENGTH(1)
3277	PARL3	ADDRESS. HEX LOCATION(00003566) IN CSECT(U38F9) LENGTH(2)
3279	PARL5	ADDRESS. HEX LOCATION(0000356A) IN CSECT(U38F9) LENGTH(2)
3281	PARL6	ADDRESS. HEX LOCATION(0000356E) IN CSECT(U38F9) LENGTH(2)
889	PCSAV	ADDRESS. HEX LOCATION(00001C80) IN CSECT(U38F9) LENGTH(2)
733	PCYLA	ADDRESS. HEX LOCATION(00001B4A) IN CSECT(U38F9) LENGTH(2)
742	PDCB	ADDRESS. HEX LOCATION(00001B58) IN CSECT(U38F9) LENGTH(1)
809	PDEND	ADDRESS. HEX LOCATION(00001BC8) IN CSECT(U38F9) LENGTH(1)
810	PDLEN	ABSOLUTE. HEX VALUE(00000070)
2351	PDPGM	ADDRESS. HEX LOCATION(00002B4C) IN CSECT(U38F9) LENGTH(1)
2364	PDP01	ADDRESS. HEX LOCATION(00002B74) IN CSECT(U38F9) LENGTH(1)
2379	PDP02	ADDRESS. HEX LOCATION(00002BA6) IN CSECT(U38F9) LENGTH(1)
2383	PDP03	ADDRESS. HEX LOCATION(00002BB0) IN CSECT(U38F9) LENGTH(1)
2386	PDP04	ADDRESS. HEX LOCATION(00002BB6) IN CSECT(U38F9) LENGTH(1)
2398	PDP05	ADDRESS. HEX LOCATION(00002BCE) IN CSECT(U38F9) LENGTH(1)
2404	PDP06	ADDRESS. HEX LOCATION(00002BDC) IN CSECT(U38F9) LENGTH(1)
2408	PDP07	ADDRESS. HEX LOCATION(00002BE4) IN CSECT(U38F9) LENGTH(1)
2416	PDP08	ADDRESS. HEX LOCATION(00002BFA) IN CSECT(U38F9) LENGTH(1)
2437	PDP09	ADDRESS. HEX LOCATION(00002C3A) IN CSECT(U38F9) LENGTH(1)
2448	PDP10	ADDRESS. HEX LOCATION(00002C5E) IN CSECT(U38F9) LENGTH(1)
2450	PDP11	ADDRESS. HEX LOCATION(00002C64) IN CSECT(U38F9) LENGTH(1)
2459	PDP12	ADDRESS. HEX LOCATION(00002C80) IN CSECT(U38F9) LENGTH(1)
2461	PDP13	ADDRESS. HEX LOCATION(00002C84) IN CSECT(U38F9) LENGTH(1)
2464	PDP14	ADDRESS. HEX LOCATION(00002C8A) IN CSECT(U38F9) LENGTH(1)
126	PELID	ABSOLUTE. HEX VALUE(00000126)
3424	PPG4	ADDRESS. HEX LOCATION(00003844) IN CSECT(U38F9) LENGTH(42)
2650	PPPGM	ADDRESS. HEX LOCATION(00002E8C) IN CSECT(U38F9) LENGTH(1)
2660	PPF01	ADDRESS. HEX LOCATION(00002EB0) IN CSECT(U38F9) LENGTH(1)
2669	PPF02	ADDRESS. HEX LOCATION(00002ECC) IN CSECT(U38F9) LENGTH(1)
2671	PPF03	ADDRESS. HEX LOCATION(00002ED2) IN CSECT(U38F9) LENGTH(1)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2673	PPF04	ADDRESS. HEX LOCATION(00002PD8) IN CSECT(U38F9) LENGTH(1)
2693	PPF05	ADDRESS. HEX LOCATION(00002F1A) IN CSECT(U38F9) LENGTH(1)
2696	PPF06	ADDRESS. HEX LOCATION(00002F24) IN CSECT(U38F9) LENGTH(1)
2708	PPF07	ADDRESS. HEX LOCATION(00002F46) IN CSECT(U38F9) LENGTH(1)
2716	PPF08	ADDRESS. HEX LOCATION(00002F5E) IN CSECT(U38F9) LENGTH(1)
2720	PPF09	ADDRESS. HEX LOCATION(00002F66) IN CSECT(U38F9) LENGTH(1)
2722	PPF10	ADDRESS. HEX LOCATION(00002F6A) IN CSECT(U38F9) LENGTH(1)
2736	PPF11	ADDRESS. HEX LOCATION(00002F8E) IN CSECT(U38F9) LENGTH(1)
2740	PPF12	ADDRESS. HEX LOCATION(00002F9A) IN CSECT(U38F9) LENGTH(1)
2742	PPF13	ADDRESS. HEX LOCATION(00002F9E) IN CSECT(U38F9) LENGTH(1)
2745	PPF14	ADDRESS. HEX LOCATION(00002FA4) IN CSECT(U38F9) LENGTH(1)
3384	PLINE	ADDRESS. HEX LOCATION(00003752) IN CSECT(U38F9) LENGTH(1)
		2091 2237 2244 2316 2321 2561 2954 3228 3382
3385	PLIN6	ADDRESS. HEX LOCATION(00003758) IN CSECT(U38F9) LENGTH(1)
113	PRC1A	ABSOLUTE. HEX VALUE(00000000)
114	PRC2A	ABSOLUTE. HEX VALUE(000003FC)
111	PRTNM	ABSOLUTE. HEX VALUE(00000011)
123	PSCSZ	ABSOLUTE. HEX VALUE(00000100)
		829 1464 1574 2449 2505 2601 2670 2881 3016
3382	PSD1	ADDRESS. HEX LOCATION(0000374E) IN CSECT(U38F9) LENGTH(2)
3387	PSD5	ADDRESS. HEX LOCATION(00003794) IN CSECT(U38F9) LENGTH(2)
3391	PSD6	ADDRESS. HEX LOCATION(000037A8) IN CSECT(U38F9) LENGTH(2)
3395	PSD7	ADDRESS. HEX LOCATION(000037BC) IN CSECT(U38F9) LENGTH(2)
704	PSEK	ADDRESS. HEX LOCATION(00001B02) IN CSECT(U38F9) LENGTH(1)
533	PSEKL	ABSOLUTE. HEX VALUE(0000005A)
728	PSEND	ADDRESS. HEX LOCATION(00001B48) IN CSECT(U38F9) LENGTH(1)
710	PSE03	ADDRESS. HEX LOCATION(00001B12) IN CSECT(U38F9) LENGTH(1)
714	PSE10	ADDRESS. HEX LOCATION(00001B1C) IN CSECT(U38F9) LENGTH(1)
741	PSLEN	ABSOLUTE. HEX VALUE(00000046)
109	PTCNT	ABSOLUTE. HEX VALUE(00000010)
3283	PTG3	ADDRESS. HEX LOCATION(00003572) IN CSECT(U38F9) LENGTH(10)
3287	PTG5	ADDRESS. HEX LOCATION(00003580) IN CSECT(U38F9) LENGTH(14)
3291	PTG6	ADDRESS. HEX LOCATION(00003592) IN CSECT(U38F9) LENGTH(14)
2314	PUTIT	ADDRESS. HEX LOCATION(00002B20) IN CSECT(U38F9) LENGTH(1)
566	RDCB	ADDRESS. HEX LOCATION(00001A2C) IN CSECT(U38F9) LENGTH(2)
3207	RDVER	ADDRESS. HEX LOCATION(00003462) IN CSECT(U38F9) LENGTH(2)
3209	RDVHD	ADDRESS. HEX LOCATION(00003466) IN CSECT(U38F9) LENGTH(2)
3211	RDVM1	ADDRESS. HEX LOCATION(0000346A) IN CSECT(U38F9) LENGTH(18)
3220	RDVM2	ADDRESS. HEX LOCATION(00003498) IN CSECT(U38F9) LENGTH(28)
567	RDW2	ADDRESS. HEX LOCATION(00001A2E) IN CSECT(U38F9) LENGTH(2)
569	RDW4	ADDRESS. HEX LOCATION(00001A32) IN CSECT(U38F9) LENGTH(2)
572	RDW7	ADDRESS. HEX LOCATION(00001A38) IN CSECT(U38F9) LENGTH(2)
		985 1110 1117 1392 1412 1445 1453 1498 1576
573	RDW8	ADDRESS. HEX LOCATION(00001A3A) IN CSECT(U38F9) LENGTH(2)
		400 986 998 1011 1080 1117 1393 1396 1409
2979	RD32	ADDRESS. HEX LOCATION(000031D8) IN CSECT(U38F9) LENGTH(1)
2984	RD33	ADDRESS. HEX LOCATION(000031E6) IN CSECT(U38F9) LENGTH(1)
2993	RD33A	ADDRESS. HEX LOCATION(000031FE) IN CSECT(U38F9) LENGTH(1)
3005	RD33B	ADDRESS. HEX LOCATION(0000321C) IN CSECT(U38F9) LENGTH(1)
3002	RD33C	ADDRESS. HEX LOCATION(00003218) IN CSECT(U38F9) LENGTH(1)
3010	RD35	ADDRESS. HEX LOCATION(00003228) IN CSECT(U38F9) LENGTH(1)
3015	RD36	ADDRESS. HEX LOCATION(00003236) IN CSECT(U38F9) LENGTH(1)
3017	RD37	ADDRESS. HEX LOCATION(0000323C) IN CSECT(U38F9) LENGTH(1)
54	READI	ABSOLUTE. HEX VALUE(0000001F)
548	RECAL	ADDRESS. HEX LOCATION(00001A0C) IN CSECT(U38F9) LENGTH(2)
867	REDID	ADDRESS. HEX LOCATION(00001C54) IN CSECT(U38F9) LENGTH(2)
919	RELEM	ADDRESS. HEX LOCATION(00001CEA) IN CSECT(U38F9) LENGTH(2)
914	RELMG	ADDRESS. HEX LOCATION(00001CBC) IN CSECT(U38F9) LENGTH(2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
900	RELOD	ADDRESS. HEX LOCATION (00001C97) IN CSECT (U38F9) LENGTH(1)
52	RELSA	ABSOLUTE. HEX VALUE(00000017)
3523	RELSV	ADDRESS. HEX LOCATION (00003FF0) IN CSECT (U38F9) LENGTH(1)
1833	REQCY	ADDRESS. HEX LOCATION (00002714) IN CSECT (U38F9) LENGTH(1)
1846	REQHD	ADDRESS. HEX LOCATION (00002724) IN CSECT (U38F9) LENGTH(1)
1872	REQNS	ADDRESS. HEX LOCATION (00002744) IN CSECT (U38F9) LENGTH(1)
1859	REQSC	ADDRESS. HEX LOCATION (00002734) IN CSECT (U38F9) LENGTH(1)
51	REQSD	ABSOLUTE. HEX VALUE (00000016)
1877	REQ1	ADDRESS. HEX LOCATION (00002752) IN CSECT (U38F9) LENGTH(1)
862	RERUN	ADDRESS. HEX LOCATION (00001C4A) IN CSECT (U38F9) LENGTH(1)
3184	RESET	ADDRESS. HEX LOCATION (00003424) IN CSECT (U38F9) LENGTH(2)
3227	RETRY	ADDRESS. HEX LOCATION (000034D0) IN CSECT (U38F9) LENGTH(2)
3232	RETR1	ADDRESS. HEX LOCATION (000034DA) IN CSECT (U38F9) LENGTH(32)
49	RICB	ABSOLUTE. HEX VALUE (00000013)
916	RLMG1	ADDRESS. HEX LOCATION (00001CC0) IN CSECT (U38F9) LENGTH(39)
924	RLMG2	ADDRESS. HEX LOCATION (00001CF4) IN CSECT (U38F9) LENGTH(23)
1803	RQCNT	ADDRESS. HEX LOCATION (000026E8) IN CSECT (U38F9) LENGTH(1)
1815	RQDAT	ADDRESS. HEX LOCATION (000026F4) IN CSECT (U38F9) LENGTH(1)
1766	RQDSN	ADDRESS. HEX LOCATION (000026B8) IN CSECT (U38F9) LENGTH(1)
1822	RQDT1	ADDRESS. HEX LOCATION (00002708) IN CSECT (U38F9) LENGTH(1)
1936	RQST	ADDRESS. HEX LOCATION (000027C4) IN CSECT (U38F9) LENGTH(1)
1778	RQSTA	ADDRESS. HEX LOCATION (000026C8) IN CSECT (U38F9) LENGTH(1)
1949	RQSTB	ADDRESS. HEX LOCATION (000027EE) IN CSECT (U38F9) LENGTH(1)
1951	RQSTC	ADDRESS. HEX LOCATION (000027F2) IN CSECT (U38F9) LENGTH(1)
1791	RQSTE	ADDRESS. HEX LOCATION (000026D8) IN CSECT (U38F9) LENGTH(1)
1980	RQSTG	ADDRESS. HEX LOCATION (0000285A) IN CSECT (U38F9) LENGTH(1)
1973	RQST1	ADDRESS. HEX LOCATION (00002844) IN CSECT (U38F9) LENGTH(1)
1992	RQST2	ADDRESS. HEX LOCATION (0000287C) IN CSECT (U38F9) LENGTH(1)
1942	RQST3	ADDRESS. HEX LOCATION (000027DA) IN CSECT (U38F9) LENGTH(1)
1886	RQST4	ADDRESS. HEX LOCATION (00002756) IN CSECT (U38F9) LENGTH(1)
937	RSAB	ADDRESS. HEX LOCATION (00001D1E) IN CSECT (U38F9) LENGTH(2)
3039	RTR01	ADDRESS. HEX LOCATION (00003284) IN CSECT (U38F9) LENGTH(1)
3043	RTR02	ADDRESS. HEX LOCATION (0000328C) IN CSECT (U38F9) LENGTH(1)
3049	RTR05	ADDRESS. HEX LOCATION (0000329C) IN CSECT (U38F9) LENGTH(1)
3052	RTR06	ADDRESS. HEX LOCATION (000032A2) IN CSECT (U38F9) LENGTH(1)
3055	RTR07	ADDRESS. HEX LOCATION (000032A6) IN CSECT (U38F9) LENGTH(1)
3061	RTR50	ADDRESS. HEX LOCATION (000032B8) IN CSECT (U38F9) LENGTH(1)
3090	RTR52	ADDRESS. HEX LOCATION (0000330A) IN CSECT (U38F9) LENGTH(1)
3084	RTR53	ADDRESS. HEX LOCATION (000032F8) IN CSECT (U38F9) LENGTH(1)
3077	RTR54	ADDRESS. HEX LOCATION (000032EA) IN CSECT (U38F9) LENGTH(1)
3153	RTR60	ADDRESS. HEX LOCATION (000033CC) IN CSECT (U38F9) LENGTH(1)
3161	RTR61	ADDRESS. HEX LOCATION (000033E4) IN CSECT (U38F9) LENGTH(1)
192	RTYCT	ADDRESS. HEX LOCATION (00001834) IN CSECT (U38F9) LENGTH(2)
3187	RVSU2	ADDRESS. HEX LOCATION (0000342A) IN CSECT (U38F9) LENGTH(2)
3188	RVSU4	ADDRESS. HEX LOCATION (0000342C) IN CSECT (U38F9) LENGTH(2)
0	RO	REGISTER. HEX VALUE (00000000)
887	ROSAV	ADDRESS. HEX LOCATION (00001C7C) IN CSECT (U38F9) LENGTH(2)
0	R1	REGISTER. HEX VALUE (00000001)

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0	R2	REGISTER. HEX VALUE (00000002)
0	R3	REGISTER. HEX VALUE (00000003)
0	R4	REGISTER. HEX VALUE (00000004)
0	R5	REGISTER. HEX VALUE (00000005)
0	R6	REGISTER. HEX VALUE (00000006)
936	R6SAV	ADDRESS. HEX LOCATION (00001D1C) IN CSECT (U38F9) LENGTH(2)
0	R7	REGISTER. HEX VALUE (00000007)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1410		1413 1447 1457 1459 1466 1468 1474 1478
1479		1481 1488 1490 1491 1492 1500 1505 1519
1549		1564 1568 1581 1595 1598 1603 1608 1611
1614		1721 1724 1729 1732 1757 1767 1768 1779
1780		1792 1793 1804 1805 1816 1817 1819 1821
1823		1824 1834 1835 1847 1848 1860 1861 1873
1874		1887 1888 1892 1895 1901 1909 1918 1923
1937		1940 1943 1957 1958 1965 1967 1971 1976
1977		1981 1983 1984 1987 1995 2004 2055 2056
2077		2086 2087 2097 2098 2107 2108 2110 2113
2090		2092 2100 2103 2107 2108 2110 2113
2117		2122 2144 2167 2168 2169 2175 2181 2183
2185		2189 2190 2193 2197 2202 2204 2206 2225
2235		2244 2245 2248 2249 2256 2261 2264 2272
2293		2300 2304 2315 2317 2320 2326 2352 2353
2355		2361 2366 2369 2371 2401 2405 2412 2433
2439		2444 2451 2454 2455 2456 2457 2460 2465
2467		2485 2486 2487 2493 2496 2500 2509 2510
2515		2516 2528 2536 2539 2543 2545 2548 2550
2552		2554 2576 2584 2592 2596 2612 2613 2617
2620		2679 2630 2634 2651 2652 2653 2656 2661
2665		2713 2732 2680 2781 2746 2768 2770 2772
2777		2786 2789 2793 2796 2798 2799 2834 2860
2862		2864 2868 2869 2871 2874 2876 2888 2889
2897		2900 2902 2917 2941 2942 2943 2945 2946
2948		2952 2959 2961 2965 2966 2970 2980 2981
2987		2996 2998 3000 3001 3008 3011 3018 3023
3024		3025 3027 3035 3050 3057 3062 3064 3065
3066		3067 3068 3086 3110 3112 3114 3147 3155
3157		3159 3168 3178 3179
888	R7SAV	ADDRESS. HEX LOCATION(00001C7E) IN CSECT(U38F9) LENGTH(2)
933	SADR	ADDRESS. HEX LOCATION(00001D16) IN CSECT(U38F9) LENGTH(2)
881	SAV	ADDRESS. HEX LOCATION(00001C70) IN CSECT(U38F9) LENGTH(2)
188	SAVE0	ADDRESS. HEX LOCATION(0000182C) IN CSECT(U38F9) LENGTH(2)
189	SAVE6	ADDRESS. HEX LOCATION(0000182E) IN CSECT(U38F9) LENGTH(2)
190	SAVE7	ADDRESS. HEX LOCATION(00001830) IN CSECT(U38F9) LENGTH(2)
882	SAV1	ADDRESS. HEX LOCATION(00001C74) IN CSECT(U38F9) LENGTH(2)
884	SAV2	ADDRESS. HEX LOCATION(00001C78) IN CSECT(U38F9) LENGTH(2)
885	SAV2A	ADDRESS. HEX LOCATION(00001C79) IN CSECT(U38F9) LENGTH(1)
883	SAV3	ADDRESS. HEX LOCATION(00001C76) IN CSECT(U38F9) LENGTH(2)
886	SAV4	ADDRESS. HEX LOCATION(00001C7A) IN CSECT(U38F9) LENGTH(2)
946	SCEND	ADDRESS. HEX LOCATION(00001D3C) IN CSECT(U38F9) LENGTH(2)
64	SCHED	ABSOLUTE. HEX VALUE(00000248)
735	SCIZE	ADDRESS. HEX LOCATION(00001B4E) IN CSECT(U38F9) LENGTH(2)
931	SCOMP	ADDRESS. HEX LOCATION(00001D12) IN CSECT(U38F9) LENGTH(2)
879	SCRA	ADDRESS. HEX LOCATION(00001C6C) IN CSECT(U38F9) LENGTH(2)
860	SCRAT	ADDRESS. HEX LOCATION(00001C44) IN CSECT(U38F9) LENGTH(6)
3217	SCTMG	ADDRESS. HEX LOCATION(0000348A) IN CSECT(U38F9) LENGTH(8)
945	SCTRT	ADDRESS. HEX LOCATION(00001D3A) IN CSECT(U38F9) LENGTH(2)
593	SDCB	ADDRESS. HEX LOCATION(00001A5C) IN CSECT(U38F9) LENGTH(2)
3199	SDELT	ADDRESS. HEX LOCATION(00003452) IN CSECT(U38F9) LENGTH(2)
3521	SECBF	ADDRESS. HEX LOCATION(00003CF0) IN CSECT(U38F9) LENGTH(1)
3192	SECNT	ADDRESS. HEX LOCATION(00003438) IN CSECT(U38F9) LENGTH(2)
855	SECTR	ADDRESS. HEX LOCATION(00001C36) IN CSECT(U38F9) LENGTH(1)
3428	SEC1	ADDRESS. HEX LOCATION(00003874) IN CSECT(U38F9) LENGTH(2)
3430	SEC2	ADDRESS. HEX LOCATION(00003878) IN CSECT(U38F9) LENGTH(2)
557	SEDCB	ADDRESS. HEX LOCATION(00001A1C) IN CSECT(U38F9) LENGTH(2)
466	SEEK	ADDRESS. HEX LOCATION(00001948) IN CSECT(U38F9) LENGTH(1)
501	SEEK1	ADDRESS. HEX LOCATION(000019A2) IN CSECT(U38F9) LENGTH(1)
674	SEIDB	ADDRESS. HEX LOCATION(00001ADC) IN CSECT(U38F9) LENGTH(2)
675	SEID1	ADDRESS. HEX LOCATION(00001ADD) IN CSECT(U38F9) LENGTH(1)
676	SEID2	ADDRESS. HEX LOCATION(00001ADE) IN CSECT(U38F9) LENGTH(2)
935	SEOE	ADDRESS. HEX LOCATION(00001D1A) IN CSECT(U38F9) LENGTH(2)
73	SEVEN	ABSOLUTE. HEX VALUE(00000007)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
473	SE03	406 415 418 1222 1374 1977 2117 2142 2208 2229 2251 2295 2325 3004 3025 ADDRESS. HEX LOCATION(0000195C) IN CSECT(U38F9) LENGTH(1)
508	SE031	470 ADDRESS. HEX LOCATION(000019B6) IN CSECT(U38F9) LENGTH(1)
477	SE10	505 ADDRESS. HEX LOCATION(00001966) IN CSECT(U38F9) LENGTH(1)
512	SE101	472 475 ADDRESS. HEX LOCATION(000019C0) IN CSECT(U38F9) LENGTH(1)
494	SE20	507 510 ADDRESS. HEX LOCATION(0000199C) IN CSECT(U38F9) LENGTH(1)
529	SE201	491 ADDRESS. HEX LOCATION(000019F6) IN CSECT(U38F9) LENGTH(1)
532	SE301	526 ADDRESS. HEX LOCATION(000019FC) IN CSECT(U38F9) LENGTH(1)
2907	SIDE0	533 ADDRESS. HEX LOCATION(00003122) IN CSECT(U38F9) LENGTH(2)
2908	SIDE1	2885 2967 ADDRESS. HEX LOCATION(00003124) IN CSECT(U38F9) LENGTH(2)
594	SIW2	3026 ADDRESS. HEX LOCATION(00001A5E) IN CSECT(U38F9) LENGTH(2)
596	SIW4	726 ADDRESS. HEX LOCATION(00001A62) IN CSECT(U38F9) LENGTH(2)
599	SIW7	488 523 ADDRESS. HEX LOCATION(00001A68) IN CSECT(U38F9) LENGTH(2)
72	SIX	3067 3069 ABSOLUTE. HEX VALUE(00000006)
81	SIXTN	1001 1223 2141 2281 2786 3042 3080 3092 3385 ABSOLUTE. HEX VALUE(00000010)
86	SIXTY	2608 ABSOLUTE. HEX VALUE(0000003C)
87	SIXT3	1721 2259 2320 ABSOLUTE. HEX VALUE(0000003F)
88	SIXT5	244 2659 2688 ABSOLUTE. HEX VALUE(00000041)
558	SKW2	1301 ADDRESS. HEX LOCATION(00001A1E) IN CSECT(U38F9) LENGTH(2)
560	SKW4	495 530 720 ADDRESS. HEX LOCATION(00001A22) IN CSECT(U38F9) LENGTH(2)
562	SKW6	482 517 ADDRESS. HEX LOCATION(00001A26) IN CSECT(U38F9) LENGTH(2)
737	SMWDC	401 ADDRESS. HEX LOCATION(00001B52) IN CSECT(U38F9) LENGTH(2)
183	SPT	1412 1493 1906 2873 ADDRESS. HEX LOCATION(00001826) IN CSECT(U38F9) LENGTH(2)
185	SPTA	2499 2664 ADDRESS. HEX LOCATION(00001829) IN CSECT(U38F9) LENGTH(1)
186	SPTB	471 506 708 ADDRESS. HEX LOCATION(0000182A) IN CSECT(U38F9) LENGTH(1)
112	SPTC	474 509 711 1089 1125 1424 1527 2126 2812 ABSOLUTE. HEX VALUE(0000000F)
184	SPT2	183 ADDRESS. HEX LOCATION(00001828) IN CSECT(U38F9) LENGTH(1)
75	TEN	2490 2655 ABSOLUTE. HEX VALUE(0000000A)
899	TENS	2143 3037 ADDRESS. HEX LOCATION(00001C96) IN CSECT(U38F9) LENGTH(1)
48	TERM	2140 2525 2532 2564 2631 3129 3136 3180 ABSOLUTE. HEX VALUE(00000007)
1274	TERMP	1237 ADDRESS. HEX LOCATION(000020CC) IN CSECT(U38F9) LENGTH(1)
85	THIR2	3257 ABSOLUTE. HEX VALUE(00000020)
3183	THOUS	1027 1031 1032 1595 2900 ADDRESS. HEX LOCATION(00003422) IN CSECT(U38F9) LENGTH(2)
69	THREE	3171 ABSOLUTE. HEX VALUE(00000003)
78	THRTN	438 449 2976 2991 3001 3105 3164 ABSOLUTE. HEX VALUE(000000CD)
84	THRTY	3097 ABSOLUTE. HEX VALUE(0000001E)
3205	THSMG	3020 ADDRESS. HEX LOCATION(0000345E) IN CSECT(U38F9) LENGTH(2)
3235	TITL1	3147 ADDRESS. HEX LOCATION(000034FC) IN CSECT(U38F9) LENGTH(1)
3236	TITL2	1718 3110 3154 ADDRESS. HEX LOCATION(000034FD) IN CSECT(U38F9) LENGTH(1)
1259	TPGMB	3117 3155 ADDRESS. HEX LOCATION(000020BA) IN CSECT(U38F9) LENGTH(1)
65	TPGSW	1037 1309 2326 2888 3018 ABSOLUTE. HEX VALUE(00000000)
3215	TRKMG	1233 1262 1276 ADDRESS. HEX LOCATION(00003480) IN CSECT(U38F9) LENGTH(5)
3116	TST05	3130 3131 3146 3205 ADDRESS. HEX LOCATION(00003356) IN CSECT(U38F9) LENGTH(1)
3118	TST10	3111 ADDRESS. HEX LOCATION(0000335C) IN CSECT(U38F9) LENGTH(1)
3121	TST11	3166 ADDRESS. HEX LOCATION(00003364) IN CSECT(U38F9) LENGTH(1)
3140	TST20	3150 ADDRESS. HEX LOCATION(000033A2) IN CSECT(U38F9) LENGTH(1)
3142	TST30	3139 ADDRESS. HEX LOCATION(000033A8) IN CSECT(U38F9) LENGTH(1)
3264	TTY1	3139 ADDRESS. HEX LOCATION(00003543) IN CSECT(U38F9) LENGTH(12)
77	TWELV	2128 ABSOLUTE. HEX VALUE(0000000C)
82	TWEN6	2629 3178 ABSOLUTE. HEX VALUE(0000001A)
83	TWEN7	1007 2789 ABSOLUTE. HEX VALUE(0000001B)
68	TWO	2594 ABSOLUTE. HEX VALUE(00000002)
94	TWOK	411 427 600 665 1241 1345 1361 1961 1988 2006 2009 2011 2013 2106 2203 2252 2396 2429 2424 2426 2972 2986 3024 3034 3066 3093 3126 3149 ABSOLUTE. HEX VALUE(00000800)
92	TWO56	493 528 713 ABSOLUTE. HEX VALUE(00000100)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
93	TWO95	ABSOLUTE. HEX VALUE (0000127)
823	TYPE1	2694 ADDRESS. HEX LOCATION (00001BDA) IN CSECT (U38F9) LENGTH (1)
841	TYPE2	826 ADDRESS. HEX LOCATION (00001C10) IN CSECT (U38F9) LENGTH (1)
851	TYPND	828 ADDRESS. HEX LOCATION (00001C32) IN CSECT (U38F9) LENGTH (1)
3223	UNREC	840 ADDRESS. HEX LOCATION (000034B6) IN CSECT (U38F9) LENGTH (2)
3225	UNRE1	3157 ADDRESS. HEX LOCATION (000034BA) IN CSECT (U38F9) LENGTH (20)
891	UTILT	3223 ADDRESS. HEX LOCATION (00001C83) IN CSECT (U38F9) LENGTH (5)
134	UTL1	1224 ABSOLUTE. HEX VALUE (0000380C)
141	UTL10	908 ABSOLUTE. HEX VALUE (00003876)
142	UTL11	939 1619 ABSOLUTE. HEX VALUE (00003877)
143	UTL12	1641 ABSOLUTE. HEX VALUE (00003878)
144	UTL13	3214 ABSOLUTE. HEX VALUE (00003879)
145	UTL14	923 ABSOLUTE. HEX VALUE (0000387A)
146	UTL15	3383 ABSOLUTE. HEX VALUE (0000387B)
147	UTL16	3231 ABSOLUTE. HEX VALUE (0000387C)
148	UTL17	1657 ABSOLUTE. HEX VALUE (0000387D)
149	UTL18	3456 ABSOLUTE. HEX VALUE (0000387E)
150	UTL19	3470 ABSOLUTE. HEX VALUE (0000387F)
151	UTL20	3477 ABSOLUTE. HEX VALUE (00003880)
152	UTL21	3484 ABSOLUTE. HEX VALUE (00003881)
153	UTL22	3491 ABSOLUTE. HEX VALUE (00003882)
154	UTL23	3498 ABSOLUTE. HEX VALUE (00003883)
155	UTL24	3505 ABSOLUTE. HEX VALUE (00003884)
156	UTL25	1644 ABSOLUTE. HEX VALUE (00003885)
157	UTL26	1648 ABSOLUTE. HEX VALUE (00003886)
158	UTL27	3392 ABSOLUTE. HEX VALUE (00003887)
159	UTL28	3396 ABSOLUTE. HEX VALUE (00003888)
160	UTL29	3331 ABSOLUTE. HEX VALUE (00003889)
135	UTL3	1637 ABSOLUTE. HEX VALUE (0000380B)
161	UTL30	902 ABSOLUTE. HEX VALUE (0000388A)
162	UTL31	3413 ABSOLUTE. HEX VALUE (0000388B)
163	UTL33	3378 ABSOLUTE. HEX VALUE (0000388C)
164	UTL34	3410 ABSOLUTE. HEX VALUE (0000388D)
165	UTL35	3420 ABSOLUTE. HEX VALUE (0000388E)
166	UTL36	3388 ABSOLUTE. HEX VALUE (0000388F)
136	UTL4	3463 ABSOLUTE. HEX VALUE (00003871)
137	UTL5	915 ABSOLUTE. HEX VALUE (00003806)
138	UTL6	857 ABSOLUTE. HEX VALUE (00003872)
139	UTL8	3282 ABSOLUTE. HEX VALUE (00003874)
140	UTL9	3290 ABSOLUTE. HEX VALUE (00003875)
3	U38F9	3423 CSECT. START (00001800) LENGTH (10224) ESDID (1)
539	VDCB	3 3520 3522 ADDRESS. HEX LOCATION (000019FC) IN CSECT (U38F9) LENGTH (2)
668	VDCBL	364 580 646 836 849 ABSOLUTE. HEX VALUE (00000070)
605	VDCB1	847 ADDRESS. HEX LOCATION (00001A6C) IN CSECT (U38F9) LENGTH (2)
955	VENT0	668 848 ADDRESS. HEX LOCATION (00001D52) IN CSECT (U38F9) LENGTH (1)
956	VENT1	1045 ADDRESS. HEX LOCATION (00001D53) IN CSECT (U38F9) LENGTH (5)
347	VERCB	1504 1602 ADDRESS. HEX LOCATION (0000187E) IN CSECT (U38F9) LENGTH (1)
2958	VER00	2871 2961 ADDRESS. HEX LOCATION (00003186) IN CSECT (U38F9) LENGTH (1)
2968	VER02	2955 ADDRESS. HEX LOCATION (000031AA) IN CSECT (U38F9) LENGTH (1)
540	VPW2	3022 3030 ADDRESS. HEX LOCATION (000019FE) IN CSECT (U38F9) LENGTH (2)
541	VPW3	723 2942 2995 3000 3074 3091 3100 ADDRESS. HEX LOCATION (00001A00) IN CSECT (U38F9) LENGTH (2)
542	VPW4	724 3095 3096 ADDRESS. HEX LOCATION (00001A02) IN CSECT (U38F9) LENGTH (2)
543	VPW5	485 520 1492 1571 2943 2990 3088 ADDRESS. HEX LOCATION (00001A04) IN CSECT (U38F9) LENGTH (2)
545	VPW7	486 521 ADDRESS. HEX LOCATION (00001A08) IN CSECT (U38F9) LENGTH (2)
121	VHDLG	3007 3047 ABSOLUTE. HEX VALUE (0000000A)
3427	VHDL1	2188 3427 ADDRESS. HEX LOCATION (00003872) IN CSECT (U38F9) LENGTH (2)

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2939	VPFY0	1719 2384 ADDRESS. HEX LOCATION (00003142) IN CSECT (U38F9) LENGTH (1)
2937	VPFY1	3259 ADDRESS. HEX LOCATION (0000313C) IN CSECT (U38F9) LENGTH (1)
2944	VR000	3260 ADDRESS. HEX LOCATION (00003154) IN CSECT (U38F9) LENGTH (1)
958	VTEND	2951 ADDRESS. HEX LOCATION (00001D5A) IN CSECT (U38F9) LENGTH (2)
3240	VTENT	1509 ADDRESS. HEX LOCATION (00003506) IN CSECT (U38F9) LENGTH (6)
115	VTOCA	2899 ABSOLUTE. HEX VALUE (0000014A)
3374	VTRLH	305 989 1064 1181 2064 2896 ADDRESS. HEX LOCATION (00003730) IN CSECT (U38F9) LENGTH (2)
3298	VTRL1	1724 ADDRESS. HEX LOCATION (000035AC) IN CSECT (U38F9) LENGTH (2)
906	VTRL3	2078 ADDRESS. HEX LOCATION (00001CA0) IN CSECT (U38F9) LENGTH (2)
3300	VTRL4	1243 ADDRESS. HEX LOCATION (000035B0) IN CSECT (U38F9) LENGTH (2)
941	VTRL5	2062 2085 ADDRESS. HEX LOCATION (00001D26) IN CSECT (U38F9) LENGTH (2)
3302	VTRL6	1240 ADDRESS. HEX LOCATION (000035B4) IN CSECT (U38F9) LENGTH (2)
3304	VTRL9	2057 ADDRESS. HEX LOCATION (000035B8) IN CSECT (U38F9) LENGTH (2)
2910	WAIT	1729 ADDRESS. HEX LOCATION (00003128) IN CSECT (U38F9) LENGTH (1)
2914	WAIT1	1957 ADDRESS. HEX LOCATION (00003136) IN CSECT (U38F9) LENGTH (1)
904	WDCNT	2916 ADDRESS. HEX LOCATION (00001C9C) IN CSECT (U38F9) LENGTH (2)
575	WRDCB	2356 2362 2429 2434 2682 2702 2728 2733 3467 ADDRESS. HEX LOCATION (00001A3C) IN CSECT (U38F9) LENGTH (2)
3429	WRD1	396 ADDRESS. HEX LOCATION (00003876) IN CSECT (U38F9) LENGTH (2)
667	WREND	1711 2562 2572 2581 2617 ADDRESS. HEX LOCATION (00001ADC) IN CSECT (U38F9) LENGTH (1)
576	WRW2	668 ADDRESS. HEX LOCATION (00001A3E) IN CSECT (U38F9) LENGTH (2)
578	WRW4	722 ADDRESS. HEX LOCATION (00001A42) IN CSECT (U38F9) LENGTH (2)
581	WRW7	484 519 ADDRESS. HEX LOCATION (00001A48) IN CSECT (U38F9) LENGTH (2)
582	WRW8	987 1145 1152 1179 1493 1547 1555 1577 2792 ADDRESS. HEX LOCATION (00001A4A) IN CSECT (U38F9) LENGTH (2)
66	ZERO	2833 2895 ADDRESS. HEX VALUE (00000000)
		988 1081 1152 1180 1190 1494 1523 1555 1579
		2795 ABSOLUTE. HEX VALUE (00000000)
		339 419 439 1045 1177 2790 2800

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