

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3 *****
4 *
5 * *** PREREQUISITES ***
6 *
7 * NONE
8 *
9 *****
10 *
11 * *** MODIFICATIONS ***
12 *
13 * CHANGES DUE TO HARDWARE UPDATES
14 *
15 *****
16 *
17 * *** REA'S INCORPORATED ***
18 *
19 * NONE
20 *
21 *****
22 *
23 * *** SPECIAL INSTRUCTIONS ***
24 *
25 * NONE
26 *
27 *****
28 *
29 * *** E. C. HISTORY ***
30 *
31 * DATE 17DEC76 DATE 10JUN77 DATE 08AUG78 DATE
32 * E.C. 578486 E.C. 578625 E.C. 755404 E.C.
33 *
34 *****
35 * DEFINE CONSTANT AREA FOR PROGRAM I.D. U78F0
36 *
37 *****
38 *
39 U78F0 START X'1800' PROGRAM START ADDRESS
40 PID DC C'78F0' PROGRAM NAME
41 DC X'0000' LEVEL
42 STADDR DC A(7895) START EXECUTION ADDRESS
43 DEVPNT DC A(DEVTAB) POINTER TO DEV TABLE
44 RTNE DC A(0) ROUTINE NUMBER
45 CKPT DC A(0) CHECKPOINT NUMBER
46 DC 2A(0) OPTION WORD ONE AND TWO
47 DEVTAB DC X'0001' START OF DEVICE TABLE
48 DEVADD DC X'0000' DEVICE ADDRESS AND TYPE
49 ASSIGN DC X18'00' DEVICE DEPENDENT DATA
50 TYP78 DC X'78' DEVICE TYPE FOR THIS PROGRAM
51 @ETOH DC A(2) EBC TO HEX CONTROL BLOCK
52 @ETOH1 DC A(INAREA) FROM DATA ADDRESS
53 @ETOH2 DC A(DEVADD) TO DATA ADDRESS
54 @ETOH3 DC X'00C0' CONTROL BYTE FOR OUTIN CONTROL BLOCK
55 @OUTIN DC A(MSG) ADDRESS OF MESSAGE
56 @INAREA DC A(INAREA) ADDRESS OF INPUT AREA
57 DC A(2) LENGTH OF INPUT DATA
58 DC A(0) TYPE OF INPUT (EBC)
59 INAREA DC C' OUTIN INPUT AREA
60 DC X'78F1' STOP CODE FOR REQUEST OF DEV. ADD.
61 MSG DC C'4962 INITIALIZATION, ENTER DEV ADDRESS'
62 DC X'00'
63 * THE FOLLOWING DC'S ARE TO SATISFY THE SERRS ROUTINE
64 TUMSGWTR DC A(@MSGWTR) ADDRESS OF ABORT MESSAGE WRITER
65 TUSTATUS DC A(0) DUMMY TO STATUS
66 TUMOR DC 4B(0) WORK AREA FOR ABORT PRINTAREA
67 @DCADD1 DC A(0) DUMMY POINTER
68 @DCADD2 DC A(0) DUMMY POINTER
69 SUPSTAT DC A(0) DUMMY STATUS AREA
70 @OUT1 DC X'0080' CONTROL BYTE FOR OUT CONTROL BLOCK
71 @OUT DC A(0) ADDRESS OF MESSAGE
72 DC X'78F2' STOP CODE FOR ABORT MESSAGE
73 ABMSG DC X'0000' DUMMY ABORT MESSAGE
74 *
75 * THE FOLLOWING ROUTINE WILL OUTPUT ***ABORT*** MSG
76 *
77 @MSGWTR MVW DC2PT,R1 ADDRESS OF MESSAGE AREA
78 ABI TWC,R1 POINT R1 AT FIRST LINE LENGTH
79 MVWZ (R1)+R2 LOAD R2 WITH LENGTH
80 MVW R1,@OUT MOVE ADDRESS OF MESSAGE INTO BLOCK
81 MVWI X'00C6F2',PID+2 LOAD PID WITH X'F2' STOP CODE
82 MVA @OUT,R7 LOAD ADDRESS OF CONTROL BLOCK
83 SVC OUT ISSUE SVC
84 ABI EIGHT,R1 BUMP R1
85 MVWZ BUPT,R2 ZERO END OF DATA AREA
86 MVWI SIX,R4 INIT R4 TO LINES OF OUTPUT
87 MSGWTR1 MVWZ (R1)+R2 LOAD LENGTH OF MESSAGE
88 MVA R1,@OUT LOAD ADDRESS OF MESSAGE INTO BLOCK
89 @OUT,R7 LOAD ADDRESS OF BLOCK
90 SVC OUT ISSUE SVC
91 ABI X'28',R1 BUMP TO NEXT LINE
92 JCT MSGWTR1,R4 BRANCH FOR COUNT
93 MVWI X'00C0',@OUT1 CHANGE CONTROL BYTE
94 MVA ABMSG,@OUT LOAD ADDRESS OF ABORT MESSAGE
95 MVA @OUT,R7 LOAD ADDRESS OF CONTROL BLOCK
96 SVC OUT ISSUE SVC
97 B @CONX BRANCH TO END
98 *
99 *
100 HDIT 00
101 *
102 *OPTN1 DC X'0000' PROGRAM OPTION CONTROL WORD 1
103 *
104 *OPTN2 DC X'0000' PROGRAM OPTION CONTROL WORD 2
105 *
106 *BIT HEX
107 *B48 EQU 16 0 8
108 *B49 EQU 17 1 4
109 *B50 EQU 18 2 2
110 *B51 EQU 19 3 1
111 *B52 EQU 20 4 8
112 *B53 EQU 21 5 4
113 *B54 EQU 22 6 2
114 *B55 EQU 23 7 1
115 *B56 EQU 24 8 8
116 *B57 EQU 25 9 4
117 *B58 EQU 26 10 2
118 *B59 EQU 27 11 1
119 *B60 EQU 28 12 8

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00001D 119+B61 EQU 29 13 4 *
00001E 120+B62 EQU 30 14 2 *
00001F 121+B63 EQU 31 15 1 *
00001E 122+CH EQU 30 14 2 CHARACTER SUPPLIED
00001F 123+CMP EQU 31 15 1 COMPARE OPERATION
00191A 0000 125+OPTN3 DC X'0000' PROGRAM OPTION CONTROL WORD 3
126+*
127+* 0 MYSTERY INTERRUPT MI 8 CS STATUS IN PROGRESS CS
128+* 1 ERROR INTERRUPT ER 9 CS AVAILABLE CSA
129+* 2 EXPECTED INTERRUPT XI 10 CS STATUS INTERRUPT ERR CE
130+* 3 INTERRUPT RECEIVED IN 11 ISB BITS ON (1-7) ISBON
131+*
132+* 4 EXPECTED ERR/ATTENT XE 12 TEST UNIT RESULTS VOID NG
133+* 5 HARD ERROR FOUND HE 13 OIO CC ERROR IOCC
134+* 6 WRONG INTR LEVEL \$LE 14 NO INTERRUPT NOIN
135+* 7 NO INTR EXPECTED NI 15 INTERRUPT CC ERROR INCC
136+* BIT HEX
000020 137+MI EQU 32 0 8 MYSTERY INTERRUPT HAPPENED
000021 138+ER EQU 33 1 4 ERROR RECEIVED ON INTERRUPT
000022 139+XI EQU 34 2 2 EXPECTED INTERRUPT CONTROL BIT
000023 140+IN EQU 35 3 1 INTERRUPT RECEIVED CONTROL BIT
000024 141+XE EQU 36 4 8 EXPECTED ERROR RESPONSE
000025 142+HE EQU 37 5 4 HARD ERROR RETRIES
000026 143+\$LE EQU 38 6 2 INTERRUPT ON WRONG LEVEL ERROR
000027 144+NI EQU 39 7 1 NO INTERRUPT EXPECTED E
000028 145+CS EQU 40 8 8 CYCLE STATUS IN PROGRESS
000029 146+CSA EQU 41 9 4 CYCLE STEAL AVAILABLE
00002A 147+CE EQU 42 10 2 CYCLE STEAL STATUS INERRRUPT ERROR
00002B 148+ISBON EQU 43 11 1 ISB BITS ON (1-7)
00002C 149+NG EQU 44 12 8 TEST UNIT RESULTS NO GOOD
00002D 150+IOCC EQU 45 13 4 OIO CC ERROR
00002E 151+NOIN EQU 46 14 2 NO INTERRUPT
00002F 152+INCC EQU 47 15 1 INTERRUPT CC ERROR
153+*
154+* COMMON BUFFER FOR PRINTING DATA
155+*
157+*STUID DC A(*-*) TEST UNIT IDENTIFICATION
158+*SIOIN DC A(*-*) I/O AND INTR CONDITION CODES
159+*SISB DC A(*-*) R7, INTR STATUS BYTE & DEV ADRS
160+*LSTIO DC A(*-*) ADRS OF LAST I/O + 4 BYTES
161+*DEV1 DC A(*-*) DEVICE DEPENDENT DATA
162+*DEV2 DC A(*-*) *
163+*DEV3 DC A(*-*) *
164+*DEV4 DC A(*-*) *
165+*SCTID EQU DEV1 READ ID BUFFER FOR IBIS & TERN
166+*DCBUF EQU * DCB BUFFER FOR LAST DCB USED
167+*DCB1 DC A(*-*) LAST DCB TABLE, CONTROL WORD
168+*DCB2 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
169+*DCB3 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
170+*DCB4 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
171+*DCB5 DC A(*-*) LAST DCB TABLE, DEV DEP WORD
172+*DCB6 DC A(*-*) LAST DCB TABLE, CHAIN ADRS
173+*DCB7 DC A(*-*) LAST DCB TABLE, BYTE COUNT
174+*DCB8 DC A(*-*) LAST DCB TABLE, BUFFER ADDRESS
175+*
176+*CSBUF EQU * CYCLE STEAL DATA BUFFER
177+*CSSTL1 DC A(*-*) CYCLE STEAL BUFFER RESIDUAL ADRS
178+*CSSTL2 DC A(*-*) CYCLE STEAL WD 2, DEVICE DEPEND
179+*CSSTL3 DC A(*-*) CYCLE STEAL WD 3, DEVICE DEPEND
180+*CSSTL4 DC A(*-*) CYCLE STEAL WD 4, DEVICE DEPEND
181+*CSSTL5 DC A(*-*) CYCLE STEAL WD 5, DEVICE DEPEND
182+*CSSTL6 DC A(*-*) CYCLE STEAL WD 6, DEVICE DEPEND
183+*CSSTL7 DC A(*-*) CYCLE STEAL WD 7, DEVICE DEPEND
184+*CSSTL8 DC A(*-*) CYCLE STEAL WD 8, DEVICE DEPEND
185+*
186+*\$SUBN DC A(*-*) LAST SUBROUTINE ADDRESS USED
187+*\$DATA DC 2A(*-*) OPTIONAL DATA
188+*\$INEL DC X'0021' INTERRUPT LEVEL REQUESTED
189+*\$TURN DC A(*-*) TEST UNIT RETURN ADRS TO MDI
190+*\$VID DC X'00' DEVICE ID
191+*\$VICAL DC A(DEVADD) ADRS OF DEVICE ADDRESS
192+* DC A(*-*) IBIS CYLINDER ADDRESS
193+*
194+* THIS TEST UNIT WILL RETURN TO MDI WITHOUT DOING ANY PROGRAM
195+* FUNCTION. THE RESULTS THAT WERE SET UP IN THE RESULTS AREA ARE
196+* STILL VALID BUT A DIFFERENT TEST IS TO BE PERFORMED.
197+*
198+*T3C02 MVWI X'3C02',STUID SET UP TEST UNIT ID
199+* BXS (R7) RETURN TO MDI SUPVR
200 *
201 * *****
202 * EQUATED NAMES FOR SUPPORTED SVC'S
203 *
204 *
205 * *****
206 OUT EQU 0 OUT SVC
207 OUTIN EQU 1 OUTIN SVC
208 IDLE EQU 2 IDLE SVC
209 ASCII EQU 3 HEX TO ASCII SVC
210 CHNGE EQU 4 CHANGE LEVEL SVC
211 PGMCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
212 EXIT EQU 6 EXIT SVC
213 TERM EQU 7 TERMINATE SVC
214 RESET EQU 8 RESET DEVICE SVC
215 RID EQU 9 READ ID SVC
216 START EQU 10 START CYCLE STEAL SVC
217 STCSS EQU 11 START CYCLE STEAL STATUS SVC
218 PREP EQU 12 PREPARE DEVICE SVC
219 READ0 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
220 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
221 RSTAT EQU 15 READ STATUS SVC
222 WRIT0 EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
223 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
224 CTRL EQU 18 CONTROL SVC
225 RIBC EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
226 CIBC EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
227 HIO EQU 21 HALT ALL I/O
228 REQSD EQU 22 REQUEST USE OF DCP DISK SVC
229 REISD EQU 23 RELEASE USE OF DCP DISK SVC
230 HALT EQU 24 HALT SVC
231 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
232 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
233 ATOH EQU 27 ASCII TO HEX SVC (STRING)
234 HTOA EQU 28 HEX TO ASCII SVC (STRING)
235 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)

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236 ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
237 READI EQU 31 READ DATA SETS FOR HDI/UTIL
238 WRITI EQU 32 WRITE DATA SETS FOR UTIL
239 *****
240 *
241 * EQUATES USED BY TU'S AS CONSTANTS *
242 *
243 *****
244 PLUS EQU C'+' PLUS CHAR
245 MINUS EQU C'-' MINUS CHAR
246 ZERO EQU 0 VALUE OF 0
247 ONE EQU 1 1
248 TWO EQU 2 2
249 THREE EQU 3 3
250 FOUR EQU 4 4
251 FIVE EQU 5 5
252 SIX EQU 6 6
253 SEVEN EQU 7 7
254 EIGHT EQU 8 8
255 NINE EQU 9 9
256 TEN EQU 10 10
257 ELEVN EQU 11 11
258 TWELV EQU 12 12
259 THRTN EQU 13 13
260 FIVTN EQU 15 15
261 SIXTN EQU 16 16
262 THRTY EQU 32 32
263 SLXT4 EQU 64 64
264 ONE28 EQU 128 128
265 TWO56 EQU 256 256
266 ONEK EQU 1024 1024
267 TWOK EQU 2048 2048
268 THREK EQU 3072 3072
269 FOURK EQU 4096 4096
270 M1 EQU -1 -1
271 M2 EQU -2 -2
272 M3 EQU -3 -3
273 M4 EQU -4 -4
274 *****
275 *
276 * THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE *
277 * BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES. *
278 *
279 *****
280 BS0 EQU 0
281 BS1 EQU 1
282 BS2 EQU 2
283 BS3 EQU 3
284 BS4 EQU 4
285 BS5 EQU 5
286 BS6 EQU 6
287 BS7 EQU 7
288 BS8 EQU 8
289 BS9 EQU 9
290 BS10 EQU 10
291 BS11 EQU 11
292 BS12 EQU 12
293 BS13 EQU 13
294 BS14 EQU 14
295 BS15 EQU 15
296 *****
297 ** (T78DCB) *****
298 *****8/13/76*****
299 *
300 * DCB TABLES AND DC'S *****
301 *
302 *****
303 *
304 ***** DIAGNOSTIC DCB *****
305 *
306 DGDCB DC X'2008' DIAGNOSTIC DCB
307 DC X'0000' NOT USED
308 DC A(*-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
309 DC X'0000' NOT USED
310 DC X'0000' NOT USED
311 DC A(*-*) CHAINING ADDRESS
312 DC X'0100' BYTE COUNT
313 DC A(*-*) DATA ADDRESS
314 *
315 *
316 ***** RECALIBRATE DCB *****
317 *
318 CLDCB DC X'0007' RECALIBRATE DCB
319 DC 7A(*-*)
320 *
321 ***** WRITE SECTOR ID **
322 *
323 WSDCB DC X'0002' WRITE SECTOR ID CONTROL WORD
324 DC X'0000' NOT USED
325 DC A(*-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
326 DC A(*-*) NOT USED
327 DC A(*-*) NOT USED
328 DC A(*-*) CHAIN ADDRESS
329 DC X'0006' BYTE COUNT
330 DC A(WRSID) ADDR OF SECTOR ID DATA
331 ***** READ SECTOR ID DCB *****
332 *
333 RSDCB DC X'200A' READ SECTOR ID
334 DC X'0000' NOT USED
335 DC X'0000' 0-7 = PHYSICAL SECTOR # MINUS ONE
336 DC X'0000' NOT USED
337 DC X'0000' NOT USED
338 DC X'0000' CHAIN ADDRESS
339 DC X'0006' BYTE COUNT FOR READ SECTOR ID
340 DC A(SCTID) SECTOR ID DATA ADDRESS
341 *
342 *
343 ***** READ SECTOR ID IMMEDIATE DCB *****
344 *
345 RIDCB DC X'200E' READ SECTOR ID
346 DC X'0000' NOT USED
347 DC X'0000' NOT USED
348 DC X'0000' NOT USED
349 DC X'0000' NOT USED
350 DC A(*-*) CHAIN ADDRESS

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351 DC X'0006' BYTE COUNT FOR READ SECTOR ID
352 DC A(SCTID) SECTOR ID DATA ADDRESS
353 *
354 *
355 ***** SEEK DCB *****
356 *
357 SKDCB DC X'0005' SEEK DCB
358 DC X'0000' BIT 0-3=0; BIT4=DIRECTION; 5-15=DIPFER
359 DC F'0'
360 DC F'0'
361 DC X'0000' 0-7 = HEAD; 8-15 NOT USED
362 DC A(*-*) CHAIN ADDRESS
363 DC F'0' NOT USED
364 DC F'0' NOT USED
365 *
366 ***** CYCLE STEAL STATUS DCB *****
367 *
368 CSDCB DC X'2000' CONTROL WORD
369 DC F'0' NOT USED
370 DC F'0' NOT USED
371 DC F'0' NOT USED
372 DC F'0' NOT USED
373 DC F'0' NOT USED
374 DC X'0008' 4 WORDS OF STATS
375 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
376 *
377 ***** WRITE DCB *****
378 *
379 WRDCB DC X'0001' WRITE CONTROL WORD
380 DC F'0' NOT USED
381 DC X'0000' 0-7=0; 8-15 = FLAG BYTE
382 DC X'0000' SEARCH ARGUMENT CYLINDER
383 DC X'0000' SEARCH ARGUMENT HEAD-SECTOR
384 DC A(*-*) CHAIN ADDRESS
385 DC F'0' BYTE COUNT
386 DC A(*-*) WRITE DATA ADDRESS
387 *
388 ***** VERIFY DCB *****
389 *
390 VRDCB DC X'200C' CONTROL WORD
391 DC F'0' NOT USED
392 DC X'0000' 0-7=0; 8-15 = FLAG BYTE
393 DC X'0000' CYLINDER
394 DC X'0000' HEAD - SECTOR
395 DC A(*-*) CHAIN ADDRESS
396 DC F'0' BYTE COUNT
397 DC A(*-*) VERIFY DATA ADDRESS
398 *
399 ***** READ DCB *****
400 *
401 RDDCB DC X'2009' READ DCB CONTROL WORD
402 DC F'0' NOT USED
403 DC X'0000' 0-7=0; 8-15 = FLAG BYTE
404 DC X'0000' SEARCH ARGUMENT CYLINDER
405 DC X'0101' SEARCH ARGUMENT H-R
406 DC A(*-*) CHAIN ADDRESS
407 DC F'0' BYTE COUNT
408 DC A(*-*) READ DATA ADDRESS
409 *
410 ***** WRITE SECTOR ID SKEWED ****
411 *
412 WKDCB DC X'0003' CONTROL WORD
413 DC X'0000' NOT USED
414 DC A(*-*) 0-7 = PHYSICAL SECTOR # MINUS ONE
415 DC A(*-*) NOT USED
416 DC A(*-*) NOT USED
417 DC A(*-*) CHAIN ADDRESS
418 DC X'0006' BYTE COUNT
419 DC A(WRSID) ADDR OF SECTOR ID DATA
420 *
421 ***** READ SECTOR ID SKEWED ****
422 *
423 RKDCB DC X'200B' CONTROL WORD
424 DC X'0000' NOT USED
425 DC X'0000' 0-7 = PHYSICAL SECTOR # MINUS ONE
426 DC X'0000' NOT USED
427 DC X'0000' NOT USED
428 DC A(*-*) CHAIN ADDRESS
429 DC X'0006' BYTE COUNT FOR READ SECTOR ID
430 DC A(SCTID) SECTOR ID DATA ADDRESS
431 *
432 *
433 ***** CONSTANTS AND DEFINED STORAGE LOCATIONS *****
434 ZER0 DC X'0000' CONSTANT ZERO
435 WRPTR DC A(*-*) WRITE PARAMETER POINTER
436 LGSEC DC X'0000' LOGICAL SECTOR #
437 PHYS DC X'0000' CONVERTED PHYSICAL SEC #
438 CB29 DC X'1D00' CONSTANT BYTE 29
439 FIVE9 DC X'3B00' CONSTANT BYTE 59
440 WRSID DC X'0000' FLAG CYLINDER (WRT SECTOR ID DATA)
441 DC X'0000' CYLINDER HEAD
442 CTR01 DC X'0000' LOG SECTOR, NOT USED
443 CTR02 DC X'0000' COUNTER
444 *
445 *
446 *
447 *****
448 *
449 *
450 * SUBROUTINE
451 *
452 * PURPOSE
453 * CONVERT LOGICAL SECTOR NUMBER TO A PHYSICAL SECTOR MINUS ONE.
454 * SETUP LOGICAL SECTOR # IN LOCATION 'LGSEC'
455 * PHYSICAL SECTOR # WILL BE LOADED IN LOCATION 'PHYS'
456 *
457 * LOGICAL SECTOR# TO PHYSICAL SECTOR# CONVERSION
458 * LOGICAL- X 00, 1E, 01, 1F, 02, 20, 03, 21, 04, 22, 05, 23, 06, 24,
459 * PHYSICAL X 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B, 0C, 0D,
460 *
461 * LOGICAL- 0E, 25, 08, 26, 09, 27, 0A, 28, 0B, 29, 0C, 2A, 0D, 2B,
462 * PHYSICAL 0E, 0F, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 1A, 1B,
463 *
464 * LOGICAL- 0E, 2C, 0F, 2D, 10, 2E, 11, 2F, 12, 30, 13, 31, 14, 32,
465 * PHYSICAL 1C, 1D, 1E, 1F, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29,

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466 * LOGICAL- 15, 33, 16, 34, 17, 35, 18, 36, 19, 37, 1A, 38, 1B, 39,
467 * PHYSICAL 2A, 2B, 2C, 2D, 2E, 2F, 30, 31, 32, 33, 34, 35, 36, 37,
468 *
469 *
470 * LOGICAL- 1C, 3A, 1D, 3B, X
471 * PHYSICAL 38, 39, 3A, 3B, X
472 *
473 *
474 * CALLING SEQUENCE
475 *
476 * BAL CONV, R6
477 *
478 * RETURN
479 *
480 * B (TT304+2)
481 *
482 *
483 *
484 CONV, MVW R6, TT304+2 SETUP RETURN ADDR
485 CB ZER00, LGSEC+1 CK FOR LOG # ZERO
486 JE TT303 BCH IF LOG # IS ZERO
487 CB LGSEC+1, CB29 COMP LOG TO 29
488 JGE RTT01 BCH IF LGSEC 90 OR LESS THAN CB29
489 MVWI 2, R0 SETUP MULTIPLIER
490 MB LGSEC+1, R0 LOG SECTOR # TIMES 2
491 SWI 60, R0 LOG SEC TIMES 2 MINUS 60
492 MVB R0, PHYSC+1 PHYSICAL SECTOR NUMBER
493 J TT304 RETURN TO CALLER
494 TT303 MVB FIVE9, PHYSC+1 PHYSICAL SECTOR # 59
495 J TT304 RETURN TO CALLER
496 RTT01 MVWI 2, R0 LOAD MULTIPLIER
497 MB LGSEC+1, R0 LOG SECTOR # TIMES 2
498 SWI 1, R0 SUBTRACT ONE
499 MVB R0, PHYSC+1 LOAD PHYSICAL SECTOR #
500 J TT304 B RETURN TO CALLER
501 *
502 *
503 * EXECUTE INPUT & OUTPUT COMMANDS
504 * TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
505 * EACH OF THESE ENTRIES SET R7 WITH THE ADRS OF ITS PARAMETER
506 * LIST AND ANY SPECIAL SWITCHES BEFORE BRANCHING TO THE
507 * SUPVR CALL.
508 *
509 * THIS SUBROUTINE WILL CHECK FOR THE FOLLOWING:
510 * 1. LOST INTERRUPTS BY TIMING OUT A COUNTING LOOP
511 * 2. ERROR INTERRUPTS RECEIVED FROM SUPVR
512 *
513 * THIS ROUTINE HAS THE FOLLOWING ENTRIES:
514 *
515 * 1 BAL \$RKEW, R6 READ SECTOR ID SKEWED
516 *
517 * 9 BAL XIOCS, R6 CYCLE STEAL STATUS
518 *
519 * 10 BAL \$SEEK, R6 SEEK
520 *
521 * 11 BAL \$RECL, R6 RECALIBRATE
522 *
523 * 12 BAL \$RDID, R6 READ SECTOR ID
524 *
525 *
526 *
527 * \$SEEK MVA SKDCB, IODCB SET UP CONTROL BLOCK FOR SVC CALL
528 * J XIO INIT READ SECTOR ID BUFFER
529 *
530 *
531 * \$RECL MVA CLDCB, IODCB SET UP BLOCK FOR SVC CALL
532 * J XIO
533 *
534 * \$RDID MVA RSDCB, IODCB SET UP BLOCK FOR SVC CALL
535 * MVA SCTID, R5 SETUP READ SECTOR ID BUFFER ADRS
536 * MVWI 6, R7 SETUP BUFFER LENGTH
537 * FFN R3, (R5) INIT READ SECTOR ID BUFFER
538 * J XIO
539 *
540 * \$RKEW MVA RKDCB, IODCB SET UP CONTROL BLOCK FOR SVC CALL
541 * MVBI X'00', R3 SET BUFFER TO F's
542 * MVA SCTID, R5 SETUP READ SECTOR ID BUFFER ADRS
543 * MVWI 6, R7 SETUP BUFFER LENGTH
544 * FFN R3, (R5) INIT READ SECTOR ID BUFFER
545 * J XIO
546 *
547 * XEQIT
548 * *****29JUL76**
549 *
550 * SUB-ROUTINE
551 *
552 * EXECUTE INPUT AND OUTPUT COMMANDS
553 *
554 * PURPOSE
555 *
556 * TO EXECUTE ALL I/O COMMANDS FROM A COMMON PLACE.
557 * THIS SUBROUTINE WILL DO THE FOLLOWING FUNCTIONS:
558 *
559 * 1. SAVE THE ADDRESS THAT POINTS TO THE INSTRUCTION THAT STARTED
560 * THE I/O COMMAND.
561 * 2. SAVES THE DCB BLOCK USED UNLESS IT IS A START CYCLE STATUS
562 * ISSUED BY THIS SUBROUTINE.
563 * 3. CLEAR OUT THE CYCLE STEAL STATUS STORAGE UNLESS THE
564 * START CYCLE STATUS WAS ISSUED BY THIS SUBROUTINE.
565 * 4. RESETS THE INTERRUPT INDICATOR AND CHECKS FOR ANY INTERRUPT
566 * SINCE THE LAST EXPECTED INTERRUPT. IF AN INTERRUPT IS FOUND,
567 * MYSTERY INTERRUPT (MI) CONTROL BIT IS SET.
568 * 5. MOVES THE ADDRESS OF THE I/O CONTROL BLOCK IN R7, SET THE
569 * EXPECTED INTERRUPT CONTROL BIT AND ISSUE THE 'SVC START'.
570 * 6. WHEN THE SUPVR RETURNS AFTER ISSUING THE I/O COMMAND, TIMING
571 * STARTS TO DETERMINE A LOST INTERRUPT.
572 * 7. EXCEPT THE INTERRUPT AND GATHER INFORMATION TO DETERMINE IF IT
573 * WAS AN ERROR OR OKAY AND EXIT OFF THE INTERRUPT LEVEL.
574 * 8. CHECK IF THERE WAS A WRONG INTERRUPT LEVEL.
575 * 9. CHECK IF AN ERROR WAS EXPECTED AND IF THERE WAS RETURN.
576 * 10. CHECK IF THERE WAS AN ERROR CONDITION IF NOT RETURN.
577 * 11. CHECK TO SEE IF THE EXERCISER IS TO BE TERMINATED.
578 * 12. CHECK IF A CYCLE STEAL OPERATION WAS IN PROGRESS THAT WAS
579 * ISSUED BY THIS SUBROUTINE.
580 * 13. CHECK THE ISB BITS THAT ARE ON. IF BIT 0 IS ON, ISSUE A

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581+** CYCLE STEAL STATUS COMMAND. CHECK FOR ANY OTHER BIT BEING ON,
582+** COUNT IT AND SET UP THE PROPER ERROR MESSAGE TO BE PRINTED.
583+**
584+** CALLING SEQUENCE
585+**
586+** THIS ROUTINE HAS THE FOLLOWING ENTRIES:
587+**
588+** --> BAL XIO OR XEO ANY CYCLE STEAL COMMAND, MOD=0
589+** --> BAL XIO1 MOD PARM PRELOADED IN 'IOHOD'
590+** --> BAL XIOCS, R6 OR XEO START CYCLE STEAL STATUS, MOD=F
591+** --> BAL XIOCS-4, R6 AUTO CS STATUS (FOLLOWING OTHER XIO
592+** AND DOES NOT POST INTERRUPT STATUS)
593+**
594+** RETURN CONTROL
595+**
596+** BXS (R6, 2) RETURN TO USER NO ERROR
597+** OR B (R6)* RETURN AND RETRY ON ERROR
598+** *****
599+** MVWZ IOMOD, R3 SET MOP OF 0 FOR CYCLE STEAL OP
600+** J XIO1 CS I/O'S ARE NOT RETRIED
601+**
602+**
603+** TBTR (R4, CE) RESET CS STATUS INTER ERROR INDICAT.
604+** TBTS (R4, CS) SET 'CYCLE STEAL STATUS' IN PROGRESS
605+** XIOCS MVA CSDCB, IODCB SET UP CONTROL BLOCK FOR SVC CALL
606+** MVWI X'000F', IOMOD SET CYCLE STEAL MODIFIER
607+** TBTR (R4, CS) IS CS IN PROGRESS, ERROR CONDITION
608+** JON XIO2 * YES, BYPASS SAVING I/O ADRS
609+** XIO1 MVW R6, LSTIO SAVE IAR FOR RETRY IF REQUESTED
610+** MVA DCBUF, R3 SET UP TO ADRS TO MOVE DCB TABLE
611+** MVW IODCB, R5 * AND THE FROM ADRS, ALONG WITH
612+** MVBI 16, R7 * THE NUMBER OF MOVES
613+** MVFN (R5), (R3) MOVE 1 STATUS WORD AND ADJUST
614+** MVBI 255, R3 CLEAR CYCLE STATUS BUFFER
615+** MVA CSBUF, R5 * TO ALL ONES *
616+** MVBI 16, R7 *
617+** FFN R3, (R5) *
618+** MVWI X'0081', \$IOIN OVERLAY OLD CONDITION CODES
619+** MVWZ \$ISB, R3 ZERO OUT OLD ISB VALUE
620+**
621+** TBTR (R4, ER) RESET ANY ERROR BEFORE I/O COMMAND
622+** XIO2 TBTR (R4, IN) CLEAR INTERRUPT RECEIVED CNTL BIT
623+** MVA IOBLK, R7 SET UP CONTROL BLOCK FOR SUPVR
624+** TBTR (R4, \$LE) RESET LEVEL ERROR INDICATOR
625+** TBTS (R4, XI) SET EXPECTED INTR CONTROL BIT
626+** SVC START CALL SUPVR FOR I/O COMMAND
627+**
628+** TBTR (R4, NI) IS AN INTR EXPECTED
629+** BN (R6, 2) * NO, RETURN TO USER
630+**
631+** THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
632+**
633+** MVBI X'00', R5 SET UP WORK REG FOR 'LOST INTR'
634+** XIO8 TBTR (R4, IN) HAS INTERRUPT BEEN RECEIVED
635+** JON XIOCK * YES, CHECK IF ALL WAS SATISFACTORY
636+** SVC IDLE ALLOW ANOTHER PROGRAM A CHANCE TO RUN
637+** SUPVR WILL RETURN HERE
638+** ANI 1, R5 ADVANCE TIME OUT COUNT
639+** JNZ XIO8 BCH IF TIME OUT NOT REACHED
640+** TBTS (R4, ER) SET ON ERROR CONTROL BIT
641+** B (R6)* ERR 'NO INTERRUPT'
642+** *****03FEB76**
643+**
644+** SUBROUTINE
645+**
646+**
647+** I/O EXECUTE ERROR HANDLING ROUTINE
648+**
649+** PURPOSE
650+**
651+** THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
652+** PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
653+** SUPERVISOR AND IT WAS NOT ACCEPTED.
654+**
655+** CALLING SEQUENCE
656+**
657+** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
658+**
659+** RETURN CONTROL
660+**
661+** B (R6)* RETURN TO USERS ERROR HANDLER
662+**
663+** *****
664+**
665+** CC 0= DEVICE NOT ATTACHED
666+** FOR 1= DEVICE BUSY
667+** I/O 2= DEVICE BUSY AFTER RESET
668+** 3= COMMAND REJECT
669+** 4= INTERVENTION REQUIRED
670+** 5= INTERFACE DATA CHECK
671+** 6= CONTROLLER BUSY
672+** 7= I/O COMMAND EXCEPTED
673+**
674+** XIOER DC X'706E' COPY STATUS ANY LEVEL INTO R3
675+** SRL 13, R3 POSITION CC CODE TO BITS 13-15
676+** MVB R3, \$IOIN * PUT IN LOG OUT AREA
677+** B (R6)* RETURN TO USER ERROR HANDLER
678+** *****14APR76**
679+**
680+**
681+** SUB-ROUTINE
682+**
683+** ERROR INTERRUPT RUNS ON INTERRUPT LEVEL '\$INTL'
684+**
685+** PURPOSE
686+**
687+** THIS ROUTINE WILL BE ENTERED WHEN THE SUPVR DETECTS AN ERROR
688+** OR THE INTERRUPTING CONDITION CODE DOES NOT AGREE WITH THE
689+** EXPECTED CODE.
690+**
691+** CALLING SEQUENCE
692+**
693+** SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O INTERRUPT
694+**
695+** RETURN CONTROL
696+**
697+** SVC EXIT RETURN TO USER VIA SUPVR

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
698** ***** IL
699** ***** TL
700** ***** IL
701** ***** IL
702** CC 0= CONTROLLER END ISB 0= ADD STATUS IL
703** FOR 1= PROGRAM CONTROL INTERRUPT BITS 1= COND REJECT IL
704** INTR 2= EXCEPTION INTERRUPT FOR 2= INCOR LENGTH IL
705** 3= DEVICE END INTERRUPT INTR 3= DCR SPEC CK IL
706** 4= ATTENTION INTERRUPT 4= STG DATA CK IL
707** 5= ATTENTION / PROGRAM CNTL INTR 5= INV STG ADRS IL
708** 6= ATTENTION / EXCEPTION INTR 6= PROTRCT CK IL
709** 7= ATTENTION / DEVICE END INTR 7= I-FACE DATA IL
710** INTER DC X'706E' COPY STATUS ANY LEVEL INTO R3 IL
711** SRL 13,R3 POSITION INDICATORS IN R3 IL
712** MVA OPN1,R4 SET UP BASE ADRS IL
713** TBT (R4,CS) IS CS IN PROGRESS IL
714** JOFF INTES * NO IL
715** TBT (R4,CS) TURN ON CYCLE STEAL INTER ERROR IL
716** MVB R7,CS18 SAVE CS ERR ISB VALUE, BITS 0-7 IL
717** MVB R3,CS18+1 * AND THE COND CODE IL
718** J INTR1 IL
719** INTES TBT (R4,XE) TEST EXPECTED ATTEN / ERROR IND IL
720** JOFF INTET BCH IF NOT EXPECTED IL
721** CBI 4,R3 IS THIS AN 'ATTENTION' INTR IL
722** JE INTR1 * YES, BCH TO END INTR SEQUENCE IL
723** INTET TBT (R4,ER) SET ERROR ON I/O COMMAND CNL BIT IL
724** J INTR1 IL
725** ***** IL
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LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
814+ DC A(INTOK) INTERRUPT OK RETURN ADRS
815+ DC A(INTR) INTERRUPT ERROR ADRS
816+INTCC DC X'0003' INTERRUPT CODE EXPECTED
818+*****11MAY76**
819+
820+ SUBROUTINE
821+
822+ CONNECT INTERRUPT CONTROL BLOCK & PREPARE DEVICE
823+
824+ PURPOSE
825+
826+ TO CONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
827+ PREPARE ON THE DESIRED INTERRUPT LEVEL AND TO ALLOW THE DEVICE
828+ TO INTERRUPT.
829+
830+ CALLING SEQUENCE
831+
832+ THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
833+
834+ --> BAL \$CONC,R6 CLEAR DEV DEP STG AND CONNECT I/O BLK
835+ --> BAL \$CONP,R6 PREPARE DEVICE ONLY, ALREADY CONNECT
836+
837+ RETURN CONTROL
838+
839+ OR B (R6,2) RETURN TO USER VIA REG 6 IF OKAY
840+ OR B (R6)* IF THE DEVICE COULD NOT BE CONNECTED
841+
842+*****
843+\$CONC MVBI 6,R7 NUMBER OF BYTE TO CLEAR
844+ MVBI 0,R7 * AND THE DATA TO USE
845+ MVBI 0,R7,R5 * ALONG WITH THE ADRS TO USE
846+ FEN R3 (R5) *
847+ MVWZ OPN3,R3 CLEAR OLD CONTROLS FOR NEW ROUTINE
848+ MVA INTBL,R7 SET R7 TO CONTROL BLOCK AND
849+ SVC CIBC * CONNECT IT TO THIS DEVICE
850+ BN (R6)* ERROR RETURN TO USER
851+
852+\$CONP MVW \$INTL,IODCB PUT IN LEVEL & INTR PARAMETER
853+ MVA IOBLK,R7 SET R7 TO CONTROL BLOCK TO PREPARE
854+ MVWZ X'0708',SIOIN INITIALIZE CONDITION CODE STORAGE
855+ MVWZ \$ISB,R3 * AND CLEAR OLD ISB VALUE
856+ MVW R6,LSTIO SET UP ADDRESS THAT STARTED LAST I/O
857+ PEP * AND CALL ON SUPVR
858+ BXS (R6,2) RETURN TO USER
859+
860+*****06APR76**
861+
862+ SUBROUTINE
863+
864+ DISCONNECT THE INTERRUPT CONTROL BLOCK AND LOG ERRORS
865+
866+ PURPOSE
867+
868+ DISCONNECT THE INTERRUPT CONTROL BLOCK TO THIS DEVICE AND
869+ SET THE 'NO GOOD' CONTROL BIT, THEN LOG THE DATA THAT HAS
870+ BEEN FOUND TO HELP THE OPERATOR DEFINE THE ERROR CONDITION.
871+
872+ CALLING SEQUENCE
873+
874+ THIS SUBROUTINE HAS THE FOLLOWING ENTRIES:
875+
876+ --> B \$ERR\$ SET 'NG' BIT AND CONVERT DATA TO LOG
877+ --> B \$CONX RETURN TO MDI SUPERVISOR TO TEST STS
878+
879+ RETURN CONTROL
880+
881+ RETURN TO MDI
882+ OR B TURTN* IF THE DEVICE COULD NOT BE CONNECTED
883+
884+*****
885+\$ERR\$ MVWI X'8000',TUSTATUS SET ON 'NO GOOD' STATUS BIT
886+ MVA HEBLK,R7 GET ADRS OF CONTROL BLOCK
887+ SVC HTOE CONVERT HEX TO EBC VIS DCP
888+\$PRNT MVBI 3,R5
889+ MVA TOWORK,R3 SET UP BUFFER STORAGE
890+ MVW R3,BUFPT
891+ MVA LINE1,R1
892+ MVBI 4,R7
893+ MVBI 4,R7
894+ MVFN (R3), (R1)
895+ MVBI 4,R7, (R1)
896+ MVBI X'40',R2
897+ MVB R2, (R1)+
898+ JCT MVBUF,R6
899+ MVBI 8,R6
900+ AWI 44,R1
901+ JCT MVBUF,R5
902+ MVWI PIDMSG10,PID+2
903+ MVA FAKERT,@DCADD1
904+ MVA DC2PT,@DCADD2
905+ QWI BT0060,SUPSTAT
906+ MVA TSTUID,R3
907+ BAL TUNSG#TR*,R7 SET UP BUFFER STORAGE
908+ GO TO MESSAGE WRITER
909+\$CONX EQU *
910+ MVB DEVADD,R7 GET DEVICE ADDRESS FROM MDI
911+ SVC RICB RELEASE INTERRUPT CONTROL BLOCK
912+ B TURTN* RETURN TO MDI SUPERVISOR
913+
914+\$BEGIN DC A(0007) NUMBER OF LINES TO PRINT
915+ DC A(0008) LINE LENGTH = 8 CHAR
916+ DC C'*** ABORT'
917+ DC A(0040) LINE LENGTH = 40 CHAR
918+ DC C'TUID IOIN ISB INST DEV1 DEV2 DEV3 DEV4
919+ DC A(0040) LINE LENGTH = 40 CHAR
920+ DC C'
921+ DC A(0040) LINE LENGTH = 40 CHAR
922+ DC C'CNL DCB2 DCB3 DCB4 DCB5 CHAD BYCT ADRS '
923+ DC A(0040) LINE LENGTH = 40 CHAR
924+ DC C'
925+ DC A(0040) LINE LENGTH = 40 CHAR
926+ DC C'RSID CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 CS-8 '
927+ DC A(0040) LINE LENGTH = 40 CHAR
928+ DC C'
929+ DC 4040404040404040

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
001D5A 0000 930+BUFP DC A(*-*)
001D5C 1C52 931+DC2PT DC A(BEGIN)
001D5E 0101 932+FKXTU DC X'0101'

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
001EA0 6E03 21FE 1045 BAL SDDGS,R6
001EA4 6E03 2240 1046 BAL SEQCL,R6
001EA8 4C3E 1047 SDD12 TBTR (R4,BIG)
001EA9 1224 1048 JON WR00

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1391 * THIS SUBROUTINE CHECKS ALL SECTOR ID'S FOR
1392 * THE PROPER SYNC VALUE, FLAG, CYLINDER, HEAD AND SECTOR.
1393 * IF NO ERRORS ARE DETECTED THE PROGRAM WILL CLEAR THE 'SYNC'
1394 * BYTE IN THE ID BUFFER. ERROR SECTORS WILL BE LOGGED OUT.
1395 *
1396 * BAL SEQCL,R6 VALIDATE SECTORS
1397 *
1398 * B *-* RETURN TO CALLER
1399 *
1400 *****
1401 SEQCL MVW R6,SEQCL+2 SET UP RETURN
1402 MVW 1,CYLNH CYL ONE?
1403 JE SEQCX YES,RETURN TO CALLER
1404 MVBZ HDSEC+1,R2 CLEAR SECTOR COUNTER
1405 MVA FSTID,R3 * AND THE SEC ID BUFFER ADRS
1406 MVD HOE00,R0 * WITH THE DATA TO COMPARE
1407 *
1408 * SYNC, FLAG AND CYL CHECKING ROUTINE
1409 *
1410 SEQCM MVW HDSEC,R2 GET HEAD AND SECTOR VALUE
1411 CD (R3),R0 WAS SYNC, FLAG AND CYL THE SAME
1412 JNE SEQCS * NO, BCH
1413 CW (R3,GSDHD),R2 CMP HEAD AND SEC, IS IT OK
1414 JE SEQCV * YES, GO UPDATE CONTROLS
1415 *
1416 *** HEAD AND SECTOR ERROR - RESTORE PROPER HEAD AND SECTOR
1417 *
1418 JAL LOG,R6 LOG OUT ERROR SECTOR
1419 MVW R2,(R3,GSDHD) SET PROPER HEAD AND SECTOR
1420 TBTS (R4,ERR) SET ERR OR ASSIGNMENT BIT
1421 J SEQCV
1422 SEQCS MVBI 2,R7 DEFECTIVE FLAG INDICATED?
1423 CB (R3,1),R7 * NO
1424 JNE SEQCF ALTFNATE CYL INDICATED?
1425 CW (R4,ERR),R2 YES
1426 JE SEQCV CYL NUMBER THE SAME
1427 CW CYLNH,(R3,2) NO
1428 JNE SEQCP SET ERR OR ASSIGNMENT BIT
1429 TBTS (R4,ERR)
1430 J SEQCV
1431 *
1432 *** SECTOR CLOBBBERED-RESTORE SECTOR ID
1433 *
1434 SEQCP JAL LOG,R6 LOG LOUT CLOBBBERED SECTOR
1435 MVW HOE00,(R3) GET VALID SYNC AND FLAG
1436 MVD CYLNH,(R3,2) CYL AND HEAD AND SECTOR
1437 TBTS (R4,ERR) SET ERR OR ASSIGNMENT BIT
1438 TBTS (R4,WRT) SET WRITE SECTOR ID FLAG
1439 J SEQCV
1440 *
1441 *****
1442 LOG LOG,R6 LOG OUT EXCEPTIONAL SECTOR ROUTINE
1443 *
1444 * BAL LOG,R6 LOG OUT SECTOR ID
1445 *
1446 * B *-* RETURN TO CALLER
1447 *
1448 *****
1449 LOG MVW R6,LOG1+2 SET UP RETURN
1450 MVW CYLNH,ERLST* ACTUAL CYL NUM
1451 AWI 1,ERLST INCREMENT LIST ADDRESS
1452 MVB SKDCB+8,ERLST* ACTUAL HEAD
1453 AWI 1,ERLST INCREMENT LIST ADDRESS
1454 MVB HDSEC+1,ERLST* ACTUAL SECTOR
1455 AWI 1,ERLST INCREMENT LIST ADDRESS
1456 AWI 1,ERRCT INCREMENT ERROR COUNTER
1457 MVW (R3),ERLST* SYNC AND FLAG
1458 AWI 2,ERLST INCREMENT LIST ADDRESS
1459 MVD (R3,2),ERLST* LIST CYL,HEAD,SECTOR
1460 AWI 4,ERLST INCREMENT LIST ADDRESS
1461 LOG1 B *-* RETURN TO CALLER
1462 *
1463 * NORMAL UPDATE AND END CHECKING
1464 *
1465 * SEQCV MVBZ (R3),R7 CLEAR SYNC FIELD, ALL SEEMS WELL
1466 SEQCV AWI ID01-ID00,R3 ADJUST ADRS POINTER FOR ID BUFFER
1467 AWI 1,HDSEC ADVANCE SECTOR CONTROL
1468 CB H003C,HDSEC+1 ARE ALL ID'S CHECKED
1469 JNE SEQCM * NO, CONTINUE CHECKING
1470 *
1471 * RETURN TO CALLER
1472 SEQCV B *-*
1473 H003C DC X'3C00' CONSTANT
1474 *
1475 * EJECT
1476 *
1477 *****
1478 * CHECK ALTERNATE ASSIGNMENTS
1479 *
1480 * THIS SUBROUTINE CHECKS IF ANY ALTERNATE ASSIGNMENTS HAVE BEEN
1481 * MADE AND IF THEY ARE CORRECT. IF AN ALTERNATE ASSIGNMENT HAS
1482 * NOT BEEN MADE, THIS SUBROUTINE WILL DO IT AND FIND THE NEXT
1483 * AVAILABLE ONE. IT ALSO CHECKS FOR DEFECTIVE ALTERNATES (CYL1)
1484 * AND BYPASSES THEM.
1485 *
1486 * -> BAL ALTER,R6 GO CHECK ALTER ASSIGNMENTS
1487 *
1488 * B *-* RETURN TO CALLER
1489 *
1490 * *****
1491 ALTER MVW R6,ALTEX+2 SAVE RETURN ADRS
1492 MVA FSTID,R3 SET ID BUFFER ADRS FOR ERR CHECK
1493 MVBZ HDSEC+1,R2 * AND SECTOR CONTROL NUMBER
1494 ALTEX MVW HDSEC,R2 GET HEAD AND SECTOR TO CHECK
1495 MVB (R3),R1 GET SYNC FIELD
1496 JZ ALTE4 * AND BCH IF NO ERROR
1497 JZ ALTE4 HAS ALTER TRK BEEN ASSIGNED
1498 JZ ALTE4 * YES, GO CHECK IF OUT
1499 JWB ALTE4 LARGE FILE?
1500 TBTF (R4,BIG) NO
1501 JWB ALTE4 END OF CYL1 BUFFER (LARGE FILE)
1502 MVA CYEND,R7
1503 J ALTE4
1504 ALT11 MVA C1200+2,R7 END OF CYL1 BUFFER
1505 ALT44 MVA C1000+2,R1 CYL1 BUFFER

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1506 ALT22 CD CYLNH,(R1) ALT ASSIGNMENT CORRECT?
1507 JE ALTEW YES
1508 AWI 6,R1 INCREMENT BUFFER ADDRESS
1509 CW R1,R7 END OF CYL1?
1510 JE REASG REASSIGN ALTERNATE SECTOR
1511 J ALTEW CONTINUE CHECKING FOR ALTER SECTOR
1512 REASG TBTS (R4,WRT) SET WRITE SECTOR ID FLAG
1513 CB HOE00+1,(R3,1) IS FLAG ZERO?
1514 JE ALTEW YES,DO NOT ASSIGN ALTERNATE
1515 TBTF (R4,CND) END OF CYL ONE?
1516 BON NEXT2 YES
1517 MVW NEXT2,R1 GET THE NEXT AVAILABLE ASSIGNMENT
1518 MVD (R1,2),(R3,2) * AND MOVE CYL, HEAD AND SEC
1519 MVD CYLNH,(R1,2) THEN MOVE CYL, HEAD & SEC IN ALT
1520 MVWI X'0E01',(R1) FORCE FLAG ONE
1521 ALTEW AWI ID01-ID00,R1 ADVANCE NEXT AVAILABLE ASSIGN
1522 TBTF (R4,BIG) LARGE FILE?
1523 JWB ALTEW NO
1524 CW CEND2,R1 END OF CYL 1?
1525 JNE ALTEW NO
1526 J STPP6 YES
1527 END1 CW CYEND,R1 HAS THE END OF CYL 1 STG BEEN FOUND
1528 JNE ALTEW * NO, BCH
1529 STPP6 TBTS (R4,CND) END OF TRACK 1
1530 ALTEW
1531 ALTEW MVB (R1,1),R7 * AND GET THE FLAG
1532 CBI 0,R7 IS NEXT ASSIGN FLAG VALID
1533 JNE ALTEW * NO, GO CHECK THE NEXT ONE
1534 MVW R1,NEXTA SET ADRS OF NEXT ASSIGN
1535 J ALTEW
1536 ALTEG MVB (R3,5),R1 GET SECTOR OF FAILING ID
1537 MB IDSIZ+1,R1 * AND MULT BY THE ID SIZE TO FIND
1538 MVB (R3,4),R7 GET HEAD NUMBER
1539 MW BLEN,R7
1540 AW R7,R1
1541 AW CYLNH,R1 * ALTERNATE ASSIGNMENT ON TRACK 1
1542 CD CYLNH,(R1,2) IS THIS ASSIGNMENT CORRECT
1543 JE ALTEW * YES, CONTINUE CHECKING
1544 *** UNABLE TO FIND ALTER SECTOR, SEARCH CYL1 BUFFER
1545 TBTF (R4,BIG) LARGE FILE?
1546 JWB ALTEW NO
1547 JWB ALTEW END OF CYL1 BUFFER (LARGE FILE)
1548 J ALTEW
1549 ALT1 MVA C1200+2,R7 END OF CYL1 BUFFER
1550 ALT4 MVA C1000+2,R1 CYL1 BUFFER
1551 ALT2 CD CYLNH,(R1) ALT ASSIGNMENT CORRECT?
1552 JE ALTEW YES
1553 AWI 6,R1 INCREMENT BUFFER ADDRESS
1554 CW R1,R7 END OF CYL1?
1555 JE REASG REASSIGN ALTERNATE SECTOR
1556 J ALTEW CONTINUE CHECKING FOR ALTER SECTOR
1557 *
1558 ALTEW AWI ID01-ID00,R3 ADVANCE BUFFER ADRS AND
1559 AWI 1,HDSEC * ADV SECTOR CONTROL
1560 CB H003C,HDSEC+1 HAS LAST SYNC FIELD BEEN CHECKED
1561 JNE ALTEW * NO, BCH AND CONTINUE
1562 *
1563 ALTEB B *-* BRANCH TO CALLER
1564 IDSIZ DC A(ID01-ID00) ID BUFFER SIZE
1565 NEXTA DC A(C1000) NEXT AVAILABLE ASSIGNMENT ADRS
1566 CYSTG DC A(C1000) CYL1 STORAGE OF ALTER ASSIGNMENTS
1567 BLEN DC X'0168' TRACK SIZE
1568 *
1569 *****
1570 * BUILD WRITE DCB'S
1571 *
1572 * THIS SUBROUTINE SETS UP THE WRITE ID CONTROL FOR EITHER A 'VTL'
1573 * OR 'DUTCHESS' ATTACHED 4962 FILE AND THEN LOADS THE WRITE
1574 * SECTOR ID 'DCB'S' WITH THE PROPER CONTROL WORD.
1575 *
1576 *
1577 *
1578 * -> BAL SETWR,R6 BUILD WRITE DCB'S
1579 *
1580 * B *-* RETURN TO CALLER
1581 *
1582 * *****
1583 SETWR MVW R6,PLRTN+2 SET UP RETURN ADDRESS
1584 TBTF (R4,VTL) * CHECK FILE TYPE
1585 JWB ALTEW ECH IF VTL FILE ATTACHMENT
1586 MVWI X'8006',R7 ADJUST FOR DUTCHESS ATTACHMENT
1587 J PLUG3
1588 *
1589 *
1590 *
1591 *
1592 *
1593 PLUG1 MVWI X'8002',R7 SET UP WRITE CNTL WORD FOR VIL FILE
1594 PLUG3 MVA WRT00,R2 SET UP SECOND DCB ADDR
1595 MVB 60,R0 SET UP NUMBER OF DCB'S TO PLUG
1596 PLUG6 MVA FSTID,R3 GET BUFFER ADDRESS
1597 MVBZ HDSEC+1,R1 CLEAR SECTOR NUM
1598 PLUG2 MVB (R3),R1 CHECK FOR ERROR
1599 JZ PLUG4 NO ERROR
1600 AWI X'80',R1 BAD SECTOR WRITTEN SKEWED?
1601 JWB ALTEW YES
1602 PLUG4 MVW (R2),R7 * AND GO PLUG DATA IN R7
1603 PLUG7 MVW CYLNH,(R2,6) PUT IN CURRENT CYL NUMBER
1604 MVB HDSEC,(R2,8) PUT IN CURRENT HEAD NUMBER
1605 AWI 16,R2 ADJUST FOR CHANGE
1606 AWI ID01-ID00,R3
1607 AWI 1,HDSEC
1608 JCT PLUG2,R0
1609 CWI X'8003',WRT00
1610 JE PLUG8
1611 MVWI X'8002',WRT00 SET NORMAL WRITE IN DCB
1612 CWI X'8003',WRT1E IS SECTOR 30 TO BE WRITTEN SKEWED?
1613 JE PLUG8 YES
1614 MVWI X'8002',WRT1E SET NORMAL WRITE IN DCB
1615 PLUG9 RBTWI X'8000',WRT3B RESET CHAIN BIT IN LAST WRITE DCB
1616 MVB X'0168',R7 BYTE COUNT FOR TRACK
1617 MVA FSTID,R3 SET UP 'TO' ADDR
1618 MVA FSTID+1,R1 'FROM' ADDR
1619 MVFN (R1),(R3) MOVE ID'S
1620 PLRTN B *-* RETURN TO CALLER

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
002462 4080 8003 1621 PLUG5 MVWI X'8003', (R2) SET UP FOR WRITE ID SKEWED
002466 50D5 1622 J PLUG7
1623 *
1624 *****
1625 *
1626 * THIS SUBROUTINE ISSUES WRITE SECTOR ID COMMAND TO WRITE ID S
1627 * ON A FULL TRACK. ID'S ARE ALSO VERIFIED.
1628 *
1629 * BAL WRALL,R6 WRITE ID'S
1630 *
1631 * B *-* RETURN
1632 *
1633 *
1634 *****
1635 WRALL MVW R6,WFA+2 SET UP RETURN ADDRESS
1636 WRA1 MVWI X'0168',R7 SET UP BYTE COUNT FOR ONE TRACK ID'S
1637 MVA FSTID,R1 SAVE ID'S FOR RETRY
1638 MVA RTEST,R3
1639 MVFN (R1),(R3)
1640 WALL TBTS (R4, XE) SET EXPECTED ERROR FLAG
1641 BAL WRID,R6 WRITE SECTOR ID'S
1642 DC A(\$ERR\$)
1643 TBTR (R4, ER) ANY ERROR
1644 JOFF WRA2 NO
1645 SWI 1,CTRO2 DECREMENT RETRY COUNTER
1646 JNZ WALL RETRY
1647 *** ALL WRITE RETRIES HAVE FAILED
1648 B STOP3 ALL RETRIES FAILED
1649 WRA2 TBTS (R4, XE) EXPECTED ERROR
1650 BAL \$RDIM,R6 READ VERIFY SECTOR ID'S
1651 DC A(\$ERR\$) ERROR
1652 TBTR (R4, ER) ANY ERROR?
1653 JON WRA4 YES
1654 MVWI X'0010',CTRO2 INIT RETRY COUNTER
1655 WRA B *-* RETURN TO CALLER
1656 WRA4 MVWI X'0168',R7 SET UP BYTE COUNT FOR ONE TRACK ID'S
1657 MVA FSTID,R1 RESTORE ID'S FOR RETRY
1658 MVA RTEST,R1
1659 MVFN (R1),(R3)
1660 SWI 1,CTRO2 DECREMENT RETRY COUNTER
1661 JNZ WALL RETRY
1662 B STOP3 ALL RETRIES FAILED
1663 * \$WRID MVA WRT00,IODCB STARTING DCB ADDRESS
1664 B XIO WRITE
1665 *
1666 *
1667 * THIS SUBROUTINE WRITES SECTOR ID'S FOR CYLINDER ONE.
1668 *
1669 *
1670 *
1671 TC00 TBTR (R4,FXD) FIXED HEADS?
1672 JOFF TCC0 NO
1673 JAL TF00,R6 CHECK AND WRITE FIXED HEADS
1674 MVWI 1,CYLNM SET CYLINDER ONE
1675 MVWI 1,SKDCB+2 SEEK TO CYL ONE
1676 MVWI 0,SKDCB+8
1677 BAL \$RCL,R,HDSEC LOAD SELECTED HEAD
1678 DC A(\$ERR\$) RECALIBRATE
1679 TBTR (R4, ER) ERROR- RETRY RECALIBRATE
1680 BON \$ERR\$ INTERRUPT ERROR?
1681 MVWI 360,R7 YES
1682 MVA C1000,R3 MOVE CYL ONE,HD 0 ID'S TO
1683 MVA FSTID,R5 * NORMAL ID BUFFER
1684 MVFN (R3),(R5)
1685 TC01 BAL \$SEK,R6 SEEK TO CYL ONE OR SELECT HEAD
1686 DC A(\$ERR\$)
1687 TBTR (R4, ER) INTERRUPT ERROR?
1688 BON \$ERR\$ YES
1689 BAL SETWR,R6 SET UP DCB'S FOR WRITING ID'S
1690 BAL WRALL,R6 WRITE ID'S
1691 TBTR (R4,BIG)
1692 JON TC02
1693 CWI X'0100',SKDCB+8 HEAD ONE?
1694 BE TS99U LOG OUT ERROR SECTORS AND EXIT
1695 TC03 MVWI 0,SKDCB+2 SELECT HEAD ONE
1696 MVWI X'0100',SKDCB+8
1697 MVB SKDCB+8,HDSEC
1698 MVWI 360,R7
1699 MVA C1100,R3 MOVE CYL ONE,HD 1 ID'S TO
1700 MVA FSTID,R5 * NORMAL ID BUFFER
1701 MVFN (R3),(R5)
1702 J TC01
1703 TC02 CWI 0,SKDCB+8 HEAD ZERO?
1704 JE TC03 YES
1705 CWI X'0100',SKDCB+8 HEAD ONE?
1706 JE TC04
1707 B TS99U LOG OUT ERROR SECTORS AND EXIT
1708 TC04 MVWI 0,SKDCB+2 SELECT HEAD 2
1709 MVWI X'0200',SKDCB+8
1710 MVB SKDCB+8,HDSEC
1711 MVWI 360,R7
1712 MVA C1200,R3 MOVE CYL ONE,HD 2 ID'S TO
1713 MVA FSTID,R5 * NORMAL ID BUFFER
1714 MVFN (R3),(R5)
1715 J TC01
1716 *
1717 *
1718 *****
1719 *
1720 * THIS SUBROUTINE WRITES SECTOR ID'S FOR FIXED HEADS.
1721 *
1722 * BAL TF00,R6 WRITIE FIXED HEAD SECTOR ID'S
1723 *
1724 * B *-* RETURN TO CALLER
1725 *
1726 *
1727 *****
1728 TF00 MVW R6,TFRTN+2 SET UP RETURN ADDRESS
1729 MVWI X'0098',CYLNM SET CYLINDER FOR FIXED HEADS
1730 BAL \$RCL,R6 RECALIBRATE
1731 DC A(\$ERR\$) ERROR- RETRY RECALIBRATE
1732 TBTR (R4, ER) INTERRUPT ERROR?
1733 BON \$ERR\$ YES
1734 MVWI X'0098',SKDCB+2 SEEK TO CYL NINTY EIGHT

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00259A 4020 19BC 8000 1735 MVWI X'8000',SKDCB+8 SELECT FIXED HEAD 0
0025A0 8028 19BC 21FC 1736 MVB SKDCB+8,HDSEC LOAD SELECTED HEAD
0025A6 6E03 1A7C 1737 BAL \$SEK,R6 SELECT HEAD
0025AA 1BF8 1738 DC A(\$ERR\$)
0025AC 4CA1 1739 TBTR (R4, ER) INTERRUPT ERROR?
0025AE 6A00 1BF8 1740 BON \$ERR\$ YES
0025B2 4C19 1741 TBTR (R4,VTL) VTL ATTACHMENT?
0025B4 120A 1742 JON FXX99 YES
0025B6 4C64 1743 FXG1 TBTS (R4, XE) SET EXPECTED ERROR
0025B8 6E03 217C 1744 BAL \$RDIM,R6 READ ID IMM
0025BC 1BF8 1745 DC A(\$ERR\$)
0025BE 4C31 1746 TBTR (R4, ER) ANY ERROR?
0025C0 1031 1747 JOFF FXX1 NO
0025C2 402E 1A36 0001 1748 SWI 1,CTRO1 DECREMENT RETRY COUNTER
0025C8 18F6 1749 JNZ FXG1
0025CA 4020 1998 3600 1750 FXX99 MVWI X'3600',RSDCB+4 READ SECTOR 57
0025D0 4020 19A2 30B6 1751 MVA ID39,RSDCB+14 DATA ADDRESS
0025D6 4C64 1752 TBTS (R4, XE)
0025D8 6E03 1A8C 1753 BAL \$RDID,R6
0025DC 1BF8 1754 DC A(\$ERR\$)
0025DE 4020 1998 3800 1755 MVWI X'3800',RSDCB+4 READ SECTOR 58
0025E4 4020 19A2 30BC 1756 MVA ID3A,RSDCB+14 DATA ADDRESS
0025E6 4C64 1757 TBTS (R4, XE)
0025EC 6E03 1A8C 1758 BAL \$RDID,R6
0025F0 1BF8 1759 DC A(\$ERR\$)
0025F2 4020 1998 3A00 1760 MVWI X'3A00',RSDCB+4 READ SECTOR 59
0025F8 4020 19A2 30C2 1761 MVA ID3B,RSDCB+14 DATA ADDRESS
0025FE 4C64 1762 TBTS (R4, XE)
002600 6E03 1A8C 1763 BAL \$RDID,R6
002604 1BF8 1764 DC A(\$ERR\$)
002606 6E03 2192 1765 BAL \$DDFF,R6 DETERMINE IF FILE IS WRITTEN SDD
00260A 4020 1A28 0000 1766 MVWI 0,LGSEC INIT LOG SECTOR TO 0
002610 4020 1A36 0010 1767 MVWI X'0010',CTRO1 INIT RETRY CTR
002616 6E03 203A 1768 BAL \$DD2,R6 DETERMINE AND LOG ERROR
00261A 6E03 21FE 1769 BAL \$DDG6,R6 CONVERT SDD TO GSD IF NESSESARY
002622 5009 2240 1770 BAL \$SEQCL,R6 VALIDATE SECTORS
002624 4020 1A36 0010 1771 J LOOP
00262A 6E03 1FE0 1772 FXX1 MVWI X'0010',CTRO1 INIT RETRY CTR
00262E 6E03 21FE 1773 BAL \$DD7,R6 CHECK FOR DEFECTIVE FLAG
002632 6E03 2240 1774 BAL \$DDG6,R6 CONVERT SDD TO GSD IF NESSESARY
002636 4C1E 1775 BAL \$SEQCL,R6 VALIDATE SECTORS
002638 1202 1776 FXX12 TBTR (R4,SDD) SDD FORMAT?
00263A 4C9C 1777 JON FX01 YES
00263C 1002 1778 TBTR (R4,ERR) ANY ERROR SECTORS?
00263E 6E03 21D8 1779 JOFF FX46 NO
002642 402F 19BC 8700 1780 BAL WRTT,R6 GOTO CONT/ALT/WRT ROUTINE
002644 1007 1781 FX46 CWI X'8700',SKDCB+8 FIXED HEAD 8?
00264A 4029 19BC 0100 1782 JN TRFN YES RETURN TO CALLER
00264E 4020 19B6 0000 1783 ANI X'0100',SKDCB+8 INCREMENT SECTOR NUMBER
002650 50A4 1784 MVWI 0,SKDCB+2 SELECT HEAD
002656 6802 0000 1785 J TF01
1786 TFRTN B *-* RETURN TO CALLER
1787 *
1788 *
1789 *
1790 *
1791 *****
1792 * LOG OUT DEFECTIVE SECTORS
1793 *
1794 *
1795 *****
1796 TS99U CWI 0,ERRCT ANY BAD SECTORS?
1797 JNE TSS1 YES
1798 MVA ERSEC,R3 FIRST LOG OUT ADDRESS
1799 MVW ERRCT,R4 ERROR COUNT
1800 MVWI X'D5D6',HEAD3 LOAD CHAP 'NO' IN LOG OUT AREA
1801 MVWI X'4040',HEAD3+2
1802 MVA HEAD2,R7
1803 SVC OUT
1804 B \$CONX PRINT HEADING
1805 TSS1 TBTR (R4,SDD) EXIT
1806 JOFF ISSS SDD FORMAT
1807 MVWI X'E2C4',HEAD3 NO
1808 TSS9 MVA ERSEC,BLK+2 LOAD CHAR 'SD' IN LOG OUT AREA
1809 MVA ERSEC,R3 ADDRESS OF 'BLK' PARAMETER LIST
1810 MVW ERRCT,R4 FIRST LOG OUT ADDRESS
1811 MVA HEAD2,R7 ERROR COUNT
1812 SVC OUT PARM ADDRESS
1813 MVA HEAD,R7 PRINT HEADING
1814 SVC OUT PARM ADDRESS
1815 MVW ERRCT,R0 PRINT HEADING
1816 MVA FILL+1,BLK+4 NUMBER OF ERROR SECTORS
1817 MVB I 5,R1 ADDRESS OF OUTPUT BUFFER
1818 MVA BLK,R7 NUMBER OF WORDS TO BE CONVERTED
1819 SVC HTOE PARM ADDRESS
1820 ANI 2,BLK+2 CONVERT HEX TO EBC
1821 ANI 9,BLK+4 INCREMENT FROM ADDRESS
1822 JCT TT69S,R1 LOOP
1823 MVA DATA,R7 PARM ADDRESS
1824 SVC OUT PRINT ERROR SECTORS
1825 JCT TT69R,R0 LOOP
1826 MVA ERSEC,R3 LOAD ADDRESS OF ERRORS INTO R3
1827 MVA \$OUT,R7 LOAD ADDRESS OF CONTROL BLOCK
1828 SVC OUT ISSUE SVC
1829 B \$CONX EXIT
1830 *
1831 STOP2 MVWI X'0028',R7 CYL 1 COMPLETELY REASSIGNED
1832 MVA FULL,R3
1833 STOP4 MVA BEGIN+14,R5
1834 MVFN (R3),(R5)
1835 B \$ERR\$
1836 STOP3 MVWI X'0028',R7 ALL WRITE RETRIES FAILED
1837 MVA RETRY,R3
1838 J STOP4
1839 *
1840 FULL DC C'UNABLE TO ASSIGN ALTER SCT, CYL1 IS FULL'
1841 RETRY DC C'WRITE SCT ID ERROR, ALL RETRIES FAILED'
1842 *
1843 EXIT1 MVWZ DEVTAB,R7
1844 MVWZ ASSIGN,R7
1845 SVC TERM
1846 *
1847 *
1848 *
1849 BLK DC X'0002'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002754	0000	1850	DC A(*-*) 'FROM'	
002756	0000	1851	DC A(*-*) 'TO'	
002758	0080	1852	* DC X'0080'	
00275A	275C	1853	DC A(HEAD4)	
00275C	E261C260C3E8D3404	1854	DC C'S/B-CYL HD/SC IS-SYN/FLG CYL HD/SC	
00275E	00	1855	DC X'00'	END OF PRINT CHARACTER
00278A	0080	1856	DC X'0080'	
00278C	278E	1857	DC A(FILL)	
00278E	4040404040404040	1858	DC C	
002790	00	1859	DC X'00'	END OF PRINT CHARACTER
00279C	00C0	1860	DC X'00C0'	FLAG FIELD FOR CONTROL BLOCK
00279E	27C2	1861	DC A(ERMSG)	ADDRESS OF DUMMY ERROR MSG
0027C0	78F3	1862	DC X'78F3'	STOP CODE FOR ERROR MESSAGE
0027C2	0000	1863	DC X'0000'	DUMMY ERROR MSG
0027C4	0000	1864	DC X'0000'	
0027C6	27C8	1865	DC A(HEAD3)	
0027C8	C7E2C440C6D3C1C7C	1866	DC C'GSD FLAGGED SECTORS'	
0027DB	00	1867	DC X'00'	END OF PRINT CHARACTER
0027DC	0000	1868	* DC A(*-*)	ERROR COUNTER
0027DE	0000	1871	DC A(*-*)	ERROR LIST ADDRESS
0027E0	0000	1872	DC A(*-*)	ERROR LIST ADDRESS
0027E2	0000	1873	MACRO	
0027E4	3B00	1874	EX DC EA,EB,EC,ED,EE,EF,EG,EH	
0027E6	0000	1875	LCLC DC EJ,FK,EL,EM,EN,EO,EP,EQ	
0027E8	0000	1876	EJ SETC '0000'(1,4-K'EA)'.EA'	CONTROL WORD
0027EA	27F0	1877	EX DC X'EJ'	
0027EC	0006	1878	EK SETC '0000'(1,4-K'EB)'.EB'	DIRECT / # OF TRACKS
0027EE	2F84	1879	DC X'EK'	
0027F0	A00E	1880	EL SETC '0000'(1,4-K'EC)'.EC'	PHY SEC / FLAG
0027F2	0000	1881	DC X'EL'	
0027F4	0000	1882	EM SETC '0000'(1,4-K'ED)'.ED'	CYLINDER NUMBER
0027F6	0000	1883	DC X'EM'	
0027F8	0901	1884	EN SETC '0000'(1,4-K'EE)'.EE'	HEAD # / LOG SEC
0027FA	2800	1885	DC X'EN'	
0027FC	0006	1886	EO SETC 'EF' EQ '''.O	
0027FE	2F84	1887	EO SETC 'EF'	
002800	A00E	1888	EO ANOP .F	
002802	0000	1889	EO SETC '0000'	
002804	0300	1890	EO ANOP .F	
002806	0000	1891	EO ANOP .F	
002808	0002	1892	DC A(EQ)	CHAIN ADDRESS OF NEXT DCB
00280A	2810	1893	EP SETC '0000'(1,4-K'EG)'.EG'	BYTE COUNT
00280C	0006	1894	DC X'EP'	
00280E	2F6C	1895	EQ SETC 'EH' EQ '''.Q	
002810	A00E	1896	EQ SETC 'EH'	
002812	0000	1897	AGO .H	
002814	0500	1898	EO ANOP .O	
002816	0000	1899	EO SETC '0000'	
002818	0003	1900	EO ANOP .H	
00281A	2820	1901	DC A(EQ)	BUFFER ADDRESS
00281C	0006	1902	DC MEND	
00281E	2F7E	1903	*****	
002820	A00E	1904	* READ SECTOR ID DCB'S	
002822	0000	1905	* DC A(*-*)	
002824	0700	1906	* DC A(*-*)	
002826	0000	1907	*****	
002828	0004	1908	ST00 DCBT A00A 3B00,,00,*+06,6, ID00	
00282A	2830	1909	ST00 DC X'A00A'	CONTROL WORD
00282C	0006	1910	DC X'0000'	DIRECT / # OF TRACKS
00282E	2F78	1911	DC X'3B00'	PHY SEC / FLAG
002830	0000	1912	DC X'0000'	CYLINDER NUMBER
002832	0000	1913	DC X'0000'	HEAD # / LOG SEC
002834	0901	1914	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002836	0000	1915	DC X'0006'	BYTE COUNT
002838	0005	1916	DC A(ID00)	BUFFER ADDRESS
00283A	2840	1917	ST01 DCBT A00E 0100,,01,*+06,6, ID01	
00283C	0006	1918	ST01 DC X'A00E'	CONTROL WORD
00283E	2F6C	1919	DC X'0000'	DIRECT / # OF TRACKS
002840	A00E	1920	DC X'0000'	PHY SEC / FLAG
002842	0000	1921	DC X'0000'	CYLINDER NUMBER
002844	0500	1922	DC X'0001'	HEAD # / LOG SEC
002846	0000	1923	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002848	0003	1924	DC X'0006'	BYTE COUNT
00284A	2820	1925	DC A(ID01)	BUFFER ADDRESS
00284C	0006	1926	ST02 DCBT A00E 0300,,02,*+06,6, ID02	
00284E	2F6C	1927	ST02 DC X'A00E'	CONTROL WORD
002850	A00E	1928	DC X'0000'	DIRECT / # OF TRACKS
002852	0000	1929	DC X'0300'	PHY SEC / FLAG
002854	0500	1930	DC X'0000'	CYLINDER NUMBER
002856	0000	1931	DC X'0002'	HEAD # / LOG SEC
002858	0002	1932	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
00285A	2810	1933	DC X'0006'	BYTE COUNT
00285C	0006	1934	DC A(ID02)	BUFFER ADDRESS
00285E	2F6C	1935	ST03 DCBT A00E 0500,,03,*+06,6, ID03	
002860	A00E	1936	ST03 DC X'A00E'	CONTROL WORD
002862	0000	1937	DC X'0000'	DIRECT / # OF TRACKS
002864	0500	1938	DC X'0500'	PHY SEC / FLAG
002866	0000	1939	DC X'0000'	CYLINDER NUMBER
002868	0002	1940	DC X'0003'	HEAD # / LOG SEC
00286A	2820	1941	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
00286C	0006	1942	DC X'0006'	BYTE COUNT
00286E	2F7E	1943	DC A(ID03)	BUFFER ADDRESS
002870	A00E	1944	ST04 DCBT A00E 0700,,04,*+06,6, ID04	
002872	0000	1945	ST04 DC X'A00E'	CONTROL WORD
002874	0700	1946	DC X'0000'	DIRECT / # OF TRACKS
002876	0000	1947	DC X'0700'	PHY SEC / FLAG
002878	0000	1948	DC X'0000'	CYLINDER NUMBER
00287A	0004	1949	DC X'0004'	HEAD # / LOG SEC
00287C	2830	1950	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
00287E	0006	1951	DC X'0006'	BYTE COUNT
002880	2F78	1952	DC A(ID04)	BUFFER ADDRESS
002882	A00E	1953	ST05 DCBT A00E 0900,,05,*+06,6, ID05	
002884	0000	1954	ST05 DC X'A00E'	CONTROL WORD
002886	0000	1955	DC X'0000'	DIRECT / # OF TRACKS
002888	0900	1956	DC X'0900'	PHY SEC / FLAG
00288A	0000	1957	DC X'0000'	CYLINDER NUMBER
00288C	0005	1958	DC X'0005'	HEAD # / LOG SEC
00288E	2840	1959	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002890	0006	1960	DC X'0006'	BYTE COUNT
002892	2F7E	1961	DC A(ID05)	BUFFER ADDRESS
002894	A00E	1962	ST06 DCBT A00E 0B00,,06,*+06,6, ID06	
002896	0000	1963	ST06 DC X'A00E'	CONTROL WORD

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002842	0000	1964+	DC X'0000'	DIRECT / # OF TRACKS
002844	0800	1965+	DC X'0800'	PHY SEC / FLAG
002846	0000	1966+	DC X'0000'	CYLINDER NUMBER
002848	0006	1967+	DC X'0006'	HEAD # / LOG SEC
00284A	2850	1968+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
00284C	0006	1969+	DC X'0006'	BYTE COUNT
00284E	2F84	1970+	DC A(ID06)	BUFFER ADDRESS
002850	A00E	1971	ST07 DCBT A00E 0D00,,07,*+06,6, ID07	
002852	0000	1972+ST07	DC X'A00E'	CONTROL WORD
002854	0000	1973+	DC X'0000'	DIRECT / # OF TRACKS
002856	0000	1974+	DC X'0D00'	PHY SEC / FLAG
002858	0007	1975+	DC X'0000'	CYLINDER NUMBER
00285A	2860	1976+	DC X'0007'	HEAD # / LOG SEC
00285C	0006	1977+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
00285E	2F8A	1978+	DC X'0006'	BYTE COUNT
002860	A00E	1979+	DC A(ID07)	BUFFER ADDRESS
002862	0000	1980	ST08 DCBT A00E 0F00,,08,*+06,6, ID08	
002864	0000	1981+ST08	DC X'A00E'	CONTROL WORD
002866	0000	1982+	DC X'0000'	DIRECT / # OF TRACKS
002868	0000	1983+	DC X'0F00'	PHY SEC / FLAG
00286A	0008	1984+	DC X'0000'	CYLINDER NUMBER
00286C	2870	1985+	DC X'0008'	HEAD # / LOG SEC
00286E	0006	1986+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002870	A00E	1987+	DC X'0006'	BYTE COUNT
002872	0000	1988+	DC A(ID08)	BUFFER ADDRESS
002874	1100	1989	ST09 DCBT A00E 1100,,09,*+06,6, ID09	
002876	0000	1990+ST09	DC X'A00E'	CONTROL WORD
002878	1100	1991+	DC X'0000'	DIRECT / # OF TRACKS
00287A	0000	1992+	DC X'1100'	PHY SEC / FLAG
00287C	0009	1993+	DC X'0000'	CYLINDER NUMBER
00287E	2880	1994+	DC X'0009'	HEAD # / LOG SEC
002880	0006	1995+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002882	2F96	1996+	DC X'0006'	BYTE COUNT
002884	A00E	1997+	DC A(ID09)	BUFFER ADDRESS
002886	0000	1998	ST0A DCBT A00E 1300,,0A,*+06,6, ID0A	
002888	1300	1999+ST0A	DC X'A00E'	CONTROL WORD
00288A	0000	2000+	DC X'0000'	DIRECT / # OF TRACKS
00288C	1300	2001+	DC X'1300'	PHY SEC / FLAG
00288E	0000	2002+	DC X'0000'	CYLINDER NUMBER
002890	000A	2003+	DC X'000A'	HEAD # / LOG SEC
002892	2890	2004+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002894	0006	2005+	DC X'0006'	BYTE COUNT
002896	2F9C	2006+	DC A(ID0A)	BUFFER ADDRESS
002898	A00E	2007	ST0B DCBT A00E 1500,,0B,*+06,6, ID0B	
00289A	0000	2008+ST0B	DC X'A00E'	CONTROL WORD
00289C	1500	2009+	DC X'0000'	DIRECT / # OF TRACKS
00289E	0000	2010+	DC X'1500'	PHY SEC / FLAG
0028A0	0000	2011+	DC X'0000'	CYLINDER NUMBER
0028A2	0000	2012+	DC X'000B'	HEAD # / LOG SEC
0028A4	1700	2013+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
0028A6	0000	2014+	DC X'0006'	BYTE COUNT
0028A8	000C	2015+	DC A(ID0B)	BUFFER ADDRESS
0028AA	28B0	2016	ST0C DCBT A00E 1700,,0C,*+06,6, ID0C	
0028AC	0006	2017+ST0C	DC X'A00E'	CONTROL WORD
0028AE	2F8A	2018+	DC X'0000'	DIRECT / # OF TRACKS
0028B0	A00E	2019+	DC X'1700'	PHY SEC / FLAG
0028B2	0000	2020+	DC X'0000'	CYLINDER NUMBER
0028B4	1900	2021+	DC X'000C'	HEAD # / LOG SEC
0028B6	0000	2022+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
0028B8	000D	2023+	DC X'0006'	BYTE COUNT
0028BA	28C0	2024+	DC A(ID0C)	BUFFER ADDRESS
0028BC	0006	2025	ST0D DCBT A00E 1900,,0D,*+06,6, ID0D	
0028BE	2FAE	2026+ST0D	DC X'A00E'	CONTROL WORD
0028C0	A00E	2027+	DC X'0000'	DIRECT / # OF TRACKS
0028C2	0000	2028+	DC X'1900'	PHY SEC / FLAG
0028C4	1B00	2029+	DC X'0000'	CYLINDER NUMBER
0028C6	0000	2030+	DC X'000D'	HEAD # / LOG SEC
0028C8	000E	2031+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
0028CA	28D0	2032+	DC X'0006'	BYTE COUNT
0028CC	0006	2033+	DC A(ID0D)	BUFFER ADDRESS
0028CE	2FB4	2034	ST0E DCBT A00E 1B00,,0E,*+06,6, ID0E	
0028D0	A00E	2035+ST0E	DC X'A00E'	CONTROL WORD
0028D2	0000	2036+	DC X'0000'	DIRECT / # OF TRACKS
0028D4	1D00	2037+	DC X'1B00'	PHY SEC / FLAG
0028D6	0000	2038+	DC X'0000'	CYLINDER NUMBER
0028D8	000F	2039+	DC X'000E'	HEAD # / LOG SEC
0028DA	28E0	2040+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
0028DC	0006	2041+	DC X'0006'	BYTE COUNT
0028DE	2FBA	2042+	DC A(ID0E)	BUFFER ADDRESS
0028E0	A00E	2043	ST0F DCBT A00E 1D00,,0F,*+06,6, ID0F	
0028E2	0000	2044+ST0F	DC X'A00E'	CONTROL WORD
0028E4	1F00	2045+	DC X'0000'	DIRECT / # OF TRACKS
0028E6	0000	2046+	DC X'1D00'	PHY SEC / FLAG
0028E8	0010	2047+	DC X'0000'	CYLINDER NUMBER
0028EA	28F0	2048+	DC X'000F'	HEAD # / LOG SEC
0028EC	0006	2049+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
0028EE	2FC0	2050+	DC X'0006'	BYTE COUNT
0028F0	A00E	2051+	DC A(ID0F)	BUFFER ADDRESS
0028F2	0000	2052	ST10 DCBT A00E 1F00,,10,*+06,6, ID10	
0028F4	2100	2053+ST10	DC X'A00E'	CONTROL WORD
0028F6	0000	2054+	DC X'0000'	DIRECT / # OF TRACKS
0028F8	0011	2055+	DC X'1F00'	PHY SEC / FLAG
0028FA	2900	2056+	DC X'0000'	CYLINDER NUMBER
0028FC	0006	2057+	DC X'0000'	HEAD # / LOG SEC
0028FE	2FC6	2058+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002900	A00E	2059+	DC X'0006'	BYTE COUNT
002902	0000	2060+	DC A(ID10)	BUFFER ADDRESS
002904	2300	2061	ST11 DCBT A00E 2100,,11,*+06,6, ID11	
002906	0000	2062+ST11	DC X'A00E'	CONTROL WORD
002908	0012	2063+	DC X'0000'	DIRECT / # OF TRACKS
00290A	2910	2064+	DC X'2100'	PHY SEC / FLAG
00290C	0006	2065+	DC X'0000'	CYLINDER NUMBER
00290E	0012	2066+	DC X'0011'	HEAD # / LOG SEC
002910	2910	2067+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002912	2FC6	2068+	DC X'0006	

Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, COPYRIGHT IBM CORP 1976. Contains assembly code for disk initialization, including control words, direct addresses, and cylinder numbers.

Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, COPYRIGHT IBM CORP 1976. Continuation of assembly code from page 10, including control words, direct addresses, and cylinder numbers.

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002AA2	0000	2306+	DC X'0000'	DIRECT / # OF TRACKS
002AA4	1C00	2307+	DC X'1C00'	PHY SEC / FLAG
002AA6	0000	2308+	DC X'0000'	CYLINDER NUMBER
002AA8	002C	2309+	DC X'002C'	HEAD # / LOG SEC
002AAA	2A80	2310+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002AAC	0006	2311+	DC X'0006'	BYTE COUNT
002AAE	3068	2312+	DC A(ID2C)	BUFFER ADDRESS
002AB0	A00E	2313 ST2D	DCBT A00E, 1E00, ,2D, **06, 6,	ID2D
002AB2	0000	2314+ ST2D	DC X'0000'	CONTROL WORD
002AB4	1E00	2315+	DC X'1E00'	DIRECT / # OF TRACKS
002AB6	0000	2316+	DC X'0000'	PHY SEC / FLAG
002AB8	002D	2317+	DC X'002D'	CYLINDER NUMBER
002ABA	2AC0	2318+	DC A(*+06)	HEAD # / LOG SEC
002ABC	0006	2319+	DC X'0006'	CHAIN ADDRESS OF NEXT DCB
002ABE	306E	2320+	DC A(ID2D)	BYTE COUNT
002AC0	A00E	2321+	DC A(ID2D)	BUFFER ADDRESS
002AC2	0000	2322 ST2E	DCBT A00E, 2000, ,2E, **06, 6,	ID2E
002AC4	2000	2323+ ST2E	DC X'2000'	CONTROL WORD
002AC6	0000	2324+	DC X'0000'	DIRECT / # OF TRACKS
002AC8	002E	2325+	DC X'002E'	PHY SEC / FLAG
002ACA	2AD0	2326+	DC A(*+06)	CYLINDER NUMBER
002ACC	0006	2327+	DC X'0006'	HEAD # / LOG SEC
002ACE	3074	2328+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002AD0	A00E	2329+	DC X'0006'	BYTE COUNT
002AD2	0000	2330+	DC A(ID2E)	BUFFER ADDRESS
002AD4	2200	2331 ST2F	DCBT A00E, 2200, ,2F, **06, 6,	ID2F
002AD6	0000	2332+ ST2F	DC X'0000'	CONTROL WORD
002AD8	002F	2333+	DC X'0000'	DIRECT / # OF TRACKS
002ADA	2A80	2334+	DC X'2200'	PHY SEC / FLAG
002ADE	0006	2335+	DC X'0000'	CYLINDER NUMBER
002AE0	307A	2336+	DC X'002F'	HEAD # / LOG SEC
002AE2	0000	2337+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002AE4	2400	2338+	DC X'0006'	BYTE COUNT
002AE6	0000	2339+	DC A(ID2F)	BUFFER ADDRESS
002AE8	0030	2340 ST30	DCBT A00E, 2400, ,30, **06, 6,	ID30
002AEA	2AF0	2341+ ST30	DC X'A00E'	CONTROL WORD
002AEC	0006	2342+	DC X'0000'	DIRECT / # OF TRACKS
002AEE	3080	2343+	DC X'2400'	PHY SEC / FLAG
002AF0	A00E	2344+	DC X'0000'	CYLINDER NUMBER
002AF2	0000	2345+	DC X'0030'	HEAD # / LOG SEC
002AF4	2600	2346+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002AF6	0000	2347+	DC X'0006'	BYTE COUNT
002AF8	0031	2348+	DC A(ID30)	BUFFER ADDRESS
002AFA	2B00	2349+ ST31	DCBT A00E, 2600, ,31, **06, 6,	ID31
002AFC	0006	2350+ ST31	DC X'A00E'	CONTROL WORD
002AFE	3086	2351+	DC X'0000'	DIRECT / # OF TRACKS
002B00	A00E	2352+	DC X'2600'	PHY SEC / FLAG
002B02	0000	2353+	DC X'0000'	CYLINDER NUMBER
002B04	2800	2354+	DC X'0031'	HEAD # / LOG SEC
002B06	0000	2355+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B08	0032	2356+	DC X'0006'	BYTE COUNT
002B0A	2B10	2357+	DC A(ID31)	BUFFER ADDRESS
002B0C	0006	2358+ ST32	DCBT A00E, 2800, ,32, **06, 6,	ID32
002B0E	308C	2359+ ST32	DC X'A00E'	CONTROL WORD
002B10	A00E	2360+	DC X'0000'	DIRECT / # OF TRACKS
002B12	0000	2361+	DC X'0000'	PHY SEC / FLAG
002B14	2A00	2362+	DC X'2800'	CYLINDER NUMBER
002B16	0000	2363+	DC X'0000'	HEAD # / LOG SEC
002B18	0033	2364+	DC X'0032'	CHAIN ADDRESS OF NEXT DCB
002B1A	2B20	2365+	DC A(*+06)	BYTE COUNT
002B1C	0006	2366+	DC A(ID32)	BUFFER ADDRESS
002B1E	3092	2367+ ST33	DCBT A00E, 2A00, ,33, **06, 6,	ID33
002B20	A00E	2368+ ST33	DC X'A00E'	CONTROL WORD
002B22	0000	2369+	DC X'0000'	DIRECT / # OF TRACKS
002B24	2C00	2370+	DC X'2A00'	PHY SEC / FLAG
002B26	0000	2371+	DC X'0000'	CYLINDER NUMBER
002B28	0034	2372+	DC X'0033'	HEAD # / LOG SEC
002B2A	2B30	2373+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B2C	0006	2374+	DC X'0006'	BYTE COUNT
002B2E	3098	2375+	DC A(ID33)	BUFFER ADDRESS
002B30	A00E	2376 ST34	DCBT A00E, 2C00, ,34, **06, 6,	ID34
002B32	0000	2377+ ST34	DC X'A00E'	CONTROL WORD
002B34	2E00	2378+	DC X'0000'	DIRECT / # OF TRACKS
002B36	0000	2379+	DC X'0000'	PHY SEC / FLAG
002B38	0035	2380+	DC X'2C00'	CYLINDER NUMBER
002B3A	2B40	2381+	DC X'0000'	HEAD # / LOG SEC
002B3C	0006	2382+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B3E	309E	2383+	DC X'0006'	BYTE COUNT
002B40	A00E	2384+	DC A(ID34)	BUFFER ADDRESS
002B42	0000	2385+ ST35	DCBT A00E, 2E00, ,35, **06, 6,	ID35
002B44	0000	2386+ ST35	DC X'A00E'	CONTROL WORD
002B46	0000	2387+	DC X'0000'	DIRECT / # OF TRACKS
002B48	0036	2388+	DC X'2E00'	PHY SEC / FLAG
002B4A	2B50	2389+	DC X'0000'	CYLINDER NUMBER
002B4C	0006	2390+	DC X'0035'	HEAD # / LOG SEC
002B4E	30A4	2391+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B50	A00E	2392+	DC X'0006'	BYTE COUNT
002B52	0000	2393+	DC A(ID35)	BUFFER ADDRESS
002B54	3200	2394 ST36	DCBT A00E, 3000, ,36, **06, 6,	ID36
002B56	0000	2395+ ST36	DC X'A00E'	CONTROL WORD
002B58	0037	2396+	DC X'0000'	DIRECT / # OF TRACKS
002B5A	2B60	2397+	DC X'3000'	PHY SEC / FLAG
002B5C	0006	2398+	DC X'0000'	CYLINDER NUMBER
002B5E	30AA	2399+	DC X'0036'	HEAD # / LOG SEC
002B60	A00E	2400+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B62	0000	2401+	DC X'0006'	BYTE COUNT
002B64	3400	2402+	DC A(ID36)	BUFFER ADDRESS
002B66	0000	2403 ST37	DCBT A00E, 3200, ,37, **06, 6,	ID37
002B68	0038	2404+ ST37	DC X'A00E'	CONTROL WORD
002B6A	2B70	2405+	DC X'0000'	DIRECT / # OF TRACKS
002B6C	0006	2406+	DC X'3200'	PHY SEC / FLAG
002B6E	0000	2407+	DC X'0000'	CYLINDER NUMBER
002B70	0006	2408+	DC X'0037'	HEAD # / LOG SEC
002B72	0000	2409+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B74	0006	2410+	DC X'0006'	BYTE COUNT
002B76	0000	2411+	DC A(ID37)	BUFFER ADDRESS
002B78	0038	2412 ST38	DCBT A00E, 3400, ,38, **06, 6,	ID38
002B7A	0000	2413+ ST38	DC X'A00E'	CONTROL WORD
002B7C	0000	2414+	DC X'0000'	DIRECT / # OF TRACKS
002B7E	0000	2415+	DC X'3400'	PHY SEC / FLAG
002B80	0038	2416+	DC X'0000'	CYLINDER NUMBER
002B82	0006	2417+	DC X'0038'	HEAD # / LOG SEC
002B84	2B70	2418+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B86	0006	2419+	DC X'0006'	BYTE COUNT

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002B6E	30B0	2420+	DC A(ID38)	BUFFER ADDRESS
002B70	A00E	2421 ST39	DCBT A00E, 3600, ,39, **06, 6,	ID39
002B72	0000	2422+ ST39	DC X'A00E'	CONTROL WORD
002B74	3600	2423+	DC X'0000'	DIRECT / # OF TRACKS
002B76	0000	2424+	DC X'3600'	PHY SEC / FLAG
002B78	0039	2425+	DC X'0000'	CYLINDER NUMBER
002B7A	2B80	2426+	DC X'0039'	HEAD # / LOG SEC
002B7C	0006	2427+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B7E	30B6	2428+	DC X'0006'	BYTE COUNT
002B80	A00E	2429+	DC A(ID39)	BUFFER ADDRESS
002B82	0000	2430 ST3A	DCBT A00E, 3800, ,3A, **06, 6,	ID3A
002B84	3800	2431+ ST3A	DC X'A00E'	CONTROL WORD
002B86	0000	2432+	DC X'0000'	DIRECT / # OF TRACKS
002B88	003A	2433+	DC X'3800'	PHY SEC / FLAG
002B8A	2B90	2434+	DC X'0000'	CYLINDER NUMBER
002B8C	0006	2435+	DC X'003A'	HEAD # / LOG SEC
002B8E	30BC	2436+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002B90	200E	2437+	DC X'0006'	BYTE COUNT
002B92	0000	2438+	DC A(ID3A)	BUFFER ADDRESS
002B94	3A00	2439 ST3B	DCBT A00E, 3A00, ,3B, **06, 6,	ID3B
002B96	0000	2440+ ST3B	DC X'0000'	CONTROL WORD
002B98	003B	2441+	DC X'0000'	DIRECT / # OF TRACKS
002B9A	2BA0	2442+	DC X'3A00'	PHY SEC / FLAG
002B9C	0006	2443+	DC X'0000'	CYLINDER NUMBER
002B9E	30C2	2444+	DC X'003B'	HEAD # / LOG SEC
002BA0	8002	2445+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002BA2	0000	2446+	DC X'0006'	BYTE COUNT
002BA4	3B00	2447+	DC A(ID3B)	BUFFER ADDRESS
002BA6	0000	2448 *		
002BA8	0000	2449 *		
002BAA	2B80	2450 *		
002BAC	0006	2451 *		
002BAE	2F60	2452 WRT00	DCBT 8002, 3B00, ,00, **06, 6,	ID00
002BB0	8006	2453+ WRT00	DC X'8002'	CONTROL WORD
002BB2	0000	2454+	DC X'0000'	DIRECT / # OF TRACKS
002BB4	0100	2455+	DC X'3B00'	PHY SEC / FLAG
002BB6	0000	2456+	DC X'0000'	CYLINDER NUMBER
002BB8	0001	2457+	DC X'0000'	HEAD # / LOG SEC
002BBA	2BC0	2458+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002BBC	0006	2459+	DC X'0006'	BYTE COUNT
002BBE	2F66	2460+	DC A(ID00)	BUFFER ADDRESS
002BC0	8006	2461 WRT01	DCBT 8006, 0100, ,01, **06, 6,	ID01
002BC2	0000	2462+ WRT01	DC X'8006'	CONTROL WORD
002BC4	0100	2463+	DC X'0000'	DIRECT / # OF TRACKS
002BC6	0000	2464+	DC X'0100'	PHY SEC / FLAG
002BC8	0001	2465+	DC X'0000'	CYLINDER NUMBER
002BCA	2BC0	2466+	DC X'0001'	HEAD # / LOG SEC
002CBC	0006	2467+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002BCE	2F6C	2468+	DC X'0006'	BYTE COUNT
002BD0	8006	2469+	DC A(ID01)	BUFFER ADDRESS
002BD2	0000	2470 WRT02	DCBT 8006, 0300, ,02, **06, 6,	ID02
002BD4	0500	2471+ WRT02	DC X'8006'	CONTROL WORD
002BD6	0000	2472+	DC X'0000'	DIRECT / # OF TRACKS
002BD8	0003	2473+	DC X'0300'	PHY SEC / FLAG
002BDA	2B80	2474+	DC X'0000'	CYLINDER NUMBER
002BDC	0006	2475+	DC X'0002'	HEAD # / LOG SEC
002BDE	2F72	2476+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002BE0	8006	2477+	DC X'0006'	BYTE COUNT
002BE2	0000	2478+	DC A(ID02)	BUFFER ADDRESS
002BE4	0700	2479 WRT03	DCBT 8006, 0500, ,03, **06, 6,	ID03
002BE6	0000	2480+ WRT03	DC X'8006'	CONTROL WORD
002BE8	0004	2481+	DC X'0000'	DIRECT / # OF TRACKS
002BEA	2BF0	2482+	DC X'0500'	PHY SEC / FLAG
002BEC	0006	2483+	DC X'0000'	CYLINDER NUMBER
002BED	2F78	2484+	DC X'0003'	HEAD # / LOG SEC
002BF0	8006	2485+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002BF2	0000	2486+	DC X'0006'	BYTE COUNT
002BF4	0900	2487+	DC A(ID03)	BUFFER ADDRESS
002BF6	0000	2488 WRT04	DCBT 8006, 0700, ,04, **06, 6,	ID04
002BF8	0005	2489+ WRT04	DC X'8006'	CONTROL WORD
002BFA	2C00	2490+	DC X'0000'	DIRECT / # OF TRACKS
002BFC	0006	2491+	DC X'0700'	PHY SEC / FLAG
002BFE	2F7E	2492+	DC X'0000'	CYLINDER NUMBER
002C00	8006	2493+	DC X'0004'	HEAD # / LOG SEC
002C02	0000	2494+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002C04	0B00	2495+	DC X'0006'	BYTE COUNT
002C06	0006	2496+	DC A(ID04)	BUFFER ADDRESS
002C08	2000	2497 WRT05	DCBT 8006, 0900, ,05, **06, 6,	ID05
002C0A	0000	2498+ WRT05	DC X'8006'	CONTROL WORD
002C0C	0006	2499+	DC X'0000'	DIRECT / # OF TRACKS
002C0E	0006	2500+	DC X'0900'	PHY SEC / FLAG
002C10	2C10	2501+	DC X'0000'	CYLINDER NUMBER
002C12	2FA8	2502+	DC X'0005'	HEAD # / LOG SEC
002C14	0006	2503+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002C16	0000	2504+	DC X'0006'	BYTE COUNT
002C18	0007	2505+	DC A(ID05)	BUFFER ADDRESS
002C1A	2C20	2506 WRT06	DCBT 8006, 0B00, ,06, **06, 6,	ID06
002C1C	0006	2507+ WRT06	DC X'8006'	CONTROL WORD
002C1E	2FA8	2508+	DC X'0000'	DIRECT / # OF TRACKS
002C20	8006	2509+	DC X'0B00'	PHY SEC / FLAG
002C22	0000	2510+	DC X'0000'	CYLINDER NUMBER
002C24	0F00	2511+	DC X'0006'	HEAD # / LOG SEC
002C26	0000	2512+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002C28	0008	2513+	DC X'0006'	BYTE COUNT
002C2A	2C30	2514+	DC A(ID06)	BUFFER ADDRESS
002C2C	0006	2515 WRT07	DCBT 8006, 0D00, ,07, **06, 6,	ID07
002C2E	2F90	2516+ WRT07	DC X'8006'	CONTROL WORD
002C30	0000	2517+	DC X'0000'	DIRECT / # OF TRACKS
002C32	0000	2518+	DC X'0D00'	PHY SEC / FLAG
002C34	0000	2519+		

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002C30	8006	2534+WRT09	DC X'8006'	CONTROL WORD
002C31	0000	2535+	DC X'0000'	DIRECT / # OF TRACKS
002C32	1100	2536+	DC X'1100'	PHY SEC / FLAG
002C33	0000	2537+	DC X'0000'	CYLINDER NUMBER
002C34	0009	2538+	DC X'0009'	HEAD # / LOG SEC
002C35	2C40	2539+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002C36	0006	2540+	DC X'0006'	BYTE COUNT
002C37	2F96	2541+	DC A(ID09)	BUFFER ADDRESS
002C40	8006	2542+WRT0A	DCBT 8006,,1300,,0A,**+06,6, ID0A	CONTROL WORD
002C41	0000	2543+WRT0A	DC X'8006'	DIRECT / # OF TRACKS
002C42	1300	2544+	DC X'0000'	PHY SEC / FLAG
002C43	0000	2545+	DC X'1300'	CYLINDER NUMBER
002C44	000A	2546+	DC X'0000'	HEAD # / LOG SEC
002C45	2C50	2547+	DC X'000A'	CHAIN ADDRESS OF NEXT DCB
002C46	0006	2548+	DC A(*+06)	BYTE COUNT
002C47	2F9C	2549+	DC X'0006'	BUFFER ADDRESS
002C50	8006	2550+WRT0B	DCBT 8006,,1500,,0B,**+06,6, ID0B	CONTROL WORD
002C51	0000	2551+WRT0B	DC X'8006'	DIRECT / # OF TRACKS
002C52	1500	2552+	DC X'0000'	PHY SEC / FLAG
002C53	0000	2553+	DC X'1500'	CYLINDER NUMBER
002C54	000B	2554+	DC X'0000'	HEAD # / LOG SEC
002C55	2C60	2555+	DC X'000B'	CHAIN ADDRESS OF NEXT DCB
002C56	0006	2556+	DC A(*+06)	BYTE COUNT
002C57	2FA2	2557+	DC X'0006'	BUFFER ADDRESS
002C60	8006	2558+WRT0C	DCBT 8006,,1700,,0C,**+06,6, ID0C	CONTROL WORD
002C61	0000	2559+WRT0C	DC X'8006'	DIRECT / # OF TRACKS
002C62	1700	2560+	DC X'0000'	PHY SEC / FLAG
002C63	0000	2561+	DC X'1700'	CYLINDER NUMBER
002C64	000C	2562+	DC X'0000'	HEAD # / LOG SEC
002C65	2C70	2563+	DC X'000C'	CHAIN ADDRESS OF NEXT DCB
002C66	0006	2564+	DC A(*+06)	BYTE COUNT
002C67	2FAB	2565+	DC X'0006'	BUFFER ADDRESS
002C70	8006	2566+WRT0D	DCBT 8006,,1900,,0D,**+06,6, ID0D	CONTROL WORD
002C71	0000	2567+WRT0D	DC X'8006'	DIRECT / # OF TRACKS
002C72	1900	2568+	DC X'0000'	PHY SEC / FLAG
002C73	0000	2569+	DC X'1900'	CYLINDER NUMBER
002C74	0000	2570+	DC X'0000'	HEAD # / LOG SEC
002C75	2C80	2571+	DC X'0000'	CHAIN ADDRESS OF NEXT DCB
002C76	0006	2572+	DC A(*+06)	BYTE COUNT
002C77	2FAE	2573+	DC X'0006'	BUFFER ADDRESS
002C80	8006	2574+WRT0E	DCBT 8006,,1B00,,0E,**+06,6, ID0E	CONTROL WORD
002C81	0000	2575+WRT0E	DC X'8006'	DIRECT / # OF TRACKS
002C82	1B00	2576+	DC X'0000'	PHY SEC / FLAG
002C83	0000	2577+	DC X'1B00'	CYLINDER NUMBER
002C84	000E	2578+	DC X'0000'	HEAD # / LOG SEC
002C85	2C90	2579+	DC X'000E'	CHAIN ADDRESS OF NEXT DCB
002C86	0006	2580+	DC A(*+06)	BYTE COUNT
002C87	2FB4	2581+	DC X'0006'	BUFFER ADDRESS
002C90	8006	2582+WRT0F	DCBT 8006,,1D00,,0F,**+06,6, ID0F	CONTROL WORD
002C91	0000	2583+WRT0F	DC X'8006'	DIRECT / # OF TRACKS
002C92	1D00	2584+	DC X'0000'	PHY SEC / FLAG
002C93	0000	2585+	DC X'1D00'	CYLINDER NUMBER
002C94	000F	2586+	DC X'0000'	HEAD # / LOG SEC
002C95	2CA0	2587+	DC X'000F'	CHAIN ADDRESS OF NEXT DCB
002C96	0006	2588+	DC A(*+06)	BYTE COUNT
002C97	2FBA	2589+	DC X'0006'	BUFFER ADDRESS
002CA0	8006	2590+WRT10	DCBT 8006,,1F00,,10,**+06,6, ID10	CONTROL WORD
002CA1	0000	2591+WRT10	DC X'8006'	DIRECT / # OF TRACKS
002CA2	1F00	2592+	DC X'0000'	PHY SEC / FLAG
002CA3	0000	2593+	DC X'1F00'	CYLINDER NUMBER
002CA4	0010	2594+	DC X'0000'	HEAD # / LOG SEC
002CA5	2CB0	2595+	DC X'0010'	CHAIN ADDRESS OF NEXT DCB
002CA6	0006	2596+	DC A(*+06)	BYTE COUNT
002CA7	2FC0	2597+	DC X'0006'	BUFFER ADDRESS
002CB0	8006	2598+WRT11	DCBT 8006,,2100,,11,**+06,6, ID11	CONTROL WORD
002CB1	0000	2599+WRT11	DC X'8006'	DIRECT / # OF TRACKS
002CB2	2100	2600+	DC X'0000'	PHY SEC / FLAG
002CB3	0000	2601+	DC X'2100'	CYLINDER NUMBER
002CB4	0011	2602+	DC X'0000'	HEAD # / LOG SEC
002CB5	2CC0	2603+	DC X'0011'	CHAIN ADDRESS OF NEXT DCB
002CB6	0006	2604+	DC A(*+06)	BYTE COUNT
002CB7	2FC6	2605+	DC X'0006'	BUFFER ADDRESS
002CC0	8006	2606+WRT12	DCBT 8006,,2300,,12,**+06,6, ID12	CONTROL WORD
002CC1	0000	2607+WRT12	DC X'8006'	DIRECT / # OF TRACKS
002CC2	2300	2608+	DC X'0000'	PHY SEC / FLAG
002CC3	0000	2609+	DC X'2300'	CYLINDER NUMBER
002CC4	0012	2610+	DC X'0000'	HEAD # / LOG SEC
002CC5	2CD0	2611+	DC X'0012'	CHAIN ADDRESS OF NEXT DCB
002CC6	0006	2612+	DC A(*+06)	BYTE COUNT
002CC7	2FCC	2613+	DC X'0006'	BUFFER ADDRESS
002CD0	8006	2614+WRT13	DCBT 8006,,2500,,13,**+06,6, ID13	CONTROL WORD
002CD1	0000	2615+WRT13	DC X'8006'	DIRECT / # OF TRACKS
002CD2	2500	2616+	DC X'0000'	PHY SEC / FLAG
002CD3	0000	2617+	DC X'2500'	CYLINDER NUMBER
002CD4	0013	2618+	DC X'0000'	HEAD # / LOG SEC
002CD5	2CE0	2619+	DC X'0013'	CHAIN ADDRESS OF NEXT DCB
002CD6	0006	2620+	DC A(*+06)	BYTE COUNT
002CD7	2FD2	2621+	DC X'0006'	BUFFER ADDRESS
002CE0	8006	2622+WRT14	DCBT 8006,,2700,,14,**+06,6, ID14	CONTROL WORD
002CE1	0000	2623+WRT14	DC X'8006'	DIRECT / # OF TRACKS
002CE2	2700	2624+	DC X'0000'	PHY SEC / FLAG
002CE3	0000	2625+	DC X'2700'	CYLINDER NUMBER
002CE4	0014	2626+	DC X'0000'	HEAD # / LOG SEC
002CE5	2CF0	2627+	DC X'0014'	CHAIN ADDRESS OF NEXT DCB
002CE6	0006	2628+	DC A(*+06)	BYTE COUNT
002CE7	2FD8	2629+	DC X'0006'	BUFFER ADDRESS
002CF0	8006	2630+WRT15	DCBT 8006,,2900,,15,**+06,6, ID15	CONTROL WORD
002CF1	0000	2631+WRT15	DC X'8006'	DIRECT / # OF TRACKS
002CF2	2900	2632+	DC X'0000'	PHY SEC / FLAG
002CF3	0000	2633+	DC X'2900'	CYLINDER NUMBER
002CF4	0015	2634+	DC X'0000'	HEAD # / LOG SEC
002CF5	0015	2635+	DC X'0015'	CHAIN ADDRESS OF NEXT DCB
002CF6	2D00	2636+	DC A(*+06)	BYTE COUNT
002CF7		2637+	DC X'0015'	BUFFER ADDRESS

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002CFC	0006	2648+	DC X'0006'	BYTE COUNT
002CFE	2FDE	2649+	DC A(ID15)	BUFFER ADDRESS
002D00	8006	2650+WRT16	DCBT 8006,,2B00,,16,**+06,6, ID16	CONTROL WORD
002D01	0000	2651+WRT16	DC X'8006'	DIRECT / # OF TRACKS
002D02	2B00	2652+	DC X'0000'	PHY SEC / FLAG
002D03	0000	2653+	DC X'2B00'	CYLINDER NUMBER
002D04	0016	2654+	DC X'0000'	HEAD # / LOG SEC
002D05	2016	2655+	DC X'0016'	CHAIN ADDRESS OF NEXT DCB
002D06	0006	2656+	DC A(*+06)	BYTE COUNT
002D07	2FE4	2657+	DC X'0006'	BUFFER ADDRESS
002D10	8006	2658+WRT17	DCBT 8006,,2D00,,17,**+06,6, ID17	CONTROL WORD
002D11	0000	2659+WRT17	DC X'8006'	DIRECT / # OF TRACKS
002D12	2D00	2660+	DC X'0000'	PHY SEC / FLAG
002D13	0000	2661+	DC X'2D00'	CYLINDER NUMBER
002D14	0017	2662+	DC X'0000'	HEAD # / LOG SEC
002D15	2D20	2663+	DC X'0017'	CHAIN ADDRESS OF NEXT DCB
002D16	0006	2664+	DC A(*+06)	BYTE COUNT
002D17	2FEA	2665+	DC X'0006'	BUFFER ADDRESS
002D18	8006	2666+WRT18	DCBT 8006,,2F00,,18,**+06,6, ID18	CONTROL WORD
002D19	0000	2667+WRT18	DC X'8006'	DIRECT / # OF TRACKS
002D20	2F00	2668+	DC X'0000'	PHY SEC / FLAG
002D21	0000	2669+	DC X'2F00'	CYLINDER NUMBER
002D22	0018	2670+	DC X'0000'	HEAD # / LOG SEC
002D23	2D30	2671+	DC X'0018'	CHAIN ADDRESS OF NEXT DCB
002D24	0006	2672+	DC A(*+06)	BYTE COUNT
002D25	2FF0	2673+	DC X'0006'	BUFFER ADDRESS
002D26	8006	2674+WRT19	DCBT 8006,,3100,,19,**+06,6, ID19	CONTROL WORD
002D27	0000	2675+WRT19	DC X'8006'	DIRECT / # OF TRACKS
002D28	3100	2676+	DC X'0000'	PHY SEC / FLAG
002D29	0000	2677+	DC X'3100'	CYLINDER NUMBER
002D30	0019	2678+	DC X'0000'	HEAD # / LOG SEC
002D31	2D40	2679+	DC X'0019'	CHAIN ADDRESS OF NEXT DCB
002D32	0006	2680+	DC A(*+06)	BYTE COUNT
002D33	2FF6	2681+	DC X'0006'	BUFFER ADDRESS
002D34	8006	2682+WRT1A	DCBT 8006,,3300,,1A,**+06,6, ID1A	CONTROL WORD
002D35	0000	2683+WRT1A	DC X'8006'	DIRECT / # OF TRACKS
002D36	3300	2684+	DC X'0000'	PHY SEC / FLAG
002D37	0000	2685+	DC X'3300'	CYLINDER NUMBER
002D38	001A	2686+	DC X'0000'	HEAD # / LOG SEC
002D39	2D50	2687+	DC X'001A'	CHAIN ADDRESS OF NEXT DCB
002D40	0006	2688+	DC A(*+06)	BYTE COUNT
002D41	2FFC	2689+	DC X'0006'	BUFFER ADDRESS
002D42	8006	2690+WRT1B	DCBT 8006,,3500,,1B,**+06,6, ID1B	CONTROL WORD
002D43	0000	2691+WRT1B	DC X'8006'	DIRECT / # OF TRACKS
002D44	3500	2692+	DC X'0000'	PHY SEC / FLAG
002D45	0000	2693+	DC X'3500'	CYLINDER NUMBER
002D46	001B	2694+	DC X'0000'	HEAD # / LOG SEC
002D47	2D60	2695+	DC X'001B'	CHAIN ADDRESS OF NEXT DCB
002D48	0006	2696+	DC A(*+06)	BYTE COUNT
002D49	3002	2697+	DC X'0006'	BUFFER ADDRESS
002D50	8006	2700+WRT1C	DCBT 8006,,3700,,1C,**+06,6, ID1C	CONTROL WORD
002D51	0000	2701+WRT1C	DC X'8006'	DIRECT / # OF TRACKS
002D52	3700	2702+	DC X'0000'	PHY SEC / FLAG
002D53	0000	2703+	DC X'3700'	CYLINDER NUMBER
002D54	001C	2704+	DC X'0000'	HEAD # / LOG SEC
002D55	2D70	2705+	DC X'001C'	CHAIN ADDRESS OF NEXT DCB
002D56	0006	2706+	DC A(*+06)	BYTE COUNT
002D57	3008	2707+	DC X'0006'	BUFFER ADDRESS
002D70	8006	2710+WRT1D	DCBT 8006,,3900,,1D,**+06,6, ID1D	CONTROL WORD
002D71	0000	2711+WRT1D	DC X'8006'	DIRECT / # OF TRACKS
002D72	3900	2712+	DC X'0000'	PHY SEC / FLAG
002D73	0000	2713+	DC X'3900'	CYLINDER NUMBER
002D74	001D	2714+	DC X'0000'	HEAD # / LOG SEC
002D75	2D80	2715+	DC X'001D'	CHAIN ADDRESS OF NEXT DCB
002D76	0006	2716+	DC A(*+06)	BYTE COUNT
002D77	300E	2717+	DC X'0006'	BUFFER ADDRESS
002D80	8002	2720+WRT1E	DCBT 8002,,0000,,1E,**+06,6, ID1E	CONTROL WORD
002D81	0000	2721+WRT1E	DC X'8002'	DIRECT / # OF TRACKS
002D82	0000	2722+	DC X'0000'	PHY SEC / FLAG
002D83	0000	2723+	DC X'0000'	CYLINDER NUMBER
002D84	001E	2724+	DC X'001E'	HEAD # / LOG SEC
002D85	2D90	2725+	DC X'001E'	CHAIN ADDRESS OF NEXT DCB
002D86	0006	2726+	DC A(*+06)	BYTE COUNT
002D87	3014	2727+	DC X'0006'	BUFFER ADDRESS
002D90	8006	2730+WRT1F	DCBT 8006,,0200,,1F,**+06,6, ID1F	CONTROL WORD
002D91	0000	2731+WRT1F	DC X'8006'	DIRECT / # OF TRACKS
002D92	0200	2732+	DC X'0000'	PHY SEC / FLAG
002D93	0000	2733+	DC X'0200'	CYLINDER NUMBER
002D94	001F	2734+	DC X'0000'	HEAD # / LOG SEC
002D95	2DA0	2735+	DC X'001F'	CHAIN ADDRESS OF NEXT DCB
002D96	0006	2736+	DC A(*+06)	BYTE COUNT
002D97	301A	2737+	DC X'0006'	

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002DC6	0000	2762+	DC X'0000'	CYLINDER NUMBER
002DC8	0022	2763+	DC X'0022'	HEAD # / LOG SEC
002DCA	2DD0	2764+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002DCC	0006	2765+	DC X'0006'	BYTE COUNT
002DCE	302C	2766+	DC A(ID22)	BUFFER ADDRESS
002DD0	8006	2767 WRT23	DCBT 8006, 0A00,,23,*+06,6,	CONTROL WORD
002DD2	0000	2768+ WRT23	DC X'8006'	DIRECT / # OF TRACKS
002DD4	0A00	2769+	DC X'0A00'	PHY SEC / FLAG
002DD6	0000	2770+	DC X'0000'	CYLINDER NUMBER
002DD8	0023	2771+	DC X'0023'	HEAD # / LOG SEC
002DDA	2DE0	2772+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002DDC	0006	2773+	DC X'0006'	BYTE COUNT
002DDE	3032	2774+	DC A(ID23)	BUFFER ADDRESS
002DE0	8006	2775+ WRT24	DCBT 8006, 0C00,,24,*+06,6,	CONTROL WORD
002DE2	0000	2776+ WRT24	DC X'8006'	DIRECT / # OF TRACKS
002DE4	0C00	2777+	DC X'0C00'	PHY SEC / FLAG
002DE6	0000	2778+	DC X'0000'	CYLINDER NUMBER
002DE8	0024	2779+	DC X'0024'	HEAD # / LOG SEC
002DEA	2DF0	2780+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002DEC	0006	2781+	DC X'0006'	BYTE COUNT
002DEE	3038	2782+	DC A(ID24)	BUFFER ADDRESS
002DF0	8006	2783+ WRT25	DCBT 8006, 0E00,,25,*+06,6,	CONTROL WORD
002DF2	0000	2784+ WRT25	DC X'8006'	DIRECT / # OF TRACKS
002DF4	0800	2785+	DC X'0800'	PHY SEC / FLAG
002DF6	0000	2786+	DC X'0000'	CYLINDER NUMBER
002DF8	0025	2787+	DC X'0025'	HEAD # / LOG SEC
002DFA	2E00	2788+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002DFC	0006	2789+	DC X'0006'	BYTE COUNT
002DFE	303E	2790+	DC A(ID25)	BUFFER ADDRESS
002E00	8006	2791+ WRT26	DCBT 8006, 1000,,26,*+06,6,	CONTROL WORD
002E02	0000	2792+ WRT26	DC X'8006'	DIRECT / # OF TRACKS
002E04	1000	2793+	DC X'1000'	PHY SEC / FLAG
002E06	0000	2794+	DC X'0000'	CYLINDER NUMBER
002E08	0026	2795+	DC X'0026'	HEAD # / LOG SEC
002E0A	2E10	2796+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E0C	0006	2797+	DC X'0006'	BYTE COUNT
002E0E	3044	2798+ WRT27	DCBT 8006, 1200,,27,*+06,6,	CONTROL WORD
002E10	8006	2799+ WRT27	DC X'8006'	DIRECT / # OF TRACKS
002E12	0000	2800+	DC X'0000'	PHY SEC / FLAG
002E14	1200	2801+	DC X'1200'	CYLINDER NUMBER
002E16	0000	2802+	DC X'0000'	HEAD # / LOG SEC
002E18	0027	2803+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E1A	2E20	2804+	DC X'0027'	BYTE COUNT
002E1C	0006	2805+	DC A(ID27)	BUFFER ADDRESS
002E1E	304A	2806+ WRT28	DCBT 8006, 1400,,28,*+06,6,	CONTROL WORD
002E20	8006	2807+ WRT28	DC X'8006'	DIRECT / # OF TRACKS
002E22	0000	2808+	DC X'0000'	PHY SEC / FLAG
002E24	1400	2809+	DC X'1400'	CYLINDER NUMBER
002E26	0000	2810+	DC X'0000'	HEAD # / LOG SEC
002E28	0028	2811+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E2A	2E30	2812+	DC X'0028'	BYTE COUNT
002E2C	0006	2813+ WRT29	DCBT 8006, 1600,,29,*+06,6,	CONTROL WORD
002E2E	3050	2814+ WRT29	DC X'8006'	DIRECT / # OF TRACKS
002E30	8006	2815+	DC X'0000'	PHY SEC / FLAG
002E32	0000	2816+	DC X'0000'	CYLINDER NUMBER
002E34	1600	2817+	DC X'1600'	HEAD # / LOG SEC
002E36	0000	2818+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E38	0029	2819+	DC X'0029'	BYTE COUNT
002E3A	2E40	2820+ WRT29	DCBT 8006, 1800,,2A,*+06,6,	CONTROL WORD
002E3C	0006	2821+ WRT29	DC X'8006'	DIRECT / # OF TRACKS
002E3E	3056	2822+	DC X'0000'	PHY SEC / FLAG
002E40	8006	2823+	DC X'0000'	CYLINDER NUMBER
002E42	0000	2824+	DC X'0000'	HEAD # / LOG SEC
002E44	1800	2825+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E46	0000	2826+	DC X'0000'	BYTE COUNT
002E48	002A	2827+ WRT2A	DCBT 8006, 2000,,2E,*+06,6,	CONTROL WORD
002E4A	2E50	2828+ WRT2A	DC X'8006'	DIRECT / # OF TRACKS
002E4C	0006	2829+	DC X'0000'	PHY SEC / FLAG
002E4E	305C	2830+	DC X'0000'	CYLINDER NUMBER
002E50	8006	2831+	DC X'002A'	HEAD # / LOG SEC
002E52	0000	2832+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E54	1A00	2833+	DC X'002A'	BYTE COUNT
002E56	0000	2834+	DC A(ID29)	BUFFER ADDRESS
002E58	002B	2835+ WRT2B	DCBT 8006, 1A00,,2B,*+06,6,	CONTROL WORD
002E5A	2E60	2836+ WRT2B	DC X'8006'	DIRECT / # OF TRACKS
002E5C	0006	2837+	DC X'0000'	PHY SEC / FLAG
002E5E	3062	2838+	DC X'0000'	CYLINDER NUMBER
002E60	8006	2839+	DC X'002B'	HEAD # / LOG SEC
002E62	0000	2840+ WRT2B	DCBT 8006, 1C00,,2C,*+06,6,	CONTROL WORD
002E64	1C00	2841+ WRT2C	DC X'8006'	DIRECT / # OF TRACKS
002E66	0000	2842+	DC X'0000'	PHY SEC / FLAG
002E68	002C	2843+	DC X'1A00'	CYLINDER NUMBER
002E6A	2E70	2844+	DC X'0000'	HEAD # / LOG SEC
002E6C	0006	2845+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E6E	3068	2846+	DC X'002C'	BYTE COUNT
002E70	8006	2847+ WRT2C	DCBT 8006, 1E00,,2D,*+06,6,	CONTROL WORD
002E72	0000	2848+ WRT2C	DC X'8006'	DIRECT / # OF TRACKS
002E74	1E00	2849+	DC X'0000'	PHY SEC / FLAG
002E76	0000	2850+	DC X'0000'	CYLINDER NUMBER
002E78	002D	2851+	DC X'002D'	HEAD # / LOG SEC
002E7A	2E80	2852+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E7C	0006	2853+	DC X'002D'	BYTE COUNT
002E7E	306E	2854+ WRT2D	DCBT 8006, 2000,,2E,*+06,6,	CONTROL WORD
002E80	8006	2855+ WRT2D	DC X'8006'	DIRECT / # OF TRACKS
002E82	0000	2856+	DC X'0000'	PHY SEC / FLAG
002E84	2000	2857+	DC X'2000'	CYLINDER NUMBER
002E86	0000	2858+	DC X'0000'	HEAD # / LOG SEC
002E88	002E	2859+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E8A	2E90	2860+	DC X'002E'	BYTE COUNT
002E8C	0006	2861+	DC A(ID2E)	BUFFER ADDRESS
002E8E	3074	2862+ WRT2E	DCBT 8006, 2200,,2F,*+06,6,	CONTROL WORD
002E90	8006	2863+ WRT2E	DC X'8006'	DIRECT / # OF TRACKS
002E92	0000	2864+	DC X'0000'	PHY SEC / FLAG
002E94	2000	2865+	DC X'2000'	CYLINDER NUMBER
002E96	0000	2866+	DC X'0000'	HEAD # / LOG SEC
002E98	002F	2867+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002E9A	0006	2868+	DC X'002F'	BYTE COUNT
002E9C	307A	2869+ WRT2F	DCBT 8006, 2400,,30,*+06,6,	CONTROL WORD
002E9E	8006	2870+ WRT30	DCBT 8006, 2400,,30,*+06,6,	CONTROL WORD
002EA0	0000	2871+	DC X'8006'	DIRECT / # OF TRACKS
002EA2	0000	2872+	DC X'0000'	PHY SEC / FLAG
002EA4	2400	2873+	DC X'2400'	CYLINDER NUMBER
002EA6	0000	2874+	DC X'0000'	HEAD # / LOG SEC
002EA8	0030	2875+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002EAA	2E80	2876+	DC X'0030'	BYTE COUNT
002EAC	0006	2877+	DC A(ID30)	BUFFER ADDRESS
002EAE	3086	2878+ WRT31	DCBT 8006, 2600,,31,*+06,6,	CONTROL WORD
002EB0	8006	2879+ WRT31	DC X'8006'	DIRECT / # OF TRACKS
002EB2	0000	2880+	DC X'0000'	PHY SEC / FLAG
002EB4	2600	2881+	DC X'2600'	CYLINDER NUMBER
002EB6	0000	2882+	DC X'0000'	HEAD # / LOG SEC
002EB8	0031	2883+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002EBA	2E80	2884+	DC X'0031'	BYTE COUNT
002EBC	0006	2885+	DC A(ID31)	BUFFER ADDRESS
002EBE	3086	2886+ WRT32	DCBT 8006, 2800,,32,*+06,6,	CONTROL WORD
002EC0	8006	2887+ WRT32	DC X'8006'	DIRECT / # OF TRACKS
002EC2	0000	2888+	DC X'0000'	PHY SEC / FLAG
002EC4	2800	2889+	DC X'2800'	CYLINDER NUMBER
002EC6	0000	2890+	DC X'0000'	HEAD # / LOG SEC
002EC8	0032	2891+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002ECA	2E80	2892+	DC X'0032'	BYTE COUNT
002ECB	0006	2893+ WRT33	DCBT 8006, 2A00,,33,*+06,6,	CONTROL WORD
002ECE	308C	2894+ WRT33	DC X'8006'	DIRECT / # OF TRACKS
002ED0	8006	2895+	DC X'0000'	PHY SEC / FLAG
002ED2	0000	2896+	DC X'0000'	CYLINDER NUMBER
002ED4	2A00	2897+	DC X'2A00'	HEAD # / LOG SEC
002ED6	0000	2898+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002ED8	0033	2899+	DC X'0033'	BYTE COUNT
002EDA	2E80	2900+	DC A(ID33)	BUFFER ADDRESS
002EDC	0006	2901+ WRT33	DCBT 8006, 2C00,,34,*+06,6,	CONTROL WORD
002EDE	3092	2902+ WRT33	DC X'8006'	DIRECT / # OF TRACKS
002EE0	8006	2903+ WRT34	DCBT 8006, 2E00,,35,*+06,6,	CONTROL WORD
002EE2	0000	2904+ WRT34	DC X'8006'	DIRECT / # OF TRACKS
002EE4	2C00	2905+	DC X'0000'	PHY SEC / FLAG
002EE6	0000	2906+	DC X'0000'	CYLINDER NUMBER
002EE8	0034	2907+	DC X'0034'	HEAD # / LOG SEC
002EEA	2E80	2908+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002EEC	0006	2909+	DC X'0006'	BYTE COUNT
002EEE	3098	2910+ WRT35	DCBT 8006, 2E00,,35,*+06,6,	CONTROL WORD
002EF0	8006	2911+ WRT35	DC X'8006'	DIRECT / # OF TRACKS
002EF2	0000	2912+	DC X'0000'	PHY SEC / FLAG
002EF4	2E00	2913+	DC X'2E00'	CYLINDER NUMBER
002EF6	0000	2914+	DC X'0000'	HEAD # / LOG SEC
002EF8	0035	2915+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002EFA	2F00	2916+	DC X'0035'	BYTE COUNT
002EFC	0006	2917+	DC A(ID35)	BUFFER ADDRESS
002EFE	309E	2918+ WRT36	DCBT 8006, 3000,,36,*+06,6,	CONTROL WORD
002F00	8006	2919+ WRT36	DC X'8006'	DIRECT / # OF TRACKS
002F02	0000	2920+	DC X'0000'	PHY SEC / FLAG
002F04	3000	2921+	DC X'3000'	CYLINDER NUMBER
002F06	0000	2922+	DC X'0000'	HEAD # / LOG SEC
002F08	0036	2923+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002F0A	2F10	2924+	DC X'0036'	BYTE COUNT
002F0C	0006	2925+	DC A(ID37)	BUFFER ADDRESS
002F0E	30A4	2926+ WRT38	DCBT 8006, 3400,,38,*+06,6,	CONTROL WORD
002F10	8006	2927+ WRT38	DC X'8006'	DIRECT / # OF TRACKS
002F12	0000	2928+	DC X'0000'	PHY SEC / FLAG
002F14	3200	2929+	DC X'3200'	CYLINDER NUMBER
002F16	0000	2930+	DC X'0000'	HEAD # / LOG SEC
002F18	0037	2931+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002F1A	2F20	2932+	DC X'0037'	BYTE COUNT
002F1C	0006	2933+	DC A(ID37)	BUFFER ADDRESS
002F1E	30AA	2934+ WRT38	DCBT 8006, 3600,,39,*+06,6,	CONTROL WORD
002F20	8006	2935+ WRT38	DC X'8006'	DIRECT / # OF TRACKS
002F22	0000	2936+	DC X'0000'	PHY SEC / FLAG
002F24	3400	2937+	DC X'3400'	CYLINDER NUMBER
002F26	0000	2938+	DC X'0000'	HEAD # / LOG SEC
002F28	0038	2939+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002F2A	2F30	2940+	DC X'0038'	BYTE COUNT
002F2C	0006	2941+ WRT39	DCBT 8006, 3800,,3A,*+06,6,	CONTROL WORD
002F2E	30B0	2942+ WRT39	DC X'8006'	DIRECT / # OF TRACKS
002F30	8006	2943+	DC X'0000'	PHY SEC / FLAG
002F32	0000	2944+	DC X'0000'	CYLINDER NUMBER
002F34	3600	2945+	DC X'3600'	HEAD # / LOG SEC
002F36	0000	2946+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002F38	0039	2947+	DC X'0039'	BYTE COUNT
002F3A	2F40	2948+ WRT3A	DCBT 8006, 4000,,40,*+06,6,	CONTROL WORD
002F3C	0006	2949+ WRT3A	DC X'8006'	DIRECT / # OF TRACKS
002F3E	30B6	2950+	DC X'0000'	PHY SEC / FLAG
002F40	8006	2951+	DC X'0000'	CYLINDER NUMBER
002F42	0000	2952+	DC X'0000'	HEAD # / LOG SEC
002F44	3800	2953+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002F46	0000	2954+	DC X'0000'	BYTE COUNT
002F48	003A	2955+ WRT3B	DCBT 8006, 4A00,,42,*+06,6,	CONTROL WORD
002F4A	2F50	2956+ WRT3B	DC X'8006'	DIRECT / # OF TRACKS
002F4C	0006	2957+	DC X'0000'	PHY SEC / FLAG
002F4E	30BC	2958+	DC X'0000'	CYLINDER NUMBER
002F50	0006	2959+	DC X'0000'	HEAD # / LOG SEC
002F52	0000	2960+	DC A(*+06)	CHAIN ADDRESS OF NEXT DCB
002F54	3A00	2961+	DC X'3A00'	BYTE COUNT
002F56	0000	2962+	DC A(ID3A)	BUFFER ADDRESS
002F58	003B	2963+ WRT3B	DCBT 8006, 4A00,,42,*+06,6,	CONTROL WORD
002F5A	2F60	2964+ WRT3B	DC X'8006'	DIRECT / # OF TRACKS

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002E90	8006	2876+ WRT2F	DCBT 8006, 2400,,30,*+06,6,	CONTROL WORD
002E92	0000	2877+	DC X'8006'	DIRECT / # OF TRACKS
002E94	2200	2878+	DC X'2200'	PHY SEC / FLAG
002E96	0000	2879+	DC X'0000'	CYLINDER NUMBER

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002F5C	0006	2990+	DC X'0006'	BYTE COUNT
002F5E	30C2	2991+	DC A(ID3B)	BUFFER ADDRESS
002F60	0E0000000000	2992	*	60 SECTOR ID BUFFERS
002F62	0E0000000001	2993	FSTID EQU	OE,FL,CYLDR,HD,SEC
002F64	0E0000000002	2994	ID00 DC X'0E0000000001'	*
002F66	0E0000000003	2995	ID01 DC X'0E0000000001'	*
002F68	0E0000000004	2996	ID02 DC X'0E0000000002'	*
002F72	0E0000000005	2997	ID03 DC X'0E0000000003'	*
002F74	0E0000000006	2998	ID04 DC X'0E0000000004'	*
002F76	0E0000000007	2999	ID05 DC X'0E0000000005'	*
002F78	0E0000000008	3000	*	OE,FL,CYLDR,HD,SEC
002F7A	0E0000000009	3001	ID06 DC X'0E0000000006'	*
002F7C	0E000000000A	3002	ID07 DC X'0E0000000007'	*
002F7E	0E000000000B	3003	ID08 DC X'0E0000000008'	*
002F80	0E000000000C	3004	ID09 DC X'0E0000000009'	*
002F82	0E000000000D	3005	ID0A DC X'0E000000000A'	*
002F84	0E000000000E	3006	ID0B DC X'0E000000000B'	*
002F86	0E000000000F	3007	ID0C DC X'0E000000000C'	*
002F88	0E0000000010	3008	ID0D DC X'0E000000000D'	*
002F8A	0E0000000011	3009	ID0E DC X'0E000000000E'	*
002F8C	0E0000000012	3010	ID0F DC X'0E000000000F'	*
002F8E	0E0000000013	3011	ID10 DC X'0E0000000010'	*
002F90	0E0000000014	3012	ID11 DC X'0E0000000011'	*
002F92	0E0000000015	3013	ID12 DC X'0E0000000012'	*
002F94	0E0000000016	3014	ID13 DC X'0E0000000013'	*
002F96	0E0000000017	3015	ID14 DC X'0E0000000014'	*
002F98	0E0000000018	3016	ID15 DC X'0E0000000015'	*
002F9A	0E0000000019	3017	ID16 DC X'0E0000000016'	*
002F9C	0E000000001A	3018	ID17 DC X'0E0000000017'	*
002F9E	0E000000001B	3019	ID18 DC X'0E0000000018'	*
003000	0E000000001C	3020	ID19 DC X'0E0000000019'	*
003002	0E000000001D	3021	ID1A DC X'0E000000001A'	*
003004	0E000000001E	3022	ID1B DC X'0E000000001B'	*
003006	0E000000001F	3023	ID1C DC X'0E000000001C'	*
003008	0E0000000020	3024	ID1D DC X'0E000000001D'	*
00300A	0E0000000021	3025	ID1E DC X'0E000000001E'	*
00300C	0E0000000022	3026	ID1F DC X'0E000000001F'	*
00300E	0E0000000023	3027	ID20 DC X'0E0000000020'	*
003010	0E0000000024	3028	ID21 DC X'0E0000000021'	*
003012	0E0000000025	3029	ID22 DC X'0E0000000022'	*
003014	0E0000000026	3030	ID23 DC X'0E0000000023'	*
003016	0E0000000027	3031	ID24 DC X'0E0000000024'	*
003018	0E0000000028	3032	ID25 DC X'0E0000000025'	*
00301A	0E0000000029	3033	ID26 DC X'0E0000000026'	*
00301C	0E000000002A	3034	ID27 DC X'0E0000000027'	*
00301E	0E000000002B	3035	ID28 DC X'0E0000000028'	*
003020	0E000000002C	3036	ID29 DC X'0E0000000029'	*
003022	0E000000002D	3037	ID2A DC X'0E000000002A'	*
003024	0E000000002E	3038	ID2B DC X'0E000000002B'	*
003026	0E000000002F	3039	ID2C DC X'0E000000002C'	*
003028	0E0000000030	3040	ID2D DC X'0E000000002D'	*
00302A	0E0000000031	3041	ID2E DC X'0E000000002E'	*
00302C	0E0000000032	3042	ID2F DC X'0E000000002F'	*
00302E	0E0000000033	3043	ID30 DC X'0E0000000030'	*
003030	0E0000000034	3044	ID31 DC X'0E0000000031'	*
003032	0E0000000035	3045	ID32 DC X'0E0000000032'	*
003034	0E0000000036	3046	ID33 DC X'0E0000000033'	*
003036	0E0000000037	3047	ID34 DC X'0E0000000034'	*
003038	0E0000000038	3048	ID35 DC X'0E0000000035'	*
00303A	0E0000000039	3049	ID36 DC X'0E0000000036'	*
00303C	0E000000003A	3050	ID37 DC X'0E0000000037'	*
00303E	0E000000003B	3051	ID38 DC X'0E0000000038'	*
003040	0E000000003C	3052	ID39 DC X'0E0000000039'	*
003042	0E000000003D	3053	ID3A DC X'0E000000003A'	*
003044	0E000000003E	3054	ID3B DC X'0E000000003B'	*
003046	0E000000003F	3055	ID3C DC X'0E000000003C'	*
003048	0E0000000040	3056	ID3D DC X'0E000000003D'	*
00304A	0E0000000041	3057	ID3E DC X'0E000000003E'	*
00304C	0E0000000042	3058	ID3F DC X'0E000000003F'	*
00304E	0E0000000043	3059	ID40 DC X'0E0000000040'	*
003050	0E0000000044	3060	ID41 DC X'0E0000000041'	*
003052	0E0000000045	3061	ID42 DC X'0E0000000042'	*
003054	0E0000000046	3062	ID43 DC X'0E0000000043'	*
003056	0E0000000047	3063	ID44 DC X'0E0000000044'	*
003058	0E0000000048	3064	ID45 DC X'0E0000000045'	*
00305A	0E0000000049	3065	ID46 DC X'0E0000000046'	*
00305C	0E000000004A	3066	ID47 DC X'0E0000000047'	*
00305E	0E000000004B	3067	ID48 DC X'0E0000000048'	*
003060	0E000000004C	3068	ID49 DC X'0E0000000049'	*
003062	0E000000004D	3069	ID4A DC X'0E000000004A'	*
003064	0E000000004E	3070	ID4B DC X'0E000000004B'	*
003066	0E000000004F	3071	ID4C DC X'0E000000004C'	*
003068	0E0000000050	3072	ID4D DC X'0E000000004D'	*
00306A	0E0000000051	3073	ID4E DC X'0E000000004E'	*
00306C	0E0000000052	3074	ID4F DC X'0E000000004F'	*
00306E	0E0000000053	3075	ID50 DC X'0E0000000050'	*
003070	0E0000000054	3076	ID51 DC X'0E0000000051'	*
003072	0E0000000055	3077	ID52 DC X'0E0000000052'	*
003074	0E0000000056	3078	ID53 DC X'0E0000000053'	*
003076	0E0000000057	3079	ID54 DC X'0E0000000054'	*
003078	0E0000000058	3080	ID55 DC X'0E0000000055'	*
00307A	0E0000000059	3081	ID56 DC X'0E0000000056'	*
00307C	0E000000005A	3082	ID57 DC X'0E0000000057'	*
00307E	0E000000005B	3083	ID58 DC X'0E0000000058'	*
003080	0E000000005C	3084	ID59 DC X'0E0000000059'	*
003082	0E000000005D	3085	ID5A DC X'0E000000005A'	*
003084	0E000000005E	3086	ID5B DC X'0E000000005B'	*
003086	0E000000005F	3087	ID5C DC X'0E000000005C'	*
003088	0E0000000060	3088	ID5D DC X'0E000000005D'	*
00308A	0E0000000061	3089	ID5E DC X'0E000000005E'	*
00308C	0E0000000062	3090	ID5F DC X'0E000000005F'	*
00308E	0E0000000063	3091	ID60 DC X'0E0000000060'	*
003090	0E0000000064	3092	ID61 DC X'0E0000000061'	*
003092	0E0000000065	3093	ID62 DC X'0E0000000062'	*
003094	0E0000000066	3094	ID63 DC X'0E0000000063'	*
003096	0E0000000067	3095	ID64 DC X'0E0000000064'	*
003098	0E0000000068	3096	ID65 DC X'0E0000000065'	*
00309A	0E0000000069	3097	ID66 DC X'0E0000000066'	*
00309C	0E000000006A	3098	ID67 DC X'0E0000000067'	*
00309E	0E000000006B	3099	ID68 DC X'0E0000000068'	*
0030A0	0E000000006C	3100	ID69 DC X'0E0000000069'	*
0030A2	0E000000006D	3101	ID6A DC X'0E000000006A'	*
0030A4	0E000000006E	3102	ID6B DC X'0E000000006B'	*
0030A6	0E000000006F	3103	ID6C DC X'0E000000006C'	*
0030A8	0E0000000070	3104	ID6D DC X'0E000000006D'	*
0030AA	0E0000000071	3105	ID6E DC X'0E000000006E'	*
0030AC	0E0000000072	3106	ID6F DC X'0E000000006F'	*
0030AE	0E0000000073	3107	ID70 DC X'0E0000000070'	*
0030B0	0E0000000074	3108	ID71 DC X'0E0000000071'	*
0030B2	0E0000000075	3109	ID72 DC X'0E0000000072'	*
0030B4	0E0000000076	3110	ID73 DC X'0E0000000073'	*
0030B6	0E0000000077	3111	ID74 DC X'0E0000000074'	*
0030B8	0E0000000078	3112	ID75 DC X'0E0000000075'	*
0030BA	0E0000000079	3113	ID76 DC X'0E0000000076'	*
0030BC	0E000000007A	3114	ID77 DC X'0E0000000077'	*
0030BE	0E000000007B	3115	ID78 DC X'0E0000000078'	*
0030C0	0E000000007C	3116	ID79 DC X'0E0000000079'	*
0030C2	0E000000007D	3117	ID7A DC X'0E000000007A'	*
0030C4	0E000000007E	3118	ID7B DC X'0E000000007B'	*
0030C6	0E000000007F	3119	ID7C DC X'0E000000007C'	*
0030C8	0E0000000080	3120	ID7D DC X'0E000000007D'	*
0030CA	0E0000000081	3121	ID7E DC X'0E000000007E'	*
0030CC	0E0000000082	3122	ID7F DC X'0E000000007F'	*
0030CE	0E0000000083	3123	ID80 DC X'0E0000000080'	*
0030D0	0E0000000084	3124	ID81 DC X'0E0000000081'	*
0030D2	0E0000000085	3125	ID82 DC X'0E0000000082'	*
0030D4	0E0000000086	3126	ID83 DC X'0E0000000083'	*
0030D6	0E0000000087	3127	ID84 DC X'0E0000000084'	*
0030D8	0E0000000088	3128	ID85 DC X'0E0000000085'	*
0030DA	0E0000000089	3129	ID86 DC X'0E0000000086'	*
0030DC	0E000000008A	3130	ID87 DC X'0E0000000087'	*
0030DE	0E000000008B	3131	ID88 DC X'0E0000000088'	*
0030E0	0E000000008C	3132	ID89 DC X'0E0000000089'	*
0030E2	0E000000008D	3133	ID8A DC X'0E000000008A'	*
0030E4	0E000000008E	3134	ID8B DC X'0E000000008B'	*
0030E6	0E000000008F	3135	ID8C DC X'0E000000008C'	*
0030E8	0E0000000090	3136	ID8D DC X'0E000000008D'	*
0030EA	0E0000000091	3137	ID8E DC X'0E000000008E'	*
0030EC	0E0000000092	3138	ID8F DC X'0E000000008F'	*
0030EE	0E0000000093	3139	ID90 DC X'0E0000000090'	*
0030F0	0E0000000094	3140	ID91 DC X'0E0000000091'	*
0030F2	0E0000000095	3141	ID92 DC X'0E0000000092'	*
0030F4	0E0000000096	3142	ID93 DC X'0E0000000093'	*
0030F6	0E0000000097	3143	ID94 DC X'0E0000000094'	*
0030F8	0E0000000098	3144	ID95 DC X'0E0000000095'	*
0030FA	0E0000000099	3145	ID96 DC X'0E0000000096'	*
0030FC	0E000000009A	3146	ID97 DC X'0E0000000097'	*
0030FE	0E000000009B	3147	ID98 DC X'0E0000000098'	*
003100	0E000000009C	3148	ID99 DC X'0E0000000099'	*
003102	0E000000009D	3149	ID9A DC X'0E000000009A'	*
003104	0E000000009E	3150	ID9B DC X'0E000000009B'	*
003106	0E000000009F	3151	ID9C DC X'0E000000009C'	*
003108	0E00000000A0	3152	ID9D DC X'0E000000009D'	*
00310A	0E00000000A1	3153	ID9E DC X'0E0	

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
00339E	0E0000988001	3218	C1201 DC	X'0E0000988001'
0033A4	0E0000988002	3219	C1202 DC	X'0E0000988002'
0033AA	0E0000988003	3220	C1203 DC	X'0E0000988003'
0033B0	0E0000988004	3221	C1204 DC	X'0E0000988004'
0033B6	0E0000988005	3222	C1205 DC	X'0E0000988005'
0033BC	0E0000988006	3223	*	OE,FL,CYLDR,HD,SEC
0033C2	0E0000988007	3224	C1206 DC	X'0E0000988006'
0033C8	0E0000988008	3225	C1207 DC	X'0E0000988007'
0033CE	0E0000988009	3226	C1208 DC	X'0E0000988008'
0033D4	0E000098800A	3227	C1209 DC	X'0E0000988009'
0033DA	0E000098800B	3228	C120A DC	X'0E000098800A'
0033E0	0E000098800C	3229	*	OE,FL,CYLDR,HD,SEC
0033E6	0E000098800D	3230	C120B DC	X'0E000098800B'
0033EC	0E000098800E	3231	C120C DC	X'0E000098800C'
0033F2	0E000098800F	3232	C120D DC	X'0E000098800D'
0033F8	0E0000988010	3233	C120E DC	X'0E000098800E'
0033FE	0E0000988011	3234	C120F DC	X'0E000098800F'
003404	0E0000988012	3235	*	OE,FL,CYLDR,HD,SEC
00340A	0E0000988013	3236	C1210 DC	X'0E0000988010'
003410	0E0000988014	3237	C1211 DC	X'0E0000988011'
003416	0E0000988015	3238	C1212 DC	X'0E0000988012'
00341C	0E0000988016	3239	C1213 DC	X'0E0000988013'
003422	0E0000988017	3240	C1214 DC	X'0E0000988014'
003428	0E0000988018	3241	*	OE,FL,CYLDR,HD,SEC
00342E	0E0000988019	3242	C1215 DC	X'0E0000988015'
003434	0E000098801A	3243	C1216 DC	X'0E0000988016'
00343A	0E000098801B	3244	C1217 DC	X'0E0000988017'
003440	0E000098801C	3245	C1218 DC	X'0E0000988018'
003446	0E000098801D	3246	C1219 DC	X'0E0000988019'
00344C	0E000098801E	3247	*	OE,FL,CYLDR,HD,SEC
003452	0E000098801F	3248	C121A DC	X'0E000098801A'
003458	0E0000988020	3249	C121B DC	X'0E000098801B'
00345E	0E0000988021	3250	C121C DC	X'0E000098801C'
003464	0E0000988022	3251	C121D DC	X'0E000098801D'
00346A	0E0000988023	3252	C121E DC	X'0E000098801E'
003470	0E0000988024	3253	*	OE,FL,CYLDR,HD,SEC
003476	0E0000988025	3254	C121F DC	X'0E000098801F'
00347C	0E0000988026	3255	C1220 DC	X'0E0000988020'
003482	0E0000988027	3256	C1221 DC	X'0E0000988021'
003488	0E0000988028	3257	C1222 DC	X'0E0000988022'
00348E	0E0000988029	3258	C1223 DC	X'0E0000988023'
003494	0E000098802A	3259	*	OE,FL,CYLDR,HD,SEC
00349A	0E000098802B	3260	C1224 DC	X'0E0000988024'
0034A0	0E000098802C	3261	C1225 DC	X'0E0000988025'
0034A6	0E000098802D	3262	C1226 DC	X'0E0000988026'
0034AC	0E000098802E	3263	C1227 DC	X'0E0000988027'
0034B2	0E000098802F	3264	C1228 DC	X'0E0000988028'
0034B8	0E0000988030	3265	*	OE,FL,CYLDR,HD,SEC
0034BE	0E0000988031	3266	C1229 DC	X'0E0000988029'
0034C4	0E0000988032	3267	C122A DC	X'0E000098802A'
0034CA	0E0000988033	3268	C122B DC	X'0E000098802B'
0034D0	0E0000988034	3269	C122C DC	X'0E000098802C'
0034D6	0E0000988035	3270	C122D DC	X'0E000098802D'
0034DC	0E0000988036	3271	*	OE,FL,CYLDR,HD,SEC
0034E2	0E0000988037	3272	C122E DC	X'0E000098802E'
0034E8	0E0000988038	3273	C122F DC	X'0E000098802F'
0034EE	0E0000988039	3274	C1230 DC	X'0E0000988030'
0034F4	0E000098803A	3275	C1231 DC	X'0E0000988031'
0034FA	0E000098803B	3276	C1232 DC	X'0E0000988032'
003500	3500	3277	*	OE,FL,CYLDR,HD,SEC
003502	3398	3278	C1233 DC	X'0E0000988033'
003504	0000000000000000	3279	C1234 DC	X'0E0000988034'
003604	0000000000000000	3280	C1235 DC	X'0E0000988035'
00366C	0000000000000000	3281	C1236 DC	X'0E0000988036'
00376C	0000000000000000	3282	C1237 DC	X'0E0000988037'
00386C	0000000000000000	3283	*	OE,FL,CYLDR,HD,SEC
00396C	0000000000000000	3284	C1238 DC	X'0E0000988038'
003A6C	0000000000000000	3285	C1239 DC	X'0E0000988039'
003B6C	0000000000000000	3286	C123A DC	X'0E000098803A'
003C6C	0000000000000000	3287	C123B DC	X'0E000098803B'
003D6C	0000000000000000	3288	CEND2	A(CEND2)
003E6C	0000000000000000	3289	CYEND	A(C1200)
003F6C	0000000000000000	3290	*	OE,FL,CYLDR,HD,SEC
00406C	0000000000000000	3291	RTEST DC	128A (***)
00416C	0000000000000000	3292	DC	52A (***)
00426C	0000000000000000	3293	*	SAVE AREA PRO WRITE ID'S
00436C	0000000000000000	3294	ERSEC DC	128A (***)
00446C	0000000000000000	3295	DC	128A (***)
00456C	0000000000000000	3296	DC	128A (***)
00466C	0000000000000000	3297	DC	128A (***)
00476C	0000000000000000	3298	DC	128A (***)
00486C	0000000000000000	3299	DC	128A (***)
00496C	0000000000000000	3300	DC	128A (***)
00506C	0000000000000000	3301	DC	128A (***)
00516C	0000000000000000	3302	DC	19A (***)
00526C	0000000000000000	3303	DS	F'0
00536C	0000000000000000	3304	DS	END

DECLARED	NAME	ATTRIBUTES AND REFERENCES	COPYRIGHT IBM CORP 1976
843	\$CONC	ADDRESS. HEX LOCATION(00001BC4) IN CSECT(U78F0) LENGTH(2)	
909	\$CONX	ADDRESS. HEX LOCATION(00001C48) IN CSECT(U78F0) LENGTH(1)	
885	\$ERR\$	ADDRESS. HEX LOCATION(00001BF8) IN CSECT(U78F0) LENGTH(6)	
188	\$INTL	ADDRESS. HEX LOCATION(00001952) IN CSECT(U78F0) LENGTH(2)	
158	\$IOIN	ADDRESS. HEX LOCATION(0000191E) IN CSECT(U78F0) LENGTH(2)	
159	\$ISB	ADDRESS. HEX LOCATION(00001920) IN CSECT(U78F0) LENGTH(2)	
143	\$LE	ABSOLUTE. HEX VALUE(00000026)	
1862	\$OUT	ADDRESS. HEX LOCATION(000027BE) IN CSECT(U78F0) LENGTH(2)	
534	\$RDID	ADDRESS. HEX LOCATION(00001A8C) IN CSECT(U78F0) LENGTH(6)	
1271	\$RDIM	ADDRESS. HEX LOCATION(0000217C) IN CSECT(U78F0) LENGTH(6)	
531	\$RECL	ADDRESS. HEX LOCATION(00001A84) IN CSECT(U78F0) LENGTH(6)	
540	\$RKEW	ADDRESS. HEX LOCATION(00001A9E) IN CSECT(U78F0) LENGTH(6)	
528	\$SEEK	ADDRESS. HEX LOCATION(00001A7C) IN CSECT(U78F0) LENGTH(6)	
157	\$TUID	ADDRESS. HEX LOCATION(0000191C) IN CSECT(U78F0) LENGTH(2)	
1664	\$WRID	ADDRESS. HEX LOCATION(000024C2) IN CSECT(U78F0) LENGTH(6)	
67	@DCADD1	ADDRESS. HEX LOCATION(000018C0) IN CSECT(U78F0) LENGTH(2)	
68	@DCADD2	ADDRESS. HEX LOCATION(000018C2) IN CSECT(U78F0) LENGTH(2)	
51	@ETOH	ADDRESS. HEX LOCATION(00001820) IN CSECT(U78F0) LENGTH(2)	
77	@MSGWTR	ADDRESS. HEX LOCATION(000018CE) IN CSECT(U78F0) LENGTH(4)	
71	@OUT	ADDRESS. HEX LOCATION(000018C8) IN CSECT(U78F0) LENGTH(2)	
55	@OUTIN	ADDRESS. HEX LOCATION(00001828) IN CSECT(U78F0) LENGTH(2)	
70	@OUT1	ADDRESS. HEX LOCATION(000018C6) IN CSECT(U78F0) LENGTH(2)	
73	ABMSG	ADDRESS. HEX LOCATION(000018CC) IN CSECT(U78F0) LENGTH(2)	
1536	ALTEG	ADDRESS. HEX LOCATION(0000238A) IN CSECT(U78F0) LENGTH(4)	
1521	ALTEM	ADDRESS. HEX LOCATION(00002362) IN CSECT(U78F0) LENGTH(4)	
1531	ALTEN	ADDRESS. HEX LOCATION(0000237C) IN CSECT(U78F0) LENGTH(4)	
1492	ALTER	ADDRESS. HEX LOCATION(00002300) IN CSECT(U78F0) LENGTH(4)	
1495	ALTES	ADDRESS. HEX LOCATION(0000230C) IN CSECT(U78F0) LENGTH(4)	
1558	ALTEW	ADDRESS. HEX LOCATION(000023CA) IN CSECT(U78F0) LENGTH(4)	
1563	ALTEX	ADDRESS. HEX LOCATION(000023DC) IN CSECT(U78F0) LENGTH(4)	
1549	ALT1	ADDRESS. HEX LOCATION(000023B2) IN CSECT(U78F0) LENGTH(4)	
1504	ALT11	ADDRESS. HEX LOCATION(00002326) IN CSECT(U78F0) LENGTH(4)	
1551	ALT2	ADDRESS. HEX LOCATION(000023BA) IN CSECT(U78F0) LENGTH(4)	
1506	ALT22	ADDRESS. HEX LOCATION(0000232E) IN CSECT(U78F0) LENGTH(4)	
1550	ALT4	ADDRESS. HEX LOCATION(000023B6) IN CSECT(U78F0) LENGTH(4)	
1505	ALT44	ADDRESS. HEX LOCATION(0000232A) IN CSECT(U78F0) LENGTH(4)	
49	ASSIGN	ADDRESS. HEX LOCATION(00001816) IN CSECT(U78F0) LENGTH(8)	
965	ASSIGNED	ADDRESS. HEX LOCATION(00001D90) IN CSECT(U78F0) LENGTH(6)	
914	BEGIN	ADDRESS. HEX LOCATION(00001C52) IN CSECT(U78F0) LENGTH(2)	
973	BIG	ABSOLUTE. HEX VALUE(0000001B)	
1235	BIG1	ADDRESS. HEX LOCATION(000020FA) IN CSECT(U78F0) LENGTH(2)	
935	BIT0080	ABSOLUTE. HEX VALUE(00000080)	
1568	BLN	ADDRESS. HEX LOCATION(000023E6) IN CSECT(U78F0) LENGTH(2)	
1849	BLK	ADDRESS. HEX LOCATION(00002752) IN CSECT(U78F0) LENGTH(2)	
930	BUFFPT	ADDRESS. HEX LOCATION(00001D5A) IN CSECT(U78F0) LENGTH(2)	
113	B55	ABSOLUTE. HEX VALUE(00000017)	
114	B56	ABSOLUTE. HEX VALUE(00000018)	
115	B57	ABSOLUTE. HEX VALUE(00000019)	
116	B58	ABSOLUTE. HEX VALUE(0000001A)	
117	B59	ABSOLUTE. HEX VALUE(0000001B)	
118	B60	ABSOLUTE. HEX VALUE(0000001C)	
119	B61	ABSOLUTE. HEX VALUE(0000001D)	
120	B62	ABSOLUTE. HEX VALUE(0000001E)	
437	CB29	ADDRESS. HEX LOCATION(00001A2C) IN CSECT(U78F0) LENGTH(2)	

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
147	CE	ABSOLUTE. HEX VALUE (0000002A)
3288	CEND2	603 715 785 ADDRESS. HEX LOCATION (00003500) IN CSECT (U78F0) LENGTH (2)
226	CICB	1139 1524 3288 ABSOLUTE. HEX VALUE (00000014)
318	CLDCB	849 ADDRESS. HEX LOCATION (00001974) IN CSECT (U78F0) LENGTH (2)
975	CL1	533 ABSOLUTE. HEX VALUE (0000001D)
969	CND	980 1011 1051 1076 1098 1110 1126 1254 ABSOLUTE. HEX VALUE (00000017)
484	CONVT	981 1091 1141 1515 1529 ADDRESS. HEX LOCATION (00001A3A) IN CSECT (U78F0) LENGTH (4)
145	CS	1198 ABSOLUTE. HEX VALUE (00000028)
146	CSA	604 607 713 754 783 ABSOLUTE. HEX VALUE (00000029)
176	CSBUF	788 ADDRESS. HEX LOCATION (0000193C) IN CSECT (U78F0) LENGTH (1)
368	CSDCB	375 615 ADDRESS. HEX LOCATION (000019C4) IN CSECT (U78F0) LENGTH (2)
184	CSTL8	605 ADDRESS. HEX LOCATION (0000194A) IN CSECT (U78F0) LENGTH (2)
442	CTR01	716 717 ADDRESS. HEX LOCATION (00001A36) IN CSECT (U78F0) LENGTH (2)
443	CTR02	999 1019 1038 1043 1748 1767 1772 ADDRESS. HEX LOCATION (00001A38) IN CSECT (U78F0) LENGTH (2)
3289	CYEND	1000 1645 1654 1660 ADDRESS. HEX LOCATION (00003502) IN CSECT (U78F0) LENGTH (2)
1337	CYLMN	1089 1502 1527 1547 ADDRESS. HEX LOCATION (000021FA) IN CSECT (U78F0) LENGTH (2)
1567	CYSTG	996 1100 1103 1104 1182 1256 1308 1326 1402 1427 1436 1451 1506 1519 1542 1551 1603 1674 ADDRESS. HEX LOCATION (000023E4) IN CSECT (U78F0) LENGTH (2)
3069	C1000	1541 ADDRESS. HEX LOCATION (000030C8) IN CSECT (U78F0) LENGTH (6)
3143	C1100	1055 1082 1132 1505 1550 1566 1567 1683 ADDRESS. HEX LOCATION (00003230) IN CSECT (U78F0) LENGTH (6)
3217	C1200	1080 1114 1700 ADDRESS. HEX LOCATION (00003398) IN CSECT (U78F0) LENGTH (6)
1858	DATAA	1130 1504 1549 1713 3289 ADDRESS. HEX LOCATION (0000278C) IN CSECT (U78F0) LENGTH (2)
166	DCBUF	1823 ADDRESS. HEX LOCATION (0000192C) IN CSECT (U78F0) LENGTH (1)
931	DC2PT	610 ADDRESS. HEX LOCATION (00001D5C) IN CSECT (U78F0) LENGTH (2)
48	DEVADD	77 904 ADDRESS. HEX LOCATION (00001814) IN CSECT (U78F0) LENGTH (2)
47	DEVTAB	53 191 804 813 910 958 961 ADDRESS. HEX LOCATION (00001812) IN CSECT (U78F0) LENGTH (2)
161	DEV1	43 1843 ADDRESS. HEX LOCATION (00001924) IN CSECT (U78F0) LENGTH (2)
254	EIGHT	165 845 ABSOLUTE. HEX VALUE (00000008)
1527	END1	84 ADDRESS. HEX LOCATION (00002372) IN CSECT (U78F0) LENGTH (4)
138	ER	1523 ABSOLUTE. HEX VALUE (00000021)
1872	ERLST	621 640 723 765 790 1005 1009 1017 1068 1204 1224 1251 1643 1652 1680 1688 1732 1739 1746 ADDRESS. HEX LOCATION (000027DE) IN CSECT (U78F0) LENGTH (2)
1864	ERMSG	1002 1256 1257 1258 1259 1260 1261 1263 1264 1265 1266 1431 1452 1453 1454 1455 1456 1458 1459 1460 1461 ADDRESS. HEX LOCATION (000027C2) IN CSECT (U78F0) LENGTH (2)
974	ERR	1862 ABSOLUTE. HEX VALUE (0000001C)
1871	ERRCT	979 1060 1095 1119 1184 1420 1429 1437 1778 ADDRESS. HEX LOCATION (000027DC) IN CSECT (U78F0) LENGTH (2)
3294	ERSEC	995 1262 1457 1796 1799 1810 1815 ADDRESS. HEX LOCATION (0000366C) IN CSECT (U78F0) LENGTH (2)
231	ETOH	1002 1798 1808 1809 1826 ABSOLUTE. HEX VALUE (00000019)
212	EXIT	957 ABSOLUTE. HEX VALUE (00000006)
1843	EXIT1	742 ADDRESS. HEX LOCATION (00002748) IN CSECT (U78F0) LENGTH (4)
933	FAKETU	965 ADDRESS. HEX LOCATION (00001D60) IN CSECT (U78F0) LENGTH (2)
1859	FILL	903 ADDRESS. HEX LOCATION (0000278E) IN CSECT (U78F0) LENGTH (45)
438	FIVE9	1816 1858 ADDRESS. HEX LOCATION (00001A2E) IN CSECT (U78F0) LENGTH (2)
1239	FIX1	494 ADDRESS. HEX LOCATION (00002106) IN CSECT (U78F0) LENGTH (2)
2994	FSTID	993 845 ADDRESS. HEX LOCATION (00002F60) IN CSECT (U78F0) LENGTH (1)
1840	FULL	1273 1367 1405 1493 1596 1617 1618 1637 1657 1684 1701 1714 ADDRESS. HEX LOCATION (000026F8) IN CSECT (U78F0) LENGTH (40)
970	FXD	1832 ABSOLUTE. HEX VALUE (00000018)
1743	FXG1	985 1239 1671 ADDRESS. HEX LOCATION (000025B6) IN CSECT (U78F0) LENGTH (2)
1772	FXX1	1749 ADDRESS. HEX LOCATION (00002624) IN CSECT (U78F0) LENGTH (6)
1776	FXX12	1747 ADDRESS. HEX LOCATION (00002636) IN CSECT (U78F0) LENGTH (2)
1750	FXX99	1771 ADDRESS. HEX LOCATION (000025CA) IN CSECT (U78F0) LENGTH (6)
1780	FX01	1742 ADDRESS. HEX LOCATION (0000263E) IN CSECT (U78F0) LENGTH (4)
1781	FX46	1777 ADDRESS. HEX LOCATION (00002642) IN CSECT (U78F0) LENGTH (6)
1340	GSDCY	1779 ABSOLUTE. HEX VALUE (00000002)
1339	GSDFL	1375 ABSOLUTE. HEX VALUE (00000001)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1341	GSDHD	ABSOLUTE. HEX VALUE (00000004)
1342	GSDSE	1378 1413 1419 ABSOLUTE. HEX VALUE (00000005)
1014	GSD1	1381 ADDRESS. HEX LOCATION (00001E28) IN CSECT (U78F0) LENGTH (2)
1315	GSD6	1020 1070 ADDRESS. HEX LOCATION (000021D6) IN CSECT (U78F0) LENGTH (2)
1338	HDSEC	1292 1294 1297 1299 1302 1304 1309 1313 ADDRESS. HEX LOCATION (000021FC) IN CSECT (U78F0) LENGTH (2)
1854	HEAD	1001 1065 1108 1124 1404 1410 1455 1468 1469 1494 1495 1559 1560 1597 1604 1607 1677 1698 1711 1736 ADDRESS. HEX LOCATION (0000275A) IN CSECT (U78F0) LENGTH (2)
1866	HEAD2	1813 ADDRESS. HEX LOCATION (000027C6) IN CSECT (U78F0) LENGTH (2)
1867	HEAD3	1802 1811 ADDRESS. HEX LOCATION (000027C8) IN CSECT (U78F0) LENGTH (19)
1855	HEAD4	1800 1801 1807 1866 ADDRESS. HEX LOCATION (0000275C) IN CSECT (U78F0) LENGTH (45)
939	HEBLK	1854 ADDRESS. HEX LOCATION (00001D62) IN CSECT (U78F0) LENGTH (2)
232	HTOE	886 ABSOLUTE. HEX VALUE (0000001A)
1336	HOE00	887 1819 ADDRESS. HEX LOCATION (000021F8) IN CSECT (U78F0) LENGTH (2)
1473	H003C	1406 1435 1513 ADDRESS. HEX LOCATION (000022FE) IN CSECT (U78F0) LENGTH (2)
208	IDLE	1469 1560 ABSOLUTE. HEX VALUE (00000002)
1565	IDSIZ	636 ADDRESS. HEX LOCATION (000023E0) IN CSECT (U78F0) LENGTH (2)
3006	IDOA	1537 ADDRESS. HEX LOCATION (00002F9C) IN CSECT (U78F0) LENGTH (6)
3008	IDOB	2006 2550 ADDRESS. HEX LOCATION (00002FA2) IN CSECT (U78F0) LENGTH (6)
3009	IDOC	2015 2559 ADDRESS. HEX LOCATION (00002FA8) IN CSECT (U78F0) LENGTH (6)
3010	IDOD	2024 2568 ADDRESS. HEX LOCATION (00002FAE) IN CSECT (U78F0) LENGTH (6)
3011	IDOE	2033 2577 ADDRESS. HEX LOCATION (00002FB4) IN CSECT (U78F0) LENGTH (6)
3012	IDOF	2042 2586 ADDRESS. HEX LOCATION (00002FBA) IN CSECT (U78F0) LENGTH (6)
2995	ID00	2051 2595 ADDRESS. HEX LOCATION (00002F60) IN CSECT (U78F0) LENGTH (6)
2996	ID01	1054 1079 1113 1129 1156 1158 1169 1174 1181 1382 1467 1521 1558 1565 1606 1916 2460 ADDRESS. HEX LOCATION (00002F66) IN CSECT (U78F0) LENGTH (6)
2997	ID02	1174 1382 1467 1521 1558 1565 1606 1925 2469 ADDRESS. HEX LOCATION (00002F6C) IN CSECT (U78F0) LENGTH (6)
2998	ID03	1934 2478 ADDRESS. HEX LOCATION (00002F72) IN CSECT (U78F0) LENGTH (6)
2999	ID04	1943 2487 ADDRESS. HEX LOCATION (00002F78) IN CSECT (U78F0) LENGTH (6)
3000	ID05	1952 2496 ADDRESS. HEX LOCATION (00002F7E) IN CSECT (U78F0) LENGTH (6)
3002	ID06	1961 2505 ADDRESS. HEX LOCATION (00002F84) IN CSECT (U78F0) LENGTH (6)
3003	ID07	1970 2514 ADDRESS. HEX LOCATION (00002F8A) IN CSECT (U78F0) LENGTH (6)
3004	ID08	1979 2523 ADDRESS. HEX LOCATION (00002F90) IN CSECT (U78F0) LENGTH (6)
3005	ID09	1988 2532 ADDRESS. HEX LOCATION (00002F96) IN CSECT (U78F0) LENGTH (6)
3026	ID1A	1997 2541 ADDRESS. HEX LOCATION (00002FFC) IN CSECT (U78F0) LENGTH (6)
3027	ID1B	2150 2694 ADDRESS. HEX LOCATION (00003002) IN CSECT (U78F0) LENGTH (6)
3028	ID1C	2155 2703 ADDRESS. HEX LOCATION (00003008) IN CSECT (U78F0) LENGTH (6)
3029	ID1D	2168 2712 ADDRESS. HEX LOCATION (0000300E) IN CSECT (U78F0) LENGTH (6)
3030	ID1E	2177 2721 ADDRESS. HEX LOCATION (00003014) IN CSECT (U78F0) LENGTH (6)
3032	ID1F	2186 2730 ADDRESS. HEX LOCATION (0000301A) IN CSECT (U78F0) LENGTH (6)
3014	ID10	2195 2739 ADDRESS. HEX LOCATION (00002F00) IN CSECT (U78F0) LENGTH (6)
3015	ID11	2060 2604 ADDRESS. HEX LOCATION (00002FC6) IN CSECT (U78F0) LENGTH (6)
3016	ID12	2069 2613 ADDRESS. HEX LOCATION (00002FCC) IN CSECT (U78F0) LENGTH (6)
3017	ID13	2078 2622 ADDRESS. HEX LOCATION (00002FD2) IN CSECT (U78F0) LENGTH (6)
3018	ID14	2087 2631 ADDRESS. HEX LOCATION (00002FD8) IN CSECT (U78F0) LENGTH (6)
3020	ID15	2096 2640 ADDRESS. HEX LOCATION (00002FDE) IN CSECT (U78F0) LENGTH (6)
3021	ID16	2105 2649 ADDRESS. HEX LOCATION (00002FE4) IN CSECT (U78F0) LENGTH (6)
3022	ID17	2114 2658 ADDRESS. HEX LOCATION (00002FEA) IN CSECT (U78F0) LENGTH (6)
3023	ID18	2123 2667 ADDRESS. HEX LOCATION (00002FF0) IN CSECT (U78F0) LENGTH (6)
3024	ID19	2132 2676 ADDRESS. HEX LOCATION (00002FF6) IN CSECT (U78F0) LENGTH (6)
3045	ID2A	2141 2685 ADDRESS. HEX LOCATION (0000305C) IN CSECT (U78F0) LENGTH (6)
3046	ID2B	2294 2838 ADDRESS. HEX LOCATION (00003062) IN CSECT (U78F0) LENGTH (6)
3047	ID2C	2303 2847 ADDRESS. HEX LOCATION (00003068) IN CSECT (U78F0) LENGTH (6)
3048	ID2D	2312 2856 ADDRESS. HEX LOCATION (0000306E) IN CSECT (U78F0) LENGTH (6)
3050	ID2E	2321 2865 ADDRESS. HEX LOCATION (00003074) IN CSECT (U78F0) LENGTH (6)
3051	ID2F	2330 2874 ADDRESS. HEX LOCATION (0000307A) IN CSECT (U78F0) LENGTH (6)
3033	ID20	2339 2883 ADDRESS. HEX LOCATION (00003020) IN CSECT (U78F0) LENGTH (6)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
3034	ID21	ADDRESS. HEX LOCATION(00003026) IN CSECT(U78F0) LENGTH(6) 2213 2757
3035	ID22	ADDRESS. HEX LOCATION(0000302C) IN CSECT(U78F0) LENGTH(6) 2222 2766
3036	ID23	ADDRESS. HEX LOCATION(00003032) IN CSECT(U78F0) LENGTH(6) 2231 2775
3038	ID24	ADDRESS. HEX LOCATION(00003038) IN CSECT(U78F0) LENGTH(6) 2240 2784
3039	ID25	ADDRESS. HEX LOCATION(0000303E) IN CSECT(U78F0) LENGTH(6) 2249 2793
3040	ID26	ADDRESS. HEX LOCATION(00003044) IN CSECT(U78F0) LENGTH(6) 2258 2802
3041	ID27	ADDRESS. HEX LOCATION(0000304A) IN CSECT(U78F0) LENGTH(6) 2267 2811
3042	ID28	ADDRESS. HEX LOCATION(00003050) IN CSECT(U78F0) LENGTH(6) 2276 2820
3044	ID29	ADDRESS. HEX LOCATION(00003056) IN CSECT(U78F0) LENGTH(6) 2285 2829
3064	ID3A	ADDRESS. HEX LOCATION(000030BC) IN CSECT(U78F0) LENGTH(6) 1027 1295 1756 2438 2982
3065	ID3B	ADDRESS. HEX LOCATION(000030C2) IN CSECT(U78F0) LENGTH(6) 1032 1300 1305 1310 1761 2447 2991
3052	ID30	ADDRESS. HEX LOCATION(00003080) IN CSECT(U78F0) LENGTH(6) 2348 2892
3053	ID31	ADDRESS. HEX LOCATION(00003086) IN CSECT(U78F0) LENGTH(6) 2357 2901
3054	ID32	ADDRESS. HEX LOCATION(0000308C) IN CSECT(U78F0) LENGTH(6) 2366 2910
3056	ID33	ADDRESS. HEX LOCATION(00003092) IN CSECT(U78F0) LENGTH(6) 2375 2919
3057	ID34	ADDRESS. HEX LOCATION(00003098) IN CSECT(U78F0) LENGTH(6) 2384 2928
3058	ID35	ADDRESS. HEX LOCATION(0000309E) IN CSECT(U78F0) LENGTH(6) 2393 2937
3059	ID36	ADDRESS. HEX LOCATION(000030A4) IN CSECT(U78F0) LENGTH(6) 2402 2946
3060	ID37	ADDRESS. HEX LOCATION(000030AA) IN CSECT(U78F0) LENGTH(6) 2411 2955
3062	ID38	ADDRESS. HEX LOCATION(000030B0) IN CSECT(U78F0) LENGTH(6) 2420 2964
3063	ID39	ADDRESS. HEX LOCATION(000030B6) IN CSECT(U78F0) LENGTH(6) 1022 1290 1751 2429 2973
140	IN	ABSOLUTE. HEX VALUE(00000023) 622 634 753
59	INAREA	ADDRESS. HEX LOCATION(00001830) IN CSECT(U78F0) LENGTH(2) 52 56
813	INTBL	ADDRESS. HEX LOCATION(00001BBC) IN CSECT(U78F0) LENGTH(2) 848
710	INTER	ADDRESS. HEX LOCATION(00001B24) IN CSECT(U78F0) LENGTH(2) 815
719	INTES	ADDRESS. HEX LOCATION(00001B3C) IN CSECT(U78F0) LENGTH(2) 714
723	INTET	ADDRESS. HEX LOCATION(00001B44) IN CSECT(U78F0) LENGTH(2) 720
750	INTOK	ADDRESS. HEX LOCATION(00001B48) IN CSECT(U78F0) LENGTH(2) 814
772	INTRX	ADDRESS. HEX LOCATION(00001B78) IN CSECT(U78F0) LENGTH(2) 767
753	INTR1	ADDRESS. HEX LOCATION(00001B50) IN CSECT(U78F0) LENGTH(2) 718 722 724
758	INTR2	ADDRESS. HEX LOCATION(00001B5E) IN CSECT(U78F0) LENGTH(1) 755
766	INTR3	ADDRESS. HEX LOCATION(00001B6C) IN CSECT(U78F0) LENGTH(2) 763
804	IOBLK	ADDRESS. HEX LOCATION(00001BB0) IN CSECT(U78F0) LENGTH(2) 623 853 986
806	IODCB	ADDRESS. HEX LOCATION(00001BB4) IN CSECT(U78F0) LENGTH(2) 528 531 534 540 605 611 852 1271 1664
807	IOMOD	ADDRESS. HEX LOCATION(00001BB6) IN CSECT(U78F0) LENGTH(2) 600 606 988 990 992
435	LGSEC	ADDRESS. HEX LOCATION(00001A28) IN CSECT(U78F0) LENGTH(2) 485 487 490 497 994 1037 1167 1210 1211
920	LINE1	ADDRESS. HEX LOCATION(00001C8A) IN CSECT(U78F0) LENGTH(40) 891
1450	LOG	ADDRESS. HEX LOCATION(0000229E) IN CSECT(U78F0) LENGTH(4) 1418 1434
1462	LOG1	ADDRESS. HEX LOCATION(000022E2) IN CSECT(U78F0) LENGTH(4) 1450
160	LSTIO	ADDRESS. HEX LOCATION(00001922) IN CSECT(U78F0) LENGTH(2) 609 856
137	MI	ABSOLUTE. HEX VALUE(00000020) 768
61	MSG	ADDRESS. HEX LOCATION(00001834) IN CSECT(U78F0) LENGTH(38) 891
87	MSGWTR1	ADDRESS. HEX LOCATION(000018F0) IN CSECT(U78F0) LENGTH(2) 92
894	MVBUF	ADDRESS. HEX LOCATION(00001C16) IN CSECT(U78F0) LENGTH(2) 898 901
1566	NEXTA	ADDRESS. HEX LOCATION(000023E2) IN CSECT(U78F0) LENGTH(2) 1086 1136 1517 1534
149	NG	ABSOLUTE. HEX VALUE(0000002C) 771
144	NI	ABSOLUTE. HEX VALUE(00000027) 628
1231	ONSKS	ADDRESS. HEX LOCATION(000020F0) IN CSECT(U78F0) LENGTH(4) 1225
102	OPTN1	ADDRESS. HEX LOCATION(00001916) IN CSECT(U78F0) LENGTH(2) 712 752 966
125	OPTN3	ADDRESS. HEX LOCATION(0000191A) IN CSECT(U78F0) LENGTH(2) 799 847
206	OUT	ABSOLUTE. HEX VALUE(00000000) 83 90 96 1803 1812 1814 1824 1828
207	OUTIN	ABSOLUTE. HEX VALUE(00000001) 955
436	PHYSC	ADDRESS. HEX LOCATION(00001A2A) IN CSECT(U78F0) LENGTH(2) 492 494 499 1199 1200 1247
40	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(U78F0) LENGTH(4) 81 902
934	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0) 902

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1620	PLRTN	ADDRESS. HEX LOCATION(0000245E) IN CSECT(U78F0) LENGTH(4) 1587
1593	PLUG1	ADDRESS. HEX LOCATION(000023F6) IN CSECT(U78F0) LENGTH(4) 1589
1598	PLUG2	ADDRESS. HEX LOCATION(00002408) IN CSECT(U78F0) LENGTH(2) 1608
1594	PLUG3	ADDRESS. HEX LOCATION(000023FA) IN CSECT(U78F0) LENGTH(4) 1591
1602	PLUG4	ADDRESS. HEX LOCATION(00002410) IN CSECT(U78F0) LENGTH(2) 1599
1621	PLUG5	ADDRESS. HEX LOCATION(00002462) IN CSECT(U78F0) LENGTH(4) 1601
1603	PLUG7	ADDRESS. HEX LOCATION(00002412) IN CSECT(U78F0) LENGTH(6) 1622
1612	PLUG8	ADDRESS. HEX LOCATION(0000243C) IN CSECT(U78F0) LENGTH(6) 1610
1615	PLUG9	ADDRESS. HEX LOCATION(0000244A) IN CSECT(U78F0) LENGTH(6) 1613
218	PREP	ABSOLUTE. HEX VALUE(0000000C) 857
1512	REASG	ADDRESS. HEX LOCATION(0000233E) IN CSECT(U78F0) LENGTH(2) 1510 1555
1841	RETRY	ADDRESS. HEX LOCATION(00002720) IN CSECT(U78F0) LENGTH(40) 1839
225	RICB	ABSOLUTE. HEX VALUE(00000013) 911
215	RID	ABSOLUTE. HEX VALUE(00000009) 987
423	RKDCB	ADDRESS. HEX LOCATION(00001A14) IN CSECT(U78F0) LENGTH(2) 540 1186 1200 1220 1245 1247
333	RSDCB	ADDRESS. HEX LOCATION(00001994) IN CSECT(U78F0) LENGTH(2) 534 1021 1022 1026 1027 1031 1032 1185 1199
3291	RTEST	ADDRESS. HEX LOCATION(00003504) IN CSECT(U78F0) LENGTH(2) 1217 1226 1750 1751 1755 1756 1760 1761
496	RTT01	ADDRESS. HEX LOCATION(00001A68) IN CSECT(U78F0) LENGTH(4) 1638 1658
0	R0	REGISTER. HEX VALUE(00000000) 489 490 491 492 496 497 498 499 1366
0	R1	REGISTER. HEX VALUE(00000001) 1383 1406 1411 1595 1608 1815 1825
0	R2	REGISTER. HEX VALUE(00000002) 79 85 87 896 897 1082 1083 1086 1088
0	R3	REGISTER. HEX VALUE(00000003) 1089 1132 1133 1136 1138 1139 1153 1159 1165
0	R4	REGISTER. HEX VALUE(00000004) 1169 1170 1181 1185 1186 1187 1188 1189 1190
0	R5	REGISTER. HEX VALUE(00000005) 1193 1195 1196 1197 1208 1213 1214 1215 1216
0	R6	REGISTER. HEX VALUE(00000006) 1217 1220 1226 1231 1245 1253 1263 1265 1268
0	R7	REGISTER. HEX VALUE(00000007) 1380 1381 1404 1410 1413 1419 1494 1495 1594
165	SCTID	ADDRESS. HEX LOCATION(00001924) IN CSECT(U78F0) LENGTH(2) 340 352 430 535 542
976	SDD	ABSOLUTE. HEX VALUE(0000001E)

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		983 1058 1093 1117 1154 1191 1289 1314 1363
1345	SDDCY	1776 1805 ABSOLUTE. HEX VALUE(00000002)
1289	SDDFF	1368 ADDRESS. HEX LOCATION(00002192) IN CSECT(U78F0) LENGTH(2)
1344	SDDFL	1036 1151 1765 ABSOLUTE. HEX VALUE(00000005)
1363	SDDGS	1379 ADDRESS. HEX LOCATION(000021FE) IN CSECT(U78F0) LENGTH(2)
1043	SDD1	1040 1045 1769 1774 ADDRESS. HEX LOCATION(00001E96) IN CSECT(U78F0) LENGTH(6)
1165	SDD10	1018 ADDRESS. HEX LOCATION(00002018) IN CSECT(U78F0) LENGTH(2)
1110	SDD11	1162 ADDRESS. HEX LOCATION(00001F7A) IN CSECT(U78F0) LENGTH(2)
1047	SDD12	1074 ADDRESS. HEX LOCATION(00001EA8) IN CSECT(U78F0) LENGTH(2)
1233	SDD13	1042 ADDRESS. HEX LOCATION(000020F6) IN CSECT(U78F0) LENGTH(4)
1158	SDD15	1176 1180 1212 ADDRESS. HEX LOCATION(00001FFC) IN CSECT(U78F0) LENGTH(6)
1219	SDD16	1155 ADDRESS. HEX LOCATION(000020CC) IN CSECT(U78F0) LENGTH(6)
1195	SDD17	1207 ADDRESS. HEX LOCATION(0000206E) IN CSECT(U78F0) LENGTH(4)
1180	SDD2	1192 ADDRESS. HEX LOCATION(0000203A) IN CSECT(U78F0) LENGTH(4)
1176	SDD22	1039 1768 ADDRESS. HEX LOCATION(00002034) IN CSECT(U78F0) LENGTH(4)
1071	SDD3	1171 ADDRESS. HEX LOCATION(00001EF4) IN CSECT(U78F0) LENGTH(6)
1076	SDD4	1048 ADDRESS. HEX LOCATION(00001F06) IN CSECT(U78F0) LENGTH(2)
1093	SDD44	1050 ADDRESS. HEX LOCATION(00001F38) IN CSECT(U78F0) LENGTH(2)
1098	SDD46	1077 1127 ADDRESS. HEX LOCATION(00001F44) IN CSECT(U78F0) LENGTH(2)
1051	SDD5	1087 1092 1096 1137 1142 ADDRESS. HEX LOCATION(00001EB4) IN CSECT(U78F0) LENGTH(2)
1058	SDD55	1072 ADDRESS. HEX LOCATION(00001EC8) IN CSECT(U78F0) LENGTH(2)
1063	SDD56	1052 ADDRESS. HEX LOCATION(00001ED4) IN CSECT(U78F0) LENGTH(6)
1066	SDD6	1057 1061 ADDRESS. HEX LOCATION(00001EE6) IN CSECT(U78F0) LENGTH(4)
1150	SDD7	1109 1125 ADDRESS. HEX LOCATION(00001FE0) IN CSECT(U78F0) LENGTH(4)
1126	SDD77	1044 1773 ADDRESS. HEX LOCATION(00001FAE) IN CSECT(U78F0) LENGTH(2)
1159	SDD8	1075 ADDRESS. HEX LOCATION(00002002) IN CSECT(U78F0) LENGTH(4)
1122	SDD86	1157 1164 ADDRESS. HEX LOCATION(00001F9A) IN CSECT(U78F0) LENGTH(6)
1117	SDD88	1116 1120 ADDRESS. HEX LOCATION(00001F8E) IN CSECT(U78F0) LENGTH(2)
1172	SDD9	1111 ADDRESS. HEX LOCATION(0000202E) IN CSECT(U78F0) LENGTH(4)
1021	SDD99	1150 1160 ADDRESS. HEX LOCATION(00001E3C) IN CSECT(U78F0) LENGTH(6)
1103	SD1	1013 ADDRESS. HEX LOCATION(00001F56) IN CSECT(U78F0) LENGTH(6)
1107	SD2	1099 ADDRESS. HEX LOCATION(00001F6C) IN CSECT(U78F0) LENGTH(6)
1182	SD3	1102 ADDRESS. HEX LOCATION(00002042) IN CSECT(U78F0) LENGTH(6)
1185	SD4	1177 ADDRESS. HEX LOCATION(0000204C) IN CSECT(U78F0) LENGTH(4)
1368	SEQCB	1183 ADDRESS. HEX LOCATION(0000220A) IN CSECT(U78F0) LENGTH(4)
1375	SEQCD	1383 ADDRESS. HEX LOCATION(00002220) IN CSECT(U78F0) LENGTH(4)
1377	SEQCE	1372 ADDRESS. HEX LOCATION(00002226) IN CSECT(U78F0) LENGTH(2)
1384	SEQCI	1374 ADDRESS. HEX LOCATION(0000223E) IN CSECT(U78F0) LENGTH(2)
1401	SEQCL	1364 ADDRESS. HEX LOCATION(00002240) IN CSECT(U78F0) LENGTH(4)
1410	SEQCM	1041 1046 1770 1775 ADDRESS. HEX LOCATION(00002258) IN CSECT(U78F0) LENGTH(4)
1434	SEQCP	1470 ADDRESS. HEX LOCATION(0000228C) IN CSECT(U78F0) LENGTH(2)
1422	SEQCS	1424 1428 ADDRESS. HEX LOCATION(00002270) IN CSECT(U78F0) LENGTH(2)
1466	SEQCV	1412 ADDRESS. HEX LOCATION(000022E6) IN CSECT(U78F0) LENGTH(2)
1467	SEQCW	1414 1439 ADDRESS. HEX LOCATION(000022E8) IN CSECT(U78F0) LENGTH(4)
1472	SEQCX	1421 1426 1430 ADDRESS. HEX LOCATION(000022FA) IN CSECT(U78F0) LENGTH(4)
1587	SETWR	1401 1403 ADDRESS. HEX LOCATION(000023E8) IN CSECT(U78F0) LENGTH(4)
252	SIX	1331 1690 ABSOLUTE. HEX VALUE(00000006)
357	SKDCB	86 ADDRESS. HEX LOCATION(000019B4) IN CSECT(U78F0) LENGTH(2)
		528 997 998 1001 1049 1063 1064 1065 1071 1073 1101 1106 1107 1108 1122 1123 1124 1258 1453 1675 1676 1677 1694 1696 1697 1698 1704 1706 1709 1710 1711 1734 1735 1736 1781 1783
1174	SSIZ	1784 ADDRESS. HEX LOCATION(00002032) IN CSECT(U78F0) LENGTH(2)
216	START	1168 ABSOLUTE. HEX VALUE(0000000A)
1831	STOP2	626 ADDRESS. HEX LOCATION(000026DC) IN CSECT(U78F0) LENGTH(4)
1836	STOP3	1516 ADDRESS. HEX LOCATION(000026EE) IN CSECT(U78F0) LENGTH(4)
1833	STOP4	1648 1662 ADDRESS. HEX LOCATION(000026E4) IN CSECT(U78F0) LENGTH(4)
1529	STPF6	1838 ADDRESS. HEX LOCATION(00002378) IN CSECT(U78F0) LENGTH(2)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
994	STR1	1526 ADDRESS. HEX LOCATION(00001DD4) IN CSECT(U78F0) LENGTH(6)
992	STR2	1236 1240 ADDRESS. HEX LOCATION(00001DCA) IN CSECT(U78F0) LENGTH(6)
1909	ST00	1238 ADDRESS. HEX LOCATION(000027E0) IN CSECT(U78F0) LENGTH(2)
69	SUPSTAT	1271 ADDRESS. HEX LOCATION(000018C4) IN CSECT(U78F0) LENGTH(2)
1083	S44	905 ADDRESS. HEX LOCATION(00001F1C) IN CSECT(U78F0) LENGTH(4)
1088	S4444	1090 ADDRESS. HEX LOCATION(00001F2A) IN CSECT(U78F0) LENGTH(4)
1133	S77	1085 ADDRESS. HEX LOCATION(00001FC4) IN CSECT(U78F0) LENGTH(4)
1138	S7777	1140 ADDRESS. HEX LOCATION(00001FD2) IN CSECT(U78F0) LENGTH(4)
1674	TCC0	1435 ADDRESS. HEX LOCATION(000024D2) IN CSECT(U78F0) LENGTH(6)
1671	TC00	1672 ADDRESS. HEX LOCATION(000024CC) IN CSECT(U78F0) LENGTH(2)
1686	TC01	1105 ADDRESS. HEX LOCATION(00002504) IN CSECT(U78F0) LENGTH(4)
1704	TC02	1703 1716 ADDRESS. HEX LOCATION(00002548) IN CSECT(U78F0) LENGTH(6)
1696	TC03	1693 ADDRESS. HEX LOCATION(00002526) IN CSECT(U78F0) LENGTH(6)
1709	TC04	1705 ADDRESS. HEX LOCATION(0000255C) IN CSECT(U78F0) LENGTH(6)
213	TERM	1707 ABSOLUTE. HEX VALUE(00000007)
1786	TFRFN	960 1845 ADDRESS. HEX LOCATION(00002658) IN CSECT(U78F0) LENGTH(4)
1728	TF00	1728 1782 ADDRESS. HEX LOCATION(0000257E) IN CSECT(U78F0) LENGTH(4)
1736	TF01	1673 ADDRESS. HEX LOCATION(000025A0) IN CSECT(U78F0) LENGTH(6)
1805	TSS1	1785 ADDRESS. HEX LOCATION(00002682) IN CSECT(U78F0) LENGTH(2)
1808	TSS9	1797 ADDRESS. HEX LOCATION(0000268C) IN CSECT(U78F0) LENGTH(6)
1245	TS69H	1806 ADDRESS. HEX LOCATION(0000210C) IN CSECT(U78F0) LENGTH(4)
1254	TS699	1205 ADDRESS. HEX LOCATION(0000212C) IN CSECT(U78F0) LENGTH(2)
1267	TS99	1230 1232 1252 ADDRESS. HEX LOCATION(00002170) IN CSECT(U78F0) LENGTH(6)
1796	TS99U	1255 ADDRESS. HEX LOCATION(0000265C) IN CSECT(U78F0) LENGTH(6)
494	TT303	1695 1708 ADDRESS. HEX LOCATION(00001A60) IN CSECT(U78F0) LENGTH(6)
500	TT304	486 ADDRESS. HEX LOCATION(00001A78) IN CSECT(U78F0) LENGTH(4)
1816	TT69R	484 493 495 ADDRESS. HEX LOCATION(000026AA) IN CSECT(U78F0) LENGTH(6)
1818	TT69S	1825 ADDRESS. HEX LOCATION(000026B2) IN CSECT(U78F0) LENGTH(4)
64	TUMSGWTR	1822 ADDRESS. HEX LOCATION(0000185C) IN CSECT(U78F0) LENGTH(2)
189	TURTN	907 ADDRESS. HEX LOCATION(00001954) IN CSECT(U78F0) LENGTH(2)
65	TUSTATUS	912 965 ADDRESS. HEX LOCATION(0000185E) IN CSECT(U78F0) LENGTH(2)
66	TUWORK	885 ADDRESS. HEX LOCATION(00001860) IN CSECT(U78F0) LENGTH(2)
248	TWO	889 941 ABSOLUTE. HEX VALUE(00000002)
50	TYP78	78 ADDRESS. HEX LOCATION(0000181E) IN CSECT(U78F0) LENGTH(1)
1198	T69LL	958 ADDRESS. HEX LOCATION(0000207A) IN CSECT(U78F0) LENGTH(4)
1211	T69QQ	1194 1218 ADDRESS. HEX LOCATION(000020AE) IN CSECT(U78F0) LENGTH(6)
953	T7895	1269 ADDRESS. HEX LOCATION(00001D68) IN CSECT(U78F0) LENGTH(4)
954	T78951	42 959 ADDRESS. HEX LOCATION(00001D6C) IN CSECT(U78F0) LENGTH(4)
961	T78952	953 964 ADDRESS. HEX LOCATION(00001D86) IN CSECT(U78F0) LENGTH(4)
39	U78F0	959 CSECT. START(00001800) LENGTH(9876) ESDID(1)
971	VTL	39 ABSOLUTE. HEX VALUE(00000019)
1237	VTL1	984 1012 1237 1588 1741 ADDRESS. HEX LOCATION(00002100) IN CSECT(U78F0) LENGTH(2)
1640	WALL	991 ADDRESS. HEX LOCATION(0000247A) IN CSECT(U78F0) LENGTH(2)
1655	WRA	1646 1661 ADDRESS. HEX LOCATION(000024A4) IN CSECT(U78F0) LENGTH(4)
1635	WRALL	1635 ADDRESS. HEX LOCATION(00002468) IN CSECT(U78F0) LENGTH(4)
1649	WRA2	1332 1691 ADDRESS. HEX LOCATION(00002492) IN CSECT(U78F0) LENGTH(2)
1656	WRA4	1644 ADDRESS. HEX LOCATION(000024A8) IN CSECT(U78F0) LENGTH(4)
434	WRPTR	1653 ADDRESS. HEX LOCATION(00001A26) IN CSECT(U78F0) LENGTH(2)
439	WRSID	1156 1158 1161 1163 1193 1196 1206 1209 1219 ADDRESS. HEX LOCATION(00001A30) IN CSECT(U78F0) LENGTH(2)
972	WRT	330 419 ABSOLUTE. HEX VALUE(0000001A)
1325	WRTT	982 1329 1365 1438 1512 ADDRESS. HEX LOCATION(000021D8) IN CSECT(U78F0) LENGTH(4)
1333	WRTT1	1062 1097 1121 1780 ADDRESS. HEX LOCATION(000021F4) IN CSECT(U78F0) LENGTH(4)
2453	WRT00	1325 1327 1330 ADDRESS. HEX LOCATION(00002BA0) IN CSECT(U78F0) LENGTH(2)
2723	WRT1E	1594 1609 1611 1664 ADDRESS. HEX LOCATION(00002D80) IN CSECT(U78F0) LENGTH(2)
2984	WRT3B	1612 1614 ADDRESS. HEX LOCATION(00002F50) IN CSECT(U78F0) LENGTH(2)

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1062	WR00	1615 ADDRESS. HEX LOCATION(00001ED0) IN CSECT(U78F0) LENGTH(4)
1097	WR01	1059 ADDRESS. HEX LOCATION(00001F40) IN CSECT(U78F0) LENGTH(4)
1121	WR02	1094 ADDRESS. HEX LOCATION(00001F96) IN CSECT(U78F0) LENGTH(4)
141	XE	1118 ABSOLUTE. HEX VALUE(00000024) 719 781 1014 1023 1028 1033 1201 1221 1227 1248 1640 1649 1743 1752 1757 1762
139	XI	ABSOLUTE. HEX VALUE(00000022) 625 766
600	XIO	ADDRESS. HEX LOCATION(00001AB2) IN CSECT(U78F0) LENGTH(4) 529 532 538 545 1276 1665
781	XIOCK	ADDRESS. HEX LOCATION(00001B7A) IN CSECT(U78F0) LENGTH(2) 635
788	XIOCO	ADDRESS. HEX LOCATION(00001B8C) IN CSECT(U78F0) LENGTH(2) 786
605	XIOCS	ADDRESS. HEX LOCATION(00001ABC) IN CSECT(U78F0) LENGTH(6) 797
790	XIOCV	ADDRESS. HEX LOCATION(00001B90) IN CSECT(U78F0) LENGTH(2) 784
799	XIOCX	ADDRESS. HEX LOCATION(00001BAA) IN CSECT(U78F0) LENGTH(4) 791
674	XIOER	ADDRESS. HEX LOCATION(00001B18) IN CSECT(U78F0) LENGTH(2) 805
609	XIO1	ADDRESS. HEX LOCATION(00001ACC) IN CSECT(U78F0) LENGTH(4) 601
622	XIO2	ADDRESS. HEX LOCATION(00001AF2) IN CSECT(U78F0) LENGTH(2) 608
634	XIO8	ADDRESS. HEX LOCATION(00001B06) IN CSECT(U78F0) LENGTH(2) 639
433	ZERO0	ADDRESS. HEX LOCATION(00001A24) IN CSECT(U78F0) LENGTH(2) 485

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