

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
3 COPY LOG5000 ** MAP EC HISTORY **
4 *****
5 *
6 * ** PREREQUISITES **
7 *
8 * NONE
9 *
10 *****
11 *
12 * ** MODIFICATIONS **
13 *
14 * CHANGE MADE TO CORRECT 4952 PROBLEM
15 *
16 *****
17 *
18 * ** REA'S INCORPORATED **
19 *
20 * NONE
21 *
22 *****
23 *
24 * ** SPECIAL INSTRUCTIONS **
25 *
26 * NONE
27 *
28 *****
29 *
30 * ** E. C. HISTORY **
31 *
32 * DATE 01OCT76 DATE 02DEC76 DATE 15MAR77 DATE 10JUN77
33 * E.C. 578468 E.C. 578469 E.C. 578714 E.C. 578625
34 *
35 * DATE 20JAN78 DATE 06NOV78 DATE 15JAN79 DATE
36 * E.C. 755331 E.C. 755551 E.C. 375147 E.C.
37 *
38 *****
40 I5000 START X'2500' START ADDRESS OF ALL 'I' TYPE PROG
41 @QUES EQU X'0100' EQUATED VALUE FOR MDI STATEMENT
42 @FIXT EQU X'0101' EQUATED VALUE FOR MDI STATEMENT
43 @STOP EQU X'0102' EQUATED VALUE FOR MDI STATEMENT
44 @GOTO EQU X'0200' EQUATED VALUE FOR MDI STATEMENT
45 @CALL EQU X'0201' EQUATED VALUE FOR MDI STATEMENT
46 @INPT EQU X'0300' EQUATED VALUE FOR MDI STATEMENT
47 @QUXX EQU X'0400' EQUATED VALUE FOR MDI STATEMENT
48 @TUXX EQU X'0500' EQUATED VALUE FOR MDI STATEMENT
49 @VLD EQU X'0600' EQUATED VALUE FOR MDI STATEMENT
50 @O EQU X'0000' EQUATE FOR EQUAL
51 @E EQU X'0004' EQUATE FOR NOT EQUAL
52 @H EQU X'0008' EQUATE FOR HIGH
53 @NH EQU X'000C' EQUATE FOR NOT HIGH
54 @L EQU X'0010' EQUATE FOR LOW
55 @NL EQU X'0014' EQUATE FOR NOT LOW
56 @LT EQU X'0010' EQUATE FOR LESS THAN
57 @LE EQU X'000C' EQUATE FOR LESS THAN OR EQUAL TO
58 @GT EQU X'0008' EQUATE FOR GREATER THAN
59 @GE EQU X'0014' EQUATE FOR GREATER THAN OR EQUAL TO
60 @ON EQU X'0200' EQUATE FOR ON
61 @OF EQU X'0202' EQUATE FOR OFF
62 @M EQU X'0204' EQUATE FOR MIXED
63 @EBC EQU X'0000' EQUATE FOR EBCDIC DATA TRANSFER
64 @HEX EQU X'0001' EQUATE FOR HEX DATA TRANSFER
65 @XTRNL EQU X'0001' EQUATE FOR EXTERNAL REFERENCE
66 @INTRNL EQU X'0000' EQUATE FOR INTERNAL REFERENCE
67 @PARM EQU X'0000' EQUATE INDICATING PARAMETER
68 @DA EQU X'0001' EQUATE FOR DEVICE ADDRESS
69 @UA EQU X'0002' EQUATE FOR UNIT ADDRESS
70 @DUMMY EQU X'0000' DUMMY EQUATE
71 @PID EQU *-X'0D00' ADDRESS OF MDI HEADER
72 @PTYPE EQU *-X'22CF' ADDRESS OF PROCESSOR TYPE FIELD
73 @EPNUM EQU PID*X'000C' ADDRESS OF DECIMAL STEP NUMBER
74 @OPW1 EQU PID*X'000E' ADDRESS OF OPTION WORD ONE
75 @OPW2 EQU PID*X'0010' ADDRESS OF OPTION WORD TWO
76 @TSTATUS EQU PID*X'0018' ADDRESS OF TU STATUS WORD
77 @TWORK EQU PID*X'001A' ADDRESS OF TU WORK AREA
78 @TUPARM1 EQU PID*X'009A' ADDRESS OF PARM 1 POINTER
79 @TUPARM2 EQU PID*X'009C' ADDRESS OF PARM 2 POINTER
80 @TUPARM3 EQU PID*X'009E' ADDRESS OF PARM 3 POINTER
81 @TUPARM4 EQU PID*X'00A0' ADDRESS OF PARM 4 POINTER
82 @TUPARM5 EQU PID*X'00A2' ADDRESS OF PARM 5 POINTER
83 @TUPARM6 EQU PID*X'00A4' ADDRESS OF PARM 6 POINTER
84 @TUPARM7 EQU PID*X'00A6' ADDRESS OF PARM 7 POINTER
85 @TUPARM8 EQU PID*X'00A8' ADDRESS OF PARM 8 POINTER
86 @TUPARM9 EQU PID*X'00AA' ADDRESS OF PARM 9 POINTER
87 @TUPARM10 EQU PID*X'00AC' ADDRESS OF PARM 10 POINTER
88 @TUPARM11 EQU PID*X'00AE' ADDRESS OF PARM 11 POINTER
89 @TUPARM12 EQU PID*X'00B0' ADDRESS OF PARM 12 POINTER
90 @TUPARM13 EQU PID*X'00B2' ADDRESS OF PARM 13 POINTER
91 @TUPARM14 EQU PID*X'00B4' ADDRESS OF PARM 14 POINTER
92 @TUPARM15 EQU PID*X'00B6' ADDRESS OF PARM 15 POINTER
93 @TUPARM16 EQU PID*X'00B8' ADDRESS OF PARM 16 POINTER
94 @TUMSGWTR EQU PID*X'00BA' ADDRESS OF -> TO COMMON MSG WRITER
95 @TUA EQU PID*X'00BE' ADDRESS OF UNIT ADDRESS IN EBC
96 @TUDA EQU PID*X'00C0' ADDRESS OF DEVICE ADDRESS IN EBC
97 @TUBUFF EQU PID*X'00C2' ADDRESS OF LAST USED WORD IN MAP
98 @TULAST EQU PID*X'00C4' ADDRESS OF LAST ADDRESSABLE WORD
99 @TURSULN EQU PID*X'00C6' ADDRESS OF LENGTH OF TU RESULTS
100 @TURSUL EQU PID*X'00C8' ADDRESS OF TU RESULTS FIELD
101 @MAPNAME EQU PID*X'00FC' ADDRESS OF MAP NAME FIELD IN HEX
102 @TINPT EQU PID*X'0148' ADDRESS OF \$INPT DATA
103 @PARMARA EQU PID*X'016E' ADDRESS OF \$INPT INPUT AREA
104 @DCADD1 EQU PID*X'01B8' MDI POINTER
105 @DCADD2 EQU PID*X'01BA' MDI POINTER
106 @DCADD3 EQU PID*X'01C4' ADDRESS OF MDI STATUS
107 @DEVADD EQU PID*X'01D0' ADDRESS OF DEVICE ADDRESS TABLE 0
108 @DEVADD1 EQU PID*X'01D4' ADDRESS OF DEVICE ADDRESS TABLE 1
109 @DEVADD2 EQU PID*X'01E8' ADDRESS OF DEVICE ADDRESS TABLE 2
110 @DEVADD3 EQU PID*X'01EE' ADDRESS OF DEVICE ADDRESS TABLE 3
111 @DEVADD4 EQU PID*X'01F8' ADDRESS OF DEVICE ADDRESS TABLE 4
112 @DEVADD5 EQU PID*X'0202' ADDRESS OF DEVICE ADDRESS TABLE 5
113 @DEVADD6 EQU PID*X'020C' ADDRESS OF DEVICE ADDRESS TABLE 6
114 @DEVADD7 EQU PID*X'0216' ADDRESS OF DEVICE ADDRESS TABLE 7
115 @PRINT OFF

LOCTR OBJECT TEXT STMT SOURCE STATEMENT
002500 2534 201 DC A(ENTPT) POINT TO MAP ENTRY POINT TABLE
202 *****
203 *****
204 **
205 ** THE FOLLOWING TABLES ARE USED BY THE MDI SUPERVISOR (D3C00)
206 ** TO LOCATE THE CORRECT RULE TO INVOKE, TO OBTAIN THE PROPER
207 ** PARAMETERS TO PASS TO THE TU'S AND TO PASS TO THE OPERATOR
208 ** THE INDICATED MESSAGE(S). THERE ARE FOUR TABLES USED FOR THIS
209 ** PURPOSE THEY ARE:
210 **
211 ** STEP AND RULE ADDRESS TABLE
212 ** THIS TABLE GIVES THE ADDRESS OF THE RULE TO INVOKE AND
213 ** THE ASSOCIATED STEP DECIMAL STEP NUMBER OF THAT RULE.
214 ** ENTRIES ARE AS FOLLOWS:
215 ** A) AN ADDRESS OF THE RULE DC START AREA
216 ** B) THE STEP NUMBER IN DECIMAL
217 ** C) AN EQUATE FOR THE STEP NUMBER
218 **
219 ** RULE INFORMATION TABLE
220 ** THIS TABLE CONTAINS THE REQUIRED INFORMATION TO EXECUTE
221 ** THE APPROPRIATE RULE UNDER MDI. EACH RULE HAS ITS OWN
222 ** UNIQUELY DEFINED AREA INDICATED BELOW. END OF TABLE IS
223 ** INDICATED WITH A X'0000' FOR THE RULE EQUATE.
224 **
225 ** \$QUES
226 ** A) RULE EQUATE X'0100'
227 ** B) ADDRESS OF THE YES LEG RULE
228 **
229 ** \$FIXT
230 ** A) RULE EQUATE X'0101'
231 ** B) ADDRESS OF MESSAGE TO PRINT
232 **
233 ** \$STOP
234 ** A) RULE EQUATE X'0102'
235 ** B) ADDRESS OF MESSAGE
236 **
237 ** \$GOTO
238 ** A) RULE EQUATE X'0200'
239 ** B) ADDRESS OF MESSAGE
240 ** C) NAME OF MAP TO GO TO
241 ** D) ENTRY POINT WITHIN GO TO MAP TO USE
242 ** E) INDICATOR FOR EXTERNAL OR INTERNAL REFERENCE
243 **
244 ** \$CALL
245 ** A) RULE EQUATE X'0201'
246 ** B) ADDRESS OF MESSAGE
247 ** C) NAME OF MAP TO CALL
248 ** D) ENTRY POINT WITHIN CALLED MAP TO USE
249 ** E) INDICATOR FOR EXTERNAL OR INTERNAL REFERENCE
250 **
251 ** \$INPT
252 ** A) RULE EQUATE X'0300'
253 ** B) INPUT TYPE (EBCDIC OR HEX)
254 ** C) ADDRESS OF YES LEG RULE
255 ** D) DESTINATION LOCATION OF INPUT DATA
256 ** E) LENGTH OF INPUT DATA
257 ** F) LOWER LIMIT OF GOOD DATA
258 ** G) HIGHER LIMIT OF GOOD DATA
259 **
260 ** \$QUXX
261 ** A) RULE EQUATE X'0400'
262 ** B) ADDRESS OF YES LEG RULE
263 ** C) TU BRANCH TO ADDRESS (INITIAL)
264 ** D) TU BRANCH TO ADDRESS (SECONDARY)
265 ** E) LENGTH OF PARAMETER IN BYTES
266 ** F) PARAMETER TO PASS TO TU
267 ** G) STORE ADDRESS FOR FIRST 8 WORDS OF PARAMETER
268 **
269 ** \$TUXX
270 ** A) RULE EQUATE X'0500'
271 ** B) ADDRESS OF YES LEG RULE
272 ** C) TU BRANCH TO ADDRESS
273 ** D) TYPE OF COMPARE TO MAKE ON RESULTS
274 ** E) LENGTH OF COMPARED RESULTS
275 ** F) MASK FIELD FOR COMPARE
276 ** G) LENGTH OF PARAMETER IN BYTES
277 ** H) PARAMETER TO PASS TO THE TU
278 ** I) STORE ADDRESS FOR FIRST 8 WORDS OF PARAMETER
279 **
280 ** \$NVLD
281 ** A) RULE EQUATE X'0600'
282 **
283 ** ENTRY POINT TABLE
284 ** THIS TABLE CONTAINS THE ENTRY POINTS WITHIN THE MAP THAT
285 ** THE MAP CAN BE ENTERED FROM THESE ENTRY POINTS ARE
286 ** REFERENCED BY NAME AND ADDRESS. ENTRIES ARE AS FOLLOWS:
287 **
288 ** A) NAME OF ENTRY POINT
289 ** B) ADDRESS OF ENTRY POINT RULE TABLE
290 **
291 ** THE ENTRY POINT TABLE END IS INDICATED BY A X'0000'
292 **
293 ** MESSAGE TABLE
294 ** THIS TABLE CONTAINS THE MESSAGE PASSED TO THE OPERATOR
295 ** VIA THE MDI SUPERVISOR. THE TABLE IS AS FOLLOWS:
296 **
297 ** A) EQUATE FOR START OF MESSAGE BLOCK
298 ** B) NUMBER OF LINES OF MESSAGE
299 ** C) LENGTH OF FOLLOWING LINE
300 ** D) FIRST LINE OF MESSAGE
301 ** E) LENGTH OF FOLLOWING LINE
302 ** F) SECOND LINE OF MESSAGE
303 ** G) ETC.
304 **
305 **
306 **
307 *****
308 *****

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311 *****
312 *****
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316 *****
317 *****
318 DC AL2(N00001)
319 DC XL2'0001'
320 EQN0001 EQU 0001
321 DC AL2(N00002)
322 DC XL2'0002'
323 EQN0002 EQU 0002
324 DC AL2(N00003)
325 DC XL2'0003'
326 EQN0003 EQU 0003
327 DC AL2(DUMMY)
328 *****
329 *****
330 **
331 **
332 *****
333 *****
334 *****
335 N00001 $PUX T5000,02,C000,EQ,QT=(Q00074),YES=N00003,CT=(C00060), X
336 N00001 DC A(@TUX)
337 DC AL2(N00003)
338 DC A(T5000)
339 DC AL2(EQ)
340 DC AL2(02)
341 DC X'0000'
342 ALGN WORD
343 DC AL2(0)
344 DC C'AA'
345 ALGN WORD
346 DC AL2(PARMARA)
347 N00002 $CALL TYPE=XTRNL,MAP=5002,EP=A,FT=(F00076),GTO=(5002,A)
348 N00002 DC A(@CALL)
349 DC A(F00076)
350 DC CL4'5002'
351 DC CL2'A'
352 DC AL2(XTRNL)
353 N00003 $STOP FT=(F00080)
354 N00003 DC A(@STOP)
355 DC A(F00080)
356 DC AL2(DUMMY)
357 EQU *
358 *****
359 *****
360 **
361 **
362 **
363 *****
364 *****
365 ENTPT EP=A,STEP=00001
366 DC CL2'A'
367 DC A(N00001)
368 DC AL2(DUMMY)
369 *****
370 *****
371 **
372 **
373 **
374 *****
375 *****
376 F00076 EQU *
377 DC AL2(0001)
378 DC A(0040)
379 DC C'0040' TIMER DIAGNOSTIC DID NOT RUN CORRECTLY. '
380 F00080 EQU *
381 DC AL2(0001)
382 DC A(0018)
383 DC C'0018' GOOD END THIS MAP. '
384 COPY CONEQU
385 *****
386 *
387 *
388 *
389 *****
390 OUT EQU 0 OUT SVC
391 OUTIN EQU 1 OUTIN SVC
392 IDLE EQU 2 IDLE SVC
393 IDLE5 EQU 3 IDLE SVC - INDEPENDENT OF CPU TYPE
394 CHNGE EQU 4 CHANGE LEVEL SVC
395 PGCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
396 EXIT EQU 6 EXIT SVC
397 TERM EQU 7 TERMINATE SVC
398 RESET EQU 8 RESET DEVICE SVC
399 RID EQU 9 READ ID SVC
400 START EQU 10 START CYCLE STEAL SVC
401 STCSS EQU 11 START CYCLE STEAL STATUS SVC
402 PREP EQU 12 PREPARE DEVICE SVC
403 READ0 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
404 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
405 RSTAT EQU 15 READ STATUS SVC
406 WRIT0 EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
407 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
408 CTRL EQU 18 CONTROL SVC
409 RICB EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
410 CICB EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
411 HIO EQU 21 HALT ALL I/O
412 REOSD EQU 22 REQUEST USE OF DCP DISK SVC
413 RELSD EQU 23 RELEASE USE OF DCP DISK SVC
414 HALT EQU 24 HALT SVC
415 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
416 HTOH EQU 26 HEX TO EBCDIC SVC (STRING)
417 ATOH EQU 27 ASCII TO HEX SVC (STRING)
418 HTOA EQU 28 HEX TO ASCII SVC (STRING)
419 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
420 ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
421 READI EQU 31 READ DATA SETS FOR MDI/UTIL
422 WRITI EQU 32 WRITE DATA SETS FOR UTIL
423 *****
424 *
425 *

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426 *
427 *
428 *****
429 PLUS EQU C'+1 PLUS CHAR
430 MINUS EQU C'-1 MINUS CHAR
431 ZERO EQU 0
432 ONE EQU 1
433 TWO EQU 2
434 THREE EQU 3
435 FOUR EQU 4
436 FIVE EQU 5
437 SIX EQU 6
438 SEVEN EQU 7
439 EIGHT EQU 8
440 NINE EQU 9
441 TEN EQU 10
442 ELEVN EQU 11
443 TWELV EQU 12
444 THRTN EQU 13
445 FIVTN EQU 15
446 SIXTN EQU 16
447 THRY2 EQU 32
448 THRY4 EQU 64
449 SIXT4 EQU 64
450 ONE28 EQU 128
451 TW056 EQU 256
452 ONEK EQU 1024
453 TWOK EQU 2048
454 THREEK EQU 3072
455 FOURK EQU 4096
456 M1 EQU -1
457 M2 EQU -2
458 M3 EQU -3
459 M4 EQU -4
460 *****
461 *****
462 *****
463 *
464 *
465 *
466 *
467 *****
468 BS0 EQU 0
469 BS1 EQU 1
470 BS2 EQU 2
471 BS3 EQU 3
472 BS4 EQU 4
473 BS5 EQU 5
474 BS6 EQU 6
475 BS7 EQU 7
476 BS8 EQU 8
477 BS9 EQU 9
478 BS10 EQU 10
479 BS11 EQU 11
480 BS12 EQU 12
481 BS13 EQU 13
482 BS14 EQU 14
483 BS15 EQU 15
484 COPY T5000
485 T5000 EQU *
486 *****
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517 *****
518 *****
519 *****
520 MVWZ TURESUL,R1 ZERO STATUS WORD
521 B T0 BRANCH TO START TEST
522 *
523 *
524 *****
525 * NAME- DELAY SUBROUTINE
526 *
527 * PURPOSE- PROVIDE ANY NUMBER OF 10 USEC DELAYS
528 * BEFORE RETURNING TO THE CALLER. 'DEL1'
529 * CAN BE CHECKED ANYTIME FROM A HIGHER
530 * LEVEL TO DETERMINE WHAT THE REMAINING
531 * COUNT IS.
532 *
533 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDR.
534 * R5 MUST CONTAIN THE HEX NUMBER OF 10
535 * MICROSEC. DELAYS (MINUS 1).
536 *
537 * RETURN- TO ADDRESS CONTAINED IN R6.
538 *
539 *****
540 DEL EQU *
541 MVW R5,DEL1 SET COUNT IN STORAGE
542 MVW R6,DEL2+2 SET UP RETURN
543 DELI AWI -1,DEL1 **
544 DEL2 BZ *-1,DEL1 RETURN ** 10 USEC-

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002596 5000 545 NOP , * PER-
002598 5000 546 NOP * PASS. - ON 4955
00259A 50F8 547 DELX LOOP **
00259C 0000 548 DEL1 DC A(*-*)
00259E 0000 549 SI DC A(*-*)
0025A0 0023 550 AL DC X'0023' 4953
0025A2 0025 551 CL DC X'0025' 4955

554 * NAME- MACHINE CHECK SUBROUTINE
555 *
556 * PURPOSE- TO FIELD MACHINE CHECKS WHEN THEY OCCUR,
557 * TERMINATE THE PROGRAM, PRINT A MESSAGE, AND
558 * RETURN TO THE DCP.
559 *
560 * CALLING SEQUENCE- VIA MACHINE CHECK XFER VECTOR.
561 *
562 * RETURN- EVENTUALLY TO THE DCP.

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00268C 9028 2724 26F0 661 MVD BADDR,IRC PUT EBCDIC DATA IN MSSG
002692 4020 272C 26D8 662 MVA EA,PARM3 PUT DATA ADDR IN CNTL BLOCK
002698 601A 663 SVC HTOE PUT TO EBCDIC
00269A 9028 2724 26FE 664 MVD BADDR,EEA PUT EBCDIC DATA IN MSSG
0026A0 4020 272C 18C8 665 MVA TURESUL,PARM3 PUT DATA ADDR IN CNTL BLOCK
0026A6 601A 666 SVC HTOE HEX TO EBCDIC
0026A8 9028 2724 270C 667 MVD BADDR,STAT PUT EBCDIC DATA IN MSSG
0026AE 4724 2760 668 MVA RCMMSG,R7
0026B2 4424 180E 669 MVA OPWD1,R4
0026B6 4C05 670 TBT (R4,5)
0026B8 120D 671 JN RINTE
0026BA 6C08 26DA 672 MVW IRTN,R4 JUMP IF NO PRINT IS ON
0026BE 6B08 26D8 673 MVA EA,R3 PUT INTERNAL RTN/CKPT IN R4
0026C2 7B61 FPPC 674 AWI -4,R3 * R3 HAS THE ADDRESS THAT THE
0026C6 4224 0000 675 MVWI 0,R2 * FAILURE WAS DETECTED AT.
0026CA 6908 180C 676 MVW PID+12,R1 ZERO R2
0026CE 6808 180A 677 MVW OTD+10,R0 PUT ADDR. & TYPE CODE IN R1
0026D2 6000 678 SVC HTOE PUT STEP NUMBER IN R0
0026D4 6802 0000 679 RINTE B PRINT MESSAGE

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0027C2 6F04 27DC 778 BCC 7,PERTN
0027C6 6F03 2A44 779 BAL E,R7
0027CA 4020 259E 27E4 781 STPE1 EQU MVA IDCB1,SI
0027D0 680C 27E4 782 IO IDCB1
0027D4 6F04 27DC 783 BCC 7,PERTN
0027D8 6F03 2A44 784 BAL E,R7
0027DC 68C2 0000 785 PERTN B (R6)
0027E0 6600 786 *
0027E2 0000 787 IDCBO DC X'6600'
0027E4 6600 788 DC A(*-*)
0027E6 0000 789 IDCBI DC X'6600'
790 DC A(*-*)
791 *****
792 * NAME- INTERRUPT RTNS FOR TIMER ACCURACY TESTS
793 *
794 * PURPOSE SERVICE INTERRUPTS AND CHECK FOR CC3
795 *
796 * CALLING SEQUENCE-SET UP DBBS BEFORE USING RTN. PUT THE
797 * ADDRESS (AIO FOR EVEN AND AI1 FOR ODD) IN
798 * THE APPROPRIATE DBBS. 'DELS0' - EVEN AND
799 * 'DELS1' ODD MUST BE INITIALIZED TO -1
800 * BEFORE USING. 'SBCL0' AND 'SBCL1' MUST BE
801 * SET TO THE S/B CURRENT LEVEL VALUE FOR
802 * INTERRUPTS.
803 *
804 * RETURN- TO A LOWER PENDING LEVEL.
805 *****
806 AIO EQU *
807 BCC 3,AIO1
808 BAL E,R7
809 AI01 MVB DEL1,DELS0
810 BAL STOP0,R6
811 CHW IDO,R7
812 JE AIO2
813 BAL E,R7
814 AI02 MVB SBCL0,R5
815 BAL COPY,R6
816 LEX
817 * SBCL0 DC A(*-*)
818 * SBCL1 DC A(*-*)
819 * DELS0 DC A(*-*)
820 * DELS1 DC A(*-*)
821 * ADIRN DC A(AIO)
822 * ADIRN DC A(AI1)
823 * ADIRN DC A(ADIRN)
824 * ADIRN DC A(ADIRN+2)
825 *
826 AI1 EQU *
827 BCC 3,AI11
828 BAL E,R7
829 AI11 MVB DEL1,DELS1
830 BAL STOP1,R6
831 CHW AIO1,R7
832 JE AI12
833 BAL E,R7
834 AI12 MVB SBCL1,R5
835 BAL COPY,R6
836 LEX
837 *****
838 * NAME- SET DEVICE ADDRESS SUBROUTINE
839 *
840 * PURPOSE- SET UP ALL TIMER DBBS USED IN PROGRAM
841 * WITH THE TIMER DEVICE ADDRESSES.
842 *
843 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
844 * R5 MUST CONTAIN THE RIGHT JUSTIFIED
845 * EVEN TIMER DEVICE ADDRESS.
846 *
847 * RETURN- TO ADDRESS CONTAINED IN R6.
848 *****
849 SETT EQU *
850 MVB R5,C10+1
851 MVB R5,STO+1
852 MVB R5,RS0+1
853 MVB R5,RV0+1
854 MVB R5,RM0+1
855 MVB R5,RD0+1
856 MVB R5,SETV0+1
857 MVB R5,IPREP+1
858 MVB R5,STAP+1
859 MVB R5,ID0+1
860 MVB R5,IDCB0+1
861 MVB R5,P13+1
862 *
863 AWI 1,R5
864 MVB R5,ST1+1
865 MVB R5,ST1+1
866 MVB R5,RV1+1
867 MVB R5,RM1+1
868 MVB R5,RD1+1
869 MVB R5,SETV1+1
870 MVB R5,STP+1
871 MVB R5,ID1+1
872 MVB R5,IDCB1+1
873 MVB R5,P10+1
874 * ADD MVB INSTS. AS REQUIRED
875 *
876 F10 DC X'2000'
877 F11 DC A(*-*)
878 F12 DC X'002B'
879 F13 DC X'2000'
880 F14 DC A(*-*)
881 X'FF00' DC X'FF00'
882 Z'FFFF' DC X'FFFF'
883 *****
884 * NAME- COMMAND REJECT SUBROUTINE
885 *

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
896 * PURPOSE VERIFY THAT ALL MODIFIERS WITHIN THE
897 * LIMITS WILL CMD REJECT FROM BOTH TIMERS.
898 *
899 * CALLING SEQUENCE-R5 MUST CONTAIN THE RIGHT JUSTIFIED
900 * LAST MODIFIER.
901 * R6 MUST CONTAIN THE RETURN ADDRESS.
902 * R7 MUST CONTAIN THE RIGHT JUSTIFIED FIRST
903 * MODIFIER TO CHECK.
904 *
905 * RETURN- IF ALL SPECIFIED VALUES CMD. REJECT
906 * CORRECTLY RETURN TO ADDRESS IN R6
907 * OCCURS.
908 *****
909 CHDR EQU *
910 MVB R7,C10
911 MVA C10,SI
912 IO C10
913 BCC 3,C5
914 BAL E,R7
915 C5 EQU *
916 CB C10,R5
917 BZ (R6)
918 MVB C10,R7
919 AWI X'0001',R7
920 CHDR
921 *
922 C10 DC X'0000'
923 DC A(*-*)
924 *****
925 * NAME- STOP SUBROUTINE
926 *
927 * PURPOSE- ISSUE STOP COMMANDS TO TIMERS.
928 *
929 * CALLING SEQUENCE-R6 MUST CONTAIN RETURN ADDRESS.
930 * USE ENTRY POINT 'STOP0' FOR EVEN,
931 * AND 'STOP1' FOR ODD.
932 *
933 * RETURN- TO ADDRESS CONTAINED IN R6.
934 *****
935 STOPO EQU *
936 MVA STO,SI
937 IO STO
938 BCC 7,STOPR
939 BAL E,R7
940 STOP1 EQU *
941 MVA ST1,SI
942 IO ST1
943 BCC 7,STOPR
944 BAL E,R7
945 STOPR B (R6)
946 *
947 STO DC X'6E00'
948 DC A(*-*)
949 ST1 DC X'6E00'
950 DC A(*-*)
951 *****
952 * NAME- DEVICE RESET ROUTINE
953 *
954 * PURPOSE- ISSUE RESET COMMANDS TO TIMERS.
955 *
956 * CALLING SEQUENCE-R6 MUST CONTAIN RETURN ADDRESS.
957 * USE ENTRY POINT 'RSET0' FOR EVEN,
958 * AND 'RSET1' FOR ODD.
959 *
960 * RETURN- TO ADDRESS CONTAINED IN R6.
961 *****
962 RSET0 EQU *
963 MVA RS0,SI
964 IO RS0
965 BCC 7,RSETR
966 BAL E,R7
967 RSET1 EQU *
968 MVA RS1,SI
969 IO RS1
970 BCC 7,RSETR
971 BAL E,R7
972 RSETR B (R6)
973 *
974 RS0 DC X'6F00'
975 DC A(*-*)
976 RS1 DC X'6F00'
977 DC A(*-*)
978 *****
979 * NAME- READ TIMER VAUE SUBROUTINE
980 *
981 * PURPOSE- READ TIMER VALUE REGISTERS
982 *
983 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
984 * USE ENTRY POINT 'RDM0' FOR EVEN, AND,
985 * 'RDM1' FOR ODD.
986 *
987 * RETURN- TO ADDRESS CONTAINED IN R6 - R5 WILL
988 * CONTAIN THE DATA THAT WAS READ.
989 *****
990 RDVO EQU *
991 MVA RVO,SI
992 IO RVO
993 BCC 7,RDVO0
994 BAL E,R7
995 RDVO0 MVB R(R2,R5
996 B (R6)
997 *
998 RDV1 EQU *
999 MVA RV1,SI
1000 IO RV1
1001 BCC 7,RDV11
1002 BAL E,R7
1003 RDV11 MVB RV3,R5
1004 B (R6)
1005 *
1006 RV0 DC X'2400'
1007 DC A(*-*)
1008 RV1 DC X'2400'
1009 DC A(*-*)
1010 RV2 DC X'2400'
1011 DC A(*-*)
1012 *****
1013 * NAME- COMMAND REJECT SUBROUTINE
1014 *

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1014 * NAME- READ TIMER MODE SUBROUTINE
1015 * PURPOSE- READ TIMER MODE REGISTERS.
1016 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
1017 * USE ENTRY POINT 'RDNO' FOR EVEN, AND 'RDH1' FOR ODD.
1018 * RETURN- TO ADDRESS CONTAINED IN R6 - R5 WILL CONTAIN THE DATA THAT WAS READ.
1019 *****
1020 EQU *
1021 RDM0 MVA RM0,SI
1022 IO RM0
1023 BCC 7,RDM00
1024 BAL E,R7
1025 RDM00 MVW RM2,R5
1026 B R2
1027 RDH1 MVW RM1,SI
1028 IO RM1
1029 BCC 7,RDM11
1030 BAL E,R7
1031 RDM11 MVW RM3,R5
1032 B R3
1033 RMO DC X'2500'
1034 RM2 DC A(*-*)
1035 RM1 DC X'2500'
1036 RM3 DC A(*-*)
1037 *****
1038 * NAME- SET MODE SUBROUTINE
1039 * PURPOSE- WRITE TO THE TIMER MODE REGISTERS.
1040 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
1041 * R5 MUST CONTAIN THE DATA TO BE WRITTEN.
1042 * USE ENTRY POINT 'SETMO' FOR EVEN, AND 'SETM1' FOR ODD.
1043 * RETURN- TO ADDRESS CONTAINED IN R6.
1044 *****
1045 SETMO EQU *
1046 MVW R5,RD2
1047 MVA RD0,SI
1048 IO RD0
1049 BCC 7,SETMR
1050 BAL E,R7
1051 SETM1 EQU *
1052 MVW R5,RD3
1053 MVA RD1,SI
1054 IO RD1
1055 BCC 7,SETMR
1056 BAL E,R7
1057 SETMR B (R6)
1058 *
1059 RD0 DC X'6500'
1060 RD2 DC A(*-*)
1061 RD1 DC X'6500'
1062 RD3 DC A(*-*)
1063 *****
1064 * NAME- SET TIMER VALUE SUBROUTINE
1065 * PURPOSE- WRITE TO TIMER VALUE REGISTERS.
1066 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
1067 * R5 MUST CONTAIN THE DATA TO BE WRITTEN.
1068 * USE ENTRY POINT 'SETO' FOR EVEN, AND 'SET1' FOR ODD.
1069 * RETURN- TO ADDRESS CONTAINED IN R6.
1070 *****
1071 SETO EQU *
1072 MVW R5,SETV2
1073 MVA SETV0,SI
1074 IO SETV0
1075 BCC 7,SETR
1076 BAL E,R7
1077 SET1 EQU *
1078 MVW R5,SETV3
1079 MVA SETV1,SI
1080 IO SETV1
1081 BCC 7,SETR
1082 BAL E,R7
1083 SETR B (R6)
1084 *
1085 SETV0 DC X'6400'
1086 SETV2 DC A(*-*)
1087 SETV1 DC X'6400'
1088 SETV3 DC A(*-*)
1089 *****
1090 * NAME- PREPARE TIMERS SUBROUTINE
1091 * PURPOSE- ISSUE PREPARE COMMAND TO TIMERS.
1092 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
1093 * R5 MUST CONTAIN THE PREPARE DATA WORD.
1094 * RETURN- TO ADDRESS CONTAINED IN R6.
1095 *****
1096 PRE EQU *
1097 MVW R5,PREPD
1098 MVA IPREP,SI
1099 IO IPREP
1100 BCC 7,PRE1
1101 BAL E,R7
1102 PRE1 B (R6)
1103 *
1104 IPREP DC X'6000'
1105 PREPD DC A(*-*)
1106 *****
1107 * NAME- ERROR DETECTED SUBROUTINE
1108 * PURPOSE- HANDLE PROGRAM DETECTED ERRORS

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
1132 * CALLING SEQUENCE-R7 MUST CONTAIN THE ADDRESS THAT THE ERROR WAS DETECTED AT.
1133 * RETURN- EVENTUALLY TO THE DCP
1134 *****
1135 EQU *
1136 MVW R7,EA
1137 AWI -4,EA
1138 B BBB
1139 *****
1140 * NAME- COPY CURRENT LEVEL SUBROUTINE
1141 * PURPOSE- TO VERIFY THAT CPU IS ON THE SPECIFIED LEVEL.
1142 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
1143 * R5 MUST CONTAIN THE RIGHT JUSTIFIED S/B CURRENT LEVEL DATA.
1144 * RETURN- OCCURS TO ADDRESS CONTAINED IN R6 ONLY IF CURRENT LEVEL IS THE SAME AS IS SPECIFIED IN R5.
1145 *****
1146 COPY EQU *
1147 CPCL R7
1148 CW R5,R7
1149 JE COPY1
1150 BAL E,R7
1151 (R6)
1152 *****
1153 * NAME- TIMER INTERRUPT TEST SUBROUTINE
1154 * PURPOSE- THE ADDRESSED TIMER IS STARTED APERIODIC WITH THE VALUE SET TO 0. CONDITION CODES ARE CHECKED AT OIO AND INTERRUPT TIMES. STOPS OCCUR IF CC IS INCORRECT.
1155 * CALLING SEQUENCE-R6 MUST CONTAIN THE RETURN ADDRESS.
1156 * TIMERS MUST BE PREPARED, AND MODE MUST BE SET. THE TRANSFER VECTORS MUST BE ALREADY SET UP. THESE ROUTINES CAN BE USED ON ANY LEVEL.
1157 * RETURN- TO ADDRESS CONTAINED IN R6.
1158 *****
1159 ITES0 EQU *
1160 MVW R6,ITESR+2
1161 SLL 16,R5
1162 BAL SET0,R6
1163 MVA IT3,INTRO
1164 STAP,SI
1165 IO STAP
1166 BCC 7,IT2
1167 BAL E,R7
1168 *
1169 IT2 LEX ,
1170 *
1171 IT3 EQU *-*
1172 ITESR B *-*
1173 STAP DC X'6700'
1174 DC A(*-*)
1175 *
1176 ITES1 EQU *
1177 MVW R6,ITER+2
1178 SLL 16,R5
1179 BAL SET1,R6
1180 MVA IT7,INTR1
1181 STP,SI
1182 IO STP
1183 BCC 7,IT6
1184 BAL E,R7
1185 *
1186 IT6 LEX ,
1187 *
1188 IT7 EQU *-*
1189 ITER B *-*
1190 *
1191 STP DC X'6700'
1192 DC A(*-*)
1193 XFFFF DC X'FFFF'
1194 XFFFC DC X'FFFC'
1195 EVENM DC A(*-*)
1196 EVENV DC A(*-*)
1197 ODDM DC A(*-*)
1198 ODDV DC A(*-*)
1199 *****
1200 * NAME- TIMER INTERRUPT SERVICE SUBROUTINES.
1201 * PURPOSE- TO SERVICE TIMER INTERRUPTS, CHECK COND. CODES, AND CHECK INTERRUPT IDS.
1202 * CALLING SEQUENCE-PLACE ADDRESSES OF THESE ROUTINES ('INT0 FOR EVEN AND 'INT1' FOR ODD) IN THE APPROPRIATE TRANSFER VECTORS. BEFORE CAUSING AN INTERRUPT PUT THE RETURN ADDRESS IN 'INTRO' FOR EVEN, 'INTR1' FOR ODD. IF THESE POSITIONS ARE ZERO WHEN AN INTERRUPT OCCURS, NO INTERRUPT IS EXPECTED, AND THAT IS AN ERROR CONDITION. THE POSITIONS ARE ZEROED JUST BEFORE RETURN OCCURS.
1203 * RETURN- TO ADDRESS CONTAINED IN 'INTRO' OR 'INTR1'.
1204 *****
1205 INTO EQU *
1206 BCC 3,INT00
1207 BAL E,R7
1208 STOP0,R6
1209 INT00 BAL IDO,R7
1210 INT0A CW IDO1
1211 JE INTO1
1212 BAL E,R7
1213 INTO1 TWI -1,INTRO
1214 JWI INT02
1215 BAL E,R7

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002AE6	CF25 2AFE	1249	INTO2 MVWZ	INTRO,R7
002AEA	68E2 0000	1250	B	ZERO INT EXP FLAG
002AEE	0000	1251	INTRO DC	RETURN
002AF0	2AF4	1252	AINTO DC	
002AF2	2AF6	1253	A(AINTO)	
002AF4	2AC4	1254	A(AINTO)	
002AF6	2B02	1255	A(AINTO)	
002AF8	0000 0000	1256	ISAV DC	
002AFC	0000	1257	IDO DC	
002AFE	0000	1258	ID1 DC	
002B00	0000	1259	SAVA DC	
002B02		1261	INT1 EQU *	
002B02	6B04 2B0A	1262	BCC	3,INT10
002B06	6F03 2A44	1263	BAL	E,R7
002B0A	6E03 28F0	1264	INT10 BAL	STOP1,R6
002B0E	CF24 2AFE	1265	INT1A CW	ID1,R7
002B12	1002	1266	JE	INT11
002B14	6F03 2A44	1267	BAL	E,R7
002B18	402B 2B2C	1268	INT11 TWI	-1,INTR1
002B1E	1802	1269	JNZ	INT12
002B20	6F03 2A44	1270	BAL	E,R7
002B24	CF25 2B2C	1271	INT12 MVWZ	INTR1,R7
002B28	68E2 0000	1272	B	(R7)
002B2C	0000	1273	INTR1 DC	A(*-*)
002B2E	2B32	1274	CODE4 DC	A(OC4)
002B30	2B3A	1276	DC	A(OC4)
002B32		1277	*	
002B32	6C04 2ACC	1278	EC4 EQU *	
002B36	6F03 2A44	1279	BCC	4,INT00
002B3A		1280	BAL	E,R7
002B3A	6C04 2B0A	1281	OC4 EQU *	
002B3E	6F03 2A44	1282	BCC	4,INT10
002B42	2B46	1283	BAL	E,R7
002B44	2B4E	1284	DC	A(E4)
002B46		1285	DC	A(O4)
002B46	6C04 2AD0	1286	CC4 DC	A(E4)
002B46	6F03 2A44	1287	DC	A(O4)
002B4E		1288	*	
002B4E	6C04 2B0E	1289	E4 EQU *	
002B52	6F03 2A44	1290	BCC	4,INT0A
002B52		1291	BAL	E,R7
002B56	2B62	1292	*O4 EQU *	
002B58	2B6A	1293	BCC	4,INT1A
002B5A	2B72	1294	BAL	E,R7
002B5C	2B7A	1295	DC	A(E6)
002B5E	2B82	1296	DC	A(O6)
002B60	2B8A	1300	CC7 DC	A(E7)
002B62		1301	DC	A(O7)
002B62	6A04 2AD0	1302	E2 EQU *	
002B66	6F03 2A44	1303	BCC	2,INT0A
002B66		1304	BAL	E,R7
002B6A	6A04 2B0E	1305	O2 EQU *	
002B6E	6F03 2A44	1306	BCC	2,INT1A
002B6E		1307	BAL	E,R7
002B72	6E04 2AD0	1308	E6 EQU *	
002B76	6F03 2A44	1309	BCC	6,INT0A
002B76		1310	BAL	E,R7
002B7A	6E04 2B0E	1311	O6 EQU *	
002B7E	6F03 2A44	1312	BCC	6,INT1A
002B7E		1313	BAL	E,R7
002B82	6F04 2AD0	1314	E7 EQU *	
002B86	6F03 2A44	1315	BCC	7,INT0A
002B86		1316	BAL	E,R7
002B8A	6F04 2B0E	1317	O7 EQU *	
002B8E	6F03 2A44	1318	BCC	7,INT1A
002B8E		1319	BAL	E,R7
002B92	2BBA	1320	AEN DC	A(EN)
002B94	0000	1321	ST	X'0000'
002B96	FFFF	1322	DC	X'FFFF'
002B98	AAAA	1323	DC	X'AAAA'
002B9A	5555	1324	DC	X'5555'
002B9C	8001	1325	DC	X'8001'
002B9E	4002	1326	DC	X'4002'
002BA0	2004	1327	DC	X'2004'
002BA2	1008	1328	DC	X'1008'
002BA4	0180	1329	DC	X'0180'
002BA6	0240	1330	DC	X'0240'
002BA8	0420	1331	DC	X'0420'
002BAA	0810	1332	DC	X'0810'
002BAC	0101	1333	DC	X'0101'
002BAE	0202	1334	DC	X'0202'
002BB0	0404	1335	DC	X'0404'
002BB2	0808	1336	DC	X'0808'
002BB4	1010	1337	DC	X'1010'
002BB6	2020	1338	DC	X'2020'
002BB8	4040	1339	DC	X'4040'
002BBA	8080	1340	DC	X'8080'
002BBC	2BDC	1341	AENN DC	A(ENN)
002BBE	0000	1342	STT	X'0000'
002BC0	0001	1343	DC	X'0001'
002BC2	0002	1344	DC	X'0002'
002BC4	0003	1345	DC	X'0003'
002BC6	0004	1346	DC	X'0004'
002BC8	0005	1347	DC	X'0005'
002BCA	0006	1348	DC	X'0006'
002BCC	0007	1349	DC	X'0007'
002BCE	0008	1350	DC	X'0008'

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
002BD0	0009	1363	DC	X'0009'
002BD2	000A	1364	DC	X'000A'
002BD4	000B	1365	DC	X'000B'
002BD6	000C	1366	DC	X'000C'
002BD8	000E	1367	DC	X'000E'
002BDA	000F	1368	DC	X'000F'
002BDC	0000	1369	ENN DC	X'0000'
002BDE	0001	1370	*	
002BE0	00000000	1371	X0001 DC	X'0001'
002BE4	0000	1372	LLSB DC	2A(*-*)
002BE6	00000000	1373	DC	X'0000'
002BEA	0090	1374	DLLSB DC	2A(*-*)
002BEC	0000000000000000	1375	DC	X'0090'
002BFC	0000000000000000	1376	DC	8A(*-*)
002BFC		1377	DC	30A(*-*)
002C38	2C40	1378	*	
002C3A	2C6C	1379	CC3 DC	A(EC3)
002C3C	0000	1380	DC	A(OC3)
002C3E	0000	1381	EC3Z DC	A(*-*)
002C3E		1382	OC3Z DC	A(*-*)
002C40		1383	*	
002C40	6B04 2C48	1384	EC3 EQU *	
002C44	6F03 2A44	1385	BCC	3,EC3A
002C48	6E03 28DE	1386	BAL	E,R7
002C4C	402B 2AE E FFFF	1387	EC3A BAL	STOP1,R6
002C52	1802	1388	TWI	-1,INTR1
002C54	6F03 2A44	1389	JNZ	EC3B
002C58	4020 2AE 0000	1390	BAL	E,R7
002C5E	8828 2C3E 2C3C	1391	MVWI	X'0000',INTR0
002C64	4029 2C3C 0001	1392	MVW	OC3Z,EC3Z
002C6A	6100	1393	AWI	1,EC3Z
002C6A		1394	LEX	,
002C6C		1395	*	
002C6C	6B04 2C74	1396	OC3 EQU *	
002C70	6F03 2A44	1397	BCC	3,OC3A
002C74	6E03 28F0	1398	BAL	E,R7
002C78	402B 2B2C	1399	OC3A BAL	STOP1,R6
002C7E	1802	1400	TWI	-1,INTR1
002C80	6F03 2A44	1401	JNZ	OC3B
002C84	8828 0000 2B2C	1402	BAL	E,R7
002C8A	8828 2C3E 2C3E	1403	MVWI	X'0000',INTR1
002C90	4029 2C3E 0001	1404	MVW	OC3Z,OC3Z
002C96	6100	1405	AWI	1,OC3Z
002C96		1406	LEX	,
002C98	4020 2C3C 0000	1407	*	
002C9E	4020 2C3E 0000	1408	SETUP MVWI	X'0000',EC3Z
002CA4	4020 2AE 1000	1409	MVWI	X'0000',OC3Z
002CA8	4020 2B2C 1000	1410	MVWI	X'1000',INTR0
002CB0	68C2 0000	1411	MVWI	X'10C0',INTR1
002CB0		1412	B	(R6)
002CB4	6301	1413	*****	*****
002CB6	4020 26DA 0000	1414	*****	*****
002CBC	6F0D 2654	1415	*****	*****
002CC0	4124 18C8	1416	*****	*****
002CC4	4940	1417	*****	*****
002CC6	1211	1418	*****	*****
002CC8	C520 19D0	1419	*****	*****
002CCC	7DA0 00FE	1420	*****	*****
002CD0	7584	1421	*****	*****
002CD2	6E03 2844	1422	*****	*****
002CD6	3481	1423	*****	*****
002CD8	3481 0030	1424	*****	*****
002CDC	6C0D 2B00	1425	*****	*****
002CE0	9408 2712	1426	*****	*****
002CE4	8828 000A 271E	1427	*****	*****
002CEA	4020 000A 25A4	1428	*****	*****
002CF0	6908 2B00	1429	*****	*****
002CF4	9060 2716	1430	*****	*****
002CF8	6F03 278A	1431	*****	*****
002CFC	6201	1432	*****	*****
002CFE		1433	*****	*****
002D00	4029 26DA 0001	1434	*****	*****
002D04	4020 259E 28AA	1435	*****	*****
002D08	680C 28AA	1436	*****	*****
002D0C	6F04 2D16	1437	*****	*****
002D10	6F03 2A44	1438	*****	*****
002D14	4020 259E 28A4	1439	*****	*****
002D18	680C 28A4	1440	*****	*****
002D1C	6F04 2D28	1441	*****	*****
002D20	6F03 2A44	1442	*****	*****
002D24		1443	*****	*****
002D28	882B 28AC 28A8	1444	*****	*****
002D2E	1002	1445	*****	*****
002D30	6F03 2A44	1446	*****	*****
002D34	882B 28A6 28A8	1447	*****	*****
002D3A	1002	1448	*****	*****

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT, and assembly code. Includes instructions like MVWI, BAL, JNE, JLT, and comments such as 'TIMER DIDNT INTERRUPT' and 'SET # OF COUNTS FOR 'DEL''.

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT, and assembly code. Includes instructions like MVWI, BAL, JNE, JLT, and comments such as 'TIMER DIDNT INTERRUPT' and 'SET # OF CNTS FOR 'DEL''.

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT, and assembly code. Includes instructions like MVWI, BAL, SELB, EQU, J, and comments such as 'SET ODD'S VALUE AGAIN' and 'VERIFY LEVEL 1'.

Table with columns: LOCTR, OBJECT TEXT, STMT, SOURCE STATEMENT, and assembly code. Includes instructions like BAL, MVWI, SELB, EQU, J, and comments such as 'SET UP INT RTNS' and 'VERIFY LEVEL 1'.

DECLARED	NAME	ATTRIBUTES AND REFERENCES
45	@CALL	ABSOLUTE. HEX VALUE (00000201)
43	@STOP	ABSOLUTE. HEX VALUE (00000102)
48	@TUXX	ABSOLUTE. HEX VALUE (00000500)
828	ADIR	ADDRESS. HEX LOCATION (0000281A) IN CSECT (I5000) LENGTH (2)
826	ADIRN	ADDRESS. HEX LOCATION (00002816) IN CSECT (I5000) LENGTH (2)
1331	AEN	ADDRESS. HEX LOCATION (00002B92) IN CSECT (I5000) LENGTH (2)
1353	AENN	ADDRESS. HEX LOCATION (00002BBC) IN CSECT (I5000) LENGTH (2)
1252	AINT	ADDRESS. HEX LOCATION (00002AF0) IN CSECT (I5000) LENGTH (2)
1254	AINT0	ADDRESS. HEX LOCATION (00002AF4) IN CSECT (I5000) LENGTH (2)
1255	AINT1	ADDRESS. HEX LOCATION (00002AF6) IN CSECT (I5000) LENGTH (2)
810	AI0	ADDRESS. HEX LOCATION (000027E8) IN CSECT (I5000) LENGTH (1)
813	AI01	ADDRESS. HEX LOCATION (000027F0) IN CSECT (I5000) LENGTH (6)
818	AI02	ADDRESS. HEX LOCATION (00002804) IN CSECT (I5000) LENGTH (4)
831	AI1	ADDRESS. HEX LOCATION (0000281E) IN CSECT (I5000) LENGTH (1)
834	AI11	ADDRESS. HEX LOCATION (00002826) IN CSECT (I5000) LENGTH (6)
839	AI12	ADDRESS. HEX LOCATION (0000283A) IN CSECT (I5000) LENGTH (4)
550	AL	ADDRESS. HEX LOCATION (000025A0) IN CSECT (I5000) LENGTH (2)
703	BADDR	ADDRESS. HEX LOCATION (00002724) IN CSECT (I5000) LENGTH (2)
607	BBB	ADDRESS. HEX LOCATION (0000260E) IN CSECT (I5000) LENGTH (1)
2652	B61A	ADDRESS. HEX LOCATION (00003990) IN CSECT (I5000) LENGTH (1)
2740	B66A	ADDRESS. HEX LOCATION (00003AA4) IN CSECT (I5000) LENGTH (4)
2817	B71A	ADDRESS. HEX LOCATION (00003BA4) IN CSECT (I5000) LENGTH (4)
2823	B72A	ADDRESS. HEX LOCATION (00003BBE) IN CSECT (I5000) LENGTH (4)
2826	B73A	ADDRESS. HEX LOCATION (00003BC8) IN CSECT (I5000) LENGTH (4)
2919	B79AA	ADDRESS. HEX LOCATION (00003D12) IN CSECT (I5000) LENGTH (4)
2922	B79BA	ADDRESS. HEX LOCATION (00003D1C) IN CSECT (I5000) LENGTH (4)
2913	B79X	ADDRESS. HEX LOCATION (00003CF8) IN CSECT (I5000) LENGTH (4)
1297	CC2	ADDRESS. HEX LOCATION (00002B56) IN CSECT (I5000) LENGTH (2)
1393	CC3	ADDRESS. HEX LOCATION (00002C38) IN CSECT (I5000) LENGTH (2)
627	CEND	ADDRESS. HEX LOCATION (00002634) IN CSECT (I5000) LENGTH (1)
637	CEND1	ADDRESS. HEX LOCATION (00002656) IN CSECT (I5000) LENGTH (2)
712	CKPT	ADDRESS. HEX LOCATION (00002746) IN CSECT (I5000) LENGTH (2)
551	CL	ADDRESS. HEX LOCATION (000025A2) IN CSECT (I5000) LENGTH (2)
909	CMDR	ADDRESS. HEX LOCATION (000028B2) IN CSECT (I5000) LENGTH (1)
1157	COPY	ADDRESS. HEX LOCATION (00002A52) IN CSECT (I5000) LENGTH (1)
1162	COPY1	ADDRESS. HEX LOCATION (00002A5C) IN CSECT (I5000) LENGTH (4)
922	C10	ADDRESS. HEX LOCATION (000028DA) IN CSECT (I5000) LENGTH (2)
915	C5	ADDRESS. HEX LOCATION (000028C8) IN CSECT (I5000) LENGTH (1)
704	DADDR	ADDRESS. HEX LOCATION (00002728) IN CSECT (I5000) LENGTH (2)
540	DEL	ADDRESS. HEX LOCATION (00002584) IN CSECT (I5000) LENGTH (1)
824	DELS0	ADDRESS. HEX LOCATION (00002812) IN CSECT (I5000) LENGTH (2)
825	DELS1	ADDRESS. HEX LOCATION (00002814) IN CSECT (I5000) LENGTH (2)
543	DELX	ADDRESS. HEX LOCATION (0000258C) IN CSECT (I5000) LENGTH (6)
548	DEL1	ADDRESS. HEX LOCATION (0000259C) IN CSECT (I5000) LENGTH (2)
544	DEL2	ADDRESS. HEX LOCATION (00002592) IN CSECT (I5000) LENGTH (4)
108	DEVADD	ADDRESS. HEX LOCATION (000019D0) IN CSECT (I5000) LENGTH (1)
1374	DLLSB	ADDRESS. HEX LOCATION (00002BE6) IN CSECT (I5000) LENGTH (2)
70	DUMMY	ABSOLUTE. HEX VALUE (00000000)
694	DUMVE	ADDRESS. HEX LOCATION (00002716) IN CSECT (I5000) LENGTH (2)

DECLARED	NAME	ATTRIBUTES AND REFERENCES
1138	E	ADDRESS. HEX LOCATION (00002A44) IN CSECT (I5000) LENGTH (1)
681	EA	ADDRESS. HEX LOCATION (000026D8) IN CSECT (I5000) LENGTH (2)
1398	EC3	ADDRESS. HEX LOCATION (00002C40) IN CSECT (I5000) LENGTH (1)
1401	EC3A	ADDRESS. HEX LOCATION (00002C48) IN CSECT (I5000) LENGTH (4)
1405	EC3B	ADDRESS. HEX LOCATION (00002C58) IN CSECT (I5000) LENGTH (6)
1395	EC3Z	ADDRESS. HEX LOCATION (00002C3C) IN CSECT (I5000) LENGTH (2)
1278	EC4	ADDRESS. HEX LOCATION (00002B32) IN CSECT (I5000) LENGTH (1)
688	EEA	ADDRESS. HEX LOCATION (000026FE) IN CSECT (I5000) LENGTH (2)
641	EEND	ADDRESS. HEX LOCATION (00002658) IN CSECT (I5000) LENGTH (1)
1351	EN	ADDRESS. HEX LOCATION (00002BBA) IN CSECT (I5000) LENGTH (2)
1369	ENN	ADDRESS. HEX LOCATION (00002BDC) IN CSECT (I5000) LENGTH (2)
357	ENTPT	ADDRESS. HEX LOCATION (00002534) IN CSECT (I5000) LENGTH (1)
50	EQ	ABSOLUTE. HEX VALUE (00000000)
647	ERTN	ADDRESS. HEX LOCATION (00002666) IN CSECT (I5000) LENGTH (1)
1216	EVENM	ADDRESS. HEX LOCATION (00002ABC) IN CSECT (I5000) LENGTH (2)
1217	EVENV	ADDRESS. HEX LOCATION (00002ABE) IN CSECT (I5000) LENGTH (2)
396	EXIT	ABSOLUTE. HEX VALUE (00000006)
1457	E1	ADDRESS. HEX LOCATION (00002CEA) IN CSECT (I5000) LENGTH (6)
1306	E2	ADDRESS. HEX LOCATION (00002B62) IN CSECT (I5000) LENGTH (1)
1469	E3X	ADDRESS. HEX LOCATION (00002D16) IN CSECT (I5000) LENGTH (6)
1289	E4	ADDRESS. HEX LOCATION (00002B46) IN CSECT (I5000) LENGTH (1)
1473	E4X	ADDRESS. HEX LOCATION (00002D28) IN CSECT (I5000) LENGTH (1)
1477	E5X	ADDRESS. HEX LOCATION (00002D34) IN CSECT (I5000) LENGTH (6)
1314	E6	ADDRESS. HEX LOCATION (00002B72) IN CSECT (I5000) LENGTH (1)
1480	E6X	ADDRESS. HEX LOCATION (00002D40) IN CSECT (I5000) LENGTH (1)
1322	E7	ADDRESS. HEX LOCATION (00002B82) IN CSECT (I5000) LENGTH (1)
376	F00076	ADDRESS. HEX LOCATION (0000253A) IN CSECT (I5000) LENGTH (1)
380	F00080	ADDRESS. HEX LOCATION (00002566) IN CSECT (I5000) LENGTH (1)
885	F10	ADDRESS. HEX LOCATION (000028A4) IN CSECT (I5000) LENGTH (2)
886	F11	ADDRESS. HEX LOCATION (000028A6) IN CSECT (I5000) LENGTH (2)
887	F12	ADDRESS. HEX LOCATION (000028A8) IN CSECT (I5000) LENGTH (2)
888	F13	ADDRESS. HEX LOCATION (000028AA) IN CSECT (I5000) LENGTH (2)
889	F14	ADDRESS. HEX LOCATION (000028AC) IN CSECT (I5000) LENGTH (2)
623	GEND	ADDRESS. HEX LOCATION (00002628) IN CSECT (I5000) LENGTH (1)
636	GOBCK	ADDRESS. HEX LOCATION (00002652) IN CSECT (I5000) LENGTH (4)
416	H0E	ABSOLUTE. HEX VALUE (0000001A)
716	IAR	ADDRESS. HEX LOCATION (0000275A) IN CSECT (I5000) LENGTH (2)
697	IDCB	ADDRESS. HEX LOCATION (0000271A) IN CSECT (I5000) LENGTH (2)
787	IDCB0	ADDRESS. HEX LOCATION (000027E0) IN CSECT (I5000) LENGTH (2)
789	IDCB1	ADDRESS. HEX LOCATION (000027F4) IN CSECT (I5000) LENGTH (2)
1257	IDO	ADDRESS. HEX LOCATION (00002AFC) IN CSECT (I5000) LENGTH (2)
1258	ID1	ADDRESS. HEX LOCATION (00002AFE) IN CSECT (I5000) LENGTH (2)
656	INTER	ADDRESS. HEX LOCATION (0000267C) IN CSECT (I5000) LENGTH (1)
1251	INTRO	ADDRESS. HEX LOCATION (00002AEE) IN CSECT (I5000) LENGTH (2)
1273	INTR1	ADDRESS. HEX LOCATION (00002B2C) IN CSECT (I5000) LENGTH (2)
1239	INT0	ADDRESS. HEX LOCATION (00002AC4) IN CSECT (I5000) LENGTH (1)
1243	INT0A	ADDRESS. HEX LOCATION (00002ADC) IN CSECT (I5000) LENGTH (4)

DECLARED	NAME	ATTRIBUTES AND REFERENCES
1242	INT00	ADDRESS. HEX LOCATION(00002ACC) IN CSECT(I5000) LENGTH(4) 1240 1279
1246	INT01	ADDRESS. HEX LOCATION(00002ADA) IN CSECT(I5000) LENGTH(6) 1244
1249	INT02	ADDRESS. HEX LOCATION(00002AE6) IN CSECT(I5000) LENGTH(4) 1247
1261	INT1	ADDRESS. HEX LOCATION(00002B02) IN CSECT(I5000) LENGTH(1) 1255
1265	INT1A	ADDRESS. HEX LOCATION(00002B0E) IN CSECT(I5000) LENGTH(4) 1294 1311 1319 1327
1264	INT10	ADDRESS. HEX LOCATION(00002B0A) IN CSECT(I5000) LENGTH(4) 1262 1283
1268	INT11	ADDRESS. HEX LOCATION(00002B18) IN CSECT(I5000) LENGTH(6) 1266
1271	INT12	ADDRESS. HEX LOCATION(00002B24) IN CSECT(I5000) LENGTH(4) 1269
1125	IPREP	ADDRESS. HEX LOCATION(00002A40) IN CSECT(I5000) LENGTH(2) 864 1119 1120
686	IRC	ADDRESS. HEX LOCATION(000026F0) IN CSECT(I5000) LENGTH(2) 661
682	IRTN	ADDRESS. HEX LOCATION(000026DA) IN CSECT(I5000) LENGTH(2) 658 672 683 1441 1464 1493 1531 1553 1563 1584 1611 1644 1681 1719 1764 1803 1842 1899 1914 1929 1942 1947 1962 1980 2010 2045 2063 2082 2120 2145 2161 2178 2197 2223 2244 2266 2298 2380 2451 2522 2614 2714 2798 2895
1256	ISAV	ADDRESS. HEX LOCATION(00002AF8) IN CSECT(I5000) LENGTH(2) 1721 1971 2307
1210	ITER	ADDRESS. HEX LOCATION(00002ABC) IN CSECT(I5000) LENGTH(4) 1198
1193	ITESR	ADDRESS. HEX LOCATION(00002A84) IN CSECT(I5000) LENGTH(4) 1181
1180	ITESO	ADDRESS. HEX LOCATION(00002A60) IN CSECT(I5000) LENGTH(1) 1729 1741 1747 1756 1766 1780 1786 1795 1810 1819 1825 1834 1849 1858 1867 1873
1197	ITES1	ADDRESS. HEX LOCATION(00002A8C) IN CSECT(I5000) LENGTH(1) 1732 1738 1750 1759 1771 1777 1789 1798 1807 1816 1828 1837 1846 1858 1864 1876
1190	IT2	ADDRESS. HEX LOCATION(00002A82) IN CSECT(I5000) LENGTH(2) 1187
1192	IT3	ADDRESS. HEX LOCATION(00002A84) IN CSECT(I5000) LENGTH(1) 1184
1207	IT6	ADDRESS. HEX LOCATION(00002AAE) IN CSECT(I5000) LENGTH(2) 1204
1209	IT7	ADDRESS. HEX LOCATION(00002AB0) IN CSECT(I5000) LENGTH(1) 1201
40	I5000	CSECT. START(00002500) LENGTH(6486) ESDID(1) 40
1372	LLSB	ADDRESS. HEX LOCATION(00002BEO) IN CSECT(I5000) LENGTH(2) 632 634 732 734 753 755 1974 1976 2074 2076 2146 2148 2207 2209 2301 2303 2589 2591 2640 2642 2662 2664 2681 2683 2708 2709 2728 2730 2749 2751 2766 2768 2792 2793 2809 2811 2833 2835 2856 2858 2889 2890 2905 2907 2928 2930 2951 2953 2983 2984 2986
751	LVO	ADDRESS. HEX LOCATION(0000278A) IN CSECT(I5000) LENGTH(1) 1460 2009 2278
756	LVOA	ADDRESS. HEX LOCATION(0000279C) IN CSECT(I5000) LENGTH(4) 753
762	LWOR	ADDRESS. HEX LOCATION(000027B4) IN CSECT(I5000) LENGTH(4) 752
565	MK	ADDRESS. HEX LOCATION(000025A4) IN CSECT(I5000) LENGTH(1) 1457
709	MKMSG	ADDRESS. HEX LOCATION(00002732) IN CSECT(I5000) LENGTH(10) 702
336	N00001	ADDRESS. HEX LOCATION(00002510) IN CSECT(I5000) LENGTH(2) 318 367
348	N00002	ADDRESS. HEX LOCATION(00002522) IN CSECT(I5000) LENGTH(2) 321
354	N00003	ADDRESS. HEX LOCATION(0000252E) IN CSECT(I5000) LENGTH(2) 324 337
1411	OC3	ADDRESS. HEX LOCATION(00002C6C) IN CSECT(I5000) LENGTH(1) 1394
1414	OC3A	ADDRESS. HEX LOCATION(00002C74) IN CSECT(I5000) LENGTH(4) 1412
1418	OC3B	ADDRESS. HEX LOCATION(00002C84) IN CSECT(I5000) LENGTH(6) 1416
1396	OC3Z	ADDRESS. HEX LOCATION(00002C3E) IN CSECT(I5000) LENGTH(2) 1406 1419 1420 1424 2704 2784 2884 2975
1282	OC4	ADDRESS. HEX LOCATION(00002B3A) IN CSECT(I5000) LENGTH(1) 1276
1218	ODDM	ADDRESS. HEX LOCATION(00002AC0) IN CSECT(I5000) LENGTH(2) 1568 1594
1219	ODDV	ADDRESS. HEX LOCATION(00002AC2) IN CSECT(I5000) LENGTH(2) 1565 1599 1628
730	OFF	ADDRESS. HEX LOCATION(00002762) IN CSECT(I5000) LENGTH(1) 612 625
740	OFFR	ADDRESS. HEX LOCATION(00002786) IN CSECT(I5000) LENGTH(4) 731 732
75	OPWD1	ADDRESS. HEX LOCATION(0000180E) IN CSECT(I5000) LENGTH(1) 669
650	ORTN	ADDRESS. HEX LOCATION(0000266E) IN CSECT(I5000) LENGTH(1) 651 698
390	OUT	ABSOLUTE. HEX VALUE(00000000) 593 678
1310	O2	ADDRESS. HEX LOCATION(00002B6A) IN CSECT(I5000) LENGTH(1) 1298
1293	O4	ADDRESS. HEX LOCATION(00002B4E) IN CSECT(I5000) LENGTH(1) 1287
1318	O6	ADDRESS. HEX LOCATION(00002B7A) IN CSECT(I5000) LENGTH(1) 1301
1326	O7	ADDRESS. HEX LOCATION(00002B8A) IN CSECT(I5000) LENGTH(1) 1304
104	PARMARA	ADDRESS. HEX LOCATION(0000196E) IN CSECT(I5000) LENGTH(1) 346
702	PARM1	ADDRESS. HEX LOCATION(00002722) IN CSECT(I5000) LENGTH(2) 591
705	PARM2	ADDRESS. HEX LOCATION(0000272A) IN CSECT(I5000) LENGTH(2) 573 659
706	PARM3	ADDRESS. HEX LOCATION(0000272C) IN CSECT(I5000) LENGTH(2) 572 578 583 658 662 665

DECLARED	NAME	ATTRIBUTES AND REFERENCES
785	PERTN	ADDRESS. HEX LOCATION(000027DC) IN CSECT(I5000) LENGTH(4) 778 783
72	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(I5000) LENGTH(1) 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 577 578 582 583 676 677
1117	PRE	ADDRESS. HEX LOCATION(00002A26) IN CSECT(I5000) LENGTH(1) 1724 1737 1746 1755 1776 1785 1794 1815 1824 1833 1854 1863 1872 1984 2086 2168 2191 2216 2228 2300
1126	PREPD	ADDRESS. HEX LOCATION(00002A42) IN CSECT(I5000) LENGTH(2) 1118
1123	PRE1	ADDRESS. HEX LOCATION(00002A3C) IN CSECT(I5000) LENGTH(4) 1121
714	PSW	ADDRESS. HEX LOCATION(00002750) IN CSECT(I5000) LENGTH(2) 575
73	PTYPE	ADDRESS. HEX LOCATION(00000232) IN CSECT(I5000) LENGTH(1) 2319 2321 2347 2349 2389 2391 2419 2421 2460 2462 2490 2492 2531 2533 2561 2563 2631 2633 2719 2721 2802 2804 2899 2901
685	RCMS	ADDRESS. HEX LOCATION(000026DE) IN CSECT(I5000) LENGTH(18) 718
718	RCMSG	ADDRESS. HEX LOCATION(00002760) IN CSECT(I5000) LENGTH(2) 668
1025	RDM0	ADDRESS. HEX LOCATION(0000297A) IN CSECT(I5000) LENGTH(1) 1559 1588 1622 1690 2054
1030	RDM00	ADDRESS. HEX LOCATION(0000298C) IN CSECT(I5000) LENGTH(4) 1028
1032	RDM1	ADDRESS. HEX LOCATION(00002994) IN CSECT(I5000) LENGTH(1) 1567 1593 1612 1695 2129
1037	RDM11	ADDRESS. HEX LOCATION(000029A6) IN CSECT(I5000) LENGTH(4) 1035
993	RDVO	ADDRESS. HEX LOCATION(0000293E) IN CSECT(I5000) LENGTH(1) 1556 1603 1617 1653 1915 1930 2053
998	RDV00	ADDRESS. HEX LOCATION(00002950) IN CSECT(I5000) LENGTH(4) 996
1000	RDV1	ADDRESS. HEX LOCATION(00002958) IN CSECT(I5000) LENGTH(1) 1564 1598 1627 1658 1948 1963 2128
1005	RDV11	ADDRESS. HEX LOCATION(0000296A) IN CSECT(I5000) LENGTH(4) 1003
1071	RD0	ADDRESS. HEX LOCATION(000029E6) IN CSECT(I5000) LENGTH(2) 862 1059 1060 2028 2029
1073	RD1	ADDRESS. HEX LOCATION(000029EA) IN CSECT(I5000) LENGTH(2) 875 1065 1066 2102 2103
1072	RD2	ADDRESS. HEX LOCATION(000029E8) IN CSECT(I5000) LENGTH(2) 1058
1074	RD3	ADDRESS. HEX LOCATION(000029EC) IN CSECT(I5000) LENGTH(2) 1064
679	RINTE	ADDRESS. HEX LOCATION(000026D4) IN CSECT(I5000) LENGTH(4) 657 671
1040	RM0	ADDRESS. HEX LOCATION(000029AE) IN CSECT(I5000) LENGTH(2) 861 1026 1027 1034
1042	RM1	ADDRESS. HEX LOCATION(000029B2) IN CSECT(I5000) LENGTH(2) 874 1033 1034
1041	RM2	ADDRESS. HEX LOCATION(000029B0) IN CSECT(I5000) LENGTH(2) 1030
1043	RM3	ADDRESS. HEX LOCATION(000029B4) IN CSECT(I5000) LENGTH(2) 1037
974	RSETR	ADDRESS. HEX LOCATION(00002932) IN CSECT(I5000) LENGTH(4) 967 972
964	RSET0	ADDRESS. HEX LOCATION(0000290E) IN CSECT(I5000) LENGTH(1) 1585 2007 2068 2261 2277 2617
969	RSET1	ADDRESS. HEX LOCATION(00002920) IN CSECT(I5000) LENGTH(1) 1608 2008 2140 2276 2616
976	RS0	ADDRESS. HEX LOCATION(00002936) IN CSECT(I5000) LENGTH(2) 610 859 965 966
978	RS1	ADDRESS. HEX LOCATION(0000293A) IN CSECT(I5000) LENGTH(2) 611 872 970 971
710	RTN	ADDRESS. HEX LOCATION(0000273C) IN CSECT(I5000) LENGTH(2) 580
1008	RV0	ADDRESS. HEX LOCATION(00002972) IN CSECT(I5000) LENGTH(2) 860 994 995
1010	RV1	ADDRESS. HEX LOCATION(00002976) IN CSECT(I5000) LENGTH(2) 873 1001 1002
1009	RV2	ADDRESS. HEX LOCATION(00002974) IN CSECT(I5000) LENGTH(2) 998
1011	RV3	ADDRESS. HEX LOCATION(00002978) IN CSECT(I5000) LENGTH(2) 1005
0	R0	REGISTER. HEX VALUE(00000000) 577 677 1720 1721 1722 1900 1901 1970 1971 2011 2012 2245 2246 2306 2307 2308
0	R1	REGISTER. HEX VALUE(00000001) 520 582 628 629 642 643 644 676 1443 1444 1458 1459 2267 2268 2340 2341 2344 2369 2370 2373 2410 2411 2414 2440 2441 2444 2481 2482 2485 2511 2512 2515 2552 2553 2556 2582 2583 2586 2627 2628 2629
0	R2	REGISTER. HEX VALUE(00000002) 571 675 1646 1650 1650 1650 1650 1659 1666 1683 1677 1687 1687 1696 1703
0	R3	REGISTER. HEX VALUE(00000003) 587 673 674 1554 1585 1613 1623 1645 1648 1648 1648 1654 1663 1665 1682 1685 1685 1685 1691 1700 1702
0	R4	REGISTER. HEX VALUE(00000004) 592 669 670 672 1449 1451 1452 1453 1454
0	R5	REGISTER. HEX VALUE(00000005) 541 818 839 857 858 859 860 861 862 863 864 865 866 867 868 870 871 872 873 874 875 876 877 878 879 880 881 998 1005 1030 1037 1058 1064 1069 1080 1118 1159 1182 1199 1447 1448 1449 1490 1495 1504 1509 1514 1519 1557 1560 1565 1568 1589 1594 1599 1604 1613 1618 1623 1628 1648 1650 1654 1659 1685 1687 1691 1696 1723 1725 1730 1733 1736 1739 1742 1745 1748 1751 1754 1757 1760 1765 1769 1772 1775 1778 1781 1784 1787 1790 1793 1796 1799 1804 1808 1811 1814 1817 1820 1823 1826 1829 1832 1835 1838 1843 1847 1850

CROSS-REFERENCE LISTING

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DECLARED	NAME	ATTRIBUTES AND REFERENCES										
		1853	1856	1859	1862	1865	1868	1871	1874	1877		
		1902	1905	1916	1918	1931	1933	1949	1951	1964		
		1966	1981	1983	2016	2018	2022	2055	2083	2085		
		2090	2092	2096	2130	2153	2162	2164	2167	2182		
		2190	2291	2296	2324	2327	2328	2327	2327	2356		
		2271	2299	2309	2312	2323	2325	2328	2331	2353		
		2356	2381	2384	2393	2395	2398	2423	2425	2428		
		2452	2455	2464	2466	2469	2494	2496	2499	2523		
		2526	2535	2537	2540	2565	2567	2570	2619	2622		
		2624	2638	2645	2648	2653	2655	2660	2667	2670		
		2674	2676	2687	2690	2695	2697	2715	2717	2726		
		2733	2736	2740	2742	2747	2754	2757	2760	2762		
		2772	2775	2779	2781	2799	2817	2823	2826	2828		
		2841	2847	2850	2852	2864	2871	2875	2877	2896		
		2913	2919	2922	2924	2936	2942	2945	2947	2960		
		2966	2970	2972	2989							
0	R6	REGISTER	HEX VALUE (00000006)									
		842	785	814	819	835	840	882	917	946		
		974	999	1006	1031	1038	1069	1100	1123	1162		
		1181	1183	1198	1200	1242	1264	1401	1414	1427		
		1450	1496	1501	1506	1511	1516	1521	1556	1559		
		1564	1567	1585	1586	1588	1593	1598	1603	1608		
		1609	1612	1617	1622	1627	1649	1651	1653	1658		
		1686	1688	1690	1695	1724	1726	1727	1729	1731		
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		1749	1750	1752	1755	1756	1758	1759	1761	1766		
		1767	1768	1770	1771	1773	1776	1777	1779	1780		
		1782	1785	1786	1788	1789	1791	1794	1795	1797		
		1798	1805	1806	1806	1807	1809	1810	1812	1815		
		1816	1818	1819	1821	1824	1825	1827	1828	1830		
		1833	1834	1836	1837	1839	1844	1845	1846	1848		
		1849	1851	1854	1855	1857	1858	1860	1863	1864		
		1866	1867	1869	1872	1873	1875	1876	1878	1903		
		1904	1906	1907	1910	1915	1930	1944	1948	1963		
		1982	1984	2007	2008	2017	2019	2020	2023	2053		
		2054	2068	2084	2086	2091	2093	2094	2097	2128		
		2129	2140	2154	2163	2165	2168	2183	2191	2202		
		2216	2225	2228	2239	2248	2249	2251	2252	2255		
		2257	2261	2264	2272	2276	2277	2300	2310	2311		
		2317	2314	2330	2330	2336	2366	2382	2383	2385		
		2386	2404	2405	2434	2435	2463	2484	2486	2487		
		2475	2476	2505	2506	2524	2525	2527	2528	2546		
		2547	2576	2577	2616	2617	2620	2621	2623	2625		
		2639	2643	2644	2646	2647	2654	2656	2661	2665		
		2666	2668	2669	2671	2675	2677	2685	2686	2688		
		2689	2691	2696	2698	2716	2718	2727	2731	2732		
		2734	2735	2741	2743	2748	2752	2753	2755	2756		
		2758	2761	2763	2769	2771	2773	2774	2776	2780		
		2782	2800	2801	2812	2818	2824	2827	2829	2836		
		2842	2848	2851	2853	2859	2865	2872	2876	2878		
		2897	2898	2908	2914	2920	2923	2925	2931	2937		
		2943	2946	2948	2954	2961	2967	2971	2973	2990		
0	R7	REGISTER	HEX VALUE (00000007)									
		659	673	691	712	713	725	633	634	657		
		659	668	731	733	734	735	736	737	738		
		752	754	755	756	757	758	759	760	761		
		779	784	812	815	817	833	836	838	910		
		914	918	919	940	945	968	973	997	1004		
		1029	1036	1062	1068	1093	1099	1122	1139	1158		
		1159	1161	1188	1205	1241	1243	1245	1248	1249		
		1250	1263	1265	1267	1270	1271	1272	1280	1284		
		1291	1295	1308	1312	1316	1320	1324	1328	1400		
		1404	1413	1417	1442	1460	1468	1472	1476	1479		
		1495	1500	1505	1510	1515	1525	1526	1526	1532		
		1536	1540	1591	1596	1601	1606	1615	1620	1625		
		1630	1656	1661	1693	1698	1920	1925	1935	1953		
		1958	1968	1975	1976	2009	2027	2031	2035	2039		
		2049	2052	2057	2067	2075	2076	2101	2105	2109		
		2113	2124	2127	2132	2139	2147	2148	2172	2181		
		2188	2200	2208	2209	2214	2237	2278	2302	2303		
		2332	2338	2343	2361	2367	2372	2402	2408	2413		
		2432	2438	2443	2473	2479	2484	2503	2509	2514		
		2544	2550	2555	2574	2580	2585	2590	2593	2641		
		2642	2653	2664	2682	2683	2702	2706	2707	2708		
		2729	2730	2750	2751	2767	2768	2786	2790	2791		
		2793	2810	2819	2816	2822	2868	2886	2840	2846		
		2857	2858	2863	2870	2882	2886	2888	2890	2906		
		2907	2912	2918	2929	2930	2935	2941	2952	2953		
		2959	2965	2977	2981	2985	2986					
1259	SAVA	ADDRESS	HEX LOCATION (00002B00) IN CSECT (I5000) LENGTH (2)									
		628	1453	1458	1720	1900	1970	2011	2245	2267		
		2306	2627									
700	SAVA1	ADDRESS	HEX LOCATION (0000271E) IN CSECT (I5000) LENGTH (2)									
		630	1455									
822	SBCL0	ADDRESS	HEX LOCATION (0000280E) IN CSECT (I5000) LENGTH (2)									
		818	2317									
823	SBCL1	ADDRESS	HEX LOCATION (00002810) IN CSECT (I5000) LENGTH (2)									
		839	2316									
693	SDCP	ADDRESS	HEX LOCATION (00002712) IN CSECT (I5000) LENGTH (2)									
		629	1454									
1069	SETMR	ADDRESS	HEX LOCATION (000029E2) IN CSECT (I5000) LENGTH (4)									
		1061	1067									
1057	SETH0	ADDRESS	HEX LOCATION (000029B6) IN CSECT (I5000) LENGTH (1)									
		1686	1726	1767	1806	1844	1903	2017	2163	2248		
		2310	2382	2453	2525	2620						
1063	SETH1	ADDRESS	HEX LOCATION (000029CC) IN CSECT (I5000) LENGTH (1)									
		1688	1727	1766	1805	1845	1904	2091	2249	2311		
		2383	2454	2522	2621							
1100	SETR	ADDRESS	HEX LOCATION (00002A1A) IN CSECT (I5000) LENGTH (4)									
		1092	1098									
856	SETT	ADDRESS	HEX LOCATION (00002844) IN CSECT (I5000) LENGTH (1)									
		1450										
1423	SETUP	ADDRESS	HEX LOCATION (00002C98) IN CSECT (I5000) LENGTH (6)									
		2643	2665	2685	2731	2752	2769	2812	2836	2859		
		2908	2931	2954								
1102	SETV0	ADDRESS	HEX LOCATION (00002A1E) IN CSECT (I5000) LENGTH (2)									
		863	1090	1091	2024	2025						
1104	SETV1	ADDRESS	HEX LOCATION (00002A22) IN CSECT (I5000) LENGTH (2)									
		876	1096	1097	2098	2099						
1103	SETV2	ADDRESS	HEX LOCATION (00002A20) IN CSECT (I5000) LENGTH (2)									
		1089										

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DECLARED	NAME	ATTRIBUTES AND REFERENCES										
1105	SETV3	ADDRESS	HEX LOCATION (00002A24) IN CSECT (I5000) LENGTH (2)									
		1095										
1088	SET0	ADDRESS	HEX LOCATION (000029EE) IN CSECT (I5000) LENGTH (1)									
		1183	1649	1906	2019	2165	2251	2313	2385	2456		
		2527	2623	2716	2727	2748	2800	2897				
1094	SET1	ADDRESS	HEX LOCATION (00002A04) IN CSECT (I5000) LENGTH (1)									
		1200	1651	1907	2093	2252	2314	2386	2457	2528		
		2625	2639	2661	2718	2801	2898					
549	SI	ADDRESS	HEX LOCATION (0000259E) IN CSECT (I5000) LENGTH (2)									
		592	776	781	911	937	942	965	970	994		
		1001	1026	1033	1059	1065	1090	1096	1119	1185		
		1202	1465	1469	1533	1922	1955	2024	2028	2032		
		2036	2046	2064	2098	2102	2106	2110	2121	2136		
		2149	2185	2211	2319	2358	2399	2429	2470	2500		
		2541	2571	2613	2619	2837	2843	2860	2867	2909		
		2915	2932	2938	2956	2962						

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2260	T143	ADDRESS. HEX LOCATION(00003528) IN CSECT(I5000) LENGTH(1)
2275	T145	ADDRESS. HEX LOCATION(00003550) IN CSECT(I5000) LENGTH(1)
1552	T20	ADDRESS. HEX LOCATION(00002DC2) IN CSECT(I5000) LENGTH(1)
1593	T26	ADDRESS. HEX LOCATION(00002E0C) IN CSECT(I5000) LENGTH(4)
1598	T27	ADDRESS. HEX LOCATION(00002E1A) IN CSECT(I5000) LENGTH(4)
1603	T28	ADDRESS. HEX LOCATION(00002E28) IN CSECT(I5000) LENGTH(4)
1608	T29	ADDRESS. HEX LOCATION(00002E36) IN CSECT(I5000) LENGTH(4)
1492	T3	ADDRESS. HEX LOCATION(00002D40) IN CSECT(I5000) LENGTH(1)
1617	T30	ADDRESS. HEX LOCATION(00002E50) IN CSECT(I5000) LENGTH(4)
1622	T31	ADDRESS. HEX LOCATION(00002E5E) IN CSECT(I5000) LENGTH(4)
1627	T32	ADDRESS. HEX LOCATION(00002E6A) IN CSECT(I5000) LENGTH(4)
1643	T33	ADDRESS. HEX LOCATION(00002E78) IN CSECT(I5000) LENGTH(1)
1648	T34	ADDRESS. HEX LOCATION(00002E86) IN CSECT(I5000) LENGTH(2)
1658	T35	ADDRESS. HEX LOCATION(00002E9E) IN CSECT(I5000) LENGTH(4)
1663	T36	ADDRESS. HEX LOCATION(00002EAA) IN CSECT(I5000) LENGTH(4)
1680	T37	ADDRESS. HEX LOCATION(00002EBA) IN CSECT(I5000) LENGTH(1)
1685	T38	ADDRESS. HEX LOCATION(00002EC8) IN CSECT(I5000) LENGTH(2)
1695	T39	ADDRESS. HEX LOCATION(00002EE0) IN CSECT(I5000) LENGTH(4)
1700	T40	ADDRESS. HEX LOCATION(00002EEC) IN CSECT(I5000) LENGTH(4)
1718	T41	ADDRESS. HEX LOCATION(00002EFC) IN CSECT(I5000) LENGTH(1)
486	T5000	ADDRESS. HEX LOCATION(0000257C) IN CSECT(I5000) LENGTH(1)
2659	T58A	ADDRESS. HEX LOCATION(000039A2) IN CSECT(I5000) LENGTH(1)
2681	T58B	ADDRESS. HEX LOCATION(000039E8) IN CSECT(I5000) LENGTH(6)
2694	T61	ADDRESS. HEX LOCATION(00003A14) IN CSECT(I5000) LENGTH(1)
2673	T61A	ADDRESS. HEX LOCATION(000039D6) IN CSECT(I5000) LENGTH(1)
2700	T62	ADDRESS. HEX LOCATION(00003A24) IN CSECT(I5000) LENGTH(6)
2704	T63	ADDRESS. HEX LOCATION(00003A30) IN CSECT(I5000) LENGTH(6)
2707	T64	ADDRESS. HEX LOCATION(00003A3C) IN CSECT(I5000) LENGTH(4)
2713	T64A	ADDRESS. HEX LOCATION(00003A4A) IN CSECT(I5000) LENGTH(1)
2746	T64B	ADDRESS. HEX LOCATION(00003AB6) IN CSECT(I5000) LENGTH(1)
2766	T64C	ADDRESS. HEX LOCATION(00003AFC) IN CSECT(I5000) LENGTH(6)
2779	T66	ADDRESS. HEX LOCATION(00003B28) IN CSECT(I5000) LENGTH(4)
2760	T66A	ADDRESS. HEX LOCATION(00003AEA) IN CSECT(I5000) LENGTH(4)
2784	T66AA	ADDRESS. HEX LOCATION(00003B38) IN CSECT(I5000) LENGTH(6)
2788	T67	ADDRESS. HEX LOCATION(00003B44) IN CSECT(I5000) LENGTH(6)
2791	T68	ADDRESS. HEX LOCATION(00003B50) IN CSECT(I5000) LENGTH(4)
2797	T69	ADDRESS. HEX LOCATION(00003B5E) IN CSECT(I5000) LENGTH(1)
2832	T69A	ADDRESS. HEX LOCATION(00003BDA) IN CSECT(I5000) LENGTH(1)
2856	T69X	ADDRESS. HEX LOCATION(00003C34) IN CSECT(I5000) LENGTH(6)
2864	T71	ADDRESS. HEX LOCATION(00003C58) IN CSECT(I5000) LENGTH(4)
2841	T71A	ADDRESS. HEX LOCATION(00003BFE) IN CSECT(I5000) LENGTH(4)
2871	T72	ADDRESS. HEX LOCATION(00003C72) IN CSECT(I5000) LENGTH(4)
2847	T72A	ADDRESS. HEX LOCATION(00003C18) IN CSECT(I5000) LENGTH(4)
2875	T73	ADDRESS. HEX LOCATION(00003C7C) IN CSECT(I5000) LENGTH(4)
2850	T73A	ADDRESS. HEX LOCATION(00003C22) IN CSECT(I5000) LENGTH(4)
2880	T74	ADDRESS. HEX LOCATION(00003C8C) IN CSECT(I5000) LENGTH(6)
2884	T75	ADDRESS. HEX LOCATION(00003C98) IN CSECT(I5000) LENGTH(6)
2888	T76	ADDRESS. HEX LOCATION(00003CA4) IN CSECT(I5000) LENGTH(4)
2894	T77	ADDRESS. HEX LOCATION(00003CB2) IN CSECT(I5000) LENGTH(1)
2951	T77A	ADDRESS. HEX LOCATION(00003D88) IN CSECT(I5000) LENGTH(6)
2928	T77AX	ADDRESS. HEX LOCATION(00003D2E) IN CSECT(I5000) LENGTH(6)
2960	T79	ADDRESS. HEX LOCATION(00003DAC) IN CSECT(I5000) LENGTH(4)
2966	T79A	ADDRESS. HEX LOCATION(00003DC6) IN CSECT(I5000) LENGTH(4)
2942	T79AA	ADDRESS. HEX LOCATION(00003D6C) IN CSECT(I5000) LENGTH(4)
2970	T79B	ADDRESS. HEX LOCATION(00003DD0) IN CSECT(I5000) LENGTH(4)
2945	T79BA	ADDRESS. HEX LOCATION(00003D76) IN CSECT(I5000) LENGTH(4)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2975	T79C	ADDRESS. HEX LOCATION(00003DE0) IN CSECT(I5000) LENGTH(6)
2979	T79D	ADDRESS. HEX LOCATION(00003DEC) IN CSECT(I5000) LENGTH(6)
2983	T79E	ADDRESS. HEX LOCATION(00003DF8) IN CSECT(I5000) LENGTH(6)
2988	T79F	ADDRESS. HEX LOCATION(00003E0E) IN CSECT(I5000) LENGTH(1)
2936	T79X	ADDRESS. HEX LOCATION(00003D52) IN CSECT(I5000) LENGTH(4)
1979	T81	ADDRESS. HEX LOCATION(0000321E) IN CSECT(I5000) LENGTH(1)
2305	T82A	ADDRESS. HEX LOCATION(0000357A) IN CSECT(I5000) LENGTH(1)
2325	T82AX	ADDRESS. HEX LOCATION(000035C6) IN CSECT(I5000) LENGTH(4)
2328	T82A1	ADDRESS. HEX LOCATION(000035CC) IN CSECT(I5000) LENGTH(4)
2329	T82A2	ADDRESS. HEX LOCATION(000035D0) IN CSECT(I5000) LENGTH(6)
2334	T83	ADDRESS. HEX LOCATION(000035E2) IN CSECT(I5000) LENGTH(4)
2339	T83A	ADDRESS. HEX LOCATION(000035F6) IN CSECT(I5000) LENGTH(1)
2343	T83B	ADDRESS. HEX LOCATION(00003600) IN CSECT(I5000) LENGTH(4)
2344	T83C	ADDRESS. HEX LOCATION(00003604) IN CSECT(I5000) LENGTH(4)
2356	T833A	ADDRESS. HEX LOCATION(00003626) IN CSECT(I5000) LENGTH(4)
2357	T833B	ADDRESS. HEX LOCATION(0000362A) IN CSECT(I5000) LENGTH(6)
2353	T833C	ADDRESS. HEX LOCATION(00003620) IN CSECT(I5000) LENGTH(4)
2363	T84	ADDRESS. HEX LOCATION(00003642) IN CSECT(I5000) LENGTH(4)
2368	T84A	ADDRESS. HEX LOCATION(00003656) IN CSECT(I5000) LENGTH(1)
2372	T84B	ADDRESS. HEX LOCATION(00003660) IN CSECT(I5000) LENGTH(4)
2373	T84C	ADDRESS. HEX LOCATION(00003664) IN CSECT(I5000) LENGTH(4)
2398	T85A	ADDRESS. HEX LOCATION(000036AA) IN CSECT(I5000) LENGTH(4)
2395	T85AX	ADDRESS. HEX LOCATION(000036A4) IN CSECT(I5000) LENGTH(4)
2399	T85B	ADDRESS. HEX LOCATION(000036AE) IN CSECT(I5000) LENGTH(6)
2404	T86	ADDRESS. HEX LOCATION(000036C0) IN CSECT(I5000) LENGTH(4)
2409	T86A	ADDRESS. HEX LOCATION(000036D4) IN CSECT(I5000) LENGTH(1)
2413	T86B	ADDRESS. HEX LOCATION(000036DE) IN CSECT(I5000) LENGTH(4)
2414	T86C	ADDRESS. HEX LOCATION(000036E2) IN CSECT(I5000) LENGTH(4)
2428	T87A	ADDRESS. HEX LOCATION(0000370A) IN CSECT(I5000) LENGTH(4)
2425	T87AX	ADDRESS. HEX LOCATION(00003704) IN CSECT(I5000) LENGTH(4)
2429	T87B	ADDRESS. HEX LOCATION(0000370E) IN CSECT(I5000) LENGTH(6)
2434	T88	ADDRESS. HEX LOCATION(00003720) IN CSECT(I5000) LENGTH(4)
2439	T88A	ADDRESS. HEX LOCATION(00003734) IN CSECT(I5000) LENGTH(1)
2443	T88B	ADDRESS. HEX LOCATION(0000373E) IN CSECT(I5000) LENGTH(4)
2444	T88C	ADDRESS. HEX LOCATION(00003742) IN CSECT(I5000) LENGTH(4)
2469	T89A	ADDRESS. HEX LOCATION(00003788) IN CSECT(I5000) LENGTH(4)
2466	T89AX	ADDRESS. HEX LOCATION(00003782) IN CSECT(I5000) LENGTH(4)
2470	T89B	ADDRESS. HEX LOCATION(0000378C) IN CSECT(I5000) LENGTH(6)
2475	T90	ADDRESS. HEX LOCATION(0000379E) IN CSECT(I5000) LENGTH(4)
2480	T90A	ADDRESS. HEX LOCATION(000037B2) IN CSECT(I5000) LENGTH(1)
2484	T90B	ADDRESS. HEX LOCATION(000037BC) IN CSECT(I5000) LENGTH(4)
2485	T90C	ADDRESS. HEX LOCATION(000037C0) IN CSECT(I5000) LENGTH(4)
2499	T91A	ADDRESS. HEX LOCATION(000037E8) IN CSECT(I5000) LENGTH(4)
2496	T91AX	ADDRESS. HEX LOCATION(000037E2) IN CSECT(I5000) LENGTH(4)
2500	T91B	ADDRESS. HEX LOCATION(000037EC) IN CSECT(I5000) LENGTH(6)
2505	T92	ADDRESS. HEX LOCATION(000037FE) IN CSECT(I5000) LENGTH(4)
2510	T92A	ADDRESS. HEX LOCATION(00003812) IN CSECT(I5000) LENGTH(1)
2514	T92B	ADDRESS. HEX LOCATION(0000381C) IN CSECT(I5000) LENGTH(4)
2515	T92C	ADDRESS. HEX LOCATION(00003820) IN CSECT(I5000) LENGTH(4)
2540	T93A	ADDRESS. HEX LOCATION(00003866) IN CSECT(I5000) LENGTH(4)
2541	T93B	ADDRESS. HEX LOCATION(0000386A) IN CSECT(I5000) LENGTH(6)
2537	T93BX	ADDRESS. HEX LOCATION(00003860) IN CSECT(I5000) LENGTH(4)
2546	T94	ADDRESS. HEX LOCATION(0000387C) IN CSECT(I5000) LENGTH(4)
2551	T94A	ADDRESS. HEX LOCATION(00003890) IN CSECT(I5000) LENGTH(1)
2555	T94B	ADDRESS. HEX LOCATION(0000389A) IN CSECT(I5000) LENGTH(4)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
2556	T94C	ADDRESS. HEX LOCATION(0000389E) IN CSECT(I5000) LENGTH(4)
2570	T95A	2554 ADDRESS. HEX LOCATION(000038C6) IN CSECT(I5000) LENGTH(4)
2571	T95B	2562 ADDRESS. HEX LOCATION(000038CA) IN CSECT(I5000) LENGTH(6)
2567	T95BX	2566 2568 ADDRESS. HEX LOCATION(000038C0) IN CSECT(I5000) LENGTH(4)
2576	T96	2564 ADDRESS. HEX LOCATION(000038DC) IN CSECT(I5000) LENGTH(4)
2581	T96A	2573 ADDRESS. HEX LOCATION(000038F0) IN CSECT(I5000) LENGTH(1)
2585	T96B	2579 ADDRESS. HEX LOCATION(000038FA) IN CSECT(I5000) LENGTH(4)
2586	T96C	2587 ADDRESS. HEX LOCATION(000038FE) IN CSECT(I5000) LENGTH(4)
2593	T98	2584 ADDRESS. HEX LOCATION(00003914) IN CSECT(I5000) LENGTH(1)
1913	T99B	2589 ADDRESS. HEX LOCATION(00003158) IN CSECT(I5000) LENGTH(1)
1921	T99C	1909 ADDRESS. HEX LOCATION(00003172) IN CSECT(I5000) LENGTH(6)
1926	T99D	1917 1919 ADDRESS. HEX LOCATION(0000318A) IN CSECT(I5000) LENGTH(2)
1928	T99E	1924 ADDRESS. HEX LOCATION(0000318C) IN CSECT(I5000) LENGTH(1)
1941	T99F	1921 ADDRESS. HEX LOCATION(000031A6) IN CSECT(I5000) LENGTH(1)
1946	T99G	1932 1934 ADDRESS. HEX LOCATION(000031B8) IN CSECT(I5000) LENGTH(1)
1954	T99H	1943 ADDRESS. HEX LOCATION(000031D2) IN CSECT(I5000) LENGTH(6)
1959	T99I	1950 1952 ADDRESS. HEX LOCATION(000031EA) IN CSECT(I5000) LENGTH(2)
1961	T99J	1957 ADDRESS. HEX LOCATION(000031EC) IN CSECT(I5000) LENGTH(1)
1969	T99K	1954 ADDRESS. HEX LOCATION(00003206) IN CSECT(I5000) LENGTH(1)
652	UNSET	1965 1967 ADDRESS. HEX LOCATION(00002674) IN CSECT(I5000) LENGTH(6)
65	XTRNL	649 ABSOLUTE. HEX VALUE(00000001)
891	ZFFFF	352 ADDRESS. HEX LOCATION(000028B0) IN CSECT(I5000) LENGTH(2) 2336 2365 2406 2436 2477 2507 2548 2578

***** LAST PAGE *****