

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
3 \*\*\*\*\*
4 \*
5 \* \*\*\* PREREQUISITES \*\*\*
6 \*
7 \* NONE
8 \*
9 \*\*\*\*\*
10 \*
11 \* \*\*\* MODIFICATIONS \*\*\*
12 \*
13 \* NONE
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 02OCT78 DATE DATE DATE
32 \* E.C. 375102 E.C. E.C. E.C.
33 \*
34 \*\*\*\*\*
35 \*\*\*\*\*
36 \*\*\*\*\*
37 \* DEFINE CONSTANT AREA FOR PROGRAM I.D. U7AF
38 \*\*\*\*\*
39 U7AF2 START X'1800' PROGRAM START ADDRESS
40 PID DC C'7AF2' PROGRAM NAME
41 DC X'0000' LEVEL
42 STADDR DC A(T7A95) START EXECUTION ADDRESS
43 DEVPT DC A(DEVTAB) POINTER TO DEV TABLE
44 RENE 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'CO01' START OF DEVICE TABLE
48 DEVADD DC X'0000' DEVICE ADDRESS AND TYPE
49 ASSIGN DC XL8'00' DEVICE DEPENDENT DATA
50 TYP7A DC X'7A' DEVICE TYPE FOR THIS PROGRAM
51 @ETOH DC A(9) EBC TO HEX CONTROL BLOCK
52 @ETOH1 DC A(INAREA) FROM DATA ADDRESS
53 @ETOH2 DC A(SERIAL) TO DATA ADDRESS
54 DC X'00C0' CONTROL BYTE FOR OUTIN CONTROL BLOCK
55 @OUTIN DC A(MSG) ADDRESS OF MESSAGE
56 DC A(INAREA) ADDRESS OF INPUT AREA
57 DC A(9) LENGTH OF INPUT DATA
58 DC A(0) TYPE OF INPUT (EBC)
59 INAREA DC C' ' OUTIN INPUT AREA
60 DC X'7AF1' STOP CODE FOR REQUEST OF DEV. ADD.
61 MSG DC C'4963 SEC ID RESTORE, ENTER DEV ADDR AND DE ID.'
62 DC X'00'
63 SERIAL DC 3A(\*-\*)
64 \* THE FOLLOWING DC'S ARE TO SATISFY THE SERRS ROUTINE
65 TUMSGWTR DC A(@MSGWTR) ADDRESS OF ABORT MESSAGE WRITER
66 TUSTATUS DC A(0) DUMMY TU STATUS
67 TUNWORK DC 128C' ' WORK AREA FOR ABORT PRINTAREA
68 @DCADD1 DC A(0) DUMMY POINTER
69 @DCADD2 DC A(0) DUMMY POINTER
70 SUPSTAT DC A(0) DUMMY STATUS AREA
71 @OUT1 DC X'0080' CONTROL BYTE FOR OUT CONTROL BLOCK
72 @OUT DC A(0) ADDRESS OF MESSAGE
73 DC X'7AF2' STOP CODE FOR ABORT MESSAGE
74 ABMSG DC X'0000' DUMMY ABORT MESSAGE
75 \*
76 \* THE FOLLOWING ROUTINE WILL OUTPUT \*\*\*ABORT\*\*\* MSG
77 \*
78 @MSGWTR MVW DC2PT,R1 ADDRESS OF MESSAGE AREA
79 ABI TRO,R1 POINT R1 AT FIRST LINE LENGTH
80 MVWZ (R1)+,R2 LOAD R2 WITH LENGTH
81 MVW R1,@OUT MOVE ADDRESS OF MESSAGE INTO BLOCK
82 MVWI X'0000',PID+2 LOAD PID WITH X'00' STOP CODE
83 MVA @OUT,R7 LOAD ADDRESS OF CONTROL BLOCK
84 SVC OUT ISSUE SVC
85 ABI BUMP,R1 BUMP R1
86 MVWZ BUFPPT,R2 ZERO END OF DATA AREA
87 MVWI EIGHT,R4 INIT R4 TO LINES OF OUTPUT
88 MSGWTR1 MVWZ (R1)+,R2 LOAD LENGTH OF MESSAGE
89 MVW R1,@OUT LOAD ADDRESS OF MESSAGE INTO BLOCK
90 MVA @OUT,R7 LOAD ADDRESS OF BLOCK
91 SVC OUT ISSUE SVC
92 ABI X'128',R1 BUMP TO NEXT LINE
93 JCT MSGWTR1,R4 BRANCH FOR COUNT
94 MVWI X'00C0',@OUT1 CHANGE CONTROL BYTE
95 MVA ABMSG,@OUT LOAD ADDRESS OF ABORT MESSAGE
96 MVA @OUT,R7 LOAD ADDRESS OF CONTROL BLOCK
97 SVC OUT ISSUE SVC
98 B @CONX BRANCH TO END
99 \*
100 \*\*\*\*\*
101 \*
102 \* EQUATED NAMES FOR SUPPORTED SVC'S
103 \*
104 \*\*\*\*\*
105 OUT EQU 0 OUT SVC
106 OUTIN EQU 1 OUTIN SVC
107 IDLE EQU 2 IDLE SVC
108 IDLE5 EQU 3 IDLE SVC - INDEPENDENT OF CPU TYPE
109 CHNGE EQU 4 CHANGE LEVEL SVC
110 PGMCK EQU 5 ALLOW RETURN ON PROGRAM CHECK SVC
111 EXIT EQU 6 EXIT SVC
112 TERM EQU 7 TERMINATE SVC
113 RESET EQU 8 RESET DEVICE SVC
114 END EQU 9 END ID SVC
115 START EQU 10 START C/C/SVC STEAL SVC
116 STCSS EQU 11 START CYCLE STEAL STATUS SVC
117 PREP EQU 12 PREPARE DEVICE SVC

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00000D 118 READ0 EQU 13 READ WITH FUNCTION BIT 3 OFF SVC
00000E 119 READ1 EQU 14 READ WITH FUNCTION BIT 3 ON SVC
00000F 120 RSTAT EQU 15 READ STATUS SVC
000010 121 WRTO EQU 16 WRITE WITH FUNCTION BIT 3 OFF SVC
000011 122 WRIT1 EQU 17 WRITE WITH FUNCTION BIT 3 ON SVC
000012 123 CTRL EQU 18 CONTROL SVC
000013 124 RICE EQU 19 RELEASE INTERRUPT CONTROL BLOCK SVC
000014 125 CIB EQU 20 CONNECT INTERRUPT CONTROL BLOCK SVC
000015 126 HIO EQU 21 HALT ALL I/O
000016 127 REQSD EQU 22 REQUEST USE OF DCP DISK SVC
000017 128 RELSD EQU 23 RELEASE USE OF DCP DISK SVC
000018 129 HALT EQU 24 HALT SVC
000019 130 ETOH EQU 25 EBCDIC TO HEX SVC (STRING)
00001A 131 HTOE EQU 26 HEX TO EBCDIC SVC (STRING)
00001B 132 ATOH EQU 27 ASCII TO HEX SVC (STRING)
00001C 133 HTOA EQU 28 HEX TO ASCII SVC (STRING)
00001D 134 ETOA EQU 29 EBCDIC TO ASCII SVC (STRING)
00001E 135 ATOE EQU 30 ASCII TO EBCDIC SVC (STRING)
00001F 136 READI EQU 31 READ DATA SETS FOR MBI/UTIL
000020 137 WRITI EQU 32 WRITE DATA SETS FOR UTIL
139 \*\*\*\*\*
140 \*
141 \* EQUATES USED BY TU'S AS CONSTANTS
142 \*
143 \*\*\*\*\*
144 PLUS EQU C'+1' PLUS CHAR
145 MINUS EQU C'-1' MINUS CHAR
146 ZERO EQU 0
147 ONE EQU 1
148 TWO EQU 2
149 THRE EQU 3
150 FOUR EQU 4
151 FIVE EQU 5
152 SIX EQU 6
153 SEVEN EQU 7
154 EIGHT EQU 8
155 NINE EQU 9
156 TEN EQU 10
157 ELEVEN EQU 11
158 TWELVE EQU 12
159 THIRTE EQU 13
160 THRTE EQU 14
161 FIVTEN EQU 15
162 SIXTEN EQU 16
163 THRY2 EQU 32
164 SIXT4 EQU 64
165 ONE28 EQU 128
166 TW056 EQU 256
167 ONEK EQU 1024
168 TWOK EQU 2048
169 THREEK EQU 3072
170 FOURK EQU 4096
171 M1 EQU -1
172 M2 EQU -2
173 M3 EQU -3
174 M4 EQU -4
175 \*\*\*\*\*
176 \*
177 \* THE FOLLOWING ARE EQUATES FOR BIT DISPLACEMENTS FROM THE
178 \* BEGINNING OF THE BYTE TO EACH BIT IN THE WORD OF SWITCHES.
179 \*
180 \*
181 \*
182 \*\*\*\*\*
183 BS0 EQU 0
184 BS1 EQU 1
185 BS2 EQU 2
186 BS3 EQU 3
187 BS4 EQU 4
188 BS5 EQU 5
189 BS6 EQU 6
190 BS7 EQU 7
191 BS8 EQU 8
192 BS9 EQU 9
193 BS10 EQU 10
194 BS11 EQU 11
195 BS12 EQU 12
196 BS13 EQU 13
197 BS14 EQU 14
198 BS15 EQU 15
200 \*
201 \*
202 \*\*\*\*\*4/28/77\*\*\*\*\*
203 \*
204 \* DCB TABLES AND DC'S
205 \*
206 \*\*\*\*\*
207 \*
208 \*
209 \*\*\*\*\* WRITE SECTOR ID \*\* NO AUTO SEEK
210 \*
211 WSDCB DC X'002D' WRITE SECTOR ID CNTL WORD
212 DC X'0000' FG/SEC
213 DC A(\*-\*) HD/CYL
214 DC A(\*-\*) NOT USED
215 DC A(RSBA) RSB ADDRESS
216 DC A(\*-\*) CHAIN ADDRESS
217 DC X'0004' BYTE COUNT
218 DC A(\*-\*) ADDR OF SECTOR ID DATA
219 \*
220 \*
221 \*\*\*\*\* SEEK DCB \*\*\*\*\*
222 \*
223 SKDCB DC X'0000' SEEK DCB
224 DC X'0000' FG/SEC
225 DC F'0' HD/CYL
226 DC F'0'
227 DC A(RSBA) RSB ADDRESS
228 DC A(\*-\*) CHAIN ADDRESS
229 DC F'0' NOT USED
230 DC F'0' NOT USED
231 \*
232 \*\*\*\*\* CYCLE STEAL STATUS DCB \*\*\*\*\*
233 \*
234 CSDCB DC X'2000' CONTROL WORD
235 DC F'0' NOT USED
236 DC F'0' NOT USED
237 DC F'0' NOT USED

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
001974 0000 237 DC F'0' NOT USED
001976 0000 238 DC F'0' NOT USED
001978 001A 239 DC X'001A' 13 WORDS OF STATUS
00197A 19C2 240 DC A(CSBUF) ADDRESS OF CYCLE STEAL STATUS DATA
...
0019A8 0000 353+\* CST12 DC A(\*-\*) CS STATUS WD 11, DIAG BYTES 1, 2,

LOCTR OBJECT TEXT STMT SOURCE STATEMENT COPYRIGHT IBM CORP 1976
0019DA 0000 354+\* CST13 DC A(\*-\*) CS STATUS WD 12, AND 3 + WRAP BYTE
0019DC 0000 355+\* \$SUBV DC A(\*-\*) LAST SUBROUTINE ADDRESS USED
0019DE 00000000 357+\* \$DATA DC 2A(\*-\*) OPTIONAL DATA
...
0019F8 0000 468 --> BAL XIOCS,R6 OR XEQ ANY CYCLE STEAL COMMAND, MOD=0
MOD PARM PRELOADED IN 'IOMOD'

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LOCTR OBJECT TEXT          STMT SOURCE STATEMENT          COPYRIGHT IBM CORP 1976
469 * --> BAL      XIOCS-4,R6          AUTO CS STATUS (FOLLOWING OTHER XIO
470 *              .                  AND DOES NOT POST INTERRUPT STATUS)
471 *
472 * RETURN CONTROL
473 *
474 * BXS      (R6,2)          RETURN TO USER NO ERROR
475 * OR      B              RETURN AND RETRY ON ERROR
476 * *****
477 * MVBWZ    IOMOD,R3        SET MOF OF 0 FOR CYCLE STEAL OP
478 * J        XIO1           CS I/O'S ARE NOT RETRIED
479 *
480 *
481 * XIODG    MVWI      X'000D',IOMOD  SET MODIFIER FOR DIAGNOSTIC OPS
482 * J        XIO1           GO TO CS OPS
483 *
484 *          TBTR      (R4,CE)        RESET CS STATUS INTER ERROR INDICAT.
485 *          TBTS      (R4,CS)        SET 'CYCLE STEAL STATUS' IN PROGRESS
486 *          MVA       CSDCB,IODCB    SET UP CONTROL BLOCK FOR SVC CALL
487 *          MVWI      X'000B',IOMOD  SET CYCLE STEAL MODIFIER
488 *          TBT       (R4,CS)        IS 'CS IN PROGRESS' ERROR CONDITION
489 *          JON       XIO2           * YES, BYPASS SAVING I/O ADRS
490 *          MVW       R6,I,STIO      SAVE IAR FOR RETRY IF REQUESTED
491 *          MVA       DCBUF,R3        SET UP TO ADRS TO MOVE DCB TABLE
492 *          MVW       IODCB,R5        * AND THE FROM ADRS, ALONG WITH
493 *          MVB       26,R7           * THE NUMBER OF MOVES
494 *          MVFN      (R5),(R3)       MOVE 1 STATUS WORD AND ADJUST
495 *          MVB       255,R3          CLEAR CYCLE STATUS BUFFER
496 *          MVA       CSDCB,R5        * TO ALL ONES *
497 *          MVB       26,R7           *
498 *          MVB       26,R7           *
499 *          MVWI      X'070B',SIOIN  OVERLAY OLD CONDITION CODES
500 *          MVWZ     $ISB,R3          ZERO OUT OLD ISB VALUE
501 *
502 *          TBTR      (R4,ER)        RESET ANY ERROR BEFORE I/O COMMAND
503 *          TBTR      (R4,IN)        CLEAR INTERRUPT RECEIVED CNTL BIT
504 *          MVA       IOBLK,R7        SET UP CONTROL BLOCK FOR SUPVR
505 *          TBTR      (R4,$LE)       RESET LEVEL ERROR INDICATOR
506 *          TBTS      (R4,XI)        SET EXPECTED INTR CONTROL BIT
507 *          SVC       START          CALL SUPVR FOR I/O COMMAND
508 *
509 *          TBTR      (R4,NI)        IS AN INTR EXPECTED
510 *          BN        (R6,2)         * NO, RETURN TO USER
511 *
512 *          THE INTR SHOULD OCCUR WHILE SPINNING IN THE NEXT SECTION
513 *
514 *          MVWI      0,R5           SET UP WORK REG FOR 'LOST INTR'
515 *          TBTR      (R4,IN)        HAS INTERRUPT BEEN RECEIVED
516 *          JON       XIOCK          * YES, CHECK IF ALL WAS SATISFACTORY
517 *          SVC       IDLE           ALLOW ANOTHER PROGRAM A CHANCE TO RUN
518 *
519 *          SVC       IDLE           SUPVR WILL RETURN HERE
520 *
521 *          SVC       IDLE           ALLOW ANOTHER PROGRAM A CHANCE TO RUN
522 *
523 *          ANI       1,R5           SUPVR WILL RETURN HERE
524 *          JNZ       XIO8          ADVANCE TIME OUT COUNT
525 *          TBTS      (R4,ER)        BCH IF TIME OUT NOT REACHED
526 *          B         (R6,*          SET ON ERROR CONTROL BIT
527 *          EQU       *              ERR 'NO INTERRUPT'
528 * *****
529 * SUBROUTINE
530 *
531 * I/O EXECUTE ERROR HANDLING ROUTINE
532 *
533 * PURPOSE
534 * THIS ROUTINE WILL COLLECT INFORMATION TO HELP DETERMINE THE
535 * PROBLEM THAT WAS FOUND WHEN THE I/O COMMAND WAS ISSUED BY THE
536 * SUPERVISOR AND IT WAS NOT ACCEPTED.
537 *
538 * CALLING SEQUENCE
539 * SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O COMMAND
540 *
541 * RETURN CONTROL
542 *
543 * B         (R6)*              RETURN TO USERS ERROR HANDLER
544 *
545 * *****
546 *
547 * CC        0= DEVICE NOT ATTACHED
548 * FOR       1= DEVICE BUSY
549 * I/O       2= DEVICE BUSY AFTER RESET
550 *          3= COMMAND REJECT
551 *          4= INTERVENTION REQUIRED
552 *          5= INTERFACE DATA CHECK
553 *          6= CONTROLLER BUSY
554 *          7= I/O COMMAND EXCEPTED
555 *
556 *
557 * XIOER    CPLSR R3          COPY STATUS ANY LEVEL INTO R3
558 *          SRL      13,R3          POSITION CC CODE TO BITS 13-15
559 *          MVB      R3,SIOIN       * PUT IN LOG OUT AREA
560 *          B        (R6)*          RETURN TO USER ERROR HANDLER
561 * *****
562 * *****
563 * SUB-ROUTINE
564 *
565 * ERROR INTERRUPT          RUNS ON INTERRUPT LEVEL '$INTL'
566 *
567 * PURPOSE
568 * THIS ROUTINE WILL BE ENTERED WHEN THE SUPVR DETECTS AN ERROR
569 * OR THE INTERRUPTING CONDITION CODE DOES NOT AGREE WITH THE
570 * EXPECTED CODE.
571 *
572 * CALLING SEQUENCE
573 * SUPVR WILL ENTER WHEN AN ERROR OCCURS ON AN I/O INTERRUPT
574 *
575 * RETURN CONTROL
576 *
577 * SVC      EXIT              RETURN TO USER VIA SUPVR
578 *
579 *
580 *
581 * *****
582 *
583 * CC        0= CONTROLLER END      ISB 0= ADD STATUS
584 * FOR       1= PROGRAM CONTROL INTERRUPT  BITS 1= COMD REJECT
585 *

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LOCTR OBJECT TEXT          STMT SOURCE STATEMENT          COPYRIGHT IBM CORP 1976
586 * INTR      2= EXCEPTION INTERRUPT          FOR 2= INCOR LENGTH  IL
587 *          3= DEVICE END INTERRUPT          INTR 3= DCB SPEC CK  IL
588 *          4= ATTENTION INTERRUPT          4= STG DATA CK  IL
589 *          5= ATTENTION / PROGRAM CNTL INTR 5= INW STG ADRS  IL
590 *          6= ATTENTION / EXCEPTION INTR   6= PROTRCT CK  IL
591 *          7= ATTENTION / DEVICE END INTR  7= I-FACE DATA  IL
592 *
593 * INTER     CPLSR R3          COPY STATUS ANY LEVEL INTO R3
594 *          SRL      13,R3          POSITION INDICATORS IN R3
595 *          MVA       OPTN1,R4        SET UP BASE ADRS
596 *          TBT       (R4,CS)        IS CS IN PROGRESS
597 *          JOFF      INTES          * NO
598 *          TBTS      (R4,CE)        TURN ON CYCLE STEAL INTER ERROR
599 *          MVB       R7,DEV4        SAVE CS ERR ISB VALUE, BITS 0-7
600 *          MVB       R3,DEV4+1      * AND THE COND CODE
601 *          J         INTN1          IL
602 *          INTES     TBT       (R4,XE)  TEST EXPECTED ATTN / ERROR IND
603 *          JOFF      INTET          RCH IF NOT EXPECTED
604 *          CBI       4,R3           IS THIS AN 'ATTENTION' INTR
605 *          JE        INTR1          * YES, BCH TO END INTR SEQUENCE
606 *          INTET     TBTS      (R4,ER)  SET ERROR ON I/O COMMAND CNTL BIT
607 *          J         INTR1          IL
608 *
609 *          THE ERROR INTERRUPT USES THE SAME
610 *          ENDING SEQUENCE AS THE NORMAL INTR IL
611 * *****
612 * *****
613 * SOUBROUTINE
614 *
615 * OKAY      INTERRUPT          RUNS ON INTERRUPT LEVEL '$INTL'
616 *
617 * PURPOSE
618 *
619 * TO CHECK THE INTERRUPT AND CONTINUE THE TEST
620 *
621 * CALLING SEQUENCE
622 *
623 * SUPERVISOR WILL ENTER HERE IF INTR CC IS AS REQUESTED
624 * THE ERROR INTERRUPT HANDLER WILL BRANCH TO THIS ROUTINE
625 * AFTER THE SPECIAL PART HAS BEEN COMPLETED AND THE
626 * COMMON SECTION IS HANDLED HERE.
627 *
628 * RETURN CONTROL
629 *
630 * SVC      EXIT              RETURN TO USER VIA SUPVR
631 *
632 * *****
633 * INTOK     CPLSR R3          COPY STATUS ANY LEVEL INTO R3
634 *          SRL      13,R3          POSITION INDICATORS IN R3
635 *          MVA       OPTN1,R4        SET UP BASE ADRS
636 *          INTR1     TBTS      (R4,IN)  SET INTERRUPT RECEIVED
637 *          TBT       (R4,CS)        IS 'CS IN PROGRESS' ON
638 *          JON       INTB2          * YES, BCH AROUND UPDATE
639 *          MVB       R3,SIOIN+1      SAVE INTERRUPTING CC CODE
640 *          MVB       R7,$ISB        SAVE INTR STATUS AND DEV ADRS
641 *          INTR2     EQU       *
642 *          CPCL      R5           CURRENT LEVEL COPIED BY DCP
643 *          SLL      4,R5           POSITION INTR LEVEL AND PUT
644 *          ABI       1,R5          * IN 'I' BIT
645 *          CW        $INTL,R5      IS THIS THE CORRECT INTR LEVEL
646 *          JE        INTR3          * YES, GO EXIT THIS LEVEL
647 *          TBTS      (R4,$LE)       SET INTR LEVEL ERROR CONTROL BIT
648 *          TBTR      (R4,ER)        SET ERROR ON I/O COMMAND CNTL BIT
649 *          INTR3     TBTR      (R4,XI)  WAS INTERRUPT EXPECTED
650 *          JON       INTRX          * YES, EXIT OFF THIS INTR LEVEL
651 *          TBTS      (R4,NI)        * NO, SET HYSTERY INTR CONTROL BIT
652 *          CBI       4,R3           ATTENTION INTERRUPT?
653 *          JE        INTRX          YES
654 *          TBTS      (R4,NG)        ERROR,UNEXPECTED INTERRUPT
655 *          INTRX     SVC       EXIT    EXIT THIS LEVEL VIA SUPVR
656 * *****
657 * *****
658 *
659 * THIS IS THE CONTINUATION OF EXECUTE I/O AFTER THE INTERRUPT
660 * HAS BEEN SERVICED. THE EXERCISER FINDS AN INTERRUPT HAS BEEN
661 * RECEIVED AND BRANCHES HERE TO CHECK FOR ANY ERROR CONDITIONS.
662 *
663 *
664 * XIOCK     TBTR      (R4,XE)        WAS AN ERROR EXPECTED
665 *          BN        (R6,*          * YES, EXIT THIS ROUTINE
666 *          TBTR      (R4,CS)        WAS AUTO CS IN PROGRESS
667 *          JOFF      XIOCV          * NO, CONTINUE CHECKING
668 *          TBT       (R4,CE)        IS CS IN AN ERR CONDITION
669 *          JOFF      XIOCO          * NO, BCH
670 *          B         (R6)*          CS ERROR
671 *          XIOCO     TBTS      (R4,CSA)  TURN ON CS STATS AVAIL FLAG
672 *          BXS      (R6,2)         GO TO USER
673 *          XIOCV     TBT       (R4,ER)  WAS ERROR INTR CONTROL BIT ON
674 *          JOFF      XIOCX          * NO, EXIT THIS ROUTINE
675 *
676 *
677 *          MVB       $IOIN+1,R5      GET LAST INTR CC CODE
678 *          CBI       2,R5           IS THIS CC=2
679 *          JE        XIOCO          YES
680 *          CBI       6,R5           IS THIS CC=6
681 *          BNE      (R6)*          * NO, BCH TO ERROR HANDLER
682 *          XIOCO     MVB       $ISB,R5  GET LAST ISB DATA BYTE AND IF CS
683 *          BN        XIOCS-4        * AVAILABLE, GO AND GET IT
684 *          B         (R6)*          ERROR
685 *          XIOCX     MVWZ     OPTN3,R3  CLEAR OUT OPTION 3 CNTL BITS
686 *          BXS      (R6,2)         RETURN TO USER VIA REG 6
687 *
688 *
689 * I/O      PARAMETER LIST
690 *
691 * IOBLK    DC      A(DEVADD)        ADRS OF DEVICE ADRS
692 *          DC      A(XIOER)         ERROR ROUTINE ADRS
693 *          DC      A(*-*)           DCB ADRS OR LEVEL & INTR
694 *          DC      A(*-*)           MODIFIER
695 *          DC      A(*-*)           ADRS OF LAST SVC CALL
696 *          DC      A(*-*)           SECOND WORD OF LAST IDCB
697 *
698 *
699 * INTERRUPT CONTROL BLOCK FOR I/O COMMANDS
700 *
701 * INTBL    DC      A(DEVADD)        ADRS OF DEVICE ADRS
702 *          DC      A(INTOK)         INTERRUPT OF RETURN ADRS
703 *          DC      A(INTR)          INTERRUPT ERROR ADRS
704 *          DC      X'0003'          INTERRUPT CODE EXPECTED

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Table with columns: LOCTR, OBJECT TEXT, STMT SOURCE STATEMENT, COPYRIGHT IBM CORP 1976. Contains assembly code for disk sector ID restore.

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TABLE TO BUILD SECTOR ID'S

LOCTR	OBJECT TEXT	STMT	SOURCE STATEMENT	COPYRIGHT IBM CORP 1976
0024AC	0000	1390	DC A(*-*)	
0024AE	00	1391	* DC X'00'	ALIGN BLOCK
0024AF	D6F7C1C4F6	1392	DC C'07AD6'	READI CONTOL BLOCK
0024B4	0000	1393	RD6 DC A(*-*)	
0024B6	00	1395	* DC X'00'	ALIGN BLOCK
0024B7	D6F7C1C4F7	1396	DC C'07AD7'	READI CONTOL BLOCK
0024BC	0000	1397	RD7 DC A(*-*)	
0024BE	00	1398	* DC X'00'	ALIGN BLOCK
0024BF	D6F7C1C4F8	1399	DC C'07AD8'	READI CONTOL BLOCK
0024C4	0000	1400	RD8 DC A(*-*)	
0024C6	00	1401	* DC X'00'	ALIGN BLOCK
0024C7	D6F7C1C4F9	1402	DC C'07AD9'	READI CONTOL FLOCK
0024CC	0000	1403	RD9 DC A(*-*)	
0024CE	00	1404	* DC X'00'	ALIGN BLOCK
0024CF	D6F7C1C4C1	1405	DC C'07ADA'	READI CONTOL BLOCK
0024D4	0000	1406	RD9 DC A(*-*)	
0024D6	00	1407	* DC X'00'	ALIGN BLOCK
0024D7	D6F7C1C4C2	1408	DC C'07ADB'	READI CONTOL BLOCK
0024DC	0000	1409	RDA DC A(*-*)	
0024DE	00	1410	* DC X'00'	ALIGN BLOCK
0024DF	D6F7C1C4C3	1411	DC C'07ADC'	READI CONTOL BLOCK
0024E4	0000	1412	RD6 DC A(*-*)	
0024E6	00	1413	* DC X'00'	ALIGN BLOCK
0024E7	D6F7C1C4C4	1414	DC C'07ADD'	READI CONTOL BLOCK
0024EC	0000	1415	RD6 DC A(*-*)	
0024EE	00	1416	* DC X'00'	ALIGN BLOCK
0024EF	D6F7C1C4C5	1417	DC C'07ADE'	READI CONTOL BLOCK
0024F4	0000	1418	RDE DC A(*-*)	
0024F6	00	1419	* DC X'00'	ALIGN BLOCK
0024F7	D6F7C1C4C6	1420	DC C'07ADF'	READI CONTOL BLOCK
0024FC	0000	1421	RDF DC A(*-*)	
000000		1422	* DC X'00'	ALIGN BLOCK
		1423	DC C'07AD8'	READI CONTOL BLOCK
		1424	RD8 DC A(*-*)	
		1425	* DC X'00'	ALIGN BLOCK
		1426	DC C'07AD9'	READI CONTOL BLOCK
		1427	RD9 DC A(*-*)	
		1428	* DC X'00'	ALIGN BLOCK
		1429	DC C'07ADA'	READI CONTOL BLOCK
		1430	RD9 DC A(*-*)	
		1431	* DC X'00'	ALIGN BLOCK
		1432	DC C'07ADB'	READI CONTOL BLOCK
		1433	RD6 DC A(*-*)	
		1434	* DC X'00'	ALIGN BLOCK
			END	

DECLARED	NAME	CROSS-REFERENCE LISTING	COPYRIGHT IBM CORP 1976
728	\$CONC	ADDRESS. HEX LOCATION(00001B36) IN CSECT(U7AF2 ) LENGTH(4)	
786	\$CONX	ADDRESS. HEX LOCATION(00001B9E) IN CSECT(U7AF2 ) LENGTH(1)	
762	\$ERR\$	ADDRESS. HEX LOCATION(00001B4E) IN CSECT(U7AF2 ) LENGTH(6)	
358	\$INTL	ADDRESS. HEX LOCATION(000019E2) IN CSECT(U7AF2 ) LENGTH(2)	
323	\$IOIN	ADDRESS. HEX LOCATION(000019A4) IN CSECT(U7AF2 ) LENGTH(2)	
324	\$ISB	ADDRESS. HEX LOCATION(000019A6) IN CSECT(U7AF2 ) LENGTH(2)	
308	\$LE	ABSOLUTE. HEX VALUE(00000026)	
412	\$SEEK	ADDRESS. HEX LOCATION(000019F4) IN CSECT(U7AF2 ) LENGTH(6)	
322	\$TUID	ADDRESS. HEX LOCATION(000019A2) IN CSECT(U7AF2 ) LENGTH(2)	
419	\$WKEW	ADDRESS. HEX LOCATION(00001A04) IN CSECT(U7AF2 ) LENGTH(6)	
422	\$WSEC	ADDRESS. HEX LOCATION(00001A0C) IN CSECT(U7AF2 ) LENGTH(6)	
416	\$WTIM	ADDRESS. HEX LOCATION(000019FC) IN CSECT(U7AF2 ) LENGTH(6)	
68	@DCADD1	ADDRESS. HEX LOCATION(000018F6) IN CSECT(U7AF2 ) LENGTH(2)	
69	@DCADD2	ADDRESS. HEX LOCATION(000018F8) IN CSECT(U7AF2 ) LENGTH(2)	
51	@ETOH	ADDRESS. HEX LOCATION(00001820) IN CSECT(U7AF2 ) LENGTH(2)	
78	@MSGWTR	ADDRESS. HEX LOCATION(00001904) IN CSECT(U7AF2 ) LENGTH(4)	
72	@OUT	ADDRESS. HEX LOCATION(000018FE) IN CSECT(U7AF2 ) LENGTH(2)	
55	@OUTIN	ADDRESS. HEX LOCATION(00001828) IN CSECT(U7AF2 ) LENGTH(2)	
71	@OUT1	ADDRESS. HEX LOCATION(000018FC) IN CSECT(U7AF2 ) LENGTH(2)	
74	ABMSG	ADDRESS. HEX LOCATION(00001902) IN CSECT(U7AF2 ) LENGTH(2)	
49	ASSIGN	ADDRESS. HEX LOCATION(00001816) IN CSECT(U7AF2 ) LENGTH(8)	
791	BEGIN	ADDRESS. HEX LOCATION(00001BA8) IN CSECT(U7AF2 ) LENGTH(2)	
952	BIGF	ADDRESS. HEX LOCATION(00001DEE) IN CSECT(U7AF2 ) LENGTH(6)	
956	BIGM	ADDRESS. HEX LOCATION(00001DFE) IN CSECT(U7AF2 ) LENGTH(6)	
816	BIT0080	ABSOLUTE. HEX VALUE(00000080)	
1003	BLD1	ADDRESS. HEX LOCATION(00001E9C) IN CSECT(U7AF2 ) LENGTH(6)	
1038	BLD2	ADDRESS. HEX LOCATION(00001F1A) IN CSECT(U7AF2 ) LENGTH(6)	
1238	BLK	ADDRESS. HEX LOCATION(000022B0) IN CSECT(U7AF2 ) LENGTH(2)	
811	BUFPT	ADDRESS. HEX LOCATION(00001D04) IN CSECT(U7AF2 ) LENGTH(2)	
1000	BUILD	ADDRESS. HEX LOCATION(00001E8E) IN CSECT(U7AF2 ) LENGTH(6)	
279	B56	ABSOLUTE. HEX VALUE(00000018)	
282	B59	ABSOLUTE. HEX VALUE(0000001B)	
283	B60	ABSOLUTE. HEX VALUE(0000001C)	
312	CE	ABSOLUTE. HEX VALUE(0000002A)	
125	CICB	ABSOLUTE. HEX VALUE(00000014)	
310	CS	ABSOLUTE. HEX VALUE(00000028)	
311	CSA	ABSOLUTE. HEX VALUE(00000029)	
341	CSBUF	ADDRESS. HEX LOCATION(000019C2) IN CSECT(U7AF2 ) LENGTH(1)	
233	CSDCB	ADDRESS. HEX LOCATION(0000196C) IN CSECT(U7AF2 ) LENGTH(2)	
346	CSTL5	ADDRESS. HEX LOCATION(000019CA) IN CSECT(U7AF2 ) LENGTH(2)	
1234	DATAA	ADDRESS. HEX LOCATION(00002296) IN CSECT(U7AF2 ) LENGTH(2)	
331	DCBUF	ADDRESS. HEX LOCATION(000019B2) IN CSECT(U7AF2 ) LENGTH(1)	
812	DC2PT	ADDRESS. HEX LOCATION(00001D06) IN CSECT(U7AF2 ) LENGTH(2)	
1139	DEID	ADDRESS. HEX LOCATION(000020A2) IN CSECT(U7AF2 ) LENGTH(2)	
1140	DEID1	ADDRESS. HEX LOCATION(000020A4) IN CSECT(U7AF2 ) LENGTH(31)	
48	DEVADD	ADDRESS. HEX LOCATION(00001814) IN CSECT(U7AF2 ) LENGTH(2)	
47	DEVTAB	ADDRESS. HEX LOCATION(00001812) IN CSECT(U7AF2 ) LENGTH(2)	
326	DEV1	ADDRESS. HEX LOCATION(000019AA) IN CSECT(U7AF2 ) LENGTH(2)	
329	DEV4	ADDRESS. HEX LOCATION(000019B0) IN CSECT(U7AF2 ) LENGTH(2)	
155	EIGHT	ABSOLUTE. HEX VALUE(00000008)	
1258	EIGH8	ADDRESS. HEX LOCATION(000022D8) IN CSECT(U7AF2 ) LENGTH(2)	
303	ER	ABSOLUTE. HEX VALUE(00000021)	
130	ETOH	ABSOLUTE. HEX VALUE(00000019)	
111	EXIT	ABSOLUTE. HEX VALUE(00000006)	

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
1264	EXIT1	ADDRESS. HEX LOCATION(000022EC) IN CSECT(U7AF2 ) LENGTH(4)
814	FAKETU	ADDRESS. HEX LOCATION(00001D0A) IN CSECT(U7AF2 ) LENGTH(2)
1247	FGSEC	ADDRESS. HEX LOCATION(000022C2) IN CSECT(U7AF2 ) LENGTH(2)
1235	FILL	ADDRESS. HEX LOCATION(00002298) IN CSECT(U7AF2 ) LENGTH(23)
1255	FIVE5	ADDRESS. HEX LOCATION(000022D2) IN CSECT(U7AF2 ) LENGTH(2)
1254	FOUR4	ADDRESS. HEX LOCATION(000022D0) IN CSECT(U7AF2 ) LENGTH(2)
934	FXD	ABSOLUTE. HEX VALUE(00000018)
1248	HDCYL	ADDRESS. HEX LOCATION(000022C4) IN CSECT(U7AF2 ) LENGTH(2)
1230	HEAD	ADDRESS. HEX LOCATION(0000227C) IN CSECT(U7AF2 ) LENGTH(2)
1246	HEADS	ADDRESS. HEX LOCATION(000022C0) IN CSECT(U7AF2 ) LENGTH(2)
1231	HEAD4	ADDRESS. HEX LOCATION(0000227E) IN CSECT(U7AF2 ) LENGTH(21)
820	HEBLK	ADDRESS. HEX LOCATION(00001DOC) IN CSECT(U7AF2 ) LENGTH(2)
131	HTOE	ABSOLUTE. HEX VALUE(0000001A)
993	H048	ADDRESS. HEX LOCATION(00001E78) IN CSECT(U7AF2 ) LENGTH(4)
995	H159	ADDRESS. HEX LOCATION(00001E7E) IN CSECT(U7AF2 ) LENGTH(4)
997	H26A	ADDRESS. HEX LOCATION(00001E84) IN CSECT(U7AF2 ) LENGTH(4)
999	H37	ADDRESS. HEX LOCATION(00001E8A) IN CSECT(U7AF2 ) LENGTH(4)
1125	IBSR	ADDRESS. HEX LOCATION(00002054) IN CSECT(U7AF2 ) LENGTH(4)
1103	IBSRD	ADDRESS. HEX LOCATION(00001FFA) IN CSECT(U7AF2 ) LENGTH(4)
107	IDLE	ABSOLUTE. HEX VALUE(00000002)
1268	ID00	ADDRESS. HEX LOCATION(000022F6) IN CSECT(U7AF2 ) LENGTH(4)
1299	ID1F	ADDRESS. HEX LOCATION(00002372) IN CSECT(U7AF2 ) LENGTH(4)
1300	ID20	ADDRESS. HEX LOCATION(00002376) IN CSECT(U7AF2 ) LENGTH(4)
305	IN	ABSOLUTE. HEX VALUE(00000023)
59	INAREA	ADDRESS. HEX LOCATION(00001830) IN CSECT(U7AF2 ) LENGTH(10)
698	INTBL	ADDRESS. HEX LOCATION(00001B2E) IN CSECT(U7AF2 ) LENGTH(2)
593	INTER	ADDRESS. HEX LOCATION(00001A92) IN CSECT(U7AF2 ) LENGTH(2)
602	INTES	ADDRESS. HEX LOCATION(00001AAA) IN CSECT(U7AF2 ) LENGTH(2)
606	INTET	ADDRESS. HEX LOCATION(00001AB2) IN CSECT(U7AF2 ) LENGTH(2)
633	INTOK	ADDRESS. HEX LOCATION(00001AB6) IN CSECT(U7AF2 ) LENGTH(2)
655	INTRX	ADDRESS. HEX LOCATION(00001AE6) IN CSECT(U7AF2 ) LENGTH(2)
636	INTR1	ADDRESS. HEX LOCATION(00001ABE) IN CSECT(U7AF2 ) LENGTH(2)
641	INTR2	ADDRESS. HEX LOCATION(00001ACC) IN CSECT(U7AF2 ) LENGTH(1)
649	INTR3	ADDRESS. HEX LOCATION(00001ADA) IN CSECT(U7AF2 ) LENGTH(2)
689	IOBLK	ADDRESS. HEX LOCATION(00001B22) IN CSECT(U7AF2 ) LENGTH(2)
691	IODCB	ADDRESS. HEX LOCATION(00001B26) IN CSECT(U7AF2 ) LENGTH(2)
692	IOHOD	ADDRESS. HEX LOCATION(00001B28) IN CSECT(U7AF2 ) LENGTH(2)
1112	I7AA	ADDRESS. HEX LOCATION(0000201A) IN CSECT(U7AF2 ) LENGTH(6)
1104	I7A1	ADDRESS. HEX LOCATION(00001FFE) IN CSECT(U7AF2 ) LENGTH(4)
1110	I7A11	ADDRESS. HEX LOCATION(00002012) IN CSECT(U7AF2 ) LENGTH(6)
1114	I7A2	ADDRESS. HEX LOCATION(00002022) IN CSECT(U7AF2 ) LENGTH(6)
797	LINE1	ADDRESS. HEX LOCATION(00001BE0) IN CSECT(U7AF2 ) LENGTH(40)
325	LSTIO	ADDRESS. HEX LOCATION(000019A8) IN CSECT(U7AF2 ) LENGTH(2)
1135	MESS	ADDRESS. HEX LOCATION(0000206E) IN CSECT(U7AF2 ) LENGTH(2)
1136	MESS1	ADDRESS. HEX LOCATION(00002070) IN CSECT(U7AF2 ) LENGTH(47)
302	MI	ABSOLUTE. HEX VALUE(00000020)
1090	MOV1	ADDRESS. HEX LOCATION(00001FD2) IN CSECT(U7AF2 ) LENGTH(6)
1080	MOV2	ADDRESS. HEX LOCATION(00001FB2) IN CSECT(U7AF2 ) LENGTH(4)
1245	MSCID	ADDRESS. HEX LOCATION(000022BE) IN CSECT(U7AF2 ) LENGTH(2)
61	MSG	ADDRESS. HEX LOCATION(0000183C) IN CSECT(U7AF2 ) LENGTH(46)
951	MSGG4	ADDRESS. HEX LOCATION(00001DEA) IN CSECT(U7AF2 ) LENGTH(4)
88	MSGWTR1	ADDRESS. HEX LOCATION(00001926) IN CSECT(U7AF2 ) LENGTH(2)
1127	MSG1	ADDRESS. HEX LOCATION(00002058) IN CSECT(U7AF2 ) LENGTH(4)
1130	MSG4	ADDRESS. HEX LOCATION(00002062) IN CSECT(U7AF2 ) LENGTH(4)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
771	MVBUF	ADDRESS. HEX LOCATION(00001B6C) IN CSECT(U7AF2 ) LENGTH(2)
314	NG	ABSOLUTE. HEX VALUE(0000002C)
309	NI	ABSOLUTE. HEX VALUE(00000027)
1259	NINE9	ADDRESS. HEX LOCATION(000022DA) IN CSECT(U7AF2 ) LENGTH(2)
1251	ONE1	ADDRESS. HEX LOCATION(000022CA) IN CSECT(U7AF2 ) LENGTH(2)
267	OPTN1	ADDRESS. HEX LOCATION(0000199C) IN CSECT(U7AF2 ) LENGTH(2)
290	OPTN3	ADDRESS. HEX LOCATION(000019A0) IN CSECT(U7AF2 ) LENGTH(2)
105	OUT	ABSOLUTE. HEX VALUE(00000000)
106	OUTIN	ABSOLUTE. HEX VALUE(00000001)
1192	PHD	ADDRESS. HEX LOCATION(00002182) IN CSECT(U7AF2 ) LENGTH(4)
1187	PHDD	ADDRESS. HEX LOCATION(0000216E) IN CSECT(U7AF2 ) LENGTH(4)
1210	PHD2	ADDRESS. HEX LOCATION(000021D6) IN CSECT(U7AF2 ) LENGTH(4)
1244	PHYNU	ADDRESS. HEX LOCATION(000022BC) IN CSECT(U7AF2 ) LENGTH(2)
40	PID	ADDRESS. HEX LOCATION(00001800) IN CSECT(U7AF2 ) LENGTH(4)
815	PIDMSG10	ABSOLUTE. HEX VALUE(0000F1F0)
117	PREP	ABSOLUTE. HEX VALUE(0000000C)
1212	PRINT	ADDRESS. HEX LOCATION(000021DA) IN CSECT(U7AF2 ) LENGTH(10)
1261	PRNT	ADDRESS. HEX LOCATION(000022DE) IN CSECT(U7AF2 ) LENGTH(2)
1243	RDBUF	ADDRESS. HEX LOCATION(000022BA) IN CSECT(U7AF2 ) LENGTH(2)
1249	RDCTL	ADDRESS. HEX LOCATION(000022C6) IN CSECT(U7AF2 ) LENGTH(2)
1369	RDO	ADDRESS. HEX LOCATION(0000247F) IN CSECT(U7AF2 ) LENGTH(5)
136	READI	ABSOLUTE. HEX VALUE(0000001F)
124	RICB	ABSOLUTE. HEX VALUE(00000013)
1262	RSBA	ADDRESS. HEX LOCATION(000022E0) IN CSECT(U7AF2 ) LENGTH(2)
0	R0	REGISTER. HEX VALUE(00000000)
0	R1	REGISTER. HEX VALUE(00000001)
0	R2	REGISTER. HEX VALUE(00000002)
0	R3	REGISTER. HEX VALUE(00000003)
0	R4	REGISTER. HEX VALUE(00000004)
0	R5	REGISTER. HEX VALUE(00000005)
0	R6	REGISTER. HEX VALUE(00000006)
0	R7	REGISTER. HEX VALUE(00000007)
893	SBUF	ABSOLUTE. HEX VALUE(00002500)
63	SERIAL	ADDRESS. HEX LOCATION(0000186C) IN CSECT(U7AF2 ) LENGTH(2)
1257	SEVN7	ADDRESS. HEX LOCATION(000022D6) IN CSECT(U7AF2 ) LENGTH(2)
1256	SIX6	ADDRESS. HEX LOCATION(000022D4) IN CSECT(U7AF2 ) LENGTH(2)
222	SKDCB	ADDRESS. HEX LOCATION(0000195C) IN CSECT(U7AF2 ) LENGTH(2)
953	SMLF	ADDRESS. HEX LOCATION(00001DF4) IN CSECT(U7AF2 ) LENGTH(2)
957	SMLM	ADDRESS. HEX LOCATION(00001E04) IN CSECT(U7AF2 ) LENGTH(2)
115	START	ABSOLUTE. HEX VALUE(0000000A)
70	SUPSTAT	ADDRESS. HEX LOCATION(000018FA) IN CSECT(U7AF2 ) LENGTH(2)
1029	TC00	ADDRESS. HEX LOCATION(00001EF6) IN CSECT(U7AF2 ) LENGTH(2)
1241	TEMP	ADDRESS. HEX LOCATION(000022B6) IN CSECT(U7AF2 ) LENGTH(2)
1242	TEMP2	ADDRESS. HEX LOCATION(000022B8) IN CSECT(U7AF2 ) LENGTH(2)
1260	TENA	ADDRESS. HEX LOCATION(000022DC) IN CSECT(U7AF2 ) LENGTH(2)



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DECLARED	NAME	ATTRIBUTES AND REFERENCES
112	TERM	990 ABSOLUTE. HEX VALUE(00000007)
1253	THRE3	915 1266 ADDRESS. HEX LOCATION(000022CE) IN CSECT(U7AF2 ) LENGTH(2)
959	TSF3A	976 ADDRESS. HEX LOCATION(00001E0C) IN CSECT(U7AF2 ) LENGTH(6)
964	TSF3B	955 ADDRESS. HEX LOCATION(00001E1E) IN CSECT(U7AF2 ) LENGTH(6)
965	TSF3C	961 ADDRESS. HEX LOCATION(00001E24) IN CSECT(U7AF2 ) LENGTH(1)
1032	TS69A	963 1026 1028 ADDRESS. HEX LOCATION(00001F00) IN CSECT(U7AF2 ) LENGTH(4)
1052	TS69F	1051 ADDRESS. HEX LOCATION(00001F56) IN CSECT(U7AF2 ) LENGTH(4)
1056	TTAB	1030 ADDRESS. HEX LOCATION(00001F5A) IN CSECT(U7AF2 ) LENGTH(4)
1099	TTABR	1007 1042 ADDRESS. HEX LOCATION(00001FF6) IN CSECT(U7AF2 ) LENGTH(4)
1074	TTAB1	1056 1059 1065 ADDRESS. HEX LOCATION(00001F9E) IN CSECT(U7AF2 ) LENGTH(4)
1075	TTAB2	1078 ADDRESS. HEX LOCATION(00001FA2) IN CSECT(U7AF2 ) LENGTH(6)
1058	TTAB4	1094 ADDRESS. HEX LOCATION(00001F60) IN CSECT(U7AF2 ) LENGTH(2)
1098	TTAB5	1097 ADDRESS. HEX LOCATION(00001FF4) IN CSECT(U7AF2 ) LENGTH(2)
1077	TTAB6	1063 ADDRESS. HEX LOCATION(00001FAA) IN CSECT(U7AF2 ) LENGTH(2)
1060	TTAB7	1073 ADDRESS. HEX LOCATION(00001F64) IN CSECT(U7AF2 ) LENGTH(6)
1095	TTAB8	1076 ADDRESS. HEX LOCATION(00001FE8) IN CSECT(U7AF2 ) LENGTH(6)
1088	TTAB9	1061 ADDRESS. HEX LOCATION(00001FCC) IN CSECT(U7AF2 ) LENGTH(4)
65	TUMSGWTR	1084 ADDRESS. HEX LOCATION(00001872) IN CSECT(U7AF2 ) LENGTH(2)
359	TURTN	784 ADDRESS. HEX LOCATION(000019E4) IN CSECT(U7AF2 ) LENGTH(2)
66	TUSTATUS	789 929 ADDRESS. HEX LOCATION(00001874) IN CSECT(U7AF2 ) LENGTH(2)
67	TUWORK	762 ADDRESS. HEX LOCATION(00001876) IN CSECT(U7AF2 ) LENGTH(1)
149	TWO	766 822 ABSOLUTE. HEX VALUE(00000002)
1252	TWO2	79 ADDRESS. HEX LOCATION(000022CC) IN CSECT(U7AF2 ) LENGTH(2)
50	TYP7A	974 ADDRESS. HEX LOCATION(0000181E) IN CSECT(U7AF2 ) LENGTH(1)
1303	T048F	912 ADDRESS. HEX LOCATION(0000237E) IN CSECT(U7AF2 ) LENGTH(4)
1327	T159	993 1032 ADDRESS. HEX LOCATION(000023DE) IN CSECT(U7AF2 ) LENGTH(4)
1319	T26A	995 ADDRESS. HEX LOCATION(000023BE) IN CSECT(U7AF2 ) LENGTH(4)
1311	T37	997 ADDRESS. HEX LOCATION(0000239E) IN CSECT(U7AF2 ) LENGTH(4)
902	T7A	999 ADDRESS. HEX LOCATION(00001D32) IN CSECT(U7AF2 ) LENGTH(4)
896	T7AB	899 ADDRESS. HEX LOCATION(00001D1C) IN CSECT(U7AF2 ) LENGTH(4)
894	T7A51	900 906 ADDRESS. HEX LOCATION(00001D16) IN CSECT(U7AF2 ) LENGTH(4)
916	T7A52	892 ADDRESS. HEX LOCATION(00001D6A) IN CSECT(U7AF2 ) LENGTH(4)
908	T7A53	913 ADDRESS. HEX LOCATION(00001D4A) IN CSECT(U7AF2 ) LENGTH(4)
892	T7A95	918 1132 ADDRESS. HEX LOCATION(00001D12) IN CSECT(U7AF2 ) LENGTH(4)
1027	UPD05	42 913 ADDRESS. HEX LOCATION(00001EEE) IN CSECT(U7AF2 ) LENGTH(6)
39	U7AF2	1017 CSECT. START(00001800) LENGTH(3326) ESDID(1)
245	WKDCB	39 ADDRESS. HEX LOCATION(0000197C) IN CSECT(U7AF2 ) LENGTH(2)
256	WMDCB	419 1178 1179 1180 ADDRESS. HEX LOCATION(0000198C) IN CSECT(U7AF2 ) LENGTH(2)
1146	WRTID	416 1153 1154 ADDRESS. HEX LOCATION(000020C4) IN CSECT(U7AF2 ) LENGTH(4)
1159	WRTR	1013 1048 ADDRESS. HEX LOCATION(000020FC) IN CSECT(U7AF2 ) LENGTH(4)
1161	WRT1	1146 1175 ADDRESS. HEX LOCATION(00002100) IN CSECT(U7AF2 ) LENGTH(6)
1177	WRT2	1149 ADDRESS. HEX LOCATION(00002148) IN CSECT(U7AF2 ) LENGTH(6)
1148	WRT3	1164 ADDRESS. HEX LOCATION(000020CE) IN CSECT(U7AF2 ) LENGTH(6)
1163	WRT4	1152 ADDRESS. HEX LOCATION(0000210C) IN CSECT(U7AF2 ) LENGTH(6)
1172	WRT5	1176 ADDRESS. HEX LOCATION(00002132) IN CSECT(U7AF2 ) LENGTH(6)
211	WSDCB	1185 ADDRESS. HEX LOCATION(0000194C) IN CSECT(U7AF2 ) LENGTH(2)
306	XE	422 1165 1166 1167 ABSOLUTE. HEX VALUE(00000024)
304	XI	602 664 ABSOLUTE. HEX VALUE(00000022)
478	XIO	506 609 ADDRESS. HEX LOCATION(00001A14) IN CSECT(U7AF2 ) LENGTH(4)
664	XIOCK	413 417 420 423 ADDRESS. HEX LOCATION(00001AE8) IN CSECT(U7AF2 ) LENGTH(2)
671	XIOCO	516 ADDRESS. HEX LOCATION(00001AFA) IN CSECT(U7AF2 ) LENGTH(2)
681	XIOCQ	669 ADDRESS. HEX LOCATION(00001B10) IN CSECT(U7AF2 ) LENGTH(4)
486	XIOCS	678 ADDRESS. HEX LOCATION(00001A26) IN CSECT(U7AF2 ) LENGTH(6)
673	XIOCV	682 938 ADDRESS. HEX LOCATION(00001AFE) IN CSECT(U7AF2 ) LENGTH(2)
684	XIOCX	667 ADDRESS. HEX LOCATION(00001B1C) IN CSECT(U7AF2 ) LENGTH(4)

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DECLARED	NAME	ATTRIBUTES AND REFERENCES
557	XIOER	690 ADDRESS. HEX LOCATION(00001A86) IN CSECT(U7AF2 ) LENGTH(2)
490	XIO1	479 482 ADDRESS. HEX LOCATION(00001A36) IN CSECT(U7AF2 ) LENGTH(4)
503	XIO2	489 ADDRESS. HEX LOCATION(00001A5C) IN CSECT(U7AF2 ) LENGTH(2)
515	XIO8	522 ADDRESS. HEX LOCATION(00001A72) IN CSECT(U7AF2 ) LENGTH(2)
1250	ZERO0	970 ADDRESS. HEX LOCATION(000022C8) IN CSECT(U7AF2 ) LENGTH(2)

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