

./TITLE OPERATING SYSTEM INTERACTIVE MODE  
/7-27-71  
/DIGITAL EQUIPMENT CORPORATION; MAYNARD, MASS,  
/ED HILTON

01400

./ABS  
./LOC 1400  
./

700311 KSF=700311  
700312 KRB=700312  
700402 TCF=700402  
700401 TSF=700401  
700004 CLOF=700004  
707552 DTRA=707552  
707544 DTXA=707544  
000560 UPREFX=560  
705512 RPL=705512  
000522 TYPONE=522  
000460 TSIXBT=460  
000514 CRLF=514  
000756 SLINK=756  
000120 GETMON=120  
000004 SAVAC=4  
000540 PSOD=540  
000247 CHAIN=247  
736000 CLLR=736000  
735000 CLX=735000  
724000 PXA=724000  
730000 PLA=730000  
722000 PAL=722000  
721000 PAX=721000  
707764 EBA=707764  
707702 EEM=707702

01400  
01401  
01402  
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01407  
01410  
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01413  
01414  
01415  
01416

202660  
741000  
601747  
042606  
222606  
741200  
600247  
200100  
740200  
600247  
703302  
707764  
707702  
736000  
735000

START LAC (SLINK  
SKP  
JMP TYPEI  
DAC LTEMP  
LAC\* LTEMP  
SNA  
JMP CHAIN  
LAC 100  
SZA  
JMP CHAIN  
CAF  
EBA  
EEM  
CLLR  
CLX  
EJECT

/CHECK FOR CHAIN MODE OPERATION

/CLEAR THE WORLD

```

01417 100514 JMS CRLF
01420 100514 JMS CRLF
01421 100560 JMS UPREFX
01422 202661 LAC (SYSEXC=1
01423 100460 JMS TSIXBT
01424 100514 JMS CRLF
01425 202662 LAC (JMP SYSINT
01426 040003 DAC 3
01427 202660 LAC (SLINK /PRESET POINTERS TO BEGINNING
01430 042606 DAC LTEMP /OF SLINK,PILIST,APILST,AND
01431 202663 LAC (PILIST /EXCLST TABLES
01432 042603 DAC SRVPI
01433 202664 LAC (APILST
01434 042604 DAC SRVAPI
01435 162603 DZM# SRVPI

```

/PRESET ALL API CHANNELS WITH JMS TO ERROR TRAP

```

01436 777740 LAW =40
01437 042607 DAC LTEMP2
01440 202665 LAC (40
01441 042610 DAC LTEMP3
01442 202666 LAC (JMP ER40
01443 062610 DAC# LTEMP3
01444 442610 ISZ LTEMP3
01445 342667 TAD (2
01446 442607 ISZ LTEMP2
01447 601443 JMP ,=4

```

/NOW CHECK FOR API WANTED AND PRESENT

```

01450 750004 LAS
01451 502670 AND (400000
01452 042625 DAC APION
01453 740100 SMA
01454 601464 JMP LDISP
01455 705504 ISA
01456 705501 SPI
01457 601617 JMP APINON
01460 705514 ISA+10
01461 202671 LAC (APIMSG=1*400000
01462 100460 JMS TSIXBT
01463 100514 JMS CRLF
,EJECT

```

## /LOAD PI AND API DISPATCH TABLES

```

01464 222606 LDISP LAC* LTEMP /LTEMP CONTAINS (SLINK
01465 042607 DAC LTEMP2
01466 601473 JMP ,+5
01467 222606 LAC* LTEMP
01470 741200 SNA
01471 601573 JMP SYSINZ /END OF SLINK TABLE, INITIALIZE UNIT TESTS,
01472 042607 DAC LTEMP2
/
01473 222607 LAC* LTEMP2 /GET UODSW FOR TEST
01474 042610 DAC LTEMP3
01475 502665 AND (40
01476 740200 SZA /TEST FOR NOP BIT IN UODSW
01477 601504 JMP XLDISP /DON'T EXECUTE THIS TEST
01500 202610 LAC LTEMP3
01501 741100 SPA /IS TEST A CP TEST?
01502 601506 JMP IQDISP /I/O TEST
01503 601566 JMP PIDISP
/
01504 442606 XLDISP ISZ LTEMP /POINT AT ADDRESS OF NEXT UODSW
01505 601467 JMP LDISP+3
/
/ I/O TEST, LOAD P,I, OT A,P,I, DISPATCH TABLE
/
01506 202625 IQDISP LAC APION
01507 740100 SMA /SKIP IF API PRESENT AND WANTED
01510 601566 JMP PIDISP /NOT WANTED
/
01511 202610 LAC LTEMP3 /GET UODSW AND SEE IF DEVICE USES API
01512 744010 RCL
01513 740100 SMA
01514 601566 JMP PIDISP /DOESN'T USE API
,EJECT

```

## /STORE UEEA IN API DISPATCH TABLE

```

01515 202607      /      LAC      LTEMP2      /GET ADDRESS OF UODSW
01516 342672      TAD      (4)
01517 042623      DAC      TEMP,7
01520 222623      LAC*     TEMP,7
01521 062604      DAC*     SRVAPI
01522 202610      LAC      LTEMP3      /GET THE API CHANNEL FROM UODSW
01523 502673      AND      (37)
01524 342665      TAD      (40)
01525 042610      DAC      LTEMP3      /STORE ABSOLUTE API CHANNEL ADDRESS
01526 202627      LAC      APIGO      /APIGO = JMS* 0
01527 342604      TAD      SRVAPI      /ADD ADDRESS OF API DISPATCH TABLE ENTRY
01530 062610      DAC*     LTEMP3      /PUT JMS* TABLE ENTRY IN API TRAP ADDRESS
01531 442604      ISZ      SRVAPI
01532 222607      LAC*     LTEMP2
01533 042610      DAC      LTEMP3      /GET UODSW AND EXAMINE IT FOR MULTIPLE API ADDRESSES
01534 502674      AND      (4000)
01535 741200      SNA
01536 601565      JMP      IO,1      /ONLY ONE TRAP ADDRESS
01537 202675      LAC      (1)
01540 042655      DAC      APIPTR#
01541 202607      I0,2  LAC      LTEMP2
01542 342655      TAD      APIPTR
01543 042610      DAC      LTEMP3
01544 222610      LAC*     LTEMP3
01545 502673      AND      (37)
01546 741200      SNA
01547 601565      JMP      IO,1
01550 342665      TAD      (40)
01551 042610      DAC      LTEMP3
01552 202627      LAC      APIGO
01553 342604      TAD      SRVAPI
01554 062610      DAC*     LTEMP3
01555 222623      LAC*     TEMP,7
01556 062604      DAC*     SRVAPI
01557 442604      ISZ      SRVAPI
01560 442655      ISZ      APIPTR
01561 202655      LAC      APIPTR
01562 542672      SAD      (4)
01563 601565      JMP      IO,1
01564 601541      JMP      IO,2      /ONLY FOUR ALLOWED
01565 601504      I0,1  JMP      XLDISP

```

## /STORE UEEA IN P.I. DISPATCH TABLE

```

01566 202607      PIDISP /      LAC      LTEMP2      /GET SERVICE ADDRESS
01567 062603      DAC*     SRVPI      /PUT HIM IN SRVPI LIST
01570 442603      ISZ      SRVPI
01571 162603      DZM*     SRVPI
01572 601504      JMP      XLDISP
      ,EJECT

```

## /INITIALIZE UNIT TESTS

```

01573 202660 SYSINZ /
01574 042606          LAC      (SLINK      /GET ADDRESS OF SLINK TABLE
01575 142646          DAC      LTEMP      /CLEAR SOFTWARE TTY TIMER FLAG
01576 222606          DZM      TEXT      /GET ADDRESS OF UODSW
01577 741200          LAC*     LTEMP
01600 601626          SNA      /INITIALIZATION OF JOBS COMPLETE
01601 042607          JMP      DOJOB
01602 222607          DAC      LTEMP2
01603 502665          LAC*     LTEMP2    /UODSW
01604 740200          AND      (40      /TEST FOR NOP BIT
01605 601615          JMP      NXTZ,1   /DON'T INITIALIZE THIS TEST,
01606 202676          LAC      (5
01607 342607          TAD      LTEMP2
01610 042607          DAC      LTEMP2
01611 222607          LAC*     LTEMP2    /GET INITIALIZATION ADDRESS(U,EA)
01612 042610          DAC      LTEMP3
01613 754000          CLA;CLL
01614 122610          JMS*     LTEMP3    /DO IT!
01615 442606          /
01616 601576          NXTZ,1  ISZ      LTEMP      /RETURN HERE AND INITIALIZE NEXT TEST
01617 202675          /
01620 042650          APINON  LAC      (1)      /API WANTED BUT NOT IN MACHINE
01621 142651          DAC      ERRNUM
01622 102036          DZM      ERRNUM+1
01623 100514          JMS      ERCALL
01624 142625          JMS      CRLF
01625 601464          DZM      APION
01626 777777          JMP      LDISP
01627 042657          /
01630 102364          /TEST FOR ANY ERROR REPORTING TO BE DONE,
01631 102114          DOJOB  LAW      -1
01632 601631          DAC      PIIND#    /PROGRAM INTERRUPT ENTRY INDICATOR
          JMS      APIPI
          JMS      ERTEST
          JMP      NXTJOB
          .EJECT

```

## /PROGRAM INTERRUPT SERVICE ROUTINE

```

01633 724000 SYSINT /
01634 042653 DAC INDEXR
01635 730000 PLA
01636 042654 DAC LIMITR
01637 707764 EBA
01640 707702 EEM
01641 700314 IORS
01642 042651 DAC ERRNUM+1
01643 202657 LAC PIIND /CHECK FOR SECOND ENTRY TO INTERRUPT ROUTINE
01644 542677 SAD (-1
01645 741000 SKP /OK,
01646 740040 HLT /SECOND ENTRY WITH INTERRUPT OFF, BAD NEWS!
01647 142657 DZM PIIND
01650 202651 LAC ERRNUM+1
01651 741100 SPA /SKIP IF P.I. CONTROL IS DISABLED
01652 740040 HLT
01653 742010 RTL /KEYBOARD?
01654 740010 RAL
01655 741110 SPA/RAL
01656 601662 JMP CHKYBD
01657 741100 SPA
01660 601775 JMP CHTYPE /TELEPRINTER
01661 601707 JMP SYSIO

01662 700311 CHKYBD /
01663 740040 KSF HLT /KSF DIDN'T SKIP BUT STATUS BIT HIGH
/
01664 700312 KRB
01665 542700 SAD (203
01666 601670 JMP ,+2
01667 601675 JMP SIOEX
/
01670 707552 DTRA
01671 502701 AND (020000
01672 707544 DTXA
01673 700004 CLOF
01674 600120 JMP GETMON
,EJECT

```

/EXIT FROM PROGRAM INTERRUPT SERVICE ROUTINE

```

01675 777777 SIOEX /
01676 042657 DAC =1 /SET SWITCH TO ALLOW ENTRY TO PI ROUTINE
01677 202654 LAC PIIND
01700 722000 PAL LIMITR
01701 202653 LAC INDEXR
01702 721000 PAX
01703 200004 LAC SAVAC
01704 703344 DBR
01705 700042 ION
01706 620000 JMP# 0

```

/EXECUTE PROGRAM INTERRUPT FLAG SEARCH

```

01707 777777 SYSIO /
01710 042630 DAC NOFLAG
01711 222603 LAC* SRVPI /GET UEENA FROM P.I, DISPATCH TABLE
01712 741200 SNA
01713 601730 JMP XSYSIO /END OF P.I, SERVICE DISPATCH TABLE
01714 042623 DAC TEMP,7
01715 342672 TAD (4)
01716 042624 DAC TEMP,8
01717 222624 LAC* TEMP,8
01720 042624 DAC TEMP,8
01721 222623 LAC* TEMP,7
01722 751101 SPA:CLC
01723 122624 JMS* TEMP,8 /ENTER UNIT TESTS SKIP CHAIN

```

```

/RETURN WITH AC = -1 IF NOT DEVICE FLAG
/IF AC = 0, THEN DEVICE WAS THE ONE THAT CAUSED INTERRUPT

```

```

01724 442603 ISZ SRVPI
01725 741200 SNA
01726 601675 JMP SIOEX /INTERRUPT SOURCE DETECTED AND SERVICED,
01727 601711 JMP SYSIO+2 /TRY NEXT UNIT IN PI SERVICE TABLE

```

/REACHED THE END OF THE P.I, SERVICE DISPATCH TABLE,

```

01730 442630 XSYSIO ISZ NOFLAG /SKIP IF ANOTHER PASS IN ORDER
01731 601735 JMP ,*4 /NO UNIT TEST HAS IDENTIFIED INTERRUPT
01732 202663 LAC (PILIST
01733 042603 DAC SRVPI
01734 601711 JMP SYSIO+2
01735 202667 LAC (2)
01736 042650 DAC ERRNUM /MONITOR ERROR 02
01737 703302 CAF
01740 201735 LAC ,=3 /SET UP DELAY BEFORE TYPING
01741 042624 DAC TEMP,8
01742 442624 ISZ TEMP,8
01743 601742 JMP ,=1
01744 102036 JMS ERCALL
01745 100514 JMS CRLF

```

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OPERATING SYSTEM INTERACTIVE MODE

01746 601400

JMP START  
EJECT



/SOFTWARE TELEPRINTER FLAG TIMER

01747	700002	TYPEI	IOF	
01750	202646		LAC	TEXT
01751	542702		SAD	(=2
01752	601772		JMP	TYPE,1
01753	740200		SZA	
01754	740040		HLT	
01755	777777		LAW	=1
01756	042646		DAC	TEXT
01757	700042		ION	
01760	201751		LAC	TYPEI+2
01761	042647		DAC	TCNT
01762	202646		LAC	TEXT
01763	741200		SNA	
01764	620522		JMP*	TYPONE
01765	442647		ISZ	TCNT
01766	601762		JMP	=4
01767	700401		TSF	
01770	740040		HLT	
01771	620522		JMP*	TYPONE
			/	
01772	142646	TYPE,1	DZM	TEXT
01773	700042		ION	
01774	620522		JMP*	TYPONE
			/	
01775	700401	CHTYPE	TSF	
01776	740040		HLT	
			/	
01777	700402		TCF	
02000	202646		LAC	TEXT
02001	542677		SAD	(=1
02002	602010		JMP	CHT,1
02003	740200		SZA	
02004	740040		HLT	
02005	777776		LAW	=2
02006	042646		DAC	TEXT
02007	601675		JMP	SIOEX
			/	
02010	142646	CHT,1	DZM	TEXT
02011	601675		JMP	SIOEX
			,EJECT	

/TSF DID NOT SKIP BUT STATUS BIT HIGH

/API BREAK TO INCORRECT CHANNEL

02012	040004	APIERR	DAC	SAVAC
02013	700002		IOF	
02014	705514		ISA+10	
02015	705512		RPL	
02016	042652		DAC	ERRNUM+2
02017	700314		IORS	
02020	042651		DAC	ERRNUM+1
02021	703302		CAF	
02022	202703		LAC	(3)
02023	042650		DAC	ERRNUM
02024	102036		JMS	ERCALL
02025	102050		JMS	SPACE2
02026	202652		LAC	ERRNUM+2
02027	100540		JMS	PSOD
02030	102050		JMS	SPACE2
02031	200004		LAC	SAVAC
02032	502704		AND	(77)
02033	100540		JMS	PSOD
02034	100514		JMS	CRLF
02035	601400		JMP	START

/IDENTIFY AND REPORT ALL MONITOR ERRORS

02036	000000	ERCALL	Ø	
02037	202705		LAC	(TSYSER=1+400000
02040	100460		JMS	TSIXBT
02041	202650		LAC	ERRNUM
02042	100540		JMS	PSOD
02043	102050		JMS	SPACE2
02044	202651		LAC	ERRNUM+1
02045	100540		JMS	PSOD
02046	142651		DZM	ERRNUM+1
02047	622036		JMP*	ERCALL
			.EJECT	

02050 000000  
 02051 760240  
 02052 100522  
 02053 760240  
 02054 100522  
 02055 622050

SPACE2 0  
 LAW 240  
 JMS TYPONE  
 LAW 240  
 JMS TYPONE  
 JMP\* SPACE2

/PRINT THE ENTIRE SYSTEM STATUS ON ANY ERROR

02056 703302  
 02057 102256  
 02060 700002  
 02061 705514  
 02062 202660  
 02063 042620  
 02064 222620  
 02065 741200  
 02066 600122  
 02067 342676  
 02070 040011  
 02071 220011  
 02072 042632  
 02073 220011  
 02074 042633  
 02075 202706  
 02076 100460  
 02077 102050  
 02100 777774  
 02101 042036  
 02102 222620  
 02103 042621  
 02104 222621  
 02105 100540  
 02106 102050  
 02107 442621  
 02110 442036  
 02111 602104  
 02112 442620  
 02113 602064

SYSSTA CAF  
 JMS PRTER  
 IOF  
 ISA+10  
 LAC (SLINK  
 DAC TEMP4  
 STATA LAC# TEMP4  
 SNA  
 JMP GETMON+2  
 TAD (5  
 DAC 11  
 LAC# 11  
 DAC A  
 LAC# 11  
 DAC A+1  
 LAC (A+1+400000  
 JMS TSIXBT  
 JMS SPACE2  
 LAW 4  
 DAC ERCALL  
 LAC# TEMP4  
 DAC TEMP5  
 LAC# TEMP5  
 JMS PSOD  
 JMS SPACE2  
 ISZ TEMP5  
 ISZ ERCALL  
 JMP 5  
 ISZ TEMP4  
 JMP STATA  
 .EJECT

/SET UP COUNTER FOR UODSW  
 /TO UODSW+3

/NOW CHECK ALL TESTS FOR AN ERROR CONDITION  
 /ASYSER IN THE TEST (UODSW+20) CONTAINS =4,=3,=2,=1 OR 0  
 /0 IS NO ERROR; =1 IS ERROR; =2 IS ERROR AND ENTER THROUGH  
 /SERVICE ADDRESS; =3 IS ERROR AND ENTER THROUGH INITIALIZATION ADDRESS;  
 /-4 IS FOR DONE MESSAGE; =5 MEANS RE-ENTER VIA SERVICE ENTRANCE NO ERROR,  
 /-6 IS FOR THE REAL TIME CLOCK, NOT A VALID ERROR SO WON'T HALT ON SW01=1  
 /-7 IS FOR RE-ENTER VIA INITIALIZATION ENTRANCE, NO ERROR,

```

02114 000000 ERTEST 0
02115 202660 LAC (SLINK
02116 042620 DAC TEMP4
02117 222620 LAC* TEMP4
02120 741200 SNA
02121 622114 JMP* ERTEST /EXIT, END OF SLINK TABLE
02122 342707 TAD (20
02123 042621 DAC TEMP5 /ADDRESS OF SYSERR
02124 700002 IOF
02125 705514 ISA+10
02126 222621 LAC* TEMP5
02127 740200 SZA /ANY ERROR
02130 602134 JMP ER,1
02131 442620 ISZ TEMP4 /NO ERROR
02132 102364 JMS APIPI
02133 602117 JMP ERTEST+3
/
02134 042656 ER,1 DAC ERRWD
02135 202656 LAC ERRWD#
02136 542710 SAD (=4
02137 602210 JMP PRTDUN /TEST IS DONE
02140 542711 SAD (=5
02141 602204 JMP RES,1
02142 542712 SAD (=6 /CLOCK TIME
02143 602360 JMP PRERR /YES
02144 542713 SAD (=7
02145 602206 JMP REIN,1
02146 750004 LAS /CHECK FOR SHUTDOWN ON FIRST ERROR
02147 740010 RAL
02150 741100 SPA
02151 602056 JMP SYSTA /SHUTDOWN
02152 202656 LAC ERRWD
02153 542677 SAD (=1
02154 602360 JMP PRERR
02155 542714 SAD (=3
02156 602365 JMP REINI /PRINT ERROR AND RE-ENTER BY REINITIALIZING
02157 542702 SAD (=2
02160 602340 JMP RESERV /PRINT ERROR AND RE-ENTER BY SERVICE
      .EJECT
  
```

02161	202676		LAC	(5
02162	362620		TAD*	TEMP4
02163	040012		DAC	12
02164	220012		LAC*	12
02165	042632		DAC	A
02166	220012		LAC*	12
02167	042633		DAC	A*1
02170	162621		DZM*	TEMP5
02171	202715		LAC	(ILLERR=1*400000
02172	100460		JMS	TSIXBT
02173	202716		LAC	(A=1
02174	100460		JMS	TSIXBT
02175	102050		JMS	SPACE2
02176	202656		LAC	ERRWD
02177	100540		JMS	PSOD
02200	100514		JMS	GRLF
02201	102364		JMS	APIPI
02202	442620	ERTSTA	ISZ	TEMP4
02203	602117		JMP	ERTEST+3
			/	
02204	162621	RES,1	DZM*	TEMP5
02205	602341		JMP	RESERV+1
			/	
02206	162621	REIN,1	DZM*	TEMP5
02207	602336		JMP	REINIT+1
			,EJECT	

/CHECK SW02 TO SEE IF OPERATOR WANTS TO PRINT DONE MESSAGE  
/FOR EACH DEVICE AS IT FINISHES ONE PASS THROUGH TEST

02210	162621	PRTDUN	DZM*	TEMP5	
02211	102364		JMS	APIPI	/CHECK FOR TURNING ON API
02212	202707		LAC	(20	/CHECK TO SEE IF AN ERROR EXISTS
02213	362620		TAD*	TEMP4	/BY CHECKING WC LOCATION IN USER
02214	040011		DAC	11	
02215	220011		LAC*	11	
02216	740200		SZA		
02217	102256		JMS	PRTERR	
02220	750004		LAS		
02221	742010		RTL		
02222	741100		SPA		
02223	602336		JMP	REINIT+1	
02224	202676		LAC	(5	
02225	362620		TAD*	TEMP4	
02226	040014		DAC	14	
02227	220014		LAC*	14	
02230	042632		DAC	A	
02231	220014		LAC*	14	
02232	042633		DAC	A+1	
02233	202706		LAC	(A=1+400000	
02234	100460		JMS	TSIXBT	
02235	202717		LAC	(DUN=1	
02236	100460		JMS	TSIXBT	
02237	100514		JMS	CRLF	
02240	602336		JMP	REINIT+1	

/ILLEGAL WORD COUNT IN USER ERROR TABLE

02241	042617	ILWCCD	DAC	TEMP3	
02242	102364		JMS	APIPI	
02243	202720		LAC	(ILWCMS=1+400000	
02244	100460		JMS	TSIXBT	
02245	202716		LAC	(A=1	
02246	100460		JMS	TSIXBT	
02247	102050		JMS	SPACE2	
02250	202617		LAC	TEMP3	
02251	100540		JMS	PSOD	
02252	700002		IOF		
02253	705514		ISA+10		
02254	777770		LAW	=10	
02255	602314		JMP	SICNT	
			EJECT		

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02256 000000 PRTRR 0
02257 750004 LAS
02260 502721 AND (040000)
02261 741200 SNA
02262 602266 JMP PRTR,1
02263 162621 DZM# TEMP5 /PRINT NO USER ERROR
02264 102364 JMS APIPI
02265 622256 JMP# PRTRR
/
02266 222620 PRTR,1 LAC# TEMP4
02267 342676 TAD (5)
02270 040011 DAC 11
02271 220011 LAC# 11 /GET FIRST PART OF TITLE
02272 042632 DAC A /GET SECOND PART OF TITLE
02273 220011 LAC# 11 /ADDRESS =1 OF DATA BUFFER
02274 042633 DAC A+1
02275 202722 LAC (B=1)
02276 040012 DAC 12
02277 040013 DAC 13
02300 222620 LAC# TEMP4 /GET ADDRESS =1 OF ERROR WC IN USER
02301 342707 TAD (20)
02302 040011 DAC 11
02303 220011 LAC# 11
02304 740100 SMA /WORD COUNT NEGATIVE?
02305 602241 JMP ILWCCD /ILLEGAL WORD COUNT IN USER ERROR TABLE
02306 342723 TAD (10)
02307 740100 SMA
02310 602313 JMP ,+3
02311 342724 TAD (=10)
02312 602241 JMP ILWCCD /TOO NEGATIVE (>=10)
02313 342724 TAD (=10)
/
02314 042612 STCNT DAC LTEMP6 /WORD COUNTER
02315 042613 DAC LTEMP7
02316 220011 LAC# 11
02317 060012 DAC# 12
02320 442612 ISZ LTEMP6
02321 602316 JMP ,+3 /DATA WORD ACQUISITION COMPLETE
02322 162621 DZM# TEMP5 /CLEAR ERROR WORD FOR THE DEVICE
02323 102364 JMS APIPI
02324 202706 LAC (A=1+400000)
02325 100460 JMS TSIXBT
02326 102050 JMS SPACE2
02327 220013 LAC# 13
02330 100540 JMS PSOD
02331 442613 ISZ LTEMP7
02332 602326 JMP ,+4
02333 100514 JMS CRLF
02334 622256 JMP# PRTRR
,EJECT

```

02335	102256	REINIT	JMS	PRTERR	
02336	202676		LAC	(5)	/CALCULATE INITIALIZATION ADDRESS
02337	602342		JMP	RESERV+2	
			/		
02340	102256	RESERV	JMS	PRTERR	/PRINT ERROR AND ENTER THE
02341	202672		LAC	(4)	/SERVICE ENTRANCE
02342	362620		TAD*	TEMP4	
02343	042621		DAC	TEMP5	
02344	222621		LAC*	TEMP5	
02345	042621		DAC	TEMP5	
02346	222620		LAC*	TEMP4	
02347	042622		DAC	TEMP,6	
02350	222622		LAC*	TEMP,6	
02351	740100		SMA		
02352	602362		JMP	CPSERV	
02353	700002		IOF		
02354	705514		ISA+10		
02355	122621	RESV,1	JMS*	TEMP5	
02356	102364		JMS	APIPI	
02357	602202		JMP	ERTSTA	
			/		
02360	102256	PRERR	JMS	PRTERR	/PRINT ERROR
02361	602202		JMP	ERTSTA	/DEVICE WILL GET INTERRUPT AND CONTINUE
02362	102364	CPSERV	JMS	APIPI	
02363	602355		JMP	RESV,1	
			/		
02364	000000	APIPI	0		
02365	202625		LAC	APION	
02366	740100		SMA		
02367	602371		JMP	,+2	
02370	705504		ISA		
02371	700042		ION		
02372	622364		JMP*	APIPI	
			,EJECT		



/EXECUTE UNIT TEST PROGRAMS

/PROGRAM INTERRUPT SERVICE DISPATCH TABLE

02373	000000	PILIST 0
		REPT 24
		0
02374	000000	
02375	000000	*R
02376	000000	*R
02377	000000	*R
02400	000000	*R
02401	000000	*R
02402	000000	*R
02403	000000	*R
02404	000000	*R
02405	000000	*R
02406	000000	*R
02407	000000	*R
02410	000000	*R
02411	000000	*R
02412	000000	*R
02413	000000	*R
02414	000000	*R
02415	000000	*R
02416	000000	*R
02417	000000	*R

/API SERVICE DISPATCH TABLE

02420	000000	APILST 0
		REPT 24
		0
02421	000000	
02422	000000	*R
02423	000000	*R
02424	000000	*R
02425	000000	*R
02426	000000	*R
02427	000000	*R
02430	000000	*R
02431	000000	*R
02432	000000	*R
02433	000000	*R
02434	000000	*R
02435	000000	*R
02436	000000	*R
02437	000000	*R
02440	000000	*R
02441	000000	*R
02442	000000	*R
02443	000000	*R
02444	000000	*R

EJECT

02445	760040	ER40	LAW	40
02446	602012		JMP	APIERR
02447	760041	ER41	LAW	41
02450	602012		JMP	APIERR
02451	760042	ER42	LAW	42
02452	602012		JMP	APIERR
02453	760043	ER43	LAW	43
02454	602012		JMP	APIERR
02455	760044	ER44	LAW	44
02456	602012		JMP	APIERR
02457	760045	ER45	LAW	45
02460	602012		JMP	APIERR
02461	760046	ER46	LAW	46
02462	602012		JMP	APIERR
02463	760047	ER47	LAW	47
02464	602012		JMP	APIERR
02465	760050	ER50	LAW	50
02466	602012		JMP	APIERR
02467	760051	ER51	LAW	51
02470	602012		JMP	APIERR
02471	760052	ER52	LAW	52
02472	602012		JMP	APIERR
02473	760053	ER53	LAW	53
02474	602012		JMP	APIERR
02475	760054	ER54	LAW	54
02476	602012		JMP	APIERR
02477	760055	ER55	LAW	55
02500	602012		JMP	APIERR
02501	760056	ER56	LAW	56
02502	602012		JMP	APIERR
02503	760057	ER57	LAW	57
02504	602012		JMP	APIERR

,EJECT

02505	760060	ER60	LAW	60
02506	602012		JMP	APIERR
02507	760061	ER61	LAW	61
02510	602012		JMP	APIERR
02511	760062	ER62	LAW	62
02512	602012		JMP	APIERR
02513	760063	ER63	LAW	63
02514	602012		JMP	APIERR
02515	760064	ER64	LAW	64
02516	602012		JMP	APIERR
02517	760065	ER65	LAW	65
02520	602012		JMP	APIERR
02521	760066	ER66	LAW	66
02522	602012		JMP	APIERR
02523	760067	ER67	LAW	67
02524	602012		JMP	APIERR
02525	760070	ER70	LAW	70
02526	602012		JMP	APIERR
02527	760071	ER71	LAW	71
02530	602012		JMP	APIERR
02531	760072	ER72	LAW	72
02532	602012		JMP	APIERR
02533	760073	ER73	LAW	73
02534	602012		JMP	APIERR
02535	760074	ER74	LAW	74
02536	602012		JMP	APIERR
02537	760075	ER75	LAW	75
02540	602012		JMP	APIERR
02541	760076	ER76	LAW	76
02542	602012		JMP	APIERR
02543	760077	ER77	LAW	77
02544	602012		JMP	APIERR

.EJECT

02545	172005	SYSEXC ,SIXBT !OPERATING SYSTEM V3B@!
02546	220124	
02547	111607	
02550	402331	
02551	232405	
02552	154026	
02553	630200	
02554	233123	TSYSER ,SIXBT !SYSERR @!
02555	052222	
02556	404000	
02557	400417	DUN ,SIXBT ! DONE@!
02560	160500	
02561	111414	ILLERR ,SIXBT !ILLEGAL ERR CODE @!
02562	050701	
02563	144005	
02564	222240	
02565	031704	
02566	054000	
02567	111414	ILWCMS ,SIXBT !ILLEGAL WC IN ERR TABLE @!
02570	050701	
02571	144027	
02572	034011	
02573	164005	
02574	222240	
02575	240102	
02576	140540	
02577	000000	
02600	012011	APIMSG ,SIXBT !API ON@!
02601	401716	
02602	000000	
		,EJECT

02603	000000	SRVPI	0	
02604	000000	SRVAPI	0	
02605	000000	SRVCP	0	
02606	000000	LTEMP	0	
02607	000000	LTEMP2	0	
02610	000000	LTEMP3	0	
02611	000000	LTEMP4	0	
02612	000000	LTEMP6	0	
02613	000000	LTEMP7	0	
02614	000000	TEMP0	0	
02615	000000	TEMP1	0	
02616	000000	TEMP2	0	
02617	000000	TEMP3	0	
02620	000000	TEMP4	0	
02621	000000	TEMP5	0	
02622	000000	TEMP,6	0	
02623	000000	TEMP,7	0	
02624	000000	TEMP,8	0	
02625	000000	APION	0	
02626	000000	APIERF	0	
02627	120000	APIGO	JMS#	0
02630	000000	NOFLAG	0	
02631	000000	SLOCNT	0	
02632	000000	A	0	
02633	000000		0	
02634	000000		0	
02635	000000	B	0	
02636	000000		0	
02637	000000		0	
02640	000000		0	
02641	000000		0	
02642	000000		0	
02643	000000		0	
02644	000000		0	
02645	000000		0	
02646	000000	TEXT	0	
02647	000000	TCNT	0	
02650	000000	ERRNUM	0	
02651	000000		0	
02652	000000		0	
02653	000000	INDEXR	0	
02654	000000	LIMITR	0	

.EJECT

000000  
02660 000756 #L  
02661 002544 #L  
02662 601633 #L  
02663 002373 #L  
02664 002420 #L  
02665 000040 #L  
02666 602445 #L  
02667 000002 #L  
02670 400000 #L  
02671 402577 #L  
02672 000004 #L  
02673 000037 #L  
02674 004000 #L  
02675 000001 #L  
02676 000005 #L  
02677 777777 #L  
02700 000203 #L  
02701 020000 #L  
02702 777776 #L  
02703 000003 #L  
02704 000077 #L  
02705 402553 #L  
02706 402631 #L  
02707 000020 #L  
02710 777774 #L  
02711 777773 #L  
02712 777772 #L  
02713 777771 #L  
02714 777775 #L  
02715 402560 #L  
02716 002631 #L  
02717 002556 #L  
02720 402566 #L  
02721 040000 #L  
02722 002634 #L  
02723 000010 #L  
02724 777770 #L

.END

SIZE=02731

NO ERROR LINES

A	02632	APIERF	02626	APIERR	02012	APIGO	02627
APILST	02420	APIMSG	02600	APINON	01617	APION	02625
APIPI	02364	APIPTR	02655	B	02635	CHAIN	000247
CHKYBD	01662	CHTYPE	01775	CHT,1	02010	CLLR	736000
CLOF	700004	CLX	735000	CPSERV	02362	CRLF	000514
DOJOB	01626	DTRA	707552	DTXA	707544	DUN	02557
EBA	707764	EEM	707702	ERCALL	02036	ERRNUM	02650
ERRWD	02656	ERTEST	02114	ERTSTA	02202	ER,1	02134
ER40	02445	ER41	02447	ER42	02451	ER43	02453
ER44	02455	ER45	02457	ER46	02461	ER47	02463
ER50	02465	ER51	02467	ER52	02471	ER53	02473
ER54	02475	ER55	02477	ER56	02501	ER57	02503
ER60	02505	ER61	02507	ER62	02511	ER63	02513
ER64	02515	ER65	02517	ER66	02521	ER67	02523
ER70	02525	ER71	02527	ER72	02531	ER73	02533
ER74	02535	ER75	02537	ER76	02541	ER77	02543
GETMON	000120	ILLERR	02561	ILWCCD	02241	ILWCMS	02567
INDEXR	02653	IODISP	01506	IO,1	01565	IO,2	01541
KRB	700312	KSF	700311	LDISP	01464	LIMITR	02654
LTEMP	02606	LTEMP2	02607	LTEMP3	02610	LTEMP4	02611
LTEMP6	02612	LTEMP7	02613	NOFLAG	02630	NXTINZ	01576
NXTJOB	01631	NXTZ,1	01615	PAL	722000	PAX	721000
PIDISP	01566	PIIND	02657	PILIST	02373	PLA	730000
PRERR	02360	PRTDUN	02210	PRTERR	02256	PRTR,1	02266
PSOD	000540	PXA	724000	REINIT	02335	REIN,1	02206
RESERV	02340	RESV,1	02355	RES,1	02204	RPL	705512
SAVAC	000004	SIOEX	01675	SLINK	000756	SLOCNT	02631
SPACE2	02050	SRVAPI	02604	SRVCP	02605	SRVPI	02603
START	01400	STATA	02064	STCNT	02314	SYSEXC	02545
SYSINT	01633	SYSINZ	01573	SYSIO	01707	SYSSTA	02056
TCF	700402	TCNT	02647	TEMP,6	02622	TEMP,7	02623
TEMP,8	02624	TEMP0	02614	TEMP1	02615	TEMP2	02616
TEMP3	02617	TEMP4	02620	TEMP5	02621	TEXTIT	02646
TSF	700401	TSIXBT	000460	TSYSER	02554	TYPEI	01747
TYPE,1	01772	TYPONE	000522	UPREFX	000560	XLDISP	01504
XSYSIO	01730						

SAVAC	000004	GETMON	000120	CHAIN	000247	TSIXBT	000460
CRLF	000514	TYPONE	000522	PSOD	000540	UPREFX	000560
SLINK	000756	START	01400	LDISP	01464	XLDISP	01504
IODISP	01506	IO,2	01541	IO,1	01565	PIDISP	01566
SYSINZ	01573	NXTINZ	01576	NXTZ,1	01615	APINON	01617
DQJOB	01626	NXTJOB	01631	SYSINT	01633	CHKYBD	01662
SIOEX	01675	SYSIO	01707	XSYSIO	01730	TYPEI	01747
TYPE,1	01772	CHTYPE	01775	CHT,1	02010	APIERR	02012
ERCALL	02036	SPACE2	02050	SYSSTA	02056	STATA	02064
ERTEST	02114	ER,1	02134	ERTSTA	02202	RES,1	02204
REIN,1	02206	PRTDUN	02210	ILWCCD	02241	PRTERR	02256
PRTR,1	02266	STCNT	02314	REINIT	02335	RESERV	02340
RESV,1	02355	PRERR	02360	CPSERV	02362	APIPI	02364
PILIST	02373	APILST	02420	ER40	02445	ER41	02447
ER42	02451	ER43	02453	ER44	02455	ER45	02457
ER46	02461	ER47	02463	ER50	02465	ER51	02467
ER52	02471	ER53	02473	ER54	02475	ER55	02477
ER56	02501	ER57	02503	ER60	02505	ER61	02507
ER62	02511	ER63	02513	ER64	02515	ER65	02517
ER66	02521	ER67	02523	ER70	02525	ER71	02527
ER72	02531	ER73	02533	ER74	02535	ER75	02537
ER76	02541	ER77	02543	SYSEXC	02545	TSYSER	02554
DUN	02557	ILLERR	02561	ILWCMS	02567	APIMSG	02600
SRVPI	02603	SRVAPI	02604	SRVCP	02605	LTEMP	02606
LTEMP2	02607	LTEMP3	02610	LTEMP4	02611	LTEMP6	02612
LTEMP7	02613	TEMP0	02614	TEMP1	02615	TEMP2	02616
TEMP3	02617	TEMP4	02620	TEMP5	02621	TEMP,6	02622
TEMP,7	02623	TEMP,8	02624	APIQN	02625	APIERF	02626
APIGO	02627	NOFLAG	02630	SLOCNT	02631	A	02632
B	02635	TEXTIT	02646	TCNT	02647	ERRNUM	02650
INDEXR	02653	LIMITR	02654	APIPTR	02655	ERRWD	02656
PIIND	02657	CLOF	700004	KSF	700311	KRB	700312
TSF	700401	TCF	700402	RPL	705512	DTXA	707544
DTRA	707552	EEM	707702	EBA	707764	PAX	721000
PAL	722000	PXA	724000	PLA	730000	CLX	735000
CLLR	736000						