

DQ11

DQ11 TRIAL PROGRAM
CZDQGB0

AH-8631B-MC

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FICHE 1 OF 1

MAR 1978

digital

MADE IN USA

EOF1CZDMGDSEQ
PDP10 411
CZDQGB.P11

00010000
SEQ 00001
28-DEC-77 13:17

780223
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DQ11 MANUAL PARAMETER INPUT PROGRAM.

HDR1CZDQGBSEQ

00010000

780223

IDENTIFICATION

PRODUCT CODE: AC-86308-MC
PRODUCT NAME: CZDQGB0 DQ11 TRIAL PRG
DATE: FEB 1978
MAINTAINER: DIAGNOSTICS
AUTHOR: JOHN EGOLF.JUAN VALDES

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1. ABSTRACT

SINCE THE DQ11 HAS MANY VARIATIONS AND IT IS THE INTENT OF ALL THE DIAGNOSTICS TO RUN MULTIPLE DEVICES CONFIGURED DIFFERENTLY OR ALIKE; THE PROGRAM MUST RECEIVE INFORMATION ON THE CONFIGURATION OF EACH DQ11, THE CSRS, AND THE VECTORS FOR ALL DQ11S. THE PROGRAMS WERE WRITTEN TO ALLOW THE GREATEST FLEXIBILITY IN CONFIGURATION POSSIBLE; BUT TO GET THE INFORMATION NEEDED TO RUN THE PROGRAMS WAS A PROBLEM.

THERE ARE TWO WAYS PROVIDED TO SUPPLY NEEDED INFORMATION FOR DIAGNOSTICS:

- 1: ON THE INITIAL START OF ANY DQ11 DIAGNOSTIC IF SW07=0 THE PROGRAM WILL *AUTO SIZE* FOR DQ11S AND THEIR OPTIONS. (THIS WILL WORK GREAT IF THE DQ11 ARE OPERATING WELL ENOUGH TO RESPOND TO THE SIZING TESTS.
- 2: IF THE DQ11 IS SO BROKEN THAT IT WILL NOT RESPOND TO AUTO SIZING THE SECOND METHOD IS USED. THIS PROGRAM ALLOWS THE USER TO TYPE IN THE INFORMATION ABOUT THE CONFIGURATION TO ALERT THE DIAGNOSTIC OF THE SYSTEM.
 NOTE AFTER RUNNING THIS PROGRAM AND SUPPLYING THE INFORMATION SW07 MUST BE SET (=1)
 IF USING XXDP MEDIUM PLEASE DO NOT RE-BOOT!

AFTER THIS PROGRAM HAS BEEN RUN THERE IS NO REASON TO RUN IT AGAIN UNLESS

- 1: DQ11 CONFIGURATION IS CHANGED
- 2: DIAGNOSTICS OTHER THAN DQ11 DIAGNOSTIC WERE RUN.
- 3: MEMORY WAS ALTERED FOR SOME REASON.

THIS PROGRAM BUILDS A TABLE STARTING AT ADD. 1400
 ALL DQ11 DIAGNOSTICS REFERENCE THIS TABLE FOR INFORMATION.
 YOU DON'T HAVE TO RUN THIS PROGRAM FOR EACH SINGLE RUNNING OF THE DIAGNOSTICS. ONLY IF THE ABOVE 3 WERE VIOLATED.

2. REQUIREMENTS

PDP-11 FAMILY PROCESSOR
 ASR 33 OR EQUIVALENT
 AT LEAST 4K OF MEMEORY

3. STARTING PROCEDURE

LOAD PROGRAM INTO CORE LIKE ANY PROGRAM.
 LOAD AND START ADD. 000200
 ANSWER ALL QUESTIONS NOTE: ANY NUMBERS USED ARE *OCTAL*

E01

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DQ11 MANUAL PARAMETER INPUT PROGRAM.

SEQ 0004

```
          :TRAPCATCHER FOR ILLEGAL INTERRUPTS
(3)      . = 0
(3)      000000 000000      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000002 000002      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000004 000000      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000006 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000010 000012      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000012 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000014 000016      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000016 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000020 000022      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000022 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000024 000026      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000026 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000030 000032      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000032 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000034 000036      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000036 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000040 000042      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000042 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000044 000046      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000046 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000050 000052      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000052 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000054 000056      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000056 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000060 000062      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000062 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000064 000066      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000066 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000070 000072      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000072 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000074 000076      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000076 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000100 000102      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000102 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000104 000106      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000106 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000110 000112      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000112 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000114 000116      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000116 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000120 000122      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000122 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000124 000126      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000126 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000130 000132      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000132 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000134 000136      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000136 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000140 000142      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000142 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000144 000146      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000146 000000      HALT      :EXAMINE STACK TO FIND CAUSE
(3)      000150 000152      .+2      :UNEXPECTED TRAP TO THIS LOCATION
(3)      000152 000000      HALT      :EXAMINE STACK TO FIND CAUSE
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F01

(3)	000154	000156	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000156	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000160	000162	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000162	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000164	000166	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000166	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000170	000172	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000172	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000174	000176	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000176	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000200	000202	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000202	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000204	000206	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000206	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000210	000212	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000212	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000214	000216	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000216	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000220	000222	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000222	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000224	000226	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000226	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000230	000232	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000232	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000234	000236	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000236	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000240	000242	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000242	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000244	000246	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000246	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000250	000252	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000252	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000254	000256	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000256	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000260	000262	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000262	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000264	000266	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000266	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000270	000272	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000272	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000274	000276	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000276	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000300	000302	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000302	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000304	000306	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000306	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000310	000312	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000312	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000314	000316	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000316	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000320	000322	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000322	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000324	000326	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000326	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000330	000332	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000332	000000	HALT	:EXAMINE STACK TO FIND CAUSE

GO1

(3)	000334	000336	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000336	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000340	000342	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000342	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000344	000346	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000346	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000350	000352	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000352	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000354	000356	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000356	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000360	000362	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000362	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000364	000366	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000366	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000370	000372	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000372	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000374	000376	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000376	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000400	000402	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000402	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000404	000406	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000406	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000410	000412	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000412	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000414	000416	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000416	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000420	000422	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000422	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000424	000426	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000426	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000430	000432	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000432	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000434	000436	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000436	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000440	000442	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000442	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000444	000446	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000446	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000450	000452	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000452	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000454	000456	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000456	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000460	000462	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000462	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000464	000466	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000466	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000470	000472	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000472	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000474	000476	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000476	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000500	000502	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000502	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000504	000506	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000506	000000	HALT	: EXAMINE STACK TO FIND CAUSE
(3)	000510	000512	.+2	: UNEXPECTED TRAP TO THIS LOCATION
(3)	000512	000000	HALT	: EXAMINE STACK TO FIND CAUSE

H01

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SEQ 0007

DQ11 MANUAL PARAMETER INPUT PROGRAM.

(3)	000514	000516	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000516	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000520	000522	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000522	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000524	000526	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000526	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000530	000532	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000532	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000534	000536	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000536	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000540	000542	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000542	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000544	000546	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000546	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000550	000552	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000552	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000554	000556	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000556	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000560	000562	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000562	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000564	000566	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000566	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000570	000572	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000572	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000574	000576	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000576	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000600	000602	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000602	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000604	000606	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000606	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000610	000612	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000612	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000614	000616	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000616	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000620	000622	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000622	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000624	000626	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000626	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000630	000632	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000632	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000634	000636	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000636	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000640	000642	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000642	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000644	000646	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000646	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000650	000652	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000652	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000654	000656	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000656	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000660	000662	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000662	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000664	000666	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000666	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000670	000672	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000672	000000	HALT	:EXAMINE STACK TO FIND CAUSE

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DQ11 MANUAL PARAMETER INPUT PROGRAM.

SEQ 0008

(3)	000674	000676	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000676	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000700	000702	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000702	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000704	000706	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000706	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000710	000712	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000712	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000714	000716	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000716	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000720	000722	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000722	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000724	000726	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000726	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000730	000732	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000732	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000734	000736	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000736	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000740	000742	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000742	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000744	000746	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000746	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000750	000752	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000752	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000754	000756	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000756	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000760	000762	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000762	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000764	000766	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000766	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000770	000772	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000772	000000	HALT	;EXAMINE STACK TO FIND CAUSE
(3)	000774	000776	.+2	;UNEXPECTED TRAP TO THIS LOCATION
(3)	000776	000000	HALT	;EXAMINE STACK TO FIND CAUSE

J01

SEQ 009

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```

(      ) ; STANDARD INTERRUPT VECTORS
(      )
(      )
(      )
(      ) 000024 000024      . =24
(      ) 000024 003216      .PFAIL      ; POWER FAIL HANDLER
(      ) 000026 000340      340      ; SERVICE AT LEVEL 7
(      ) 000030 000032      32
(      ) 000032 000000      HALT
(      ) 000034 003164      .TRPSRV      ; GENERAL HANDLER DISPATCH SERVICE
(      ) 000036 000340      340      ; SERVICE AT LEVEL 7
(      )
(      ) 000200 000137 001600 . =200      JMP      .START      ; GO TO START OF PROGRAM
(      )
(      )
(      )      001200      . =1200
(      )
(      ) ; INDIRECT POINTERS TO TELETYPE VECTORS AND REGISTERS
(      )
(      ) 001200 177560      TKCSR: 177560      ; TELETYPE KEYBOARD CONTROL REGISTER
(      ) 001202 177562      TKDBR: 177562
(      ) 001204 177564      TPCSR: 177564      ; TELEPRINTER CONTROL REGISTER
(      ) 001206 177566      TPDBR: 177566      ; TELEPRINTER DATA BUFFER
(      )
(      ) ; PROGRAM CONTROL PARAMETERS
(      )
(      ) 001210 000000      RETURN: 0      ; SCOPE ADDRESS FOR LOOP ON TEST
(      ) 001212 000000      NEXT: 0      ; ADDRESS OF NEXT TEST TO BE EXECUTED
(      ) 001214 000000      TSTNO: 0      ; NUMBER OF TEST IN PROGRESS
(      )
(      ) ; PROGRAM VARIABLES
(      )
(      ) 001216 000000      TEMP1: 0      ; TEMPORARY STORAGE
(      ) 001220 000000      TEMP2: 0      ; TEMPORARY STORAGE
(      ) 001222 000000      TEMP3: 0      ; TEMPORARY STORAGE
(      ) 001224 000000      TEMP4: 0      ; TEMPORARY STORAGE
(      ) 001226 000000      TEMP5: 0      ; TEMPORARY STORAGE
(      ) 001230 000000      SAVR0: 0      ; R0 STORAGE
(      ) 001232 000000      SAVR1: 0      ; R1 STORAGE
(      ) 001234 000000      SAVR2: 0      ; R2 STORAGE
(      ) 001236 000000      SAVR3: 0      ; R3 STORAGE
(      ) 001240 000000      SAVR4: 0      ; R4 STORAGE
(      ) 001242 000000      SAVR5: 0      ; R5 STORAGE
(      ) 001244 000000      SAVSP: 0      ; STACK POINTER STORAGE
(      ) 001246 000000      SAVPC: 0      ; PROGRAM COUNTER STORAGE
  
```

K01

```
(R) 000000 SY=0
(R)
(R) ;DEFINITIONS FOR TRAP SUBROUTINE CALLS
(R) ;POINTERS TO SUBROUTINES CAN BE FOUND
(R) ;IN THE TABLE IMMEDIATLY FOLLOWING THE DEFINITIONS
(R)
(R) 104400 TYPE=TRAP+$Y ;
(R) 104401 INSTR=TRAP+$Y ;
(R) 104402 INSTER=TRAP+$Y ;
(R) 104403 PARAM=TRAP+$Y ;
(R) 104404 CONVRT=TRAP+$Y ;
(R) 104405 CNVERT=TRAP+$Y ;
(R) 104406 SETFLG=TRAP+$Y ;
(R)
(R) ;TABLE OF POINTERS TO SUBROUTINES
(R)
(R) 001250 002420 .TRPTAB: .TYPE ;TELETYPE OUTPUT ROUTINE
(R) 001252 002452 .INSTR ;ASCII STRING INPUT HANDLER
(R) 001254 002544 .INSTER ;ASCII STRING ERROR HANDLER
(R) 001256 002554 .PARAM ;PARAMETER INPUT HANDLER
(R) 001260 002740 .CONVRT ;DATA CONVERSION HANDLER
(R) 001262 002744 .CNVRT
(R) 001264 003116 .SETFLG ;FLAG SET HANDLER
(R)
(R) ;DQ11 VECTOR AND REGISTER INDIRECT POINTERS
(R)
(R) 001266 000000 DQ11VEC: 0 ;POINTER TO DQ11 RECEIVER INTERRUPT VECTOR
(R) 001270 000000 DQ11CSR: 0 ;POINTER TO DQ11 RECEIVER CONTROL REGISTER
(R)
(R) ;DQ11 OPTION FLAGS
(R)
(R) 001272 000000 VRCFLG: 0
(R) 001274 000 BAFLG: .BYTE 0 ;DATASET CONTROL OPTIONFLAG
(R) 001275 000 ACTFLG: .BYTE 0
(R) 001276 000 ODDFLG: .BYTE 0
(R) 001277 000 SYNFLG: .BYTE 0
(R) 001300 000 JUMFLG: .BYTE 0
(R) 001301 000 CAFLG: .BYTE 0 ;CHARACTER LENGTH EXTENDER OPTION FLAG
(R) 001302 000 ABFLG: .BYTE 0 ;CHARACTER DETECTION OPTION FLAG
(R) 001303 000 BBFLG: .BYTE 0 ;BCC GENERATOR OPTION FLAG
(R) 001304 000 JMPFLG: .BYTE 0 ;TEST JUMPER FLAG
(R) 001306 .EVEN
(R)
(R) .EVEN
(R)
(R) .=1400
(R) 001400 000001 DQCRO0: .BLKW 1
(R) 001402 000001 DQST00: .BLKW 1
(R) 001404 000001 DQCRO1: .BLKW 1
(R) 001406 000001 DQST01: .BLKW 1
(R) 001410 000001 DQCRO2: .BLKW 1
(R) 001412 000001 DQST02: .BLKW 1
(R) 001414 000001 DQCRO3: .BLKW 1
(R) 001416 000001 DQST03: .BLKW 1
```


(N) 001420 000001
(N) 001422 000001
(N) 001424 000001
(N) 001426 000001
(N) 001430 000001
(N) 001432 000001
(N) 001434 000001
(N) 001436 000001
(N) 001440 000001
(N) 001442 000001
(N) 001444 000001
(N) 001446 000001
(N) 001450 000001
(N) 001452 000001
(N) 001454 000001
(N) 001456 000001
(N) 001460 000001
(N) 001462 000001
(N) 001464 000001
(N) 001466 000001
(N) 001470 000001
(N) 001472 000001
(N) 001474 000001
(N) 001476 000001
(I) 001500 000001
(I) 001502 000001
(I) 001504 000001
(I) 001506 000000
(I) 001510 000000
(I) 001600 001600

DQCR04: .BLKW 1
DQST04: .BLKW 1
DQCR05: .BLKW 1
DQST05: .BLKW 1
DQCR06: .BLKW 1
DQST06: .BLKW 1
DQCR07: .BLKW 1
DQST07: .BLKW 1
DQCR10: .BLKW 1
DQST10: .BLKW 1
DQCR11: .BLKW 1
DQST11: .BLKW 1
DQCR12: .BLKW 1
DQST12: .BLKW 1
DQCR13: .BLKW 1
DQST13: .BLKW 1
DQCR14: .BLKW 1
DQST14: .BLKW 1
DQCR15: .BLKW 1
DQST15: .BLKW 1
DQCR16: .BLKW 1
DQST16: .BLKW 1
DQCR17: .BLKW 1
DQST17: .BLKW 1
DQACTV: .BLKW 1
SAVACT: .BLKW 1
DQNUM: .BLKW 1
DQCSR: 0
DQSTAT: 0
.=1600

:PROGRAM INITIALIZATION
:LOCK OUT INTERRUPTS
:SET UP PROCESSOR STACK
:SET UP POWER FAIL VECTOR
:CLEAR PROGRAM CONTROL FLAGS AND COUNTS
:TYPE TITLE MESSAGE

(N) 001600 012737 000340 177776 .START:
(N) 001606 012706 001200
(N) 001612 012737 003216 000024
(N) 001620 012702 001400
(N) 001624 005022
(N) 001626 022702 001600
(N) 001632 001374
(N) 001634 012702 001400
(N) 001640 104400
(N) 001642 003352
(N) 001644 005000
(N) 001646 012701 000005
(N) 001652 005200
(N) 001654 001376
(N) 001656 005301
(N) 001660 001374
(I) 001662 005777 177314
(I) 001666 104400

MOV #340,PS ;LOCK OUT INTERRUPTS
MOV #STACK,SP ;SET UP STACK
MOV #PFAIL,@#24 ;SET UP POWER FAIL VECTOR
MOV #1400,R2
CLEAR: CLR (R2)+
CMP #1600,R2
BNE CLEAR
MOV #1400,R2
TYPE
MTITLE
CLR R0
MOV #5,R1
INC R0
BNE .-2
DEC R1
BNE .-6
15%: TST @TKDBR
TYPE

MO1

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SEQ 0012

(1)	001670	003704				MNUM
(1)	001672	012705	000003			MOV #3,R5
(1)	001676	005037	001504			CLR DQNUM
(1)	001702	105777	177272		11\$:	TSTB @TKCSR
(1)	001706	100375				BPL -4
(1)	001710	017703	177266			MOV @TKDDBR,R3
(1)	001714	105777	177264			TSTB @TPCSR
(1)	001720	100375				BPL -4
(1)	001722	110377	177260			MOV R3,@TPDDBR
(1)	001726	042703	000200			BIC #BIT7,R3
(1)	001732	022703	000015			CMP #15,R3
(1)	001736	001423				BEQ 12\$
(1)	001740	032703	000110			BIT #110,R3
(1)	001744	001015				BNE 13\$
(1)	001746	000257				CCC
(1)	001750	006137	001504			ROL DQNUM
(1)	001754	006137	001504			ROL DQNUM
(1)	001760	006137	001504			ROL DQNUM
(1)	001764	042703	000260			BIC #260,R3
(1)	001770	050337	001504			BIS R3,DQNUM
(1)	001774	005305				DEC R5
(1)	001776	001341				BNE 11\$
(1)	002000	104400			13\$:	TYPE
(1)	002002	004007				MERR1
(1)	002004	000726				BR 15\$
(1)	002006	005737	001504		12\$:	TST DQNUM
(1)	002012	001772				BEQ 13\$
(1)	002014	023727	001504	000020		CMP DQNUM,#20
(1)	002022	101366				BHI 13\$
(1)	002024	013705	001504			MOV DQNUM,R5
(1)	002030	005037	001500			CLR DQACTV
(1)	002034	012737	000001	001216	16\$:	MOV #1,TEMP1
(1)	002042	052737	000001	001500		BIS #BIT0,DQACTV
(1)	002050	005305				DEC R5
(1)	002052	001403				BEQ DO
(1)	002054	006137	001500			ROL DQACTV
(1)	002060	000765				BR 16\$
(1)	002062	013737	001500	001502	DO:	MOV DQACTV,SAVACT
(1)	002070	104400				TYPE
(1)	002072	004054				MINFO
(1)	002074	104405				CNVERT
(1)	002076	004726				XNUM
(2)	002100	104401				INSTR
(2)	002102	003525				MVECTOR
(2)	002104	104403				PARAM
(2)	002106	000300				300
(2)	002110	000770				770
(2)	002112	001266				DQRVEC
(2)	002114	001			.BYTE	1
(2)	002115	001			.BYTE	1
(2)	002116	104401				INSTR
(2)	002120	003547				MREGAD
(2)	002122	104403				PARAM
(2)	002124	160000				160000
(2)	002126	164000				164000
(2)	002130	001270				DQRCSR

NO1

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SEQ 0013

(2)	002132	001		.BYTE	1	
(2)	002133	001		.BYTE	1	
(1)	002134	013722	001270		MOV	DQRCSR, (R2)+
(1)	002140	042737	177000	001266	BIC	#177000, DQRVEC
(1)	002146	013712	001266		MOV	DQRVEC, (R2)
(2)	002152	104401			INSTR	
(2)	002154	004301			MBA	
(2)	002156	104406			SETFLG	
(2)	002160	001274			BAFLG	
(1)	002162	105737	001274		TSTB	BAFLG
(1)	002166	001402			BEQ	1\$
(1)	002170	052712	010000		BIS	#BIT12, (R2)
(1)	002174	000240		1\$:	NOP	
(2)	002176	104401			INSTR	
(2)	002200	004247			MAX	
(2)	002202	104406			SETFLG	
(2)	002204	001276			ODDFLG	
(1)	002206	105737	001276		TSTB	ODDFLG
(1)	002212	001402			BEQ	2\$
(1)	002214	052712	001000		BIS	#BIT9, (R2)
(1)	002220	000240		2\$:	NOP	
(2)	002222	104401			INSTR	
(2)	002224	004162			MAB	
(2)	002226	104405			SETFLG	
(2)	002230	001302			ABFLG	
(1)	002232	105737	001302		TSTB	ABFLG
(1)	002236	001402			BEQ	3\$
(1)	002240	052712	002000		BIS	#BIT10, (R2)
(1)	002244	000240		3\$:	NOP	
(2)	002246	104401			INSTR	
(2)	002250	004337			MBB	
(2)	002252	104406			SETFLG	
(2)	002254	001303			BBFLG	
(1)	002256	105737	001303		TSTB	BBFLG
(1)	002262	001402			BEQ	4\$
(1)	002264	052712	020000		BIS	#BIT13 (R2)
(1)	002270	000240		4\$:	NOP	
(2)	002272	104401			INSTR	
(2)	002274	004440			MACTV	
(2)	002276	104406			SETFLG	
(2)	002300	001275			ACTFLG	
(1)	002302	105737	001275		TSTB	ACTFLG
(1)	002306	001402			BEQ	5\$
(1)	002310	052712	004000		BIS	#BIT11, (R2)
(1)	002314	000240		5\$:	NOP	
(2)	002316	104401			INSTR	
(2)	002320	004375			MJUMP	
(2)	002322	104406			SETFLG	
(2)	002324	001300			JUMFLG	
(1)	002326	105737	001300		TSTB	JUMFLG
(1)	002332	001402			BEQ	6\$
(1)	002334	052712	0,0000		BIS	#BIT14, (R2)
(1)	002340	000240		6\$:	NOP	
(2)	002342	104401			INSTR	
(2)	002344	004527			MSYNC	
(2)	002346	104406			SETFLG	


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(2) 002350 001277 SYNFLG
(1) 002352 105737 001277 TSTB SYNFLG
(1) 002356 001402 BEQ 7$
(1) 002360 052712 100000 BIS #BIT15.(R2)
(1) 002364 023737 001216 001504 7$: CMP TEMP1,DQNUM
(1) 002372 001405 BEQ ENDFB
(1) 002374 005237 001216 INC TEMP1
(1) 002400 005722 TST (R2)+
(1) 002402 000137 002062 JMP DO
(1) 002406 104400 ENDPB: TYPE
(1) 002410 004607 MTHNK
(1) 002412 000000 HALT
(1) 002414 000137 000200 JMP 200
(2) ;TELETYPE OUTPUT ROUTINE
(2)
(2) 002420 017605 000000 .TYPE: MOV @ (SP),R5
(2) 002424 062716 000002 ADD #2,(SP)
(2) 002430 105715 1$: TSTB (R5)
(2) 002432 001406 BEQ 3$
(2) 002434 105777 176544 2$: TSTB @TPCSR
(2) 002440 100375 BPL 2$
(2) 002442 112577 176540 MOVB (R5)+,@TPDBR
(2) 002446 000770 BR 1$
(2) 002450 000002 3$: RTI
(2) ;ASCII STRING INPUT ROUTINE
(2)
(2) 002452 017637 000000 002466 .INSTR: MOV @ (SP),MSG
(2) 002460 062716 000002 ADD #2,(SP)
(2) 002464 104400 .INST1: TYPE
(2) 002466 000000 .MSG: 0
(2) 002470 012704 004734 MOV #INBUF,R4
(2) 002474 012703 000007 MOV #7,R3
(2) 002500 105777 176474 1$: TSTB @TKCSR
(2) 002504 100375 BPL 1$
(2) 002506 117714 176470 MOVB @TKDBR,(R4)
(2) 002512 142714 000200 BICB #200,(R4)
(2) 002516 122427 000015 CMPB (R4)+,#15
(2) 002522 001413 BEQ INSTR2
(2) 002524 117777 176452 176454 2$: MOVB @TKDBR,@TPDBR
(2) 002532 105777 176446 TSTB @TPCSR
(2) 002536 100375 BPL 2$
(2) 002540 005303 DEC R3
(2) 002542 001356 BNE 1$
(2) 002544 104400 .INSTE: TYPE
(2) 002546 003603 MQM
(2) 002550 000745 BR .INST1
(2) 002552 000002 INSTR2: RTI
(2) ;CONVERT ASCII STRING TO OCTAL
(2)
(2) 002554 011605 .PARAM: MOV (SP),R5
(2) 002556 012537 002730 MOV (R5)+,LOLIM
(2) 002562 012537 002732 MOV (R5)+,HILIM

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(2)	002566	012537	002734	MOV	(R5)+,DEVADR
(2)	002572	112537	002736	MOVB	(R5)+,LOBITS
(2)	002576	112537	002737	MOVB	(R5)+,ADRCNT
(2)	002602	010516		MOV	R5,(SP)
(2)	002604	005005		PARAM1: CLR	R5
(2)	002606	012704	004734	MOV	#INBUF,R4
(2)	002612	122714	000015	CMPB	#15,(R4)
(2)	002616	001420		BEQ	PARERR
(2)	002620	121427	000060	1\$: CMPB	(R4),#30
(2)	002624	002415		BLT	PARERR
(2)	002626	121427	000067	CMPB	(R4),#67
(2)	002632	003012		BGT	PARERR
(2)	002634	142714	000060	BICB	#60,(R4)
(2)	002640	152405		BISB	(R4)+,R5
(2)	002642	122714	000015	CMPB	#15,(R4)
(2)	002646	001406		BEQ	LIMITS
(2)	002650	006305		ASL	R5
(2)	002652	006305		ASL	R5
(2)	002654	006305		ASL	R5
(2)	002656	000760		BR	1\$
(2)	002660	104402		PARERR: INSTER	
(2)	002662	000750		BR	PARAM1
(2)					;TEST TO SEE IF NUMBER IS WITHIN LIMITS
(2)				LIMITS: CMP	R5,HILIM
(2)	002664	020537	002732	BHI	PARERR
(2)	002670	101373		CMP	R5,LOLIM
(2)	002672	020537	002730	BLO	PARERR
(2)	002676	103770		BITB	LOBITS,R5
(2)	002700	133705	002736	BNE	PARERR
(2)	002704	001365			;STORE NUMBER AT SPECIFIED ADDRESS
(2)				1\$: MOV	DEVADR,R4
(2)	002706	013704	002734	MOV	R5,(R4)+
(2)	002712	010524		ADD	#2,R5
(2)	002714	062705	000002	DECB	ADRCNT
(2)	002720	105337	002737	BNE	1\$
(2)	002724	001372		RTI	
(2)	002726	000002		LOLIM: 0	
(2)	002730	000000		HILIM: 0	
(2)	002732	000000		DEVADR: 0	
(2)	002734	000000		LOBITS: 0	
(2)	002736	000000		ADRCNT=LOBITS+1	
(2)					;CONVERT OCTAL NUMBER TO ASCII AND OUTPUT TO TELEPRINTER
(2)				.CONVR: TYPE	
(2)	002740	104400		MCRLF	
(2)	002742	003607		.CNVRT: MOV	2(SP),R1
(2)	002744	017601	000000	ADD	#2,(SP)
(2)	002750	062716	000002	MOV	(R1)+,WRDCNT
(2)	002754	012137	003110	MOV	(R1)+,CHRCNT
(2)	002760	112137	003112	MOV	(R1)+,SPACNT
(2)	002764	112137	003113	MOV	2(R1)+,BINWRD
(2)	002770	013137	003114		

DQ11 MANUAL PARAMETER INPUT PROGRAM.

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(2) 002774 013704 003114 2$: MOV BINWRD,R4
(2) 003000 113705 003112 MOVB CHRCNT,R5
(2) 003004 012700 004776 MOV #TEMP,RC
(2) 003010 010403 3$: MOV R4,R3
(2) 003012 042703 177770 BIC #177770,R3
(2) 003016 062703 000260 ADD #260,R3
(2) 003022 110320 MOVB R3,(R0)+
(2) 003024 006204 ASR R4
(2) 003026 006204 ASR R4
(2) 003030 006204 ASR R4
(2) 003032 005305 DEC R5
(2) 003034 001365 BNE 3$
(2) 003036 012703 005040 MOV #MDATA,R3
(2) 003042 114023 4$: MOVB -(R0),(R3)+
(2) 003044 105337 003112 DECB CHRCNT
(2) 003050 001374 BNE 4$
(2) 003052 105737 003113 TSTB SPACNT
(2) 003056 001405 BEQ 6$
(2) 003060 112723 5$: MOVB #240,(R3)+
(2) 003064 105337 003113 DECB SPACNT
(2) 003070 001373 BNE 5$
(2) 003072 105013 6$: CLRB (R3)
(2) 003074 104400 TYPE
(2) 003076 005040 MDATA
(2) 003100 005337 003110 DEC WRDCNT
(2) 003104 001325 BNE 1$
(2) 003106 000002 RTI
(2) 003110 000000 WRDCNT: 0
(2) 003112 000000 CHRCNT: 0
(2) 003114 000000 SPACNT=CHRCNT+1
(2) 000000 BINWRD: 0

;COMPARE THE FIRST CHARACTER IN THE TELETYPE INPUT
;BUFFER TO THE CHARACTERS "N" AND "Y"
;IF THE CHARACTER IS "N" CLEAR THE FLAG
;IF THE CHARACTER IS "Y" SET THE FLAG

(2) 003116 017605 000000 .SETFLG: MOV @ (SP),R5
(2) 003122 122737 000116 004734 CMPB #'N,INBUF
(2) 003130 001002 BNE 1$
(2) 003132 105015 CLRB (R5)
(2) 003134 000406 BR 2$
(2) 003136 122737 000131 004734 1$: CMPB #'Y,INBUF
(2) 003144 001005 BNE 3$
(2) 003146 112715 177777 MOVB #-1,(R5)
(2) 003152 062716 000002 2$: ADD #2,(SP)
(2) 003156 000002 RTI
(2) 003160 104402 3$: INTCR
(2) 003162 000755 BR .SETFLG
;TRAP DISPATCH SERVICE
;ARGUMENT OF TRAP IS EXTRACTED
;AND USED AS OFFSET TO OBTAIN POINTER
;TO SELECTED SUBROUTINE

(2) 003164 011646 .TRPSR: MOV (SP),-(SP) ;GET PC OF RETURN
(2) 003166 162716 000002 SUB #2,(SP) ;=PC OF TRAP

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(2) 003172 017616 000000
(2) 003176 006316
(2) 003200 042716 177001
(2) 003204 062716 001250
(2) 003210 017616 000000
(2) 003214 000136
(2)
(2)
(2)
(2) 003216 010046
(2) 003220 010146
(2) 003222 010246
(2) 003224 010346
(2) 003226 010446
(2) 003230 010546
(2) 003232 013746 000024
(2) 003236 010637 001244
(2) 003242 012737 003254 000024
(2) 003250 000000
(2) 003252 000777
(2)
(2)
(2)
(2) 003254 013706 001244
(2) 003260 012605
(2) 003262 012604
(2) 003264 012603
(2) 003266 012602
(2) 003270 012601
(2) 003272 012600
(2) 003274 012737 003216 000024
(2) 003302 012737 000340 177776
(2) 003310 012706 001200
(2) 003314 005037 004776
(2) 003320 005237 004776
(2) 003324 001375
(2) 003326 104404
(2) 003330 003342
(2) 003332 104400
(2) 003334 003612
(2) 003336 000177 175646
(2) 003342 000001
(2) 003344 000006 000002
(2) 003350 000207
(2) 003352 017435 005015 042012
(2) 003404 005015 043101 042524
(2) 003440 005015 043111 052440
(2) 003470 005015 042523 020124
(2) 003525 015 053012 041505
(2) 003547 015 041412 047117
(2) 003603 040 037440 000
(2) 003607 015 000012
(2) 003612 020040 047520 042527
(2) 003677 015 051012 000
(2)
(2) 003704 003704
(2) 003704 005015 054524 042520

```

```

TRPOK: MOV @ (SP), (SP) ; GET TRAP
ASL (SP) ; MULTIPLY TRAP ARG BY 2
BIC #177001, (SP) ; CLEAR UNWANTED BITS
ADD #.TRPTAB, (SP) ; POINTER TO SUBROUTINE ADDRESS
MOV @ (SP), (SP) ; SUBROUTINE ADDRESS
JMP @ (SP)+ ; GO TO SUBROUTINE
; ENTER HERE ON POWER FAILURE

.PFAIL: MOV R0, -(SP) ; SAVE R0-R5 ON PROCESSOR STACK
MOV R1, -(SP)
MOV R2, -(SP)
MOV R3, -(SP)
MOV R4, -(SP)
MOV R5, -(SP)
MOV #24, -(SP)
MOV SP, SAVSP ; SAVE STACK POINTER
MOV #RESTART, 24 ; SET UP FOR POWER UP TRAP
HALT ; HALT ON POWER DOWN NORMAL
BR .

; PROCESSOR WILL TRAP HERE WHEN POWER IS RESTORED

RESTAR: MOV SAVSP, SP ; RESTORE STACK POINTER
MOV (SP)+, R5 ; RESTORE R0-R5
MOV (SP)+, R4
MOV (SP)+, R3
MOV (SP)+, R2
MOV (SP)+, R1
MOV (SP)+, R0
MOV #.PFAIL, 24 ; SET UP FOR POWER FAILURE
MOV #340, PS
MOV #STACK, SP
CLR TEMP
INC TEMP
BNE .-4
CONVRT
PFTAB
TYPE
MPFAIL
JMP @RETURN

PFTAB: 1
6, 2
RETURN

MTITLE: .ASCII <35><37><15><12><12>/DQ11 TRIAL PROGRAM /<15><12>
.ASCII <15><12>/AFTER LOADING PARAMETERS/<15><12>
.ASCII <15><12>/IF USING XXDP MEDIUM/<15><12>
.ASCII <15><12>/SET SW07=1 DO NOT RE BOOT/<15><12>
.ASCII <15><12>/VECTOR ADDRESS-/
.ASCII <15><12>/CONTROL REGISTER ADDRESS-/
.ASCII / ? /
.ASCII <15><12>
MREGAD: .ASCII / POWER FAILURE, PROGRAM RESTART AT TEST IN PROGRESS/
MPFAIL: .ASCII <15><12>/R/
MR: .ASCII <15><12>/R/
.EVEN
MNUM: .ASCII 15><12>/TYPE IN NUMBER OF DQ11'S IN SYSTEM.(INPUT OCTAL NUMBERS)01-20:

```

```

(1) 004007 015 044412 053116 MERR1: .ASCIZ <15><12>/INVALID ANSWER PLEASE INPUT AGAIN!/
(1) 004054 005015 050012 042514 MINFO: .ASCIZ <15><12><12>/PLEASE SUPPLY THE INFORMATION FOR DQ11 NUMBER: /
(1) 004137 015 042012 020117 MVRC: .ASCIZ <15><12>/DO YOU HAVE VRC?/
(1) 004162 005015 051511 040440 MAB: .ASCIZ <15><12>/IS AB OPTION INSTALLED?/
(1) 004214 005015 051511 053040 MCA: .ASCIZ <15><12>/IS VRC OPTION INSTALLED?/
(1) 004247 015 044412 020123 MAX: .ASCIZ <15><12>/IS VRC SET FOR ODD VRC?/
(1) 004301 015 044412 020123 MBA: .ASCIZ <15><12>/IS THE BA OPTION INSTALLED?/
(1) 004337 015 044412 020123 MBB: .ASCIZ <15><12>/IS THE BB OPTION INSTALLED?/
(1) 004375 015 044412 020123 MJUMP: .ASCIZ <15><12>/IS THE TEST JUMPER ON THE CABLE?/
(1) 004440 005015 044527 046114 MACTV: .ASCIZ <15><12>/WILL DQ11 GO ACTIVE ON THE FIRST NON-SYNC CHARACTER?/
(1) 004527 015 044412 020123 MSYNC: .ASCIZ <15><12>/IS THE DQ11 JUMPERED FOR TWO SYNC CHARACTERS?/
(1) 004607 015 005012 044124 MTHNK: .ASCII <15><12><12>/THANK YOU FOR THE INFORMATION./
(1) 004650 005015 054412 052517 .ASCIZ <15><12><12>/YOU MAY NOW PROCEED WITH THE DIAGNOSTICS./
(1) 004726 004726 .EVEN
(1) 004730 000001 XNUM: 1
(1) 004732 002 002 .BYTE 2.2
(2) 004732 001216 TEMP1
(2) ;BUFFERS FOR INPUT-OUTPUT
(2) 004734 000000 INBUF: 0
(2) 004776 004776 .=. +40
(2) 005040 000000 TEMP: 0
(2) 005040 005040 .=. +40
(2) 005102 000000 MDATA: 0
(2) 000001 .END
  
```

G02

TRIAL MACY11 30A(1052) 28-DEC-77 13:25 PAGE 20
 CZDQGB.P11 28-DEC-77 13:17 CROSS REFERENCE TABLE -- USER SYMBOLS

SEQ 0019

ABFLG	001302	1#
ACTFLG	001275	1#
ADRCNT=	002737	1#*
BAFLG	001274	1#
BBFLG	001303	1#
BINWRD	003114	1#*
BIT0 =	000001	1#
BIT1 =	000002	1#
BIT10 =	002000	1#
BIT11 =	004000	1#
BIT12 =	010000	1#
BIT13 =	020000	1#
BIT14 =	040000	1#
BIT15 =	100000	1#
BIT2 =	000004	1#
BIT3 =	000010	1#
BIT4 =	000020	1#
BIT5 =	000040	1#
BIT6 =	000100	1#
BIT7 =	000200	1#
BIT8 =	000400	1#
BIT9 =	001000	1#
CAFLG	001301	1#
CHRCNT	003112	1#*
CLEAR	001624	1#
CNVERT=	104405	1#
CONVRT=	104404	1#
DEVADR	002734	1#*
DO	002062	1#
DQACTV	001500	1#*
DQCRO0	001400	1#
DQCRO1	001404	1#
DQCRO2	001410	1#
DQCRO3	001414	1#
DQCRO4	001420	1#
DQCRO5	001424	1#
DQCRO6	001430	1#
DQCRO7	001434	1#
DQCR10	001440	1#
DQCR11	001444	1#
DQCR12	001450	1#
DQCR13	001454	1#
DQCR14	001460	1#
DQCR15	001464	1#
DQCR16	001470	1#
DQCR17	001474	1#
DQCSR	001506	1#
DQNUM	001504	1#*
DQRCSR	001270	1#
DQRVEC	001266	1#*
DQSTAT	001510	1#
DQST00	001402	1#
DQST01	001406	1#
DQST02	001412	1#
DQST03	001416	1#
DQST04	001422	1#

DQST05	001426	1#
DQST06	001432	1#
DQST07	001436	1#
DQST10	001442	1#
DQST11	001446	1#
DQST12	001452	1#
DQST13	001456	1#
DQST14	001462	1#
DQST15	001466	1#
DQST16	001472	1#
DQST17	001476	1#
ENDPA	002406	1#
HILIM	002732	1#*
INBUF	004734	1#
INSTER=	104402	1#
INSTR =	104401	1#
INSTR2	002552	1#
JMPFLG	001304	1#
JUMFLG	001300	1#
LIGHTS=	177570	1#
LIMITS	002664	1#
LOBITS	002736	1#*
LOLIM	002730	1#*
MAB	004162	1#
MACTV	004440	1#
MAX	004247	1#
MBA	004301	1#
MBB	004337	1#
MCA	004214	1#
MCRLF	003607	1#
MDATA	005040	1#
MERR1	004007	1#
MINFO	004054	1#
MJUMP	004375	1#
MNUM	003704	1#
MPFAIL	003612	1#
MQM	003603	1#
MR	003677	1#
MREGAD	003547	1#
MSYNC	004527	1#
MTHNK	004607	1#
MTITLE	003352	1#
MVECTO	003525	1#
MVRC	004137	1#
NEXT	001212	1#
ODDFLG	001276	1#
PARAM =	104403	1#
PARAM1	002604	1#
PARERR	002660	1#
PFTAB	003342	1#
POPPO =	012600	1#
POP1SP=	005726	1#
POP2SP=	022626	1#
PS =	177776	1#*
PUSHRO=	010046	1#
PUSHIS=	005746	1#

PUSH2S=	024646	1#
RESTAR	003254	1#
RETURN	001210	1#
SAVACT	001502	1#*
SAVPC	001246	1#
SAVRO	001230	1#
SAVR1	001232	1#
SAVR2	001234	1#
SAVR3	001236	1#
SAVR4	001240	1#
SAVR5	001242	1#
SAVSP	001244	1#*
SETFLG=	104406	1#
SPACNT=	003113	1#*
STACK =	001200	1#
SWR =	177570	1#
SYNFLG	001277	1#
TEMP	004776	1#*
TEMP1	001216	1#*
TEMP2	001220	1#
TEMP3	001222	1#
TEMP4	001224	1#
TEMPS	001226	1#
TKCSR	001200	1#
TKDBR	001202	1#
TPCSR	001204	1#
TPDBR	001206	1#*
TRPOK	003176	1#
TSTNO	001214	1#
TYPE =	104400	1#
VRCFLG	001272	1#
WRDCNT	003110	1#*
XNUM	004726	1#
\$Y =	000007	1#
.	005102	1#
.CNVRT	002744	1#
.CONVR	002740	1#
.INSTE	002544	1#
.INSTR	002452	1#
.INST:	002464	1#
.MSG	002466	1#*
.PARAM	002554	1#
.PFAIL	003216	1#
.SETFL	003116	1#
.START	001600	1#
.TRPSR	003164	1#
.TRPTA	001250	1#
.TYPE	002420	1#

DQEND 1#
DJFRNT 1#
HLT 1#
\$BUFFE 1#
\$CATCH 1#
\$CONVR 1#
\$GETFL 1#
\$GETPA 1#
\$HEADE 1#
\$INSTR 1#
\$MSG 1#
\$PARAM 1#
\$PFAIL 1#
\$SETFL 1#
\$SETVE 1#
\$START 1#
\$SYMBO 1#
\$TRAPS 1#
\$TRPDE 1#
\$TRPSR 1#
\$TYPE 1#
\$VARIA 1#

. ABS. 005102 000

ERRORS DETECTED: 0

CZDQGB,CZDQGB/SOL/CRF=CZDQGB.P11
RUN-TIME: 12.2 SECONDS
RUN-TIME RATIO: 69/4=14.9
CORE USED: 9K (17 PAGES)