

DQ11

TRIAL PROGRAM
MD-11-DZDQG-A

EP-DZDQG-A-DL-A
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FICHE 1 OF 1

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The image shows a grid of 18 small, illegible technical diagrams or data plots arranged in 6 rows and 3 columns on the left side of the page. The diagrams appear to be technical drawings or data visualizations, but the text within them is too small to read. The rest of the page is a large, dark, textured area, possibly a scan of a dark surface or a very faded image.

B01

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 2
DZDGA.P11 DQ11 MANUAL PARAMETER INPUT PROGRAM

1

C01

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 3
DZDGA.P11 DQ11 MANUAL PARAMETER INPUT PROGRAM.

D01

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 4
DZDQGA.P11 D011 MANUAL PARAMETER INPUT PROGRAM.

E01

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 5
DZDOGA.P11 D011 MANUKL PARAMETER INPUT PROGRAM.

F01

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 6
DZDOGA.P1! DQ11 MANUAL PARAMETER INPUT PROGRAM.

IDENTIFICATION

PRODUCT CODE: MAINDEC-11-DZDQG-A-0
PRODUCT NAME: DQ11 TRIAL PROGRAM (PARAMETER INPUT)
DATE: JUNE 1973
MAINTAINER: DIAGNOSTICS
AUTHOR: JOHN EGOLF

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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) WHEN ALL THE DIAGNOSTICS ARE INITIALLY STARTED!

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*

(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
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(3)	000210	000212	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000212	000000	HALT	:EXAMINE STACK TO FIND CAUSE
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(3)	000672	000000	HALT	EXAMINE STACK TO FIND CAUSE

(3)	000674	000676	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(3)	000722	000000	HALT	:EXAMINE STACK TO FIND CAUSE
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(3)	000726	000000	HALT	:EXAMINE STACK TO FIND CAUSE
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(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
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(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

(N) 000000 SY=0
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(N) 104401
(N) 104402
(N) 104403
(N) 104404
(N) 104405
(N) 104406
(N) 002420
(N) 002452
(N) 002544
(N) 002554
(N) 002740
(N) 002744
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(N) 001266 000000
(N) 001270 000000
(N) 001272 003000
(N) 001274 0000
(N) 001275 0000
(N) 001276 0000
(N) 001277 0000
(N) 001300 0000
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(N) 000001
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(N) 000001
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(N) 000001
(N) 000001
(N) 000001

SY=0

;DEFINITIONS FOR TRAP SUBROUTINE CALLS
;POINTERS TO SUBROUTINES CAN BE FOUND
;IN THE TABLE IMMEDIATELY FOLLOWING THE DEFINITIONS

TYPE=TRAP+SY
INSTR=TRAP+SY
INSTER=TRAP+SY
PARAM=TRAP+SY
CONVRT=TRAP+SY
CNVERT=TRAP+SY
SETFLG=TRAP+SY

.....

;TABLE OF POINTERS TO SUBROUTINES

.TRPTAB: .TYPE ;TELETYPE OUTPUT ROUTINE
.INSTR ;ASCII STRING INPUT HANDLER
.INSTER ;ASCII STRING ERROR HANDLER
.PARAM ;PARAMETER INPUT HANDLER
.CONVRT ;DATA CONVERSION HANDLER
.CNVRT
.SETFLG ;FLAG SET HANDLER

;DQ11 VECTOR AND REGISTER INDIRECT POINTERS

DORVEC: 0 ;POINTER TO DQ11 RECEIVER INTERRUPT VECTOR
DWRCSR: 0 ;POINTER TO DQ11 RECEIVER CONTROL REGISTER

;DQ11 OPTION FLAGS

VRCFLG: 0
BAFLG: .BYTE 0 ;DATASET CONTROL OPTIONFLAG
ACTFLG: .BYTE 0
OODFLG: .BYTE 0
SYNFLG: .BYTE 0
JUMFLG: .BYTE 0
CAFLG: .BYTE 0 ;CHARACTER LENGTH EXTENDER OPTION FLAG
ABFLG: .BYTE 0 ;CHARACTER DETECTION OPTION FLAG
EFLG: .BYTE 0 ;BIC GENERATOR OPTION FLAG
JMPFLG: .BYTE 0 ;TEST JUMPER FLAG
.EVEN
.EVEN

.=1400
DQCR00: .BLKW 1
DQST00: .BLKW 1
DQCR01: .BLKW 1
DQST01: .BLKW 1
DQCR02: .BLKW 1
DQST02: .BLKW 1
DQCR03: .BLKW 1


```
(N) 081416 000001
(N) 081428 000001
(N) 081440 000001
(N) 081452 000001
(N) 081464 000001
(N) 081476 000001
(N) 081488 000001
(N) 081500 000001
(N) 081512 000001
(N) 081524 000001
(N) 081536 000000
(N) 081548 000000
(N) 081560 000000
(N) 081572 001600
```

```
D0ST03: .BLKW 1
D0CR04: .BLKW 1
D0ST04: .BLKW 1
D0CR05: .BLKW 1
D0ST05: .BLKW 1
D0CR06: .BLKW 1
D0ST06: .BLKW 1
D0CR07: .BLKW 1
D0ST07: .BLKW 1
D0CR10: .BLKW 1
D0ST10: .BLKW 1
D0CR11: .BLKW 1
D0ST11: .BLKW 1
D0CR12: .BLKW 1
D0ST12: .BLKW 1
D0CR13: .BLKW 1
D0ST13: .BLKW 1
D0CR14: .BLKW 1
D0ST14: .BLKW 1
D0CR15: .BLKW 1
D0ST15: .BLKW 1
D0CR16: .BLKW 1
D0ST16: .BLKW 1
D0CR17: .BLKW 1
D0ST17: .BLKW 1
D0ACTV: .BLKW 1
S0VACT: .BLKW 1
D0NUM: .BLKW 1
D0CSR: 0
D0STAT: 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) 081600 012737 000340 177776
(N) 081608 012706 001200
(N) 081616 012737 003216 000024
(N) 081624 012706 001400
(N) 081632 005022
(N) 081640 022706 001600
(N) 081648 001374
(N) 081656 012706 001400
(N) 081664 104400
(N) 081672 003352
(N) 081680 005000
(N) 081688 012701 000005
(N) 081696 005200
(N) 081704 001376
(N) 081712 005301
(N) 081720 001374
(N) 081728 005777 177314
```

```
.START: MOV #340,PS ;LOCK OUT INTERRUPTS
MOV #STACK,SP ;SET UP STACK
MOV #PFail,#24 ;SET UP POWER FAIL VECTOR
CLEAR: MOV #1400,R2
CLR (R2)+
CMP #1600,R2
BNE CLEAR
MOV #1400,R2
TYPE
TITLE
CLR R0
MOV #5,R1
INC R0
BNE R1-2
DEC R1-2
BNE #6
158: TST JTKOBR
```

Line	Address	Value	Label	Operation	Comments
(1)	001666	104400		TYPE	
(1)	001670	003730		MNUM	
(1)	001672	012705	000003	MOV	#3, R5
(1)	001676	005037	001504	CLR	D0NUM
(1)	001702	105777	177272	TSTB	@TKCSR
(1)	001706	100375		BPL	-4
(1)	001710	017703	177266	MOV	@TKDBR, R3
(1)	001714	105777	177264	TSTB	@TPCSR
(1)	001720	100375		BPL	-4
(1)	001722	110377	177260	MOVB	R3, @TPDBR
(1)	001726	042703	000200	BIC	#B17, R3
(1)	001732	022703	000015	CMF	#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	D0NUM
(1)	001754	006137	001504	ROL	D0NUM
(1)	001760	006137	001504	ROL	D0NUM
(1)	001764	042703	000260	BIC	#260, R3
(1)	001770	050337	001504	BIS	R3, D0NUM
(1)	001774	005305		DEC	R5
(1)	001776	001341		BNE	11\$
(1)	002000	104400		TYPE	
(1)	002002	004033		MERR1	
(1)	002004	000726		BR	15\$
(1)	002006	005737	001504	TST	D0NUM
(1)	002012	001772		BEQ	13\$
(1)	002014	023727	001504 000020	CMF	D0NUM, #20
(1)	002022	101366		BHI	13\$
(1)	002024	013705	001504	MOV	D0NUM, R5
(1)	002030	005037	001500	CLR	D0ACTV
(1)	002034	012737	000071 001216	MOV	#1, TEMP1
(1)	002042	052737	000071 001500	BIS	#B10, D0ACTV
(1)	002050	005305		DEC	R5
(1)	002052	001403		BEQ	D0
(1)	002054	006137	001500	ROL	D0ACTV
(1)	002060	000765		BR	16\$
(1)	002062	013737	001500 001502	MOV	D0ACTV, SAVACT
(1)	002070	104400		TYPE	
(1)	002072	004130		MINFO	
(1)	002074	104405		CMVERT	
(1)	002076	004752		XNUM	
(2)	002100	104401		INSTR	
(2)	002102	003552		MVECTOR	
(2)	002104	104403		PARAM	
(2)	002106	000300		300	
(2)	002110	000770		770	
(2)	002112	001266		D0RVEC	
(2)	002114	001		.BYTE	1
(2)	002115	001		.BYTE	1
(2)	002116	104401		INSTR	
(2)	002120	003574		MREGAD	
(2)	002122	104403		PARAM	
(2)	002124	160000		160000	
(2)	002126	164000		164000	

(2)	002130	001270				DORCSR
(2)	002131	001			.BYTE	1
(2)	002132	001			.BYTE	1
(1)	002133	013722	001270			MOV DORCSR, (R2)+
(1)	002134	042737	177000	001266		BIC #177000, DORVEC
(1)	002135	013712	001266			MOV DORVEC, (R2)
(2)	002136	104401				INSTR
(2)	002137	004325				MBA
(2)	002138	104406				SETFLG
(2)	002139	001274				BAFLG
(1)	002140	105737	001274			TSTB BAFLG
(1)	002141	001402				BEQ 15
(1)	002142	052712	010000			BIS #BIT12, (R2)
(1)	002143	000240			15:	NOP
(2)	002144	104401				INSTR
(2)	002145	004273				MAX
(2)	002146	104406				SETFLG
(1)	002147	001276				OOOFLG
(1)	002148	105737	001276			TSTB OOOFLG
(1)	002149	001402				EQ 25
(1)	002150	052712	001000			BIS #BIT9, (R2)
(1)	002220	000240			25:	NOP
(2)	002222	104401				INSTR
(2)	002224	004206				MBA
(2)	002226	104406				SETFLG
(2)	002230	001302				ABFLG
(1)	002232	105737	001302			TSTB ABFLG
(1)	002236	001402				BEQ 35
(1)	002240	052712	002000			BIS #BIT10, (R2)
(1)	002244	000240			35:	NOP
(2)	002246	104401				INSTR
(2)	002250	004363				MBA
(2)	002252	104406				SETFLG
(2)	002254	001303				BBFLG
(1)	002256	105737	001303			TSTB BBFLG
(1)	002262	001402				BEQ 45
(1)	002264	052712	020000			BIS #BIT13, (R2)
(1)	002270	000240			45:	NOP
(2)	002272	104401				INSTR
(2)	002274	004464				MACTV
(2)	002276	104406				SETFLG
(2)	002300	001275				ACTFLG
(1)	002302	105737	001275			TSTB ACTFLG
(1)	002306	001402				BEQ 55
(1)	002310	052712	004000			BIS #BIT11, (R2)
(1)	002314	000240			55:	NOP
(2)	002316	104401				INSTR
(2)	002320	004421				MJUMP
(2)	002322	104406				SETFLG
(2)	002324	001300				JUMFLG
(1)	002326	105737	001300			TSTB JUMFLG
(1)	002332	001402				BEQ 65
(1)	002334	052712	040000			BIS #BIT14, (R2)
(1)	002340	000240			65:	NOP
(2)	002342	104401				INSTR
(2)	002344	004553				MSYNC

```

(2) 002346 104406 SETFLG
(2) 002350 001277 SYNFLG
(1) 002352 105737 001277 TSTB SYNFLG
(1) 002356 001402 BEQ 7$
(1) 002360 052712 100000 BIS #BIT15,(R2)
(1) 002364 7$:
(1) 002364 023737 001216 001504 CMP TEMP1,DQNUM
(1) 002372 001405 BEQ ENDPA
(1) 002374 005237 001216 INC TEMP1
(1) 002400 005722 TST (R2)+
(1) 002402 000137 002062 JMP D0
(1) 002406 104400 ENDPA: TYPE
(1) 002410 004633 MTHINK
(1) 002412 000000 HALT
(1) 002414 000137 000200 JMP 200
(2)
(2) ;TELETYPE OUTPUT ROUTINE
(2)
(2) 002420 017605 000000 .TYPE: MOV @ (SP),R5
(2) 002424 062716 000002 R00 #2,(SP)
(2) 002430 105715 1$: 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$: RTI
(2)
(2) ;ASCII STRING INPUT ROUTINE
(2)
(2) 002452 017637 000000 002466 .INSTR: MOV @ (SP),MSG
(2) 002460 062716 000002 R00 #2,(SP)
(2) 002464 104400 .INST1: TYPE
(2) 002466 000000 .MSG: 0
(2) 002470 012704 004760 MOV #INBUF,R4
(2) 002474 012703 0000J7 MOV #7,R3
(2) 002500 105777 176474 1$: 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 MOVB @TKDBR,@TPDBR
(2) 002532 105777 176446 2$: TSTR @TPCSR
(2) 002536 100375 BPL 2$
(2) 002540 005303 DEC R3
(2) 002542 001356 BNE 1$
(2) 002544 104400 .INSTE: TYPE
(2) 002546 003630 NOM
(2) 002550 000745 BR .INST1
(2) 002552 000002 INSTR2: RTI
(2)
(2) ;CONVERT ASCII STRING TO OCTAL
(2)
(2) 002554 011605 .PARAM: MOV (SP),R5
(2) 002556 012537 002730 MOV (R5)+,LOLIM

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H02

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 21
 DZDQGA.P11 DQ11 MANUAL PARAMETER INPUT PROGRAM.

(2)	002552	012537	002732	MOV	(R5)+,HILIM
(2)	002556	012537	002734	MOV	(R5)+,DEVAR
(2)	002572	112537	002736	MOVB	(R5)+,LOBITS
(2)	002576	112537	002737	MOVB	(R5)+,AORCNT
(2)	002602	010516		MOV	R5,(SP)
(2)	002604	005005		PARAM1: CLR	R5
(2)	002606	012704	004760	MOV	#INBUF,R4
(2)	002612	122714	000015	CMPB	#15,(R4)
(2)	002616	001420		BEQ	PARERR
(2)	002620	121427	000060	IS: CMPB	(R4),#50
(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	IS
(2)	002660	104402		PARERR: INSTER	
(2)	002662	000750		BR	PARAM1
(2)					;TEST TO SEE IF NUMBER IS WITHIN LIMITS
(2)	002664	020537	002732	LIMITS: CMP	R5,HILIM
(2)	002670	101373		BHI	PARERR
(2)	002672	020537	002730	CMP	R5,LOLIM
(2)	002676	103770		BLO	PARERR
(2)	002700	133705	002736	BITB	LOBITS,R5
(2)	002704	001365		BNE	PARERR
(2)					;STORE NUMBER AT SPECIFIED ADDRESS
(2)	002706	013704	002734	IS: MOV	DEVAR,R4
(2)	002712	010524		MOV	R5,(R4)+
(2)	002714	062705	000002	ADD	#2,R5
(2)	002720	105337	002737	DECB	AORCNT
(2)	002724	001372		BNE	IS
(2)	002726	000002		RTI	
(2)	002730	000000		LOLIM: 0	
(2)	002732	000000		HILIM: 0	
(2)	002734	000000		DEVAR: 0	
(2)	002736	000000		LOBITS: 0	
(2)		002737		AORCNT=LOBITS+1	
(2)					;CONVERT OCTAL NUMBER TO ASCII AND OUTPUT TO TELEPRINTER
(2)	002740	104400		.CONVR: TYPE	
(2)	002742	003634		MCRLF	
(2)	002744	017601	000000	.CHVRT: MOV	2(SP),R1
(2)	002750	062716	000002	ADD	#2,(SP)
(2)	002754	012137	003110	MOV	(R1)+,WRDCNT
(2)	002760	112137	003112	IS: MOVB	(R1)+,CHRCNT
(2)	002764	112137	003113	MOVB	(R1)+,SPACNT

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(2) 002770 013137 003114
(2) 002774 013704 003114
(2) 003000 113705 003112
(2) 003004 012700 005022
(2) 003010 010403
(2) 003012 042703 177770
(2) 003016 062703 000260
(2) 003022 110320
(2) 003024 006204
(2) 003026 006204
(2) 003030 006204
(2) 003032 005305
(2) 003034 001365
(2) 003036 012703 005064
(2) 003042 114023
(2) 003044 105337 003112
(2) 003050 001374
(2) 003052 105737 003113
(2) 003056 001405
(2) 003060 112723 000240
(2) 003064 105337 003113
(2) 003070 001373
(2) 003072 105013
(2) 003074 104400
(2) 003076 005064
(2) 003100 005337 003110
(2) 003104 001325
(2) 003106 000002
(2) 003110 000000
(2) 003112 000000
(2) 003114 000000
```

```

MOV      2(R1)+,BINWRD
25:     MOV      BINWRD,R4
        MOVVB   CHRCNT,R5
        MOV      #TEMP,R0
35:     MOV      R4,R3
        BIC     #177770,R3
        ADD     #260,R3
        MOVVB   R3,(R0)+
        ASR     R4
        ASR     R4
        ASR     R4
        DEC     R5
        BNE     35
        MOV     #MOData,R3
45:     MOVVB   -(R0),(R3)+
        DECB   CHRCNT
        BNE     45
        TSTB   SPACNT
        BEQ     65
55:     MOVVB   #240,(R3)+
        DECB   SPACNT
        BNE     55
65:     CLRB   (R3)
        MOVB   MOData
        DEC     WRDCNT
        BNE     15
        RTI
WRDCNT:  0
CHRCNT:  0
SPACNT:=CHRCNT+1
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
(2) 003122 122737 000116 004760
(2) 003130 001002
(2) 003132 105015
(2) 003134 000406
(2) 003136 122737 000131 004760
(2) 003144 001005
(2) 003146 112715 177777
(2) 003152 062716 000002
(2) 003156 000002
(2) 003160 104402
(2) 003162 000755
(2) 003164 011646
```

```

.SETFLG:MOV  2(SP),R5
          CMPB #'N,INBUF
          BNE  15
          CLRB (R5)
          BR   25
15:      CMPB #'Y,INBUF
          BNE  35
          MOVVB #1,(R5)
25:      ADD  #2,(SP)
          RTI
35:      INSTER
          BR   .SETFLG
;TRAP DISPATCH SERVICE
;ARGUMENT OF TRAP IS EXTRACTED
;AND USED AS OFFSET TO OBTAIN POINTER
;TO SELECTED SUBROUTINE
.TRPSR:  MOV  (SP),-(SP) ;GET PC OF RETURN

```

J02

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 23
 DZDOGA.P11 D011 MANUAL PARAMETER INPUT PROGRAM.

```

(2) 003166 162716 000002 SUB      #2 (SP)          ;=PC OF TRAP
(2) 003172 017616 000000 MOV      @ (SP), (SP)    ;GET TRP
(2) 003176 006316 TRPOK: RSL      (SP)          ;MULTIPLY TRAP ARG BY 2
(2) 003200 042716 177001 BIC      #177001, (SP)   ;CLEAR UNWANTED BITS
(2) 003204 062716 001250 ADD      #.TRPTAB, (SP)  ;POINTER TO SUBROUTINE ADDRESS
(2) 003210 017616 000000 MOV      @ (SP), (SP)   ;SUBROUTINE ADDRESS
(2) 003214 000136 JMP      @ (SP)+        ;GO TO SUBROUTINE
(2)                                     ;ENTER HERE ON POWER FAILURE

(2) 003216 010046 .PFAIL: MOV     R0, -(SP) ;SAVE R0-R5 ON PROCESSOR STACK
(2) 003220 010146 MOV     R1, -(SP)
(2) 003222 010246 MOV     R2, -(SP)
(2) 003224 010346 MOV     R3, -(SP)
(2) 003226 010446 MOV     R4, -(SP)
(2) 003230 010546 MOV     R5, -(SP)
(2) 003232 013746 000024 MOV     24, -(SP)
(2) 003236 010637 001244 MOV     SP, SAVSP      ;SAVE STACK POINTER
(2) 003242 012737 003254 000024 MOV     #RESTART, 24  ;SET UP FOR POWER UP TRAP
(2) 003250 003000 HALT                    ;HALT ON POWER DOWN NORMAL
(2) 003252 000777 BR

(2)                                     ;PROCESSOR WILL TRAP HERE WHEN POWER IS RESTORED

(2) 003254 013706 001244 RESTAR: MOV     SAVSP, SP ;RESTORE STACK POINTER
(2) 003260 012605 MOV     (SP)+, R5      ;RESTORE R0-R5
(2) 003262 012604 MOV     (SP)+, R4
(2) 003264 012603 MOV     (SP)+, R3
(2) 003266 012602 MOV     (SP)+, R2
(2) 003270 012601 MOV     (SP)+, R1
(2) 003272 012600 MOV     (SP)+, R0
(2) 003274 012737 003216 000024 MOV     #.PFAIL, 24 ;SET UP FOR POWER FAILURE
(2) 003302 012737 000340 177776 MOV     #340, PS
(2) 003310 012706 001200 MOV     #STACK, SP
(2) 003314 005037 005022 CLR      TEMP
(2) 003320 005237 005022 INC      TEMP
(2) 003324 001375 BNE

(2) 003326 104404 CONVRT
(2) 003330 003342 PFTAB
(2) 003332 104400 TYPE
(2) 003334 003637 MPFAIL
(2) 003336 000177 175646 JMP      @RETURN

(2) 003342 000001 PFTAB: 1
(2) 003344 000006 000002 6
(2) 003350 000207 2
(2) 003352 017435 005015 042012 MTITLE: .ASCII <35><37><15><12><12>/D011 TRIAL PROGRAM /<15><12>
(2) 003404 005015 047504 054440 .ASCII <15><12>/DO YOU PROMISE TO TELL THE TRUTH;/
(2) 003447 015 052012 042510 .ASCII <15><12>/THE WHOLE TRUTH AND NOTHING BUT/
(2) 003510 005015 044124 020105 .ASCII <15><12>/THE TRUTH SO HELP YOU PDP-11?/<15><12>
(2) 003522 005015 042526 052103 MVECTO: .ASCII <15><12>/VECTOR ADDRESS-/
(2) 003574 005015 047503 052116 MPEGAD: .ASCII <15><12>/CONTROL REGISTER ADDRESS-/
(2) 003630 020040 000077 M.M: .ASCII / ?/
(2) 003634 005015 000 MCRLF: .ASCII <15><12>
(2) 003637 040 050040 053517 MPFAIL: .ASCII / POWER FAILURE, PROGRAM RESTART AT TEST IN PROGRESS/
(2) 003724 005015 000122 MR: .ASCII <15><12>/R/
(2) .EVEN

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K02

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 24
 DZDQGA.P11 DQ11 MANUAL PARAMETER INPUT PROGRAM.

```

(1) 003730 005015 054524 042520 MNUM: .ASCIZ<15><12>/TYPE IN NUMBER OF DQ11'S IN SYSTEM.(INPUT OCTAL NUMBERS)0
(1) 004033 015 044412 053116 MERR1: .ASCIZ <15><12>/INVALID ANSWER PLEASE INPUT AGAIN!/  

(1) 004100 005015 050012 042514 MINFO: .ASCIZ <15><12><12>/PLEASE SUPPLY THE INFORMATION FOR DQ11 NUMBER: /  

(1) 004163 015 042012 020117 MVRC: .ASCIZ <15><12>/DO YOU HAVE VRC?/  

(1) 004206 005015 051511 040440 MAB: .ASCIZ <15><12>/IS AB OPTION INSTALLED?/  

(1) 004240 005015 051511 053040 MCA: .ASCIZ <15><12>/IS VRC OPTION INSTALLED?/  

(1) 004273 015 044412 020123 MAX: .ASCIZ <15><12>/IS VRC SET FOR ODD VRC?/  

(1) 004325 015 044412 020123 MBA: .ASCIZ <15><12>/IS THE BA OPTION INSTALLED?/  

(1) 004363 015 044412 020123 MBB: .ASCIZ <15><12>/IS THE BB OPTION INSTALLED?/  

(1) 004421 015 044412 020123 MJUMP: .ASCIZ <15><12>/IS THE TEST JUMPER ON THE CABLE?/  

(1) 004464 005015 044527 046114 MACTV: .ASCIZ <15><12>/WILL DQ11 GO ACTIVE ON THE FIRST NON-SYNC CHARACTER?/  

(1) 004553 015 044412 020123 MSYNC: .ASCIZ <15><12>/IS THE DQ11 JUMPERED FOR TWO SYNC CHARACTERS?/  

(1) 004633 015 005012 044124 MTHNK: .ASCII <15><12><12>/THANK YOU FOR THE INFORMATION./  

(1) 004674 005015 054412 052517 .ASCIZ <15><12><12>/YOU MAY NOW PROCEED WITH THE DIAGNOSTICS./  

(1) 004752 004752 .EVEN  

(1) 004754 000001 XNUM: 1  

(1) 004756 002 002 .BYTE 2,2  

(2) 001216 TEMP1  

(2) ;BUFFERS FOR INPUT-OUTPUT  

(2) 004760 000000 INBUF: 0  

(2) 005022 005022 .=. +40  

(2) 005022 000000 TEMP: 0  

(2) 005064 005064 .=. +40  

(2) 005064 000000 MDATA: 0  

(2) 005126 005126 .=. +40  

(2) 000001 03300 .END
  
```

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 26
 DZDQGA.P11 CROSS REFERENCE TABLE -- USER SYMBOLS

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#
CONVERT=	104405	1#
CONVRT=	104404	1#
DEVAOR	002734	1#*
DO	002052	1#
DQACTV	001500	1#*
DQCR00	001400	1#
DQCR01	001404	1#
DQCR02	001410	1#
DQCR03	001414	1#
DQCR04	001420	1#
DQCR05	001424	1#
DQCR06	001430	1#
DQCR07	001434	1#
DQCR10	001440	1#
DQCR11	001444	1#
DQCR12	001450	1#
DQCR13	001454	1#
DQCR14	001460	1#
DQCR15	001464	1#
DQCF16	001470	1#
DQCR17	001474	1#
DQCSR	001506	1#
DQNUM	001504	1#*
DQFCR	001270	1#
DQFVEC	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	004760	1#
INSTER=	104402	1#
INSTR =	104401	1#
INSTR2	002552	1#
JMPFLG	001304	1#
JUMFLG	001300	1#
LIGHTS=	177570	1#
LIMITS	002664	1#
LOBITS	001736	1#*
LOLIM	002730	1#*
MAB	004206	1#
MACTV	004464	1#
MAX	004273	1#
MBA	004325	1#
MBB	004363	1#
MCA	004240	1#
MCRLF	003634	1#
MORTA	005064	1#
MERR1	004033	1#
MINFO	004100	1#
MJUMP	004421	1#
MJUM	003730	1#
MFAIL	003637	1#
MGM	003630	1#
MR	003724	1#
MREGAD	003574	1#
MSYNC	004553	1#
MTHNK	004633	1#
MTITLE	003352	1#
MVECTO	003552	1#
MVRC	004163	1#
NEXT	001212	1#
OODFLG	001276	1#
PARAM =	104403	1#
PARM1	002604	1#
PARERR	002660	1#
PC =	000007	1#
PFTAB	003342	1#
POPPO =	012600	1#
POP1SP=	005726	1#
POP2SP=	022626	1#
PS =	177776	1#*
PUSHRO=	010046	1#

PUSH15=	005746	18
PUSH25=	024646	18
RESTAR	003254	18
RETURN	001210	18
R0	=X000000	18*
R1	=X000001	18*
R2	=X000002	18*
R3	=X000003	18*
R4	=X000004	18*
R5	=X000005	18*
SAVACT	001502	18*
SAVPC	001246	18
SAVR0	001230	18
SAVR1	001232	18
SAVR2	001234	18
SAVR3	001236	18
SAVR4	001240	18
SAVR5	001242	18
SAVSP	001244	18*
SETFLG=	104406	18
SP	=X000006	18*
SPCNT=	003113	18*
STACK	= 001200	18
SWR	= 177570	18
SYNFLG	001277	18
TEMP	005022	18*
TEMP1	001216	18*
TEMP2	001220	18
TEMP3	001222	18
TEMP4	001224	18
TEMP5	001226	18
TKCSR	001200	18
TKDBR	001202	18
TPCSR	001204	18
TPDBR	001206	18*
TRPOK	003176	18
TSTNO	001214	18
TYPE	= 104400	18
VRCFLG	001272	18
WDCNT	003110	18*
XNUM	004752	18
SY	= 000007	18
.	= 005126	18
.CNVRT	002744	18
.CONVR	002740	18
.INSTE	002544	18
.INSTR	002452	18
.INST1	002464	18
.MSG	002466	18*
.PARAM	002554	18
.PFAIL	003216	18
.SETFL	003116	18
.START	001600	18
.TRFSR	003164	18
.TRPTA	001250	18
.TYPE	002420	18

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 30
DZD00A.P11 CROSS REFERENCE TABLE -- MACRO NAMES

COMREN	10
DOEND	10
DOFRNT	10
ENDCOM	10
ESCAPE	10
GETPRI	10
GETSWR	10
HIT	10
HULT	10
HEWTST	10
POP	10
PUSH	10
REPORT	10
SETPRI	10
SETUP	10
SKIP	10
SRSH	10
STARS	10
SW	10
TYPBIN	10
TYPDEC	10
TYPIN	10
TYPNUM	10
TYPPCS	10
TYPCT	10
TYPXT	10
BUFFE	10
SCATCH	10
SCONVR	10
SETTEL	10
SETTPA	10
SERCE	10
SINSTR	10
SQ	10
SRASH	10
SRAIL	10
SSETEL	10
SSETVE	10
SSTART	10
SSYMB	10
STRAS	10
STRIDE	10
STRISA	10
STYPE	10
SVARIA	10
SVCOR	10
SUNT	10
SZIP	10
ELUT	10
HE-DE	10
KILL	10
SETUP	10
SUNYI	10
SUNYI	10
SUNYB	10
SUNYH	10

.SAPTY	18
.SASTA	18
.SCATC	18
.SCHTA	18
.SCTO	18
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.SCIV	18
.SEOP	18
.SERRO	18
.SERRT	18
.SULT	18
.SUNE	18
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.SSCOO	18
.SSIZE	18
.SUNO	18
.STRAP	18
.STYB	18
.STYP	18
.STYF	18
.STYP	18
.S40CA	18
.1170	18

ADD	
ASL	
ASR	
BEQ	
BGT	
BHI	
BIC	
BICB	
BIS	
BISB	
BIT	
BITB	
BLO	
BLT	
BNE	
BPL	
BR	
CCC	
CLR	
CLRB	
CLD	
CMPB	
DEC	
DECB	
EXT	
HALT	
INC	
JMP	
MOV	
MOVB	
NOP	
RETURN	
ROL	
RTI	
S.B	
TRAP	
TST	
TSTB	
.ASCII	
.ASCIZ	
.B.W	
.BYTE	
.ENDB	
.END	
.EQU	
.EQUV	
.EVEN	
.IRP	
.LIST	
.MACRO	
.MIST	
.PAGE	
.R.H	
.RPT	
.SETTL	
.TITLE	

E03

TRIAL MACY11 27(732) 26-OCT-76 10:09 PAGE 34
DZDOGA.P11 CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

ERRORS DETECTED: 0
DEFAULT GLOBALS GENERATED: 0

* DZDOGA.SEO/SOL/CRF/ML:TOC/PAGNUM=SYSMAC.CO,DZDOGA.P11
RUN-TIME: 23 26 1 SECONDS
RUN-TIME RATIO: 192/51=3.7
CORE USED: 36K (71 PAGES)

