

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 00001AL
28-DEC-77 13:17

780223
MACY11 30A(1052)
DQ11 MANUAL PARAMETER INPUT PROGRAM.

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HDR1CZDQGBSEQ

00010000

780223

IDENTIFICATION

PRODUCT CODE: AC-8630B-MC
PRODUCT NAME: CZDQGB0 DQ11 TRIAL PRG
DATE: FEB 1978
MAINTAINER: DIAGNOSTICS
AUTHOR: JOHN EGOLF, JUAN VALDES

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MAYNARD MASSACHUSETTS 10754

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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*


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(2)                                     ;TRAPCATCHER FOR ILLEGAL INTERRUPTS
(2)                                     . = 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
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(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
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(3) 000100 000102                      .+2      ;UNEXPECTED TRAP TO THIS LOCATION
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(3) 000114 000116                      .+2      ;UNEXPECTED TRAP TO THIS LOCATION
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(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
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(3) 000140 000142                      .+2      ;UNEXPECTED TRAP TO THIS LOCATION
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(3) 000150 000152                      .+2      ;UNEXPECTED TRAP TO THIS LOCATION
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(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
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(3)	000200	000202	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(3)	000244	000246	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(3)	000250	000252	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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GO1

(3)	000334	000336	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(3)	000364	000366	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(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
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(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
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(3)	000444	000446	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(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
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(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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DQ11 MANUAL PARAMETER INPUT PROGRAM.

SEQ 0007

(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
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(3)	000646	000000	HALT	:EXAMINE STACK TO FIND CAUSE
(3)	000650	000652	.+2	:UNEXPECTED TRAP TO THIS LOCATION
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(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
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(3)	000670	000672	.+2	:UNEXPECTED TRAP TO THIS LOCATION
(3)	000672	000000	HALT	:EXAMINE STACK TO FIND CAUSE

(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

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DQ11 MANUAL PARAMETER INPUT PROGRAM.

SEQ 0009

```

; STANDARD INTERRUPT VECTORS
(2)
(2)
(2)
(2) 000024 000024      .=24      .PFAIL      ; POWER FAIL HANDLER
(2) 000024 003216      340          ; SERVICE AT LEVEL 7
(2) 000026 000340      32
(2) 000030 000032      HALT
(2) 000032 000000      .TRPSRV     ; GENERAL HANDLER DISPATCH SERVICE
(2) 000034 003164      340          ; SERVICE AT LEVEL 7
(2) 000036 000340
(2) 000200 000200      .=200      JMP      .START ; GO TO START OF PROGRAM
(2) 000137 001600
(2)
(2)
(2)      001200      .=1200
(2)
; INDIRECT POINTERS TO TELETYPE VECTORS AND REGISTERS
(2) 001200 177560      TKCSR: 177560      ; TELETYPE KEYBOARD CONTROL REGISTER
(2) 001202 177562      TKDBR: 177562
(2) 001204 177564      TPCSR: 177564      ; TELEPRINTER CONTROL REGISTER
(2) 001206 177566      TPDBR: 177566      ; TELEPRINTER DATA BUFFER
(2)
; PROGRAM CONTROL PARAMETERS
(2) 001210 000000      RETURN: 0          ; SCOPE ADDRESS FOR LOOP ON TEST
(2) 001212 000000      NEXT: 0           ; ADDRESS OF NEXT TEST TO BE EXECUTED
(2) 001214 000000      TSTNO: 0          ; NUMBER OF TEST IN PROGRESS
(2)
; PROGRAM VARIABLES
(2) 001216 000000      TEMP1: 0          ; TEMPORARY STORAGE
(2) 001220 000000      TEMP2: 0          ; TEMPORARY STORAGE
(2) 001222 000000      TEMP3: 0          ; TEMPORARY STORAGE
(2) 001224 000000      TEMP4: 0          ; TEMPORARY STORAGE
(2) 001226 000000      TEMP5: 0          ; TEMPORARY STORAGE
(2) 001230 000000      SAVR0: 0          ; R0 STORAGE
(2) 001232 000000      SAVR1: 0          ; R1 STORAGE
(2) 001234 000000      SAVR2: 0          ; R2 STORAGE
(2) 001236 000000      SAVR3: 0          ; R3 STORAGE
(2) 001240 000000      SAVR4: 0          ; R4 STORAGE
(2) 001242 000000      SAVR5: 0          ; R5 STORAGE
(2) 001244 000000      SAVSP: 0         ; STACK POINTER STORAGE
(2) 001246 000000      SAVPC: 0         ; PROGRAM COUNTER STORAGE
  
```

K01

```

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



```

(2) 001420 000001 DQCR04: .BLKW 1
(2) 001422 000001 DQST04: .BLKW 1
(2) 001424 000001 DQCR05: .BLKW 1
(2) 001426 000001 DQST05: .BLKW 1
(2) 001430 000001 DQCR06: .BLKW 1
(2) 001432 000001 DQST06: .BLKW 1
(2) 001434 000001 DQCR07: .BLKW 1
(2) 001436 000001 DQST07: .BLKW 1
(2) 001440 000001 DQCR10: .BLKW 1
(2) 001442 000001 DQST10: .BLKW 1
(2) 001444 000001 DQCR11: .BLKW 1
(2) 001446 000001 DQST11: .BLKW 1
(2) 001450 000001 DQCR12: .BLKW 1
(2) 001452 000001 DQST12: .BLKW 1
(2) 001454 000001 DQCR13: .BLKW 1
(2) 001456 000001 DQST13: .BLKW 1
(2) 001460 000001 DQCR14: .BLKW 1
(2) 001462 000001 DQST14: .BLKW 1
(2) 001464 000001 DQCR15: .BLKW 1
(2) 001466 000001 DQST15: .BLKW 1
(2) 001470 000001 DQCR16: .BLKW 1
(2) 001472 000001 DQST16: .BLKW 1
(2) 001474 000001 DQCR17: .BLKW 1
(2) 001476 000001 DQST17: .BLKW 1
(1) 001500 000001 DQACTV: .BLKW 1
(1) 001502 000001 SAVACT: .BLKW 1
(1) 001504 000001 DQNUM: .BLKW 1
(1) 001506 000000 DQCSR: 0
(1) 001510 000000 DQSTAT: 0
(1) 001600 001600 .=1600

```

```

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

```

```

(2) 001600 012737 000340 177776 .START: MOV #340,PS ;LOCK OUT INTERRUPTS
(2) 001606 012706 001200 MOV #STACK,SP ;SET UP STACK
(2) 001612 012737 003216 000024 MOV #.PFAIL,@#24 ;SET UP POWER FAIL VECTOR
(2) 001620 012702 001400 MOV #1400,R2
(2) 001624 005022 CLEAR: CLR (R2)+
(2) 001626 022702 001600 CMP #1600,R2
(2) 001632 001374 BNE CLEAR
(2) 001634 012702 001400 MOV #1400,R2
(2) 001640 104400 TYPE
(2) 001642 003352 MTITLE
(2) 001644 005000 CLR R0
(2) 001646 012701 000005 MOV #5,R1
(2) 001652 005200 INC R0
(2) 001654 001376 BNE .-2
(2) 001656 005301 DEC R1
(2) 001660 001374 BNE .-6
(1) 001662 005777 177314 15$: TST @TKDBR
(1) 001666 104400 TYPE

```

MO1

(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 @TKDBR,R3
(1)	001714	105777	177264				TSTB @TPCSR
(1)	001720	100375					BPL -4
(1)	001722	110377	177260				MOV R3,@TPDBR
(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			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			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			NOP
(2)	002246	104401			INSTR
(2)	002250	004337			MAB
(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			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			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	010000		BIS #BIT14, (R2)
(1)	002340	000240			NOP
(2)	002342	104401			INSTR
(2)	002344	004527			MSYNC
(2)	002346	104406			SETFLG


```

(2) 002566 012537 002734
(2) 002572 112537 002736
(2) 002576 112537 002737
(2) 002602 010516
(2) 002604 005005
(2) 002606 012704 004734
(2) 002612 122714 000015
(2) 002616 001420
(2) 002620 121427 000060
(2) 002624 002415
(2) 002626 121427 000067
(2) 002632 003012
(2) 002634 142714 000060
(2) 002640 152405
(2) 002642 122714 000015
(2) 002646 001406
(2) 002650 006305
(2) 002652 006305
(2) 002654 006305
(2) 002656 000760
(2) 002660 104402
(2) 002662 000750
(2)
(2)
(2)
(2) 002664 020537 002732
(2) 002670 101373
(2) 002672 020537 002730
(2) 002676 103770
(2) 002700 133705 002736
(2) 002704 001365
(2)
(2)
(2)
(2) 002706 013704 002734
(2) 002712 010524
(2) 002714 062705 000002
(2) 002720 105337 002737
(2) 002724 001372
(2) 002726 000002
(2) 002730 000000
(2) 002732 000000
(2) 002734 000000
(2) 002736 000000
(2) 002737
(2)
(2)
(2)
(2) 002740 104400
(2) 002742 003607
(2) 002744 017601 000000
(2) 002750 062716 000002
(2) 002754 012137 003110
(2) 002760 112137 003112
(2) 002764 112137 003113
(2) 002770 013137 003114

```

```

MOV (R5)+,DEVADR
MOVB (R5)+,LOBITS
MOVB (R5)+,ADRCNT
MOV R5,(SP)
PARAM1: CLR R5
MOV #INBUF,R4
CMPB #15,(R4)
BEQ PARERR
IS: CMPB (R4),#0
BLT PARERR
CMPB (R4),#67
BGT PARERR
BICB #60,(R4)
BISB (R4)+,R5
CMPB #15,(R4)
BEQ LIMITS
ASL R5
ASL R5
ASL R5
BR 1$
PARERR: INSTER
BR PARAM1
;TEST TO SEE IF NUMBER IS WITHIN LIMITS
LIMITS: CMP R5,HILIM
BHI PARERR
CMP R5,LOLIM
BLO PARERR
BITB LOBITS,R5
BNE PARERR
;STORE NUMBER AT SPECIFIED ADDRESS
IS: MOV DEVADR,R4
MOV R5,(R4)+
ADD #2,R5
DECB ADRCNT
BNE 1$
RTI
LOLIM: 0
HILIM: 0
DEVADR: 0
LOBITS: 0
ADRCNT=LOBITS+1
;CONVERT OCTAL NUMBER TO ASCII AND OUTPUT TO TELEPRINTER
.CONVR: TYPE
MCRLF
.CNVRT: MOV @ (SP),R1
ADD #2,(SP)
MOV (R1)+,WRDCNT
IS: MOVB (R1)+,CHRCNT
MOVB (R1)+,SPACNT
MOV @ (R1)+,BINWRD

```

DQ11 MANUAL PARAMETER INPUT PROGRAM.

```

(2) 002774 013704 003114
(2) 003000 113705 003112
(2) 003004 012700 004776
(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 005040
(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 005040
(2) 003100 005337 003110
(2) 003104 001325
(2) 003106 000002
(2) 003110 000000
(2) 003112 000000
(2) 003114 000000

```

```

2$: MOV BINWRD,R4
   MOVB CHRCNT,R5
   MOV #TEMP,RC
3$: MOV R4,R3
   BIC #177770,R3
   ADD #260,R3
   MOVB R3,(R0)+
   ASR R4
   ASR R4
   ASR R4
   DEC R5
   BNE 3$
   MOV #MDATA,R3
4$: MOVB -(R0),(R3)+
   DECB CHRCNT
   BNE 4$
   TSTB SPACNT
   BEQ 6$
5$: MOVB #240,(R3)+
   DECB SPACNT
   BNE 5$
6$: CLRB (R3)
   TYPE
   MDATA
   DEC WRDCNT
   BNE 1$
   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 004734
(2) 003130 001002
(2) 003132 105015
(2) 003134 000406
(2) 003136 122737 000131 004734
(2) 003144 001005
(2) 003146 112715 177777
(2) 003152 062716 000002
(2) 003156 000002
(2) 003160 104402
(2) 003162 000755

```

```

.SETFLG: MOV @ (SP),R5
          CMPB #'N,INBUF
          BNE 1$
          CLRB (R5)
          BR 2$
1$: CMPB #'Y,INBUF
   BNE 3$
2$: MOVB #-1,(R5)
   ADD #2,(SP)
   RTI
3$: 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
          SUB #2,(SP) ;=PC OF TRAP

```


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```

(2) 003172 017616 000030      TRPOK:  MOV    @ (SP), (SP)      ; GET TRAP
(2) 003176 006316              ASL    (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)                               .PFAIL: MOV    R0, -(SP)          ; SAVE R0-R5 ON PROCESSOR STACK
(2) 003216 010046              MOV    R1, -(SP)
(2) 003220 010146              MOV    R2, -(SP)
(2) 003222 010246              MOV    R3, -(SP)
(2) 003224 010346              MOV    R4, -(SP)
(2) 003226 010446              MOV    R5, -(SP)
(2) 003230 010546              MOV    24, -(SP)
(2) 003232 013746 000024      MOV    SP, SAVSP           ; SAVE STACK POINTER
(2) 003236 010637 001244      MOV    #RESTART, 24        ; SET UP FOR POWER UP TRAP
(2) 003242 012737 003254 000024  HALT                          ; HALT ON POWER DOWN NORMAL
(2) 003250 000000              BR                               ; PROCESSOR WILL TRAP HERE WHEN POWER IS RESTORED
(2) 003252 000777

(2)                               RESTAR: MOV    SAVSP, SP          ; RESTORE STACK POINTER
(2) 003254 013706 001244      MOV    (SP)+, R5           ; RESTORE R0-R5
(2) 003260 012605              MOV    (SP)+, R4
(2) 003262 012604              MOV    (SP)+, R3
(2) 003264 012603              MOV    (SP)+, R2
(2) 003266 012602              MOV    (SP)+, R1
(2) 003270 012601              MOV    (SP)+, R0
(2) 003272 012600              MOV    #.PFAIL, 24        ; SET UP FOR POWER FAILURE
(2) 003274 012737 003216 000024  MOV    #340, PS
(2) 003302 012737 000340 177776  MOV    #STACK, SP
(2) 003310 012706 001200      CLR    TEMP
(2) 003314 005037 004776      INC    TEMP
(2) 003320 005237 004776      BNE    .-4
(2) 003324 001375              CONVRT
(2) 003326 104404              PFTAB
(2) 003330 003342              TYPE
(2) 003332 104400              MPFAIL
(2) 003334 003612              JMP    @RETURN
(2) 003336 000177 175646      PFTAB:  1
(2) 003342 000001              6, 2
(2) 003344 000006 000002      RETURN
(2) 003350 000207
(2) 003352 017435 005015 042012  MTITLE: .ASCII <35><37><15><12><12>/DQ11 TRIAL PROGRAM /<15><12>
(2) 003404 005015 043101 042524  .ASCII <15><12>/AFTER LOADING PARAMETERS/<15><12>
(2) 003440 005015 043111 052440  .ASCII <15><12>/IF USING XXDP MEDIUM/<15><12>
(2) 003470 005015 042523 020124  .ASCII <15><12>/SET SW07=1 DO NOT RE BOOT/<15><12>
(2) 003525 015 053012 041505  MVECTO: .ASCII <15><12>/VECTOR ADDRESS-/
(2) 003547 015 041412 047117  MREGAD: .ASCIZ <15><12>/CONTROL REGISTER ADDRESS-/
(2) 003603 040 037440 000      MQM:    .ASCIZ / ? /
(2) 003607 015 000012      MCRLF:  .ASCIZ <15><12>
(2) 003612 020040 047520 042527  MPFAIL: .ASCIZ / POWER FAILURE, PROGRAM RESTART AT TEST IN PROGRESS/
(2) 003677 015 051012 000      MR:    .ASCIZ <15><12>/R/
(2)                               .EVEN
(1) 003704 005015 054524 042520  MNUM:  .ASCIZ<15><12>/TYPE IN NUMBER OF DQ11'S IN SYSTEM.(INPUT OCTAL NUMBERS)01-20: /

```

F02

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SEQ 0018

```

(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 000001 .EVEN
(1) 004730 002 002 XNUM: 1
(1) 004732 001216 .BYTE 2,2
(2) TEMP1
(2) ;BUFFERS FOR INPUT-OUTPUT
(2) 004734 000000 INBUF: 0
(2) 004776 000000 .=. +40
(2) 005040 000000 TEMP: 0
(2) 005102 000000 .=. +40
(2) 000001 MDATA: 0
      .END
  
```


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#
TEMP5	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#
.INST1	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#

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CZDQGB.P11 28-DEC-77 13:17 CROSS REFERENCE TABLE -- MACRO NAMES

SEQ 0022

DQEND	1#
DQFRNT	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)