# DH11

DEVICE ROUTINE (MPG)

MD-11-DTDHA-B

EP-DTDHA-B-DL-A

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FICHE 1 OF 1

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MADE IN U.S.A.

[illegible]

IDENTIFICATION

PRODUCT CODE: [illegible]

PRODUCT NAME: DEC DECTALK RELEASE FOR VMS

DATE: [illegible]

MAINTAINER: DECTALK GROUP

AUTHOR: [illegible]

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.SBTTL REVISION HISTORY

| | | |
|---|---|---|
| : | APR 76 | [illegible]-B RELEASE |
| : | JAN 76 | ADDED MEMORY MANAGEMENT SUPPORT |
| : | OCT 75 | CREATED FULL SUPPORT DEVICE ROUTINE |
| : | AUG 75 | [illegible]-A INITIAL RELEASE MINIMUM SUPPORT DEVICE ROUTINE |

```
                                        ;SBTTL  STANDARD DEVICE ROUTINE TABLE
                                        ;[illegible]  MODE:-11-0"DH-0      DH11 DEVICE ROUTINE FOR MPC

                                        ;REVISION 0

                                        ;FILENAME OF "TDHRED.MPC" ON MPC/IOOP MEDIA

                                        ;MACY11:  DTDHRD,DTDHRD/CRF:SYM/DOC=DTDHRD.P11
                                        ;MACY11:          DTDHRD.MPC/B:0-DTDHRD.[illegible]
                                        ;PAPER TAPE:  PUNCH DTDHRD.MPC/FILE:BLIV

                                        .DEFGT  DH11
                                        .DSABL  GBL
                                        PAGE    17777B

                                        ;THE FOLLOWING TABLE IS IN THE STANDARD DEVICE FORMAT REQUIRED
                                        ;TO INTERFACE WITH MPC.

000000: 000000                  DCT:    .WORD   DHMEND-.                ;DEVICE ROUT SIZE IN BYTES
000002: 000000                  FLAGS:  .WORD   0                       ;DEVICE ROUT FLAGS
000004: 000000                          .WORD   0                       ;DEVICE ROUT PSW FLAG
000006: 000000                          .WORD   0                       ;DEVICE ROUT BUSY FLAG
000010: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000012: 000000                          .WORD   0                       ;DEVICE ROUT ERROR COUNT FLAG
000014: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000016: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000020: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000062: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000074: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000076: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000100: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000104: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000204: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000676: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000700: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000756: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000762: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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000766: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000770: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000772: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000774: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
000776: 000000                          .WORD   0                       ;DEVICE ROUT ERROR FLAG
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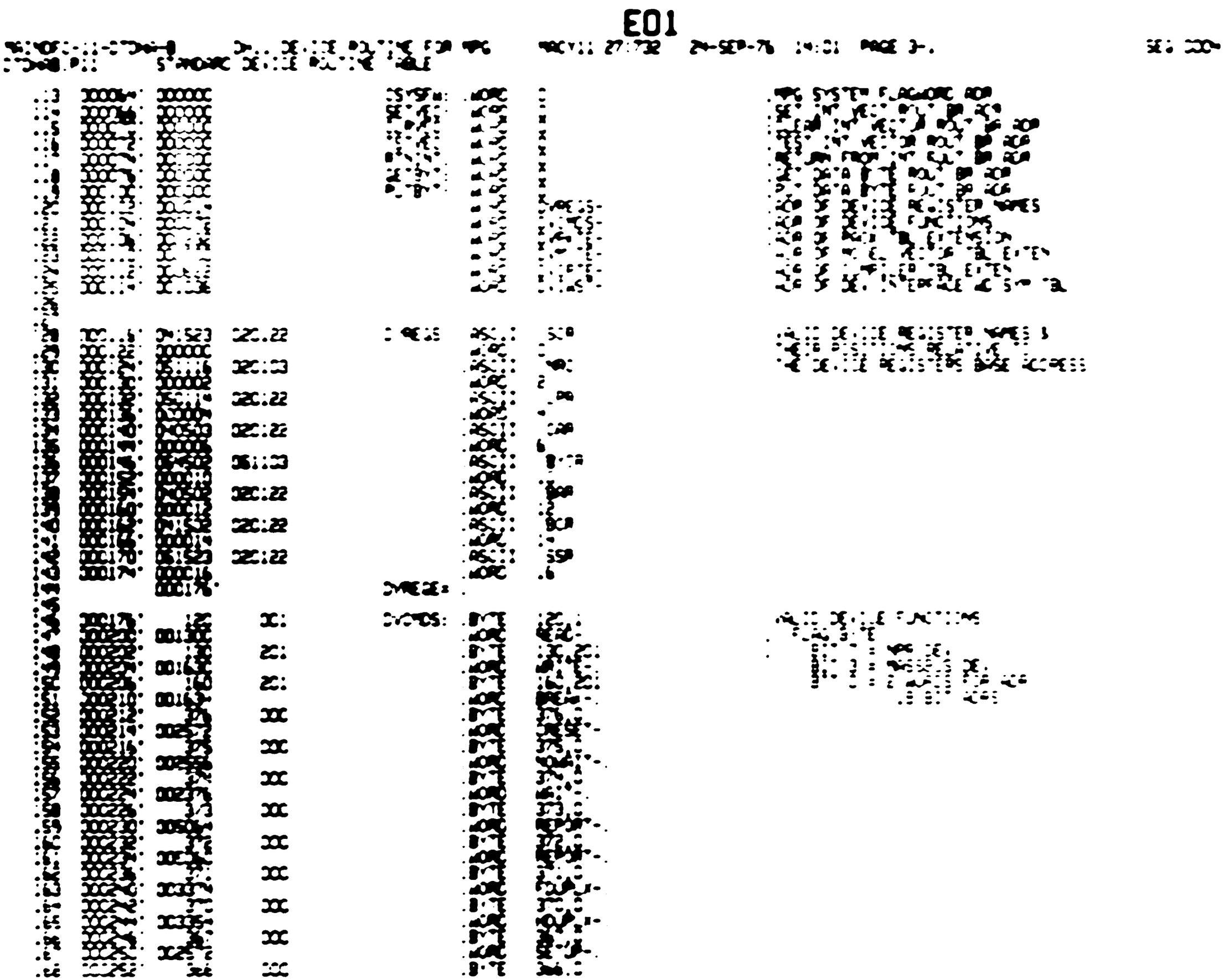
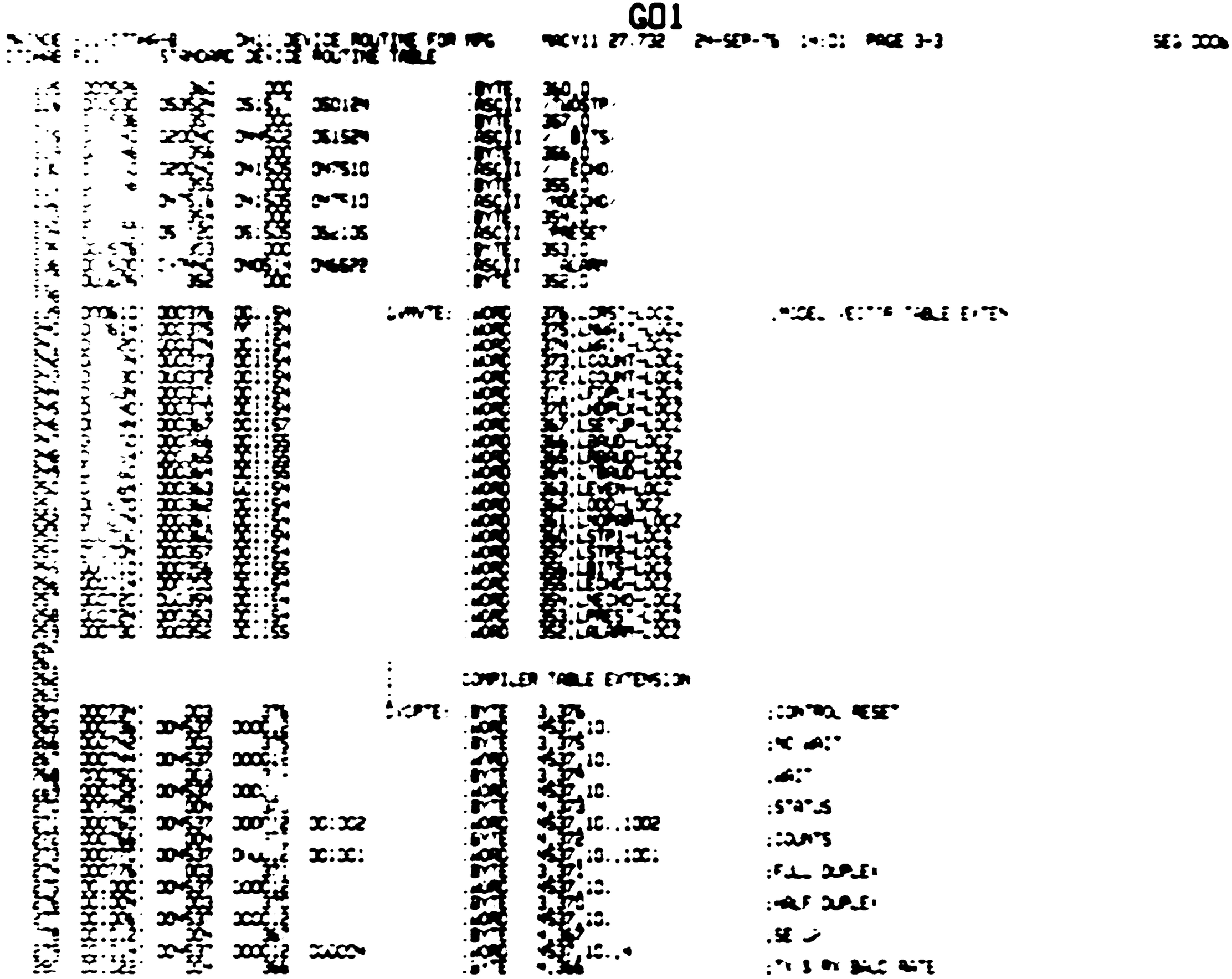


FO1

[illegible]



```
                                                                  ;STORAGE FOR DEV REG'S AT :M
                                                                  ;
                                                                  ;
                                                                  ;
```

```
                                        .SBTTL  DH11 FUNCTION ROUTINES
                                        ;*** TIMEOUT ERROR HANDLER
[illegible]  [illegible]  [illegible]   TOERR:  INC     [illegible]          ;INCR TIME OUT ERROR COUNT
[illegible]  [illegible]  [illegible]   [illegible]  CMP     [illegible],#6       ;EXCEEDED 6 TIMEOUTS
[illegible]  [illegible]  [illegible]   [illegible]  BGE     [illegible]          ;YES - CONTINUE
[illegible]  [illegible]  [illegible]   [illegible]  RTI                          ;NO - RETURN
[illegible]  [illegible]  [illegible]   [illegible]  SR      R0,SAVREG            ;SAVE REGISTERS
[illegible]  [illegible]  [illegible]   [illegible]  SUB     PC,R0                ;R0 THE ADR TO R3
[illegible]  [illegible]  [illegible]   [illegible]  MOV     [illegible],R3       ;CLEAR WAIT FOR I/O TERM
[illegible]  [illegible]  [illegible]   [illegible]  JSR     R5,PRINT             ;PRINT TIMEOUT ERR MSG
[illegible]  [illegible]  [illegible]   [illegible]  .ASCIZ  [illegible]
[illegible]  [illegible]  [illegible]   [illegible]  .EVEN
[illegible]  [illegible]  [illegible]   [illegible]  JMP     [illegible]          ;KILL THE PROGRAM
[illegible]  [illegible]  [illegible]   [illegible]  JSR     R5,[illegible]       ;DISPLAY STATUS & START 0
[illegible]  [illegible]  [illegible]   [illegible]  JSR     PC,RESREG            ;RESTORE REGISTERS
[illegible]  [illegible]  [illegible]   TOERR:  MOV     R0,R5                ;GC DISPLAY DEVICE REGS
[illegible]  [illegible]  [illegible]   [illegible]  JMP     [illegible]
[illegible]  [illegible]  [illegible]   [illegible]  [illegible]  [illegible]  [illegible]  ;DH11 TIMEOUT ON I/O
[illegible]  [illegible]  [illegible]   [illegible]  [illegible]  [illegible]
```

```
                                                        ;OTHERWISE RELEASE CONTROL
                                                        ;SET READ BUSY
                                                        ;PUT VECTOR ADDR TO CALL
                                                        ;ALSO BUS PRIORITY
                                                        ;GO SET THE VECTOR
                                                        ;CLEAR TIME OUT ERR CNT
                                                        ;CLEAR ERROR INDICATOR
                                                        ;TEST MAINT BIT IN DPSW
                                                        ;SET CSR BIT TO SAVE STATE
                                                        ;SET ADDRESS
                                                        ;BYTE COUNT ADD
                                                        ;GET ADDRESS FROM CALL
                                                        ;GET THE SPECIFIED
                                                        ;SET LAREY DEV ADR
```

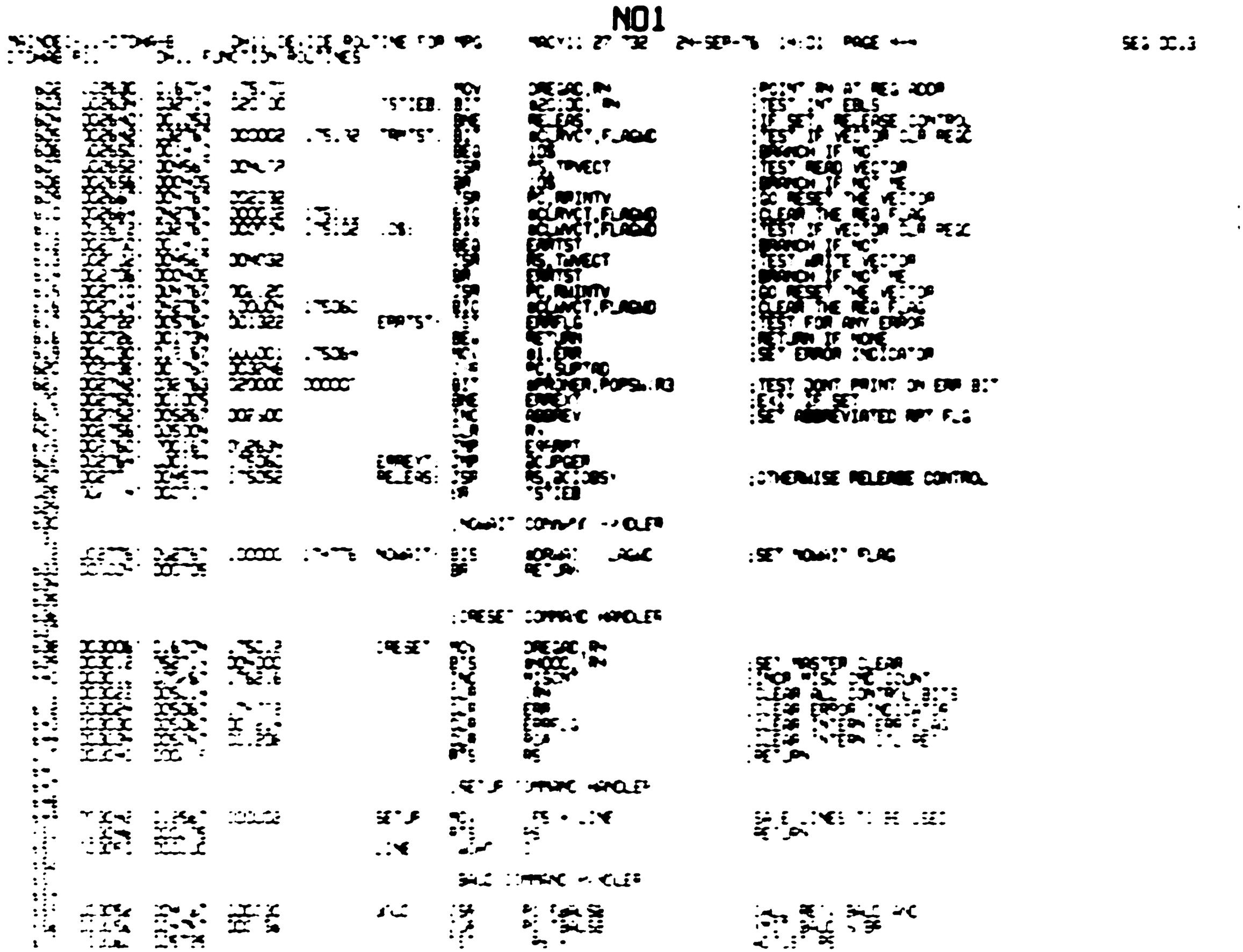
```
[illegible]  DH11 DEVICE ROUTINE FOR PDP-[illegible]   MACRO [illegible]   [illegible]   PAGE [illegible]   SEQ 0011
[illegible]  DH11 FUNCTION ROUTINES

[illegible]  000002  000205                          MTS     R5                      ;RETURN VALUE

                                                     ;WRITE AND BREAK COMMAND HANDLER

[illegible]  000010  175740  WRITE:  [illegible]     ;CLEAR BREAK FLAG
[illegible]  000010  175730  BREAK:  [illegible]     ;SET BREAK FLAG
[illegible]  000776          WRIT:   [illegible]     ;SAVE R5
[illegible]  000006  000756          [illegible]     ;[illegible]
[illegible]  175730                  [illegible]     ;[illegible]
[illegible]  000000                  [illegible]     ;[illegible]
[illegible]  175730                  [illegible]     ;[illegible]
[illegible]  000000  175640  SETBS:  [illegible]     ;SET WRITE BUS
[illegible]  000004  000012          [illegible]     ;[illegible]
[illegible]  175716  000006          [illegible]     ;[illegible]
[illegible]  000000          :CS:    .MORE   [illegible]
[illegible]  000000          ZCS:    .MORE   [illegible]
[illegible]  000176                  .MORE   [illegible]
[illegible]  177100                  [illegible]     ;CLEAR [illegible] ERROR [illegible]
[illegible]  000000          :CLEAR: [illegible]     ;[illegible]
[illegible]  000030                  [illegible]     ;CLEAR ERROR [illegible]
[illegible]  000000                  [illegible]
[illegible]  000000                  [illegible]     ;[illegible] BASE IN R3
[illegible]  000002  [illegible]     [illegible]     ;[illegible] R3,[illegible]
[illegible]  000000                  [illegible]
[illegible]  001000                  [illegible]     ;SET [illegible] BUS STATE
[illegible]  001000          [illegible]             [illegible]
[illegible]  002000          [illegible]             ;R5 ADDRESS
[illegible]  002000                  [illegible]     ;BYTE COUNT
[illegible]  000000                  [illegible]     ;[illegible]
[illegible]  000000                  [illegible]     ;[illegible]
[illegible]  000000                  [illegible]     ;[illegible]
[illegible]  000000          :[illegible]            [illegible]
[illegible]  000000                  [illegible]     ;[illegible]
[illegible]  000012          [illegible]             [illegible]
[illegible]  175546                  [illegible]     [illegible]
[illegible]  000000                  [illegible]     [illegible]
[illegible]  001730          .[illegible]            ;SET [illegible] BUS [illegible]
[illegible]  000002  [illegible]     [illegible]     ;SAVE R5 [illegible]
[illegible]  [illegible]             [illegible]     [illegible]
[illegible]  [illegible]             [illegible]     [illegible]
```

[illegible]



```
[illegible]                                                                                    [illegible]

[illegible]  [illegible]  [illegible]  [
```

```
[illegible]                                                                                                                    [illegible]
[illegible]                                                                                                                    [illegible]
[illegible]                                                                                                                    [illegible]
```

```
[illegible]  000177  177100          MOV     #CLPSTS
[illegible]  012701  000003          MOV     #3,R1
[illegible]  000167  002546          JMP     ERLOOP                  ;GO ERROR
[illegible]  000207                  RTS     PC                      ;RETURN
[illegible]  013117  [illegible]     BITB:   .ASCII  [illegible] 5,6,7 OR 8/
[illegible]  000120  [illegible]
[illegible]  000000  [illegible]
[illegible]  000000  [illegible]
[illegible]  000000
```

```
[illegible]  [illegible]  101210                                  ;GETS A MC - MC
[illegible]  [illegible]  [illegible]                     ;10:    ;TEST FOR A BIT = 1
[illegible]  [illegible]  [illegible]                             ;FOUND IT!
[illegible]  [illegible]  [illegible]                             ;DECR BIT COUNT
[illegible]  [illegible]  [illegible]                             ;TRY AGAIN
[illegible]  [illegible]  [illegible]                     ;25.    ;ARE WE DONE?
[illegible]  [illegible]  [illegible]                             ;YES-GO SET ALARM
[illegible]  [illegible]  [illegible]                             ;CHECK IF MORE BITS SET
[illegible]  [illegible]  [illegible]                             ;IF NOT KEEP LOOKING
[illegible]  [illegible]  [illegible]                     ;35     ;
[illegible]  [illegible]  [illegible]  202622                     ;PRINT ERR MSG
[illegible]  [illegible]  [illegible]
[illegible]  [illegible]  [illegible]  [illegible]                ;
[illegible]  [illegible]  [illegible]  [illegible]                ;TIME ERROR EXIT
[illegible]  [illegible]  [illegible]  [illegible]
[illegible]  [illegible]  [illegible]                     ;40:    ;SET ALARM LEAVE ACTIVE
[illegible]  [illegible]  [illegible]  [illegible]                ;SET RE; POOR ; PA
[illegible]  [illegible]  [illegible]  [illegible]  000C.6        ;
[illegible]  [illegible]  [illegible]  [illegible]                ;
[illegible]  [illegible]  [illegible]  [illegible]                ;
[illegible]  [illegible]  [illegible]  [illegible]                ;
[illegible]  [illegible]  [illegible]  [illegible]  [illegible]   ;
[illegible]  [illegible]  [illegible]  [illegible]  [illegible]   ;
[illegible]  [illegible]  [illegible]  [illegible]  [illegible]   ;
[illegible]  [illegible]  [illegible]  [illegible]  [illegible]   ;
```

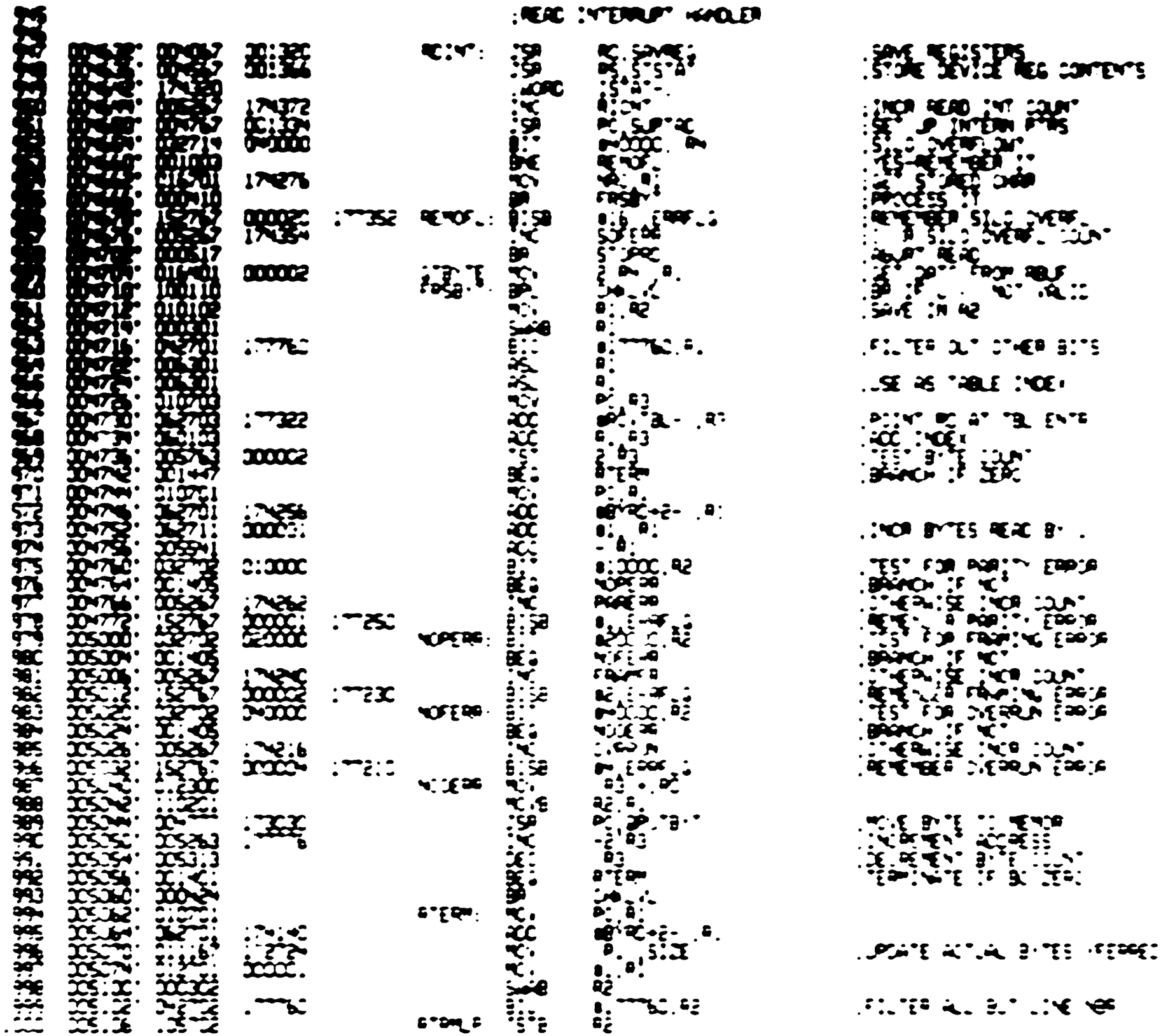
```
                                        ;WRITE & READ CONTROL TABLES

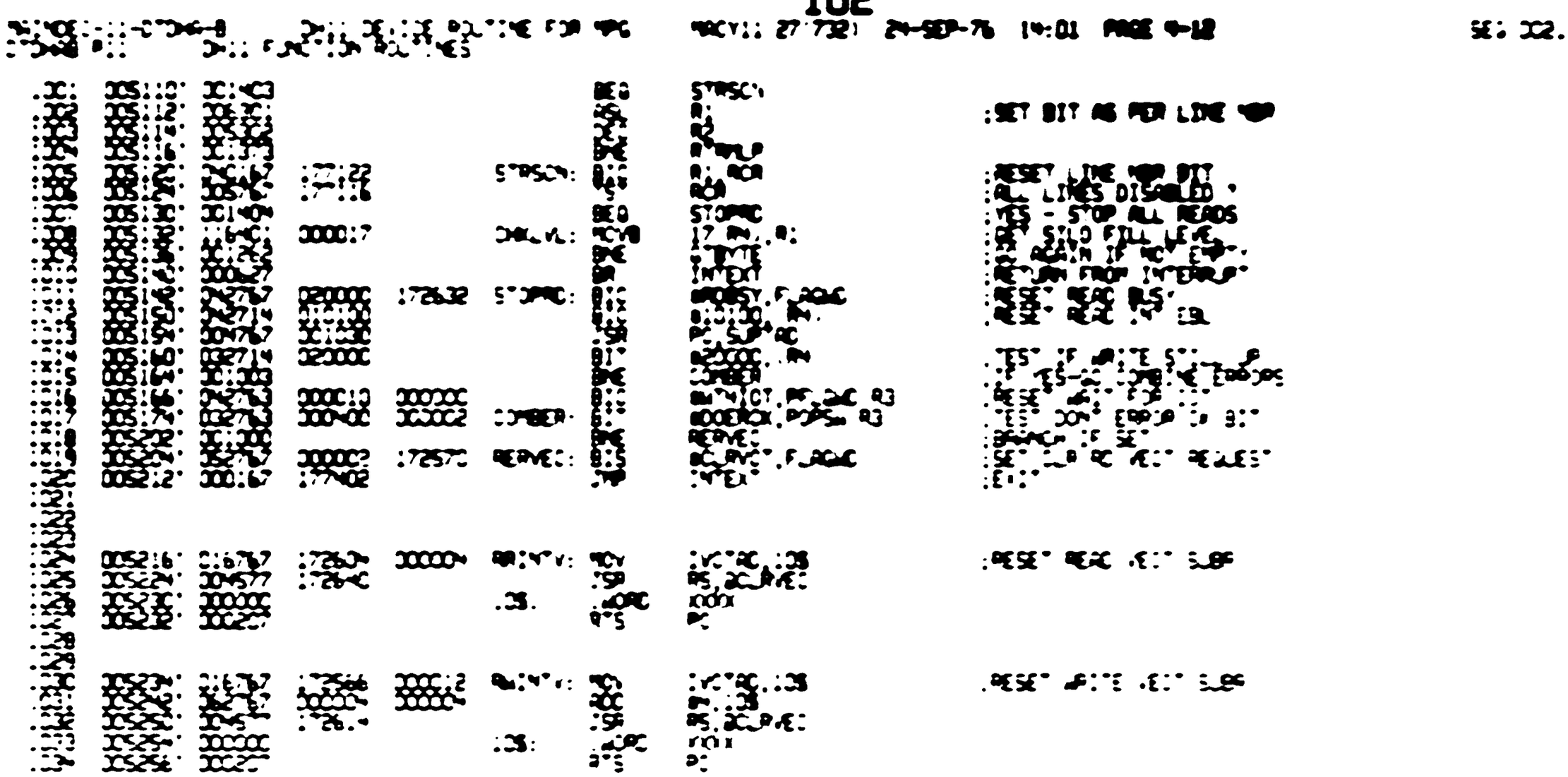
[illegible]  [illegible]  [illegible]  [illegible]  SPCTBL:  .WORD  [illegible]          ;LINE    ADDR ADDR BYTE [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]

[illegible]  [illegible]                  [illegible]:  .WORD  [illegible]          ;PROC STATUS SAVE
                                          [illegible]:  .WORD  [illegible]
                                          [illegible]:  .WORD  [illegible]
                                          BYTES:  .WORD  [illegible]
                                          [illegible]:  .WORD  [illegible]          ;TEMP [illegible] [illegible] REG
                                          [illegible]:  .WORD  [illegible]          ;[illegible] SOFT [illegible] REG
                                          [illegible]:  .WORD  [illegible]          ;RESERVE [illegible] REG
                                          ERROR:  .WORD  [illegible]                ;ERROR FLAG

[illegible]  [illegible]  [illegible]  [illegible]  [illegible]:  .WORD  [illegible]          ;LINE    ADDR BYTE [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
                                                            .WORD  [illegible]
```

```
                                                        ;WRITE INTERRUPT HANDLER
[illegible]  001160                 WRINT:  JSR     R0,SAVREG       ;SAVE REGISTERS
[illegible]  001246                         JSR     R5,STSTAT       ;STORE DEVICE REG CONTENTS
[illegible]  174460                         .WORD   ;STAT-.
[illegible]  174466                         MOV     WICNT           ;INCR WRITE INT COUNT
[illegible]  001514                         JSR     PC,SUPTOC       ;SET UP INTERNAL PTRS
[illegible]  100000                         BIS     #100000,@PS     ;ENTER INT
[illegible]  000105                         INCB    WAKEON          ;YES - WAKE
[illegible]  000010  ;776WC                 BIS     #BIT3,@CSR      ;REPORTED NEW ERROR
[illegible]  174442                         BIC     #BIT7,@CSR      ;NOW NEW ERROR OK
[illegible]  000002                 WAKEON: MOV     (PC)+,R0        ;ANY BUFFER ACTIVE REQ
[illegible]  174442                         BIS     #BIT0,@CSR      ;ANY BUSY CSR
[illegible]  000001                         BIC     #BIT0,R0        ;FIND OUT WHAT CHANGED
[illegible]  000002                         BEQ     .+6             ;BRANCH IF NO CHANGE
[illegible]  ;776[illegible]                 BIS     R0,@CSR         ;RESET WAKEUP CHANGED
[illegible]  000[illegible]                 MOV     R0,@R4          ;R4 STORE BAC BUSY REG
[illegible]  ;7[illegible]                   MOV     R0,R0           ;R0=R0
[illegible]                                 ASLB    BUFL-..(PC)     ;A* WRITE ADDR TBL
[illegible]                                 CLR     R2
[illegible]                         ;DS:    BCS     ;DS             ;TEST LINE 0 BUSY
[illegible]                                 ASL     R0              ;
[illegible]  000006                 ;DS:    ADD     R0,PC           ;FIND ADDR ENTRY
[illegible]                                 ADC     ;LINE           ;ADC LINE NUM
[illegible]                                 ASR     R0              ;
[illegible]                                 ASR     R0              ;CLEAR LINE BITS
[illegible]                                 ASR     R0              ;
[illegible]                                 ASR     R0              ;
[illegible]                                 ASR     R0              ;
```





```
                                                .SBTTL  DRV:: SUPPORT ROUTINES

                                                ;DEVICE ROUTINE WAKEUP:ING

                                                        ;SP     R5,WSLEEP       ; R0 = [illegible]
                                                        ;.WORD  [illegible]     ; [illegible] WRB DPSW
                                                                                ; [illegible] DC WSLP
                                                        ;R2 = PROC'S DPSW
                                                        ;DES'RC'S RC.R.

                                                WSLEEP: 'S      R5,-(SP)        ;[illegible] DC WSLP'
                                                        [illegible]             ;[illegible]
                                                        [illegible]             ;DPSW [illegible] EACH PASS WSLP'
                                                        [illegible]             ;[illegible]
                                                ;:DS:   [illegible]             ;SET [illegible] DPSW
                                                        [illegible]
                                                        [illegible]             ;SET [illegible] IF WOPCS
                                                ;:DS.   [illegible]             ;WSLP [illegible] NECESSARY [illegible]
                                                        [illegible]
                                                        [illegible]
                                                ;:DS:   'S      R5              ;EXIT [illegible]

                                                ;DRV:: [illegible] ROUTINE

                                                        ;SP     R5,[illegible]  ; R0 [illegible]
                                                        ;.WORD  [illegible]     ; [illegible]
                                                                                ; [illegible] MODE [illegible]
                                                                                ; [illegible] [illegible]
                                                                                ; DC [illegible]
                                                                                ; DC [illegible]

[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ; [illegible] [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] [illegible] R5 - R5
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] [illegible] [illegible] IF
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;SET [illegible] ADR IF [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;SET [illegible] IF WOPCS
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] WOPCS = [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] WOPCS [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] [illegible] WOPCS [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;SET [illegible] PROC [illegible] ADR [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;SET [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] [illegible] DC S'A'S [illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;A S'A'S REG'S
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] [illegible] [illegible] 0
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible] DEV S'A'S
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;[illegible]
[illegible]     [illegible]     [illegible]     [illegible]     [illegible]     ;SUB [illegible] [illegible] WS
```

```
[illegible]  [illegible]  000014                    .WORD  12.
[illegible]  [illegible]  [illegible]  00:056       .SB    R5,DISPS        ;00 DISPLAY STATUS AT ADDR [illegible]
[illegible]  [illegible]  [illegible]               .WORD  STAT-.
[illegible]  [illegible]  [illegible]  00:14C       .SB    R5,PRINT        ;ISSUE 'CURRENTLY' MSG
[illegible]  [illegible]  [illegible]               .WORD  CURMSG-.
[illegible]  [illegible]  000012                    .WORD  10.
[illegible]  [illegible]  [illegible]  00:040       .SB    R5,DISPS        ;00 DISPLAY CURRENT STATUS
[illegible]  [illegible]  [illegible]               .WORD  STAT-.
[illegible]  [illegible]  [illegible]  000001       DISCNT: .BYTE  1,PN    ;DISPLAY COUNTS
[illegible]  [illegible]  [illegible]               .BYTE  [illegible]     ;[illegible]
[illegible]  [illegible]  [illegible]  000020       .BYTE  16.,RC          ;SET UP 8 OF ADDRS
[illegible]  [illegible]  [illegible]               .BYTE  R1,R1           ;SET UP ADR OF [illegible]
[illegible]  [illegible]  [illegible]  173540       .WORD  [illegible]
[illegible]  [illegible]  [illegible]               .BYTE  R2,R2           ;SET UP TB ADR
[illegible]  [illegible]  [illegible]  000070       .WORD  [illegible]
[illegible]  [illegible]  [illegible]  000012       RPTLP:  .BYTE  R2,R0,RPTBGS  ;MOV MSG ADR TO S/R [illegible]
[illegible]  [illegible]  [illegible]  000042       .SB    R0,SAVREG       ;SAVE ALL REGS
[illegible]  [illegible]  011100                    .BYTE  R1,RC           ;SET CURRENT COUNT
[illegible]  [illegible]  [illegible]  172344       .SB    R5,ASCBIN       ;CONVERT TO ASCII
[illegible]  [illegible]  000000                    RPTBGS: .WORD  0,0,0
[illegible]  [illegible]  [illegible]  000052       .SB    RC,RESREG       ;RESTORE REGS
[illegible]  [illegible]  005721                    .BYTE  R0,[illegible]  ;POINT AT NEXT [illegible]
[illegible]  [illegible]  005300                    .BYTE  RC              ;DONE ALL ADDRS
[illegible]  [illegible]  [illegible]               .BYTE  [illegible]     ;[illegible]
[illegible]  [illegible]  [illegible]  00:042       .SB    R5,PRINT        ;00 ISSUE COUNTS MSG
[illegible]  [illegible]  [illegible]               .WORD  STATMSG-.
[illegible]  [illegible]  000012                    .WORD  [illegible]
[illegible]  [illegible]  [illegible]  00:032       RPTEND: .SB    R5,PRINT        ;ISSUE END OF REPORT MSG
[illegible]  [illegible]  [illegible]               .WORD  REPDONE-.
[illegible]  [illegible]  [illegible]               .WORD  -:3
[illegible]  [illegible]  [illegible]  :00:2C       :AREY:  .SB    RC,RESREG       ;RESTORE [illegible]
[illegible]  [illegible]  [illegible]               .BYTE  RC,[illegible]  ;SET UP RE[illegible] P[illegible]
[illegible]  [illegible]  [illegible]               .BYTE  R5              ;EX[illegible] [illegible]

[illegible]  [illegible]  000000                    ;BPTE:  .WORD  0

[illegible]  [illegible]  [illegible]               REPTBL: .WORD  BCMD0-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  BCMD1-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  BCMD2-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  BCMD3-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  CMDCD-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  CMDCM-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  CMDCR-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  CMDDS-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  [illegible]-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  [illegible]-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  DRDEN-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  DRCOM-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  DRSTM-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  DRDNS-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  DRSOF-RPTBGS
[illegible]  [illegible]  [illegible]               .WORD  [illegible]-RPTBGS
```

```
                                                ;DH11 ERROR REPORT ROUTINE

[illegible]  ERRRPT:  JSR     PC,ERROIS
[illegible]           TMP     [illegible]
[illegible]  ERROIS:  MOV     [illegible],R1                  ;PC:[illegible] R1: [illegible] ERR MSG
[illegible]           ADC     [illegible],R1
[illegible]           MOV     R1,2,ERMBC[illegible]
[illegible]           MOV     [illegible],R[illegible]        ;PC:[illegible] RC [illegible] ERR MSG TB[illegible]
[illegible]           ADC     [illegible],RC
[illegible]  :S:      [illegible]
[illegible]           [illegible]                             ;BRANCH IF RC [illegible] TB ERC
[illegible]           [illegible]                             ;[illegible] ERR
[illegible]           [illegible]                             ;BRANCH IF FUNC
[illegible]  2S:      [illegible]
[illegible]  3S:      MOV     R5,R2
[illegible]  4S:      MOVB    RC,R1,R1                        ;MOVE MSG CODE TO ERR MSG
[illegible]           [illegible]                             ;BUMP BY [illegible]
[illegible]           [illegible]
[illegible]           [illegible]                             ;CHECK IF MORE
[illegible]  ERR[illegible]:  JSR     R[illegible],PRINT      ;PRINT ERROR MSG
[illegible]           .WORD   ERMSGC-.
[illegible]  ERMBC:   .WORD   [illegible]
[illegible]  ERC:RG:  JSR     R[illegible],[illegible]SPS     ;DISPLAY DEVICE REGS
[illegible]           .WORD   [illegible]
[illegible]  ERRSW:   MOV     PSRCS[illegible],R3,RC          ;GET ADDR OF SRC STATUS
[illegible]  :3S:     MOVB    RC,R1                           ;SAVE STATUS [illegible]
[illegible]           CMP     [illegible],RC,[illegible] STATUS ;ERROR OCCUR ON THIS STATUS
[illegible]           [illegible]                             ;YES - BRANCH
[illegible]           [illegible]                             ;[illegible] NEXT STATEMENT
[illegible]           [illegible]                             ;[illegible] STATUS
[illegible]  2S:      [illegible]                             ;[illegible] ADDR OF STATUS [illegible]
[illegible]           [illegible]                             ;GET [illegible] 2ND [illegible]
[illegible]           [illegible]
[illegible]           [illegible]                             ;[illegible] SPACES
[illegible]           [illegible]
[illegible]           [illegible]
[illegible]           [illegible]                             ;CLEAR ERROR FLAG
[illegible]           [illegible]
[illegible]  ERR[illegible]:  [illegible]                     ;ERROR MSG [illegible]
[illegible]
[illegible]
[
```

```
[illegible]  [illegible]  [illegible]                    [illegible]  [illegible]  [illegible]
[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]
[illegible]  [illegible]  [illegible]
[illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  [illegible]  000000
```

[illegible] SUBROUTINES FOR [illegible] DEVICE ROUTINE

[illegible] REGISTERS [illegible]

[illegible] SUBROUTINE

[illegible] REGISTERS [illegible]

[illegible] SUBROUTINE

[illegible] PROCESSOR'S PROCESSOR ADDRESSING

[illegible] SUBROUTINE

[illegible] SET UP LOCATION ZERO ADDRESSING

[illegible] PROCESSOR TO [illegible]

[illegible] ADDRESSING

[illegible] SUBROUTINE

[illegible] DEVICE'S STATUS REGISTERS

[illegible] STATUS

[illegible] ADDRESS ADDRESSING

[illegible]

[illegible] ADDRESSING [illegible]

[illegible]

[illegible] ADDRESSING [illegible]

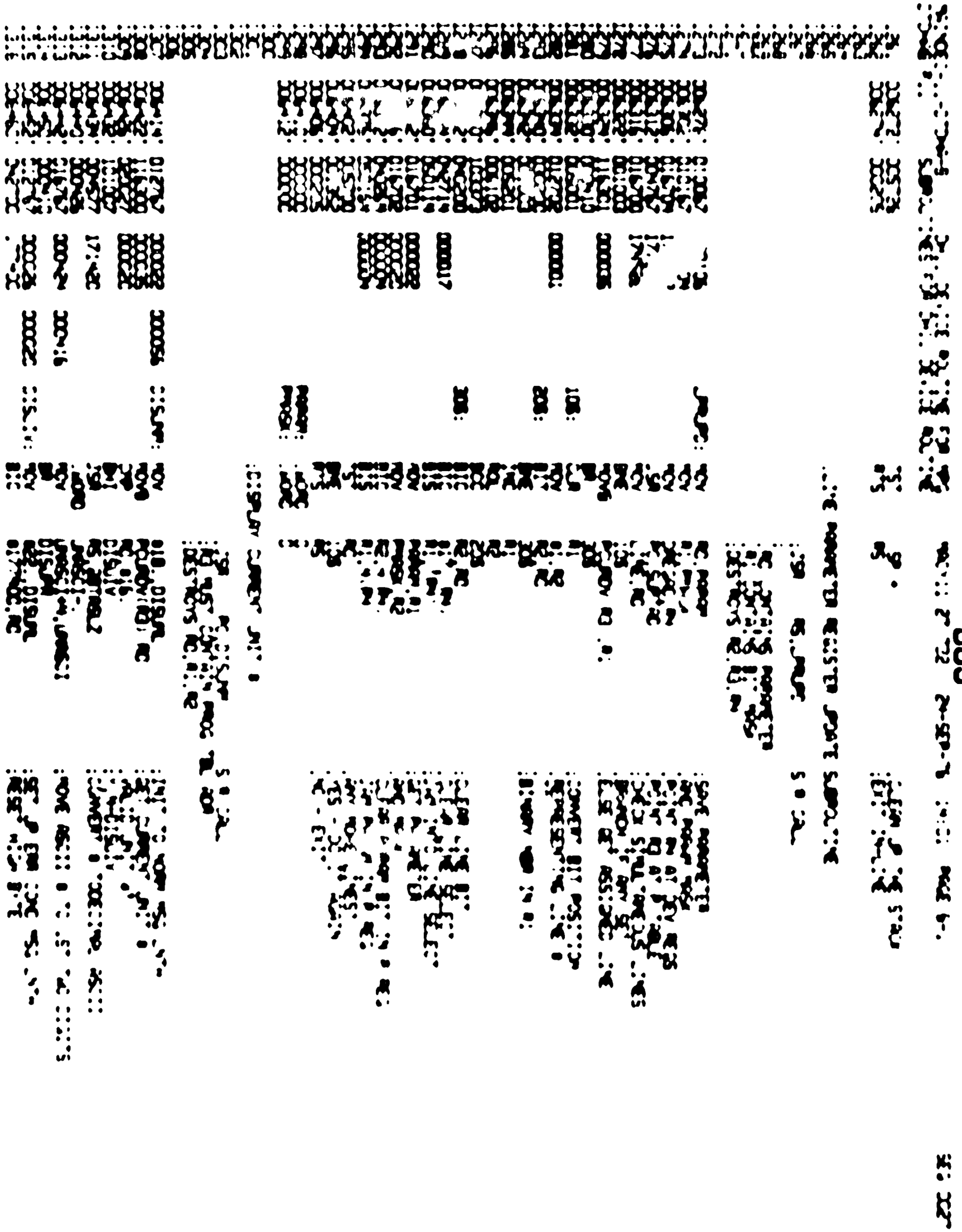
[illegible]

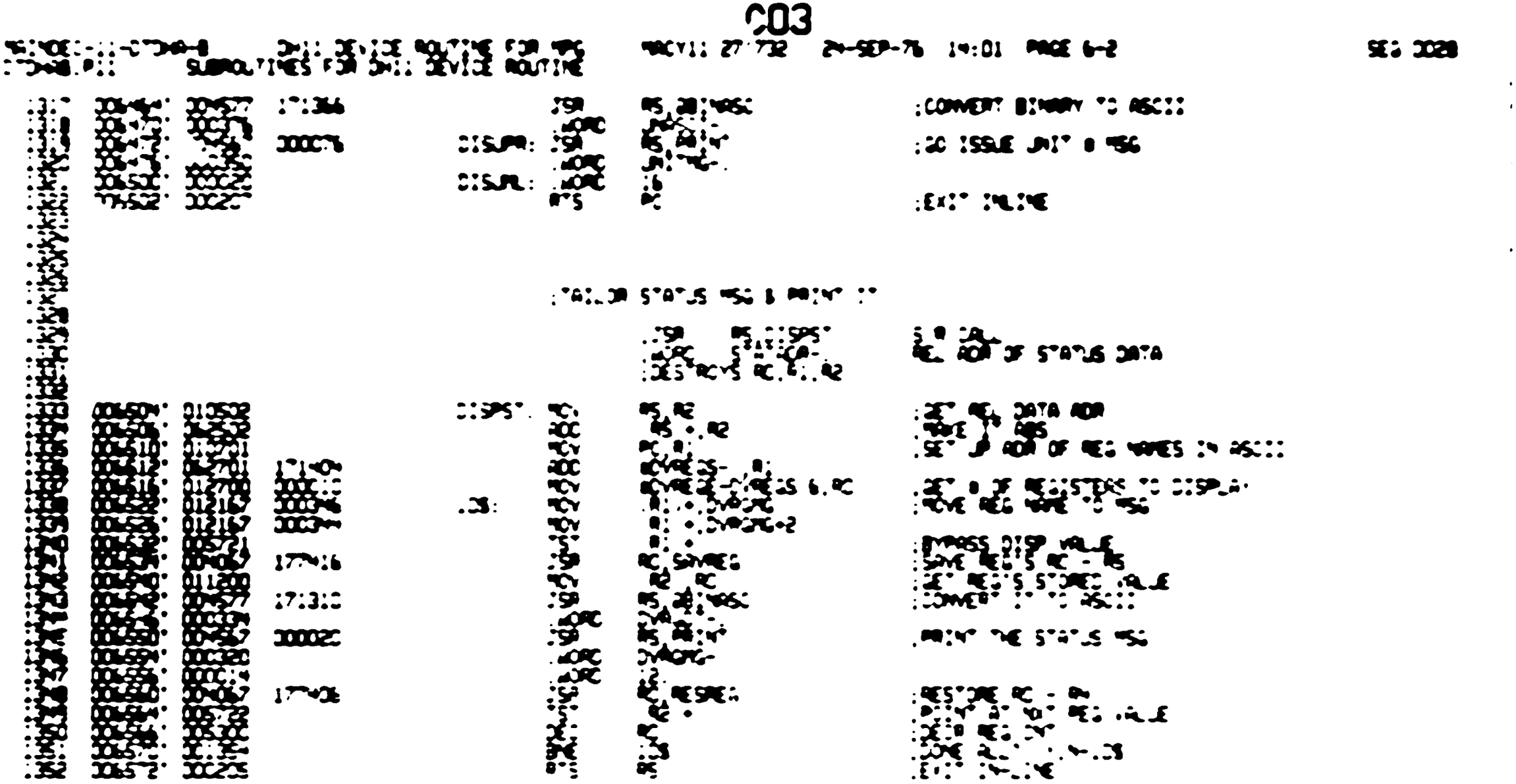
[illegible]

[illegible]

[illegible]

[illegible]

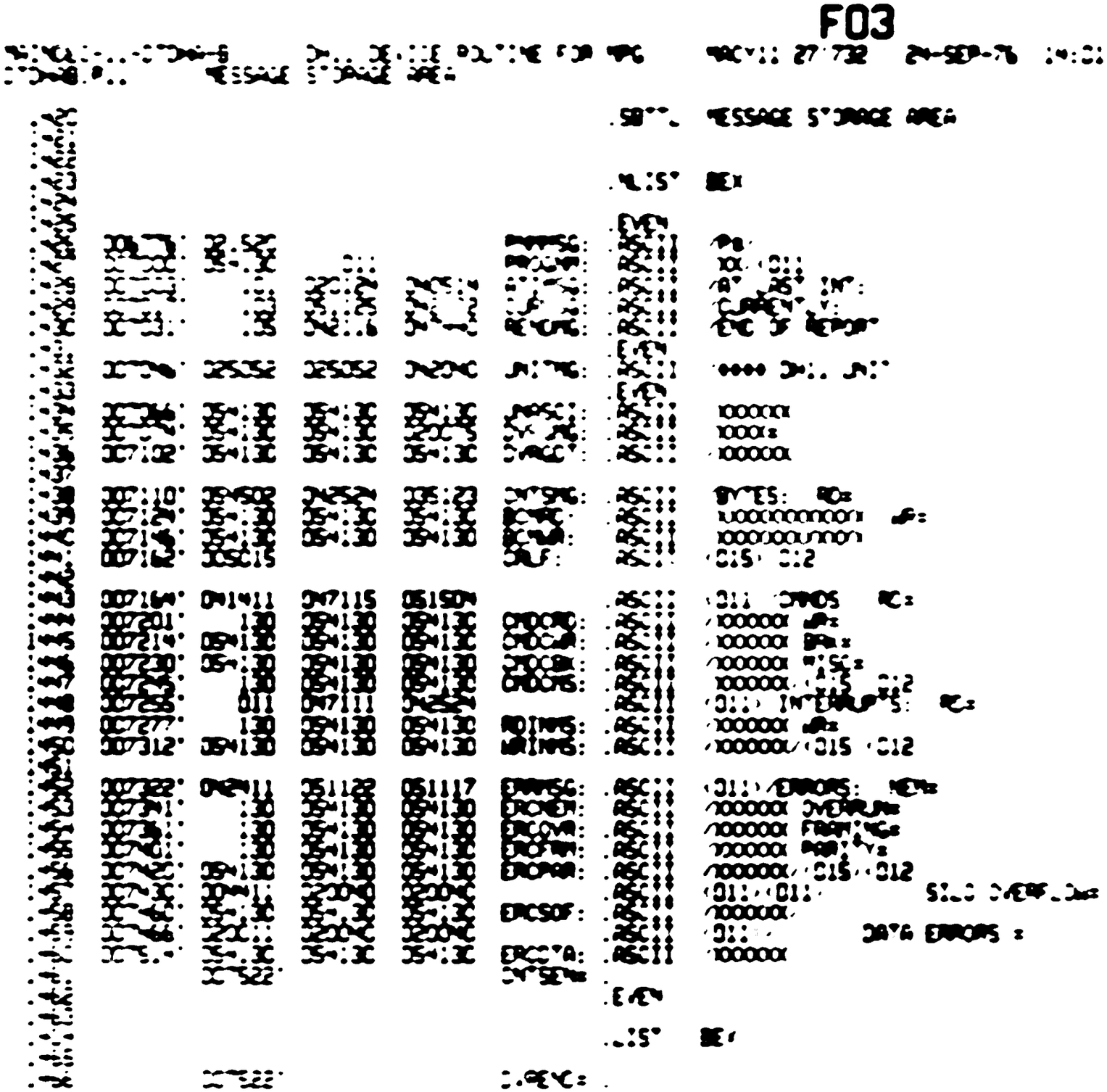




```
                                                ;ISSUE MSG TO LIST DEVICE
                                                        JSR     R5,PRINT        ;CALL
                                                        .WORD   MSGADR          ;R1 ADDR OF MSG
                                                        .WORD   BYTCNT          ;R2 BYTE CNT, IF NEGATIVE,
                                                                                ;  RESET PRT DEV DESIGNATED
                                                        ;R3 = PROC TB ADDR
                                                        ;PR0 = F.ALLOC -- IF NEGATIVE, USE DMAC MODE PRINT
                                                        ;DESTROYS R0,R1,R2
                                                PRINT:  MOV     R1,R0           ;GET MSG ADDR & MOVE IT ABS
                                                        MOV     (R5)+,R2        ;GET BYTE COUNT
                                                        MOV     (R5)+,R1        ;USE DMAC MODE PRINT?
                                                        TSTB    R0              ;
                                                        BGT     1$              ;SET UP .IOW INFO ADDR
                                                        MOV     R2,-(SP)        ;
                                                        MOV     R1,R2           ;MOVE MSG ADDR REL.
                                                        ADD     R2,R1           ;SAVE ABS ADDR
                                                        ADD     R2,(SP)         ;SAVE ABS BYTE COUNT
                                                        CMP     R2,#-1          ;ONLY NEGATIVE?
                                                        BGE     1$              ;  NO, POSITIVE
                                                        ;
                                                        MOV     (R3),R3         ;SAVE PROC'S B IN MSG
                                                        MOV     R3,R0           ;ISSUE PROC B
                                                        JSR     R5,QCLIN
                                                        PWMSG-.
                                                        5
                                                        MOV     R5,R0           ;ISSUE MSG SPECIFIED
                                                        1000
                                                        1000
                                                        MOV     R5,R0           ;ISSUE A  OR  B  F
                                                        QCLIN-.
                                                        2
                                                        BMI     EX              ;
                                                        MOV     (R3),R0         ;
                                                        MOV     R0,R3           ;GET PROC'S ABS ADDR
                                                        MOV     (R3),R3         ;
                                                        MOV     R3,R0           ;
                                                        MOV     R5,R0           ;ISSUE THE MSG
                                                        1000
                                                        1000
                                                EX:     RTS     R5              ;EXIT ROUTINE

                                                ;TEST READ INTERRUPT VECTOR S.B
                                                TVEC:   MOV     INVEC,R0        ;GET CURR INT VECT ADDR
                                                        MOV     PRVEC,0(R0)     ;SAVE PREV ADDR IN INVEC
                                                        MOV     R5,@$TVEC       ;SET INT VECT TO THIS
                                                        1000                    ;
                                                        ;
                                                        ;
                                                        ;
                                                        RTS     R5              ;RESTORE BOTH VECTORS & B
                                                        ;
                                                        ;
                                                        ;
                                                        RTS     R5              ;EXIT ROUTINE

                                                ;TEST WRITE INTERRUPT VECTOR S.B
                                                TWVEC:  MOV     INVEC,R0        ;GET CURR INT VECT ADDR
                                                        MOV     R5,@$TWVEC      ;SET INT VECT TO THIS
                                                        1000                    ;
                                                        ;
                                                        ;
                                                        ;
                                                        
```



```
                                .SBTTL  FORMATS FOR PROGRAM & DEVICE ROUTINE TABLES
                        ;       PROGRAM TABLE FORMAT
000242                  PTLGTH= :62.    ;PROGRAM TABLE LENGTH - NON NEW FORMAT VERSION OF RPG
                        ;;PTLGTH= 212.  ;PROGRAM TABLE LENGTH - NEW FORMAT VERSION OF RPG
000000                  PF.ADR= +0.     ;PROGRAM FLAG WORD - ; WORD

000002                          USEDP= 2        ; ; = USER HAS STORED THIS PROGRAM
000004                          DUP= 4          ; ; = AN EARLIER HAS STORED THIS PROGRAM
000010                          [illegible]     ; ; = [illegible] PROCESSING
000020                          [illegible]     ; ; = [illegible] IN PROGRESS
000040                          SETDEV= 40      ; ; = THIS PROG SET THE NEW DEV DESIGNATED FLAG
000100                          DOPRES= 100     ; ; = DEVICE IS PRESENT
000200                          USEBPM= 200     ; ; = THIS PROG USES THE BUILD TOP NEW FORMAT TBL
100000                          ACTIVE= 100000  ; ; = PROGRAM IS ACTIVE  SPECIFIED FOR EXECUTION

000002                  PSPSW=  +2.     ;PROGRAM'S OPERATION SWITCHES - ; WORD

100000                          STOPER= 100000  ; 1 = STOP PROG EXECUTION UPON ERROR
040000                          CYCPRG= 40000   ; 1 = CYCLE PROGRAM ON CURRENT DEVICE
020000                          NOPRNT= 20000   ; 1 = DO NOT PRINT ON ERROR
010000                          BIT12= 10000    ; 0 = NOT USED
004000                          BIT11= 4000     ; 0 = NOT USED
002000                          CYCDVL= 2000    ; 1 = CYCLE THE DEVICE LIST
001000                          CYCNTD= 1000    ; 1 = CYCLE ON SAME DEVICE UPON ERROR
000400                          DOERCK= 400     ; 1 = DON'T DO ERROR CHECKING
000200                          SPCFUN= 200     ; 1 = DEVICE SPECIAL FUNCTION
000100                          BIT7= 100       ; 0 = NOT USED
000040                          DOIOV= 40       ; 1 = DO NOT PERFORM I/O OVERLAP
000020                          ALTDSP= 20      ; 1 = DO NOT AUTOMATICALLY [illegible]
000010                          AUTDSP= 10      ; 1 = AUTO DISPLAY COUNTS AT END OF [illegible] PASS IN
000004                          HOLDCD= 4       ; 1 = HOLD/DEC COUNTS ON [illegible]
000002                          PTRECV= 2       ; 1 = PRINT FIRST REC BYTE ON [illegible]
000001                          NOCOMP= 1       ; 1 = DO NOT PRINT PROG COMPLETE MSG

000004                  PFLADR= +4.     ;;PROGRAM FLAG WORD ADDRESS - ; WORD
000006                  PRGCTN= +6.     ;PROGRAM'S NUMBER IN ASCII - ; WORD
000010                  PNAME=  +8.     ;PROGRAM'S NAME IN ASCII - 6 BYTES
000016                  PRCIOA= +14.    ;ADDRESS OF READ I O AREA - . WORD
000020                  PWRIOA= +16.    ;ADDRESS OF WRITE I O AREA - ; WORD
000022                  PSRCST= +18.    ;SOURCE STATEMENT'S START ADDRESS - . WORD
000024                  POBJST= +20.    ;OBJECT CODE START ADDRESS - . WORD
000026                  PLNGTH= +22     ;PROG AREA LENGTH  ALL EXC WHICH PROG TABLE START  - . WORD
000030                  PTCOV= +24      ;I O TIMEOUT VALUE - . WORD
```

[illegible]

| | | | |
|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] |
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| [illegible] | [illegible] | [illegible] | [illegible] |

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                                ;FOLLOWING ENTRIES (PRIOR TO HOL PLUSUP) ARE ONLY IN NEW MONITOR (EPS:)
                        ;(PRIOR= .+160.  ;18/22 BIT ABSOLUTE ADDRESS OF READ I/O AREA - 2 WORDS
                        ;(PRIOV= .+164.  ;18 BIT VIRTUAL ADDRESS OF READ I/O AREA - 2 WORDS
                        ;(PWRIOR= .+168. ;18 22 BIT ABSOLUTE ADDRESS OF WRITE I/O AREA - 2 WORDS
                        ;(PWRIOV= .+172. ;18 BIT VIRTUAL ADDRESS OF WRITE I/O AREA - 2 WORDS
                        ;(PLSRBS= .+176. ;STORAGE AREA FOR USER'S RSB'S (HOL) - 8 WORDS
                        ;(PLSPBS= .+192. ;STORAGE AREA FOR USER'S RSB'S (HOL) - 8 WORDS
                        ;(PLSMAP= .+208. ;5 BYTE BLOCK MAP REG 0 AND 0 OF REGS USED - 1 WORD
                                ;END OF NEW MONITOR ONLY ENTRIES
002340                  BTSIZE= .+160.   ;PROGRAM TABLE SIZE IN BYTES - 1 WORD - NON NEW MONITOR
                        ;(BTSIZE= .+210  ;PROGRAM TABLE SIZE IN BYTES - 1 WORD - NEW MONITOR (EPS:)
002342                  BTEND=  .+162    ;END OF PROGRAM TABLE - NON NEW MONITOR (EPS:)
                        ;(BTEND=  .+212  ;END OF PROGRAM TABLE - NEW MONITOR (EPS:)
```

```
                                .       DEVICE ROUTINE TABLE

000016                          DRTLEN= 16.     ;DEVICE ROUTINE TABLE LENGTH
                                ;
000000                          DEVRSZ= +0.     ;DEVICE ROUTINE SIZE IN BYTES - ; WORD
000002                          DEVFLG= +2.     ;DEVICE ROUTINE FLAGWORD - ; WORD
000004                          DEVIN1= +4.     ;DEVICE INTERFACE WORD # 1 - ; WORD
000006                          DEVIN2= +6.     ;DEVICE INTERFACE WORD # 2 - ; WORD
000010                          DEVIN3= +8.     ;DEVICE INTERFACE WORD # 3 - ; WORD
000012                          DEVIN4= +10.    ;DEVICE INTERFACE WORD # 4 - ; WORD
000014                          DEVIN5= +12.    ;DEVICE INTERFACE WORD # 5 - ; WORD
000016                          DEVIN6= +14.    ;DEVICE INTERFACE WORD # 6 - ; WORD
000020                          DEVIN7= +16.    ;DEVICE INTERFACE WORD # 7 - ; WORD   SIZE
000022                          DEVIN8= +18.    ;DEVICE INTERFACE WORD # 8 - ; WORD   END
000024                          DEVRBA= +20.    ;DEVICE REGISTERS ADDRESS - ; WORD
000026                          DEVIVA= +22.    ;DEVICE INTERRUPT VECTOR ADDRESS - ; WORD
000030                          DEVRPS= +24     ;DEVICE READ PROCESSOR STATUS WORD  BLS REG  - . WORD
000032                          DEVWPS= +26.    ;DEVICE WRITE PROC STATUS WORD  BLS REG  - ; WORD
000034                          DEVPOC= +28     ;DEVICE POLL HOUSEKEEPING ROUT REL ENTRY ADR - . WORD
000036                          DEVPRC= +30.    ;DEVICE ROUT REPORT ROUT REL ENTRY ADR - . WORD
000040                          DEVLRC= +32     ;DEVICE ROUT LINE ROUTINE REL ENTRY ADR - . WORD
000042                          DEVTRC= +34     ;DEVICE ROUT ERROR COUNTER REL ADR - . WORD
000044                          DEVERC= +36     ;DEVICE ROUT TIMEOUT ERR ROUT REL ENTRY ADR - . WORD
000046                          DEVLOB= +38     ;DEVICE [illegible] BLSV BRANCH ADDRESS [illegible] - . WORD
000050                          DEVEOB= +40     ;DEVICE ERROR BRANCH ADDRESS [illegible] - . WORD
000052                          DEVSPT= +42     ;SEEK MODE PRIMARY BRANCH ADDRESS [illegible] - . WORD
000054                          DEVRPT= +44.    ;RPNC MODE PRIMARY BRANCH ADDRESS [illegible] - . WORD
000056                          DEVBTA= +46.    ;CONVERT BINARY TO ASCII BY ADR BINASC - . WORD
000060                          DEVDTA= +48     ;CONVERT BINARY TO DECIMAL ASCII BY ADR BINDEC - . WORD
```

```
000062          DVPDTA= +50.    ;CONVERT PACKED DECIMAL TO ASCII BY ADR  DECASC  - 1 WORD
000064          DVSFLD= +52.    ;RPG SYSTEM FLAGWORD ADDRESS  (SYSFW)  - 1 WORD
000066          DVSVEC= +54.    ;SET INTERRUPT VECTOR BY ADR  (SETVEC)  - 1 WORD
000070          DVCVEC= +56.    ;CLEAR INTERRUPT VECTOR BY ADR  (CLRVEC)  - 1 WORD
000072          DVTVEC= +58.    ;TEST INTERRUPT VECTOR BY ADR  (TSTVEC)  - 1 WORD
000074          DVRINT= +60.    ;RETURN FROM INTERRUPT BY ADR  (RTNINT)  - 1 WORD
000076          DVSETB= +62.    ;SET DATA BYTE BY ADR  (SETBY)  - 1 WORD
000100          DVPUTB= +64.    ;PUT DATA BYTE BY ADR  (PUTBY)  - 1 WORD
000102          DEVSTP= +66.    ;DEVICE ROUT REL SYMBOL TABLE POINTER - 1 WORD
000104          DEVETP= +68.    ;DEVICE ROUT REL ENTRY TABLE POINTER - 1 WORD
000106          DVPTEP= +70.    ;PROC TABLE EXTEN. REL POINTER - 1 WORD
000110          DVVTEP= +72.    ;VECTOR TABLE EXTEN. REL POINTER - 1 WORD
000112          DVCTEP= +74.    ;COMPILER TBL EXTEN. REL POINTER - 1 WORD
000114          DVIMSP= +76.    ;DEVICE INTERFACE WORD SYMBOL TBL REL POINTER - 1 WORD
000116          DRTEND= +78.    ;END OF DEVICE ROUTINE TABLE

000000:                 .END
```

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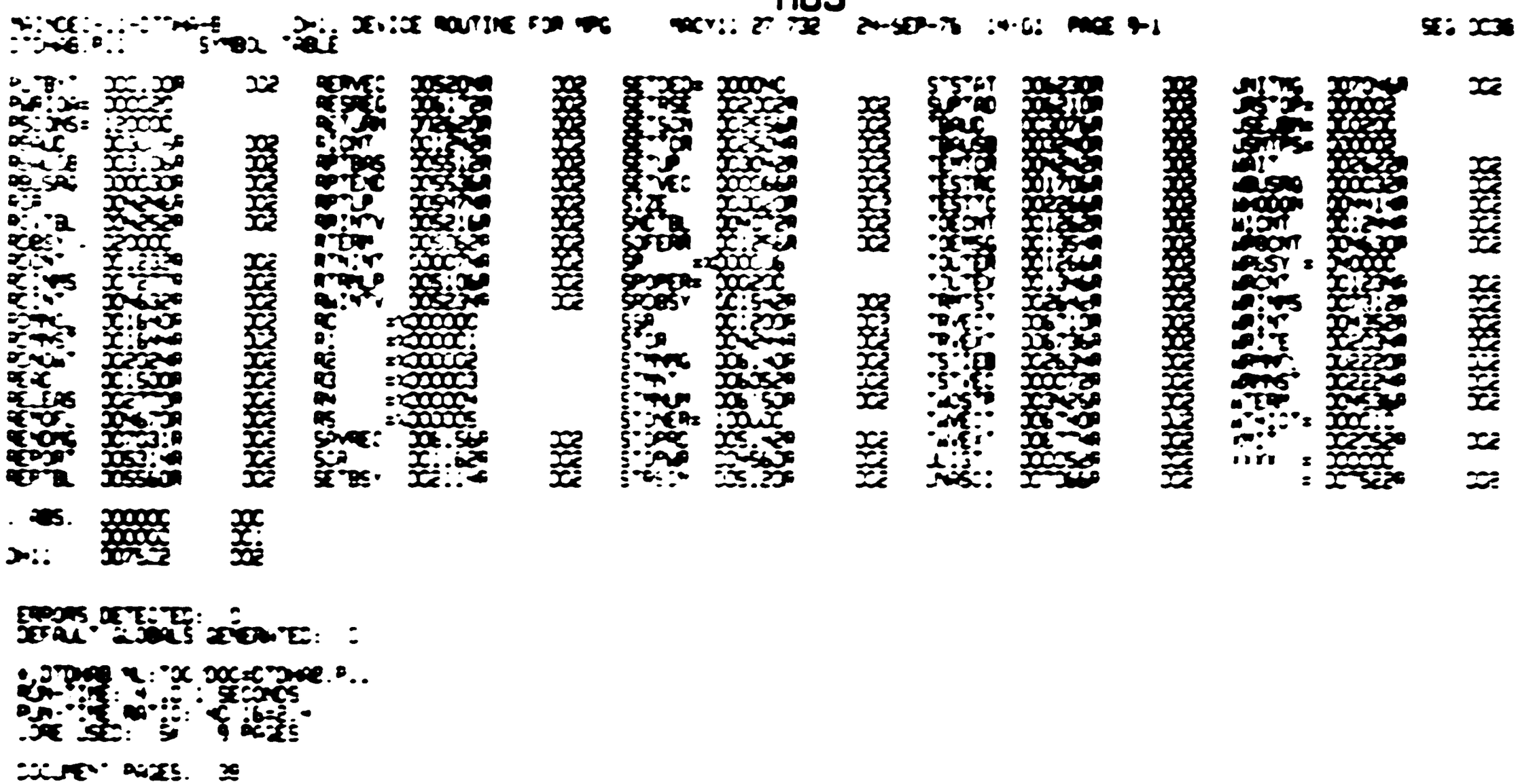

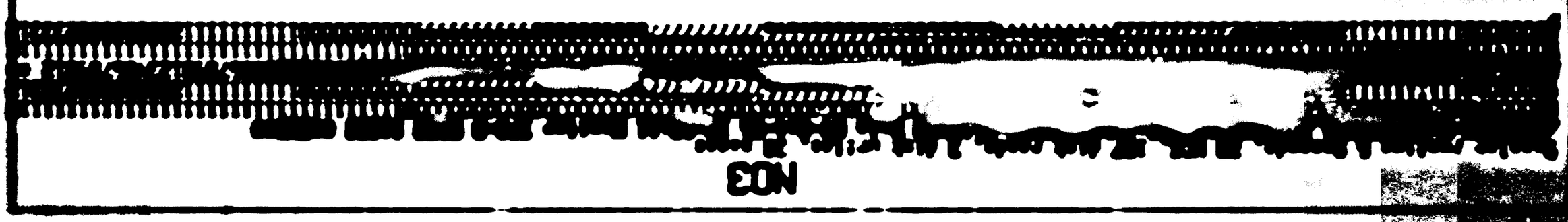
EON