```
PAGE 1
```

```
111
       REMOVED FROM IOTS, 52, E, EXEC15
                                         MIGHT BE USEFUL SOMEDAY FOR SUE
                            RGWD=720141 RGIO=720441
 LADRE721041
 STWD=720341
                            NACK#722041
 /DISPATCHER IOT FOR PDP=708
 DTEL.
           LAC I RSTAT
           DAP DISTAT
                            /16 BIT STAT PTR
           LAC I (DCH 70) /USER AC
           82F I 7
            JMP DTRLS
                            /IOT+0.RELEASE
           SZF 6
            JMP DTGET
                            /IOT+1.GET
           NACK
            NOP
                            /CLEAR POSSIBLE ERROR
           SZF 5
           JMP DTHANG
                            /IOT+2. HANG UNTIL WORD CHANGES
           DZM TV2
           DAP TV2
                            /AC POINTS TO 3 WORD BLOCK
           LAC I TVZ
           SPA
           JMP I ILGIOT
           SZA I
            JMP
               I R2
           DAP DTNUM
                            /NUMBER OF WORDS (1-40)
           SUB (40)
           SZM
           JMP I ILGIOT
           IDX TV2
           LIO I TV2
                            /PROCESSOR, 7=CORE
            IDX TV2
           LAW 7777
                            JUSER CORE AREA
           SVT I GNA
           DAC TV2
           SUB (40)
           SPA
           JMP I ILGIOT
           SZF 4
                            /IOT+4, PUT DATA IN 7=CORE
           JMP DTSTOR
           LSM
                            /MUST BE GET DATA FROM 7=CORE
           LADR
             JMP DTR1
           ROWD
                            /REQUEST 1ST WORD
             JMP DTR1
            LAW I 1
            ADD DTNUM
           DAP DTNUM
            SAD (LAW I)
                            /ONLY 1 WORD WANTED
            JMP DTONE
DTNUM,
            LAW I .
           DAC TV3
                            /LOOP TO GET WORDS
           RQIO"U"RQWD
             JMP DTR1
            DIO I TV2
            IDX TV2
            ISP TV3
            JMP .=5
```

ŏ

PRINTED IN U.S.A

```
PAGE 2
 DIONE,
            RQIO
             JMP DTR1
            ESM
            DIO I TV2
            JMP I R2
            JSP DTOWN
                             /MUST BE OWNED
DTSTOR.
            LSM
            LADR
             JMP DTR1
            XCT DTNUM
            DAC TV3
                            /LOOP TO SEND TO 7#CORE
            LIO I TV2
            STWD
             JMP DTR1
            IDX TV2
            ISP TV3
            JMP
                . = 5
            NOP
            NACK
            JMP DTR1
            ESM
            JMP I R2
            ESM
 DTR1,
            JMP I R1
 DTHANG,
            LIO I (DCH 72)
                             /MUST BE OWNED
            JSP DTOWN
            IDX I (DCH 71)
            DAC TV2
            LSM
            LADR
             JMP DTR1
            ROWD
             JMP DTR1
            LAW 20
            DIP I DISTAT
            CLA
            DAP I (15)
            RQIO
             JMP DTR1
            XAI
            SZA
                             /WORD DIFFERENT, RETURN NOW
            JMP DTR1
            LAW 10
            SUMOTO DOA
            DAP
                 . + 1
                             /SAVE CONTENTS
            DIO
            SUB (4)
            DAP
                 . + 3
                I (DCH 72)
            LAC
            AND
                (377777)
```

/FALL INTO "DELAY" IOT IN CORE 14

DAC

I DELAY

Ö

```
PAGE 3
 DIGET,
             RAL 35
                             /GET OWNERSHIP OF A PROCESSOR
             AND (3)
             ADD (DCH I OWN)
             DAC TV2
             LAC I TV2
             SAD DISTAT
             JMP I R2
             SZA
             JMP I R1
             LAC DISTAT
             DAC
                 I TV2
             JMP I R2
                              /RELEASE OWNERSHIP
  DTRLS,
             SPA
             CLAPUPSTF 1
                              /AC NEG, RELEASE ALL PROCESSORS OWNED
             RAL 38
             AND (3)
             ADD (DCH I OWN)
             DAC
                 TVZ
  DTRLS2.
             LAC I TV2
             SAD DISTAT
             DZM I TV2
             SZF
             JMP I R1
             IDX TV2
             SAS
                 (DCH I OWN+4)
             JMP DTRL82
             JMP I R1
  DTOWN,
             DAP
                 DTOWX
             LAI
             RAL
                 38
             AND (3)
             ADD (OWN)
             DAP
                  . + 1
  DTOWN2.
             LAC
             SAS
                 DISTAT
             JMP
                 I ILGIOT
  DTQWX.
             JMP
  DISTAT.
             DCH
  TV2.
             0
             0
TV3,
                              /16 BIT STAT PTR
  OWN,
             Ø
                              /PROC+ADR IF WAITING
             # Ø
             #0
             * Ø
             -0
                              /CONTENTS IF WAITING
             Ø
             Ø
```

Ö

PRINTED IN U.S.A

```
PAGE 4
/INTERRUPT FROM A PDP=7
           IDX TELNUM
TELINT,
           LAW OWN
           DAP TELZ
TELZ.
           LIO
           SNI
           JMP
                            INOT OWNED
               TEL3
           ADD
                (4)
           DAP
                . + 1
           LIO
           SPI
           JMP TEL4
                            /OWNED AND WAITING, GO UNHANG IF CHANGED
TEL3,
           IDX TEL2
           SAS (LIO OWN+4)
           JMP TELZ
           NACK
                            /DON'T LEAVE TIMING ERROR AROUND
            NOP
           JMP I TELEXIT
           DAP TEL7
TEL4,
           NACK
            NOP
           LADR
            JMP TELS
           ROWD
            JMP TELS
           ADD (4)
           DAP TEL6
           NOP
           RQIO
            JMP TELS
           LAI
TEL6,
           SAD
                            /HAS IT CHANGED ?
           JMP TELS
                            INOPE
TELS,
           XCT TEL2
           LAI
           LSM
           SAD
               I BOSTAT
           LAC
               FSTAT
           DAC
               TV1
           LAW
               1 7777
           AND
               I TV1
           LIA
           AND
               (LAC)
                                          IO(NONZERO IF TYIHNG ETC.)
                            /AC(STATUS)
           SWP
           SAD
               (CLKHNG)
           JMP
               s + 3
           SNI
           JMP
               TELB
                            /TO QUE 3 IF CLKHNG OR RUNNABLE OR USING IOP
           LAW
               3
               I TV1
           DAP
           SNI
                            /CHANGE CLKHNG TO RUNNABLE
           DIP
               I TV1
           DZM I HOTFLG
TELS,
           ESM
           CLC
TELT,
           DAC
           JMP TELS
```

/COUNT INTERRUPTS

TV1,

TELNUM.

Ø

0

8510

HO