<table>
<thead>
<tr>
<th>DECUS NO.</th>
<th>8-362</th>
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<tr>
<td>TITLE</td>
<td>IOFMAG</td>
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<td>DATE</td>
<td>December 1, 1970</td>
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<td>SOURCE LANGUAGE</td>
<td>PAL III</td>
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Although this program has been tested by the contributor, no warranty, express or implied, is made by the contributor, Digital Equipment Computer Users Society or Digital Equipment Corporation as to the accuracy or functioning of the program or related program material, and no responsibility is assumed by these parties in connection therewith.
Four subroutines are provided which access DECtapes on TC-01 drives. In contrast to the routines provided by DEC, these routines do not use the interrupt. If the user does not require the use of the interrupt while doing DECtape I/O, the use of these routines has several advantages:

2) The user need not establish page Ø linkages to service the interrupt.
3) Other devices (such as the teletype) will not interrupt the DECtape I/O. When, for instance, transferring from paper tape to DECtape, one need not buffer those characters which would have been read during DECtape output.

The subroutine linkages are as follows:

**JMS DTREA/read, ac must = Ø**

xxxxx /1st transfer location

u000 /u = unit #

-n /n = # of blocks to be transferred

b /b = 1st block to be transferred

xxxx /instruction executed when read completed

---

**JMS DTWRI/write, ac must = Ø**

xxxxx /1st transfer location

u000 /u = unit #

-n /n = # of blocks to be transferred

b /b = 1st block to be transferred

xxxx /instruction executed when write completed

---

**JMS DTSAS/search and stop, ac must = block # wanted**

u000 /u = unit #

xxxx /instruction executed when search and stop completed

---

**JMS DTSNS/search and don't stop, ac must = Ø**

DTBLOC must be put = block # wanted

DTUNIT must be put = u000

note: the other subs will set DTBLOC & DTUNIT.

If a tape error occurs, the sub will go to the address specified in LDTERR which is initially 7600.

The block length is specified in DT7600, which is initially 7600 (-200).

The DTSNS routine differs from DTSAS only in a) linkages and b) the tape is in motion when the subroutine is completed.