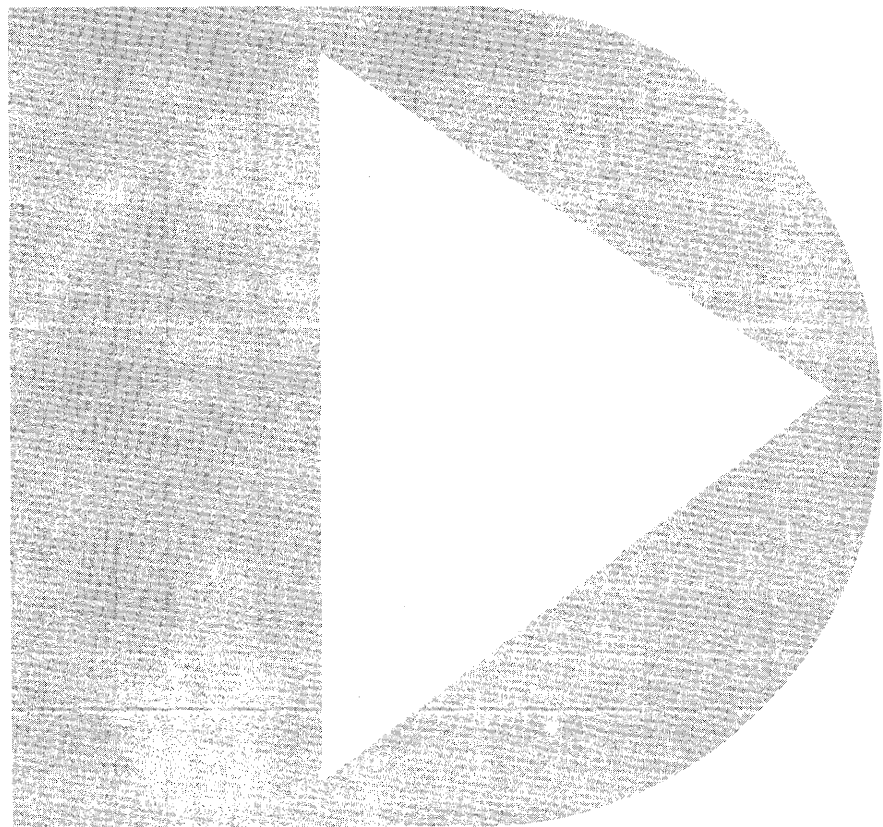# Program Users Guide

Datapoint

TDRIVE User's Guide

Datapoint Corporation

August, 1973

EXTERNAL DATA REFERENCES:

INTERNAL DATA REFERENCES: LEN, RETRY, ERRMSG

INTERNAL LABELS USED: TSRD$, TSRD1, TSWRT$, TSWRT1, TSWRT2,
                        TRDAT$, TRD$ TRD, TRD1, TRD2, RDPAR,
                        RDENT, RDEOF, TCRD, TCRD1, DECBC,
                        TWD$, TWD, TERASE, TWRT$, TWRT, TWRT1,
                        TWFM$, TCWRT, TDMP$, TDMP, TBKSF$,
                        TBKSF, TBSF1, TBKSB$, TBKSB, TADVB$,
                        TADVB, TADVF$, TADVF, TRWND$, TRWND,
                        TRWND1, TADR$, TRDY$, TRDY, TPKT,
                        ABORT

CALLING PARAMETERS

1. General parameter passing packet format is:

        PACKET DA Length
               DA buffer

To call a routine set the D & E register to the address of
the parameter packet:

        DE PACKET
        CALL routine-name

2. Read Routines:

Numeric Read (TRD$) initiates a read and fills the specified
memory buffer to the actual or specified length - whichever
is shorter. Error conditions are as follows:

        True Sign   Bad Parity (the routine retrys 3 times)
        True Carry   End of File
        False Zero   End of Tape Encountered

String Read (TSRD$) expects the same parameters and reads as
in the TRD$ routine. The only difference is that an 015 is
placed after the last data character.

Continuation Read (TRDAT$) does not initiate a read, but
continues transferring data from the hardware buffer to the
memory buffer. False zero return indicates not in read
mode.

3. Write Routines: (Note: the system aborts the job if a
write routine is called and there is no write ring.)

Write/Dump (TWD$) calls TWRT and TDMP. Attempts rewrite
three times on parity error.

String Write (TSWRT$) computes length to first 015 and jump

to TWD$.

Write Only (TWRT$) will transfer the specified number of characters from memory to the hardware buffer. The only error condition is true carry, indicating full buffer.

Dump Only (TDMP$) dumps the hardware buffer to tape. Error conditions are true sign-parity error and true carry - end of tape encountered.

4. Tape Movement Functions:

TRWND$	Rewind
TADVB$	Advance Block
TADVF$	Advance File
TBKSB$	Backspace Block
TBKSF$	Backspace File
TWFM$	Write File Mark
TERASE	Erase 3 inches of tape

AVAILABLE ON CASSETTE: Yes, Source is included with MTOS system tape.