RSX-11M/S - RSX-11M-PLUS Software Dispatch, September 1980

RSX-11M V3.2
DRIVERS
FDX-TTDRV

Seq 3.1.3.9 N

1 of 2

FULL DUPLEX TERMINAL DRIVER QUESTIONS ANSWERED (SPR 11-80029Z DD)

The following is a compilation of answers to often asked questions about the Full Duplex Terminal Driver. These procedures are provided for information only and are unsupported.

Q1:   How do I select the size of the driver's partition, called TTPAR in RSX-11M systems, or TTCOM for RSX-11M-PLUS systems?

A1:   By default, SYSGEN sets the size of TTPAR (TTCOM) to 8K words, but it can usually be made smaller. TTPAR contains code plus a private buffer pool, which is allocated in 20 word chunks for typeahead buffers, UCB extensions, and I/O buffers. Since the amount of I/O buffers required depends on both system activity and the length of the I/O requests, an exact sizing guideline cannot be given. A rough algorithm for determining the size of TTPAR is:

$$P = C + (20 * T) + (60 * A)$$

Where: P is the size of TTPAR in decimal words
        C is the code size of the driver (from the line "TASK IMAGE SIZE" in [1,34]TTDRV.MAP)
        T is the number of terminals in the system
        A is the average number of I/O requests pending at any time

The above formula can be used to determine the size of TTCOM for RSX-11M-PLUS systems by setting C = 0 (since the code is strictly Instruction space and TTCOM is strictly Data space).

The value obtained for P is in decimal words; convert to octal bytes/100(8) for the TTPAR SET /MAIN command. For M-PLUS systems, convert P to octal words and use the result as the argument for the /SIZE switch of the VMR LOAd command.

If space is exhausted in TTPAR (TTCOM), the terminal driver will attempt to use primary pool, so if you're short on system pool, pad TTPAR (TTCOM) for comfort.

NOTE: The following answers involve changing code within the driver. It is recommended that a correction file be created to apply the changes stated, although it is possible to make the changes with ZAP or OPEn. The line numbers cited refer to version 1 of the appropriate module. All the modules reside in [11,10].