

NAME

386 – Using `spec` on the AT&T System V/386 operating system

DESCRIPTION

When using the `pcfilt` high-resolution graphics filter, you should have the environment variable `GTERM` set to `cga`, `ega`, `vga`, `herc` or `x11`, as appropriate for your graphics hardware. Alternatively, you can assign a value to `GTERM` to set the graphics type after `spec` has started running.

You can have the high resolution graphics appear on a different virtual terminal than the one you are using for the text screen. For example, by setting the `GTERM` environment variable to `vga_vt07`, `spec`'s high resolution graphics will be placed on virtual terminal `/dev/vt07`. The virtual terminal must not be in use by another process. The advantage to using a different virtual terminal for graphics is that you can switch between the high resolution plot and the text display while a scan is running. The disadvantage is that you must switch to the text display to enter commands. You must set `GTERM` to include the virtual terminal in your environment before you start `spec` for this feature to work.

For `spec` to operate properly when using the DSP 6001/2 CAMAC Crate Controller in interrupt mode on operating systems derived from AT&T System V/386 UNIX, the crate controller must be modified to give it programmable interrupt-enable capability. Detailed instructions on making this modification are included in the `spec` manual. Starting with `spec` release 3.00.07, this CAMAC controller can also be used in a driverless, polled mode, in which case no modifications are necessary.

Starting with `spec` release 2.15, the special `nap` driver must be installed to make clock tick (fractional second) sleeps available.

When using devices that directly access I/O ports (such as the Scientific Solutions GPIB or the Labmaster counter boards), the ports must be specially enabled for I/O. (See `KDENABIO` in the `display(7)` section of the *System V/386 System Administrator's Reference Manual*.) It is only necessary for the ports to be enabled once after rebooting the computer. A program called `io_enable` performs this function and is supplied with `spec`. The program will be automatically run with the proper arguments when you start `spec`.