

Re: Serial driver changes from v5 to v7

Source: <http://unix.derkeiler.com/Newsgroups/comp.unix.bsd.freebsd.misc/2007-05/msg00141.html>

- *From:* per@xxxxxxxxxxxxx (Per Hedeland)
 - *Date:* Tue, 15 May 2007 22:05:57 +0000 (UTC)
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In article <4Tb2i.6021\$RX.5567@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx> bob prohaska's usenet account <bp@xxxxxxxxxxxxx> writes:

Per Hedeland <per@xxxxxxxxxxxxx> wrote:

For future dejagooglers, on comparing the defaults between 5.3 and 6.0, I found that the difference was that these were set in 6.0 but not in 5.3 (or ever before):

```
lflags: icanon isig iexten
iflags: icrnl ixon ixany imaxbel brkint
oflags: opost onlcr
```

For the sake of my own edification, `_where_` is this default set? If it's the source, I'll plead that I'm not a programmer. If it's in a config file, I'm guilty to something 8-)

The defaults are set in the kernel code. You can however see them, and even modify them, via the "init" device – i.e. in 5.x:

```
stty -a -f /dev/ttyid0
```

in 6.x and later:

```
stty -a -f /dev/ttyd0.init
```

So, an alternative solution to your problem could have been to modify the settings on the "init" device – but I think this is an inferior solution since you'll need to have that done on each boot, and it's easy to forget the relation between that and your use of the port for printing. Better to have a "robust" printcap entry.

And of course the fact that you *can* modify the "effective defaults" this way means that it is even more senseless to change the "default defaults" inside the kernel.

Re: Serial driver changes from v5 to v7

Per above, icanon is set by default in 6.0 and later. The fact that your initial attempt to unset it failed can probably be blamed on the pretty arcane and picky syntax for *cap entries – you can see that in your old entry, continuations are only done after ':', which is probably safest. When you put a continuation immediately after 'ms=', the unfolded line becomes something like 'ms= -icanon,...', which may confuse the parser.

For some (possibly imaginary) reason I believed the : character denoted a countable boundary which should be preserved. My mistake.

I'm not sure what you mean