

Re: Serial speed for boot device selection prompt

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2007-10/msg00224.html>

- *From:* Larry Baird <lab@xxxxxxx>
 - *Date:* 25 Oct 2007 18:35:53 -0000
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In article <107924.235636.88011@localhost> you wrote:

On Wed, Oct 24, 2007 at 10:50:21AM -0700, Sean Bruno wrote:

I have a drive that contains two separate bootable partitions(ad0s1a and ad0s2a). The boot device selection menu(boot0?) appears to only be able to support 9600 8N1. I wanted to run the serial console at 115200, but I currently have to switch to 9600 if I need to change the boot device. Is there a way around this that I can't see? Could I get around this with a BIOS that can do console redirection?

Which "boot device selection menu" are you referring to? "boot0?" implies you don't know. Here's the difference:

boot0 is this stage:

F1 FreeBSD
F5 Drive 1
Default: F1

boot2 is this stage:

FreeBSD/i386 BOOT

Default: 0:ad(0,a)/boot/loader
boot:

If you want serial capability in boot0, you should set `BOOT_COMCONSOLE_SPEED=115200` in your `make.conf`. After you do that, you'll need to rebuild the boot blocks. The procedure for doing that is step 4 of Section 24.6.5.2 in the Handbook:

http://www.freebsd.org/doc/en_US.ISO8859-1/books/handbook/serialconsole-setup.html

The BIOS call that boot.S is using (int 0x14) only supports a maximum speed of 9600. To get speeds greater than 9600, it needs to do the

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I/O itself. There used to be a version floating around that did this.
I have a extremely modified version that uses this method. If you can't
find a version that does this, let mw know and I'll see if I can cleanup
what I have.

Larry

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