

Re: newbus ioport usage

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2004-01/0113.html>

From: Nate Lawson (nate_at_root.org)

Date: 01/27/04

Date: Mon, 26 Jan 2004 17:03:58 -0800 (PST)

To: "M. Warner Losh" <imp@bsdimp.com>

On Mon, 26 Jan 2004, M. Warner Losh wrote:

> *In message: <20040126140100.T29680@root.org>*
> *Nate Lawson <nate@root.org> writes:*
> *: I have a driver that knows the IO port it wants. It's not set up by a*
> *: parent bus, so I can't use bus_set_resource(). This call returns NULL.*
> *: Any idea how to debug why newbus is rejecting this request? The io port*
> *: is not in use and the rid is unique.*
> *:*
> *: bus_alloc_resource(dev, SYS_RES_IOPORT, rid, 0x101c, 0x101c, 1,*
> *: RF_ACTIVE);*
> *:*
> *Ummm, you can use bus_set_resource() in the driver to do this (I've*
> *done it before). bus_set_resource() should return 0 to indicate*
> *success. bus_alloc_resource should then succeed. There may be one*
> *other step to do as well to make this work, but I'm not sure if it is*
> *an internal convention or actually required. The pci bus code does a*
> *resource_list_add for each of the resources the child uses, but I*
> *think that's an internal thing to the pci bus (that other busses do*
> *also).*

Ok, I'm doing the set/alloc and it works. However, one weird thing. If I allocate all ports at boot time, it succeeds. My driver goes through multiple release/allocate cycles and it all works as expected. However if I boot and attach to only one of the registers, subsequent attempts to attach the second one fail. The resources are 2 IO ports, 0x101c and 0x101d. Both are 1 byte.

-Nate

freebsd-arch@freebsd.org mailing list

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