

## Re: newbus ioport usage

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/arch/2004-01/0135.html>

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**From:** Nate Lawson ([nate\\_at\\_root.org](mailto:nate_at_root.org))

**Date:** 01/27/04

Date: Tue, 27 Jan 2004 14:23:15 -0800 (PST)

To: "M. Warner Losh" <[imp@bsdimp.com](mailto:imp@bsdimp.com)>

On Tue, 27 Jan 2004, M. Warner Losh wrote:

> In message: <[20040127133251.W75080@root.org](mailto:20040127133251.W75080@root.org)>

> Nate Lawson <[nate@root.org](mailto:nate@root.org)> writes:

> : > *There's nothing magical about the acpi\_sysresource device, and it can*

> : > *be relegated to the scrap-heap of history if needed.*

> :

> : *Well, the way we find out about the resources is through a pseudo-device*

> : *with a PNPID. So it makes sense to use the normal device discovery method*

> : *to find these resources. This leads me to do the allocation for the*

> : *parent by the acpi\_sysresource0 attach method.*

>

> *This gets ugly. The reason that I suggested not doing the discovery*

> *this way is because you want to allocate \*ALL\* resources up front*

> *before giving any to any children. pci has issues with this right now*

> *that I'm working to fix.*

I'm pretty sure there is no other way to know what resources acpi devices will be using without evaluating the resource pseudo-device. The other way (which we currently do) is assume everything is available and let each driver grab whatever is free and then attach the resource pseudo-device last to claim all remaining acpi resources. Unless you have a better idea, the short-term approach will not change any of the above. It will just add the ability for acpi devices to later reclaim resources from acpi0 (by having acpi\_sysresource0 attach remaining resources to its parent).

Allocating all resources up front would require multiple passes of the namespace and I'm not ready to make that drastic of a change without some more design work about how this fits in with the rest of FreeBSD (in particular, PCI).

-Nate

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