

bus_alloc_resource question

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To: hackers@freebsd.org

I'm having some trouble adding a bus resource and am hoping someone can point out where I goofed.

The host bus to a new x86 chipset has a memory mapped region in PCI space that provides access to status and control registers. For a driver to get access to this region, I figured it should call `bus_alloc_resource()` the same as for any other memory mapped region. This currently doesn't "just work" as the region is not a part of any device's BARs. To add this region as a resource, I used `bus_set_resource()`

```
device_t dev;
uint32_t e_mem = 0xe0000000;
struct resource *ecfg_res;

dev = pci_find_device(PCI_VENDOR_INTEL, ...);
bus_set_resource(dev, SYS_RES_MEMORY, e_mem, 0xe0000000, 0x10000000);
```

but a subsequent call to `bus_alloc_resource()` returns NULL

```
ecfg_res = bus_alloc_resource(dev, SYS_RES_MEMORY, &e_mem,
    0, ~0, 1, RF_ACTIVE | RF_SHAREABLE);
```

A call to `bus_get_resource()` shows that the resource did get set as the call returns the correct starting address and count. Is there something else that needs to happen between the set and the alloc? Is this even the correct approach? Thanks in advance!

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