

Linux-Kernel: [PATCH] fix improper use of pci_module_init() in drivers/char/agp/amd64-agp.c

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From: Greg KH (greg_at_kroah.com)

Date: 09/30/04

Date: Thu, 30 Sep 2004 11:42:48 -0700

To: davej@codemonkey.org.uk, ak@suse.de

Hi,

In going through the tree and auditing the usage of pci_module_init(), I noticed that the amd64-agp driver was assuming that the return value of this function could be greater than 0 (which is what could happen in 2.2 and 2.4 kernels.) As this is no longer true, I think the following patch is correct.

I can add this to my bk-pci tree if you wish, otherwise feel free to send it upwards.

thanks,

greg k-h

AGP: Fix up pci_module_init() usage in amd64-agp.c

pci_module_init() can not return a positive number in the 2.6 kernel, so this code path was never getting run, so might as well just delete it.

Signed-off-by: Greg Kroah-Hartman <greg@kroah.com>

--- a/drivers/char/agp/amd64-agp.c 2004-08-24 07:55:13 -07:00

+++ b/drivers/char/agp/amd64-agp.c 2004-09-30 11:37:35 -07:00

@@ -624,39 +624,9 @@

/* Not static due to IOMMU code calling it early. */

int __init agp_amd64_init(void)

{

- int err = 0;

 if (agp_off)

 return -EINVAL;

- if (pci_module_init(&agp_amd64_pci_driver) > 0) {

- struct pci_dev *dev;

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```
- if (!agp_try_unsupported && !agp_try_unsupported_boot) {
- printk(KERN_INFO PFX "No supported AGP bridge found.\n");
-#ifdef MODULE
- printk(KERN_INFO PFX "You can try agp_try_unsupported=1\n");
-#else
- printk(KERN_INFO PFX "You can boot with agp=try_unsupported\n");
-#endif
- return -ENODEV;
- }
-
- /* First check that we have at least one AMD64 NB */
- if (!pci_find_device(PCI_VENDOR_ID_AMD, 0x1103, NULL))
- return -ENODEV;
-
- /* Look for any AGP bridge */
- dev = NULL;
- err = -ENODEV;
- while ((dev = pci_find_device(PCI_ANY_ID, PCI_ANY_ID, dev))) {
- if (!pci_find_capability(dev, PCI_CAP_ID_AGP))
- continue;
- /* Only one bridge supported right now */
- if (agp_amd64_probe(dev, NULL) == 0) {
- err = 0;
- break;
- }
- }
- return err;
+ return pci_register_driver(&agp_amd64_pci_driver);
}
```

```
static void __exit agp_amd64_cleanup(void)
-
```

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