

Re: [PATCH 09/12] i386/x86\_64: EHCI usb debug port early printk support.

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- *From:* Andi Kleen <ak@xxxxxxx>
  - *Date:* Mon, 30 Apr 2007 19:56:08 +0200
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Thanks for writing that code. It should be an interesting alternative on boxes where firescope doesn't work.

I hope I can eventually merge early firewire support code too.

On Mon, Apr 30, 2007 at 10:32:02AM -0600, Eric W. Biederman wrote:

With legacy free systems serial ports have stopped being an option to get early boot traces and other debug information out of a machine.

This needs a CONFIG\_\* at least. And some documentation on how to set it up on both sides.

This debug device can be used to replace serial ports for kgdb, kdb, and console support. And gregkh has a simple usb serial driver for it so user space applications that control serial ports should work unmodified.

But not merged yet, right? I was hoping it could be done from user space anyways.

For users the hard part looks like it will be finding cables and finding which is usb debug port 1 and realizing that there is flow control so the kernel boot will not happen if someone is not reading the serial console data.

That's nasty. Any way to work around that?

index 92213d2..dc097aa 100644  
--- a/arch/x86\_64/kernel/early\_printk.c

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```
+++ b/arch/x86_64/kernel/early_printk.c
@@ -3,9 +3,19 @@
#include <linux/init.h>
#include <linux/string.h>
#include <linux/screen_info.h>
+#include <linux/usb/ch9.h>
+#include <linux/pci_regs.h>
+#include <linux/pci_ids.h>
+#include <linux/errno.h>
```

Can you put it in a separate file please?  
Perhaps with a little abstraction in drivers/usb ?

```
+static void dbgp_breath(void)
+{
+ /* Sleep to give the debug port a chance to breathe */
```

But you don't?

```
+static __u32 __init find_dbgp(int ehci_num, unsigned *rbus, unsigned *rslot, unsigned
*rfunc)
```

This should be probably merged into the early quirks loop

```
early_console = &simnow_console;
keep_early = 1;
+ } else if (!strcmp(buf, "dbgp", 4)) {
```

usb would seem to be more intuitive

-Andi

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