

## Re: USB 2.0 problems digging me in deeper

**Source:**

[http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.help\\_and\\_support/2004-02/2266.html](http://www.tech-archive.net/Archive/WinXP/microsoft.public.windowsxp.help_and_support/2004-02/2266.html)

---

**From:** Stan Mitchell (*stanm\_at\_sourcequest.com*)

**Date:** 02/11/04

Date: Wed, 11 Feb 2004 09:20:30 -0800

Hi Brad,

I'm not affiliated with Microsoft but maybe I can help you.

First, it sounds like your drivers are installed correctly, since you see an EHCI entry in device manager.

Each USB host controller has one root hub and multiple ports.

>From your description, your motherboard has 4 host controllers: 1 is EHCI (high speed) and 3 are UHCI(full/low speed).

Each host controller has a root hub and the EHCI has a "USB 2.0 Root Hub" while the UHCI controllers each have just a "Root Hub".

The EHCI controller has 6 ports while each of the UHCI controllers has 2 ports.

To the outside world the EHCI and 3 UHCI controllers are a single package with 6 ports. If you plug in a high speed device into any of these ports the EHCI controller will handle the device. If you plug in a low or full speed device a UHCI controller will handle the device. Because of this automatic switching behavior, you can use each of the 6 ports for any speed device.

Hope that helps,  
-Stan Mitchell

"Brad" <anonymous@discussions.microsoft.com> wrote in message news:33A47117-79B0-48A2-8502-512A7A21DCAF@microsoft.com...

> *Well I seem to be talking just to myself, but then computer support has always been an illusion anyway!*

>

> *I now have one port that works in hi speed mode. The others just function at 1.1 speed. The motherboard manual clearly states that all 6 are 2.0.*

The chip set is the Intel 82801 DB ICH4.

>

> *In device manager, you see "Intel(r) 82801DB/DBM USB 2.0 Enhanced Host Controller – 24CD" for the first entry.*

> *Then 3 lines of "Intel(r) 82801DB/DBM USB Universal Host Controller – 24C2" (at ends: 24C2, 24C4, 24C7)*

> *Then next line "USB 2.0 Root Hub".*

> *Then 3 lines of "USB Root Hub".*

>

> *I have spent hours reading other USB problem entries. None seem to provide anything conclusive. Do I have the right drivers installed? ASUS says that the XP drivers should be used. And one port does work. So what the heck is going on???*