

Re: USB drivers

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/current/2004-08/0570.html>

From: Chris (chris_at_tellme3times.com)

Date: 08/08/04

Date: Sun, 08 Aug 2004 00:08:22 -0400

To: Darren Pilgrim <dmp@bitfreak.org>

Darren Pilgrim wrote:

>>From: M. Warner Losh

>>

>>In message: <41124C8B.2060902@tellme3times.com>

>> Chris <chris@tellme3times.com> writes:

>>:

>>: What I am trying to determine is why my multifunction

>>

>>

>printer/scanner

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>

>>: receives only one of the two drivers. Is it because the printer

>>

>>

>does

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>>: not respond properly? Is it because the printer is not defined? I

>>: have many questions here.

>>

>>Yes. Usb is a little complicated in this area, and there are a number

>>of details that are hard to get right. It wouldn't surprise me if the

>>current set of drivers are less than completely optimal.

>>

>>

>

>On a bit of a side-track, I'm wondering if it could be due to how the

>multifunction device presents itself? A bit back in this thread someone

>mentioned that a pointer must be present for a driver to attach to a

>device. If there is only one pointer for a device, only one driver may

>attach. Since a single USB bus can have a LOT of devices and each

>device's capabilities are determined through the presence of usage

>pages, I see two ways for a multifunction device to present itself:

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>- A single device ID with more than one usage page. All the

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>functionality is there and is compatible with FreeBSD drivers, but since
>there is only one device probed on the bus, only one driver may attach.
>Perhaps a "simple" mux driver would be useful?
>
>- A multiple single-usage device IDs. Same functionality as before, but
>now FreeBSD can probe unique printer and scanner devices and thus let
>both ulpt and usscanner attach simultaneously.
>
>Am I way off base?
>
>
>
>

What I would like to know is where are these tests done. Or should I say
where does USB start to load and what are the steps in between.

Chris

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