

## How to access a device on LPC bus?

**Source:** <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/hackers/2004-10/0253.html>

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To: freebsd-hackers@freebsd.org

Hi there,

beginner's question, maybe: How do I, from a device driver point of view, access a device attached to the "Low Pincount" (LPC) bus?

I have a Winbond W83L518D card reader controller in a notebook that I want to access. The only way I see this device at all is (on 5.3-BETA7) in "pnpinfo -v" output, where it shows up as

```
unknown pnpinfo _HID=WEC0518 _UID=0 at handle=_SB_.C046.C059.C140
```

— I have identified it then by the Hardware ID. I do not see any more information, especially no resource usage.

As far as I have read, the LPC bus devices can be accessed just like ISA devices. Actually, what seems to be the ACPI parent of this Winbond chip (with handle `_SB_.C046.C059`) is shown as `isab0` in the devinfo output.

Now, to implement an identify function in a driver for this, I need to access data in the controller – but I don't have any information about its memory attachments...

Could anyone give me a hint what to do here, some driver to look into for an example, or just tell me that my idea of an ISA driver on FreeBSD is completely wrong?

Thanks in advance,

Thiemo

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Query a PGP key server (e.g. <http://www.pgp.net/>) for my public key 41068629.

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- application/pgp-signature attachment: [stored](#)