

Re: O2micro smartcard reader driver.

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-02/msg06037.html>

- *From:* "Markus Rechberger" <mrechberger@xxxxxxxxx>
 - *Date:* Sat, 17 Feb 2007 00:36:10 +0100
-

Hi,

so finally I'm also looking at that driver,
<http://pieleric.free.fr/o2scr/>
the driver compiles fine, though it doesn't seem to work (unless I'm
doing something wrong here)

dmesg shows up following entries:

```
pccard: card ejected from slot 1
PCMCIA: socket c160c364: *** DANGER *** unable to remove socket power
pccard: PCMCIA card inserted into slot 1
pcmcia: registering new device pcmcia1.0
pccard: card ejected from slot 1
PCMCIA: socket c160c364: *** DANGER *** unable to remove socket power
pccard: PCMCIA card inserted into slot 1
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pccard: PCMCIA card inserted into slot 1
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OZSCRLX O2Micro SmartCardBus Reader (for kernel >= 2.6.17)
```

The module for any reason has a usecount value of 1
ozsctrlx 21548 1

devicenode /dev/ozsctrlx isn't opened anywhere either.

I'll do some further investigations upon it, I'd also like to see it
directly in the kernel. It would be handy to use for encrypted
filesystems.

Markus

On 12/12/06, Eric Piel <Eric.Piel@xxxxxxxxxxxxxxxxxxxxx> wrote:

28.11.2006 12:49, Oliver Neukum wrote/a écrit:
>> Latest version I've published is there:

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```
>> http://pieleric.free.fr/o2scr/
>
> case OZSCR_OPEN: /* Request ICC */
> dprintk("OZSCR_OPEN\n");
> ATRLength = ATR_SIZE;
> pRdrExt->IOBase = (PSCR_REGISTERS *) dev->io_base; //XXX
necessary?
> pRdrExt->membase = dev->am_base; //XXX necessary?
>
> pRdrExt->m_SCard.AvailableProtocol = 0;
> pRdrExt->m_SCard.RqstProtocol = 0;
> dprintk("membase:%p\n", pRdrExt->membase);
> dprintk("ioport:0x%03x\n", (unsigned)pRdrExt->IOBase);
>
> ret = CmdResetReader( pRdrExt, FALSE, ATRBuffer, &ATRLength );
> apdu.LengthOut = ATRLength;
>
> #ifdef PCMCIA_DEBUG
> printk(KERN_DEBUG "Open finished, ATR buffer = ");
> for( ATRLength = 0; ATRLength < apdu.LengthOut; ATRLength++ )
> printk(" [%02X] ", ATRBuffer[ATRLength] );
> printk("\n");
> #endif
>
> memcpy( apdu.DataOut, ATRBuffer, ATRLength );
> ret = copy_to_user((struct ozscr_apdu *)arg, &apdu,
sizeof(struct ozscr_apdu));
> break;
>
> 1. This needs locking against concurrent ioctls
> 2. The interpretation of copy_to_user()'s return code is incorrect
>
```

Hi Oliver,

Thanks a lot for reading my code, I didn't even hope that someone would!
I've corrected the copy_to_user (and copy_from_user) code. However I
don't know how to do locking for the concurrent ioctls. Indeed, I don't
think there is anything preventing two programs to call the driver at
the same time. Unfortunately, I've got no idea how to do the locking and
surprisingly couldn't find any ioctl code in the kernel doing locking.
Maybe I've just not looked at the right place, could you give a me some
hint how to do locking for ioctl's ?

See you,
Eric

—

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Please read the FAQ at <http://www.tux.org/lkml/>

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Markus Rechberger

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