

## Re: Problems getting the 1394 ROM configuration info

**Source:**

<http://www.tech-archive.net/Archive/Development/microsoft.public.development.device.drivers/2004-08/0816.html>

---

**From:** Jeff Henkels ([jeff\\_at\\_mapson.privatemail.com](mailto:jeff_at_mapson.privatemail.com))

**Date:** 08/14/04

Date: Sat, 14 Aug 2004 11:58:25 -0700

"BJ Johns" <[hjohns1@ix.netcom.com](mailto:hjohns1@ix.netcom.com)> wrote in message  
news:OJ8bYg6fEHA.1656@TK2MSFTNGP10.phx.gbl...

> *I am new to device drivers and am working on a driver for a 1394 firewire  
> video device. I am having some problems in getting the ROM configuration  
> info.*  
>  
> *I am able to perform multiple async reads of 4 bytes at a time to read the  
> ROM data starting at 0xFFFFF0000400 and continuing until I have read the  
> entire contents of the config info. And I have verified that all of the  
> retrieved data is correct.*

So, how do you figure out how many quadlets you have to read to get the  
entire config ROM? I'd like to try this method next.

> *But if I try to read anything more than 4 bytes at a time, I just get all  
> zero's back. First question....Is there a limit to the number of bytes  
that  
> can be retrieved at a time when reading the ROM config info?*  
>  
> *Next, I tried calling REQUEST\_GET\_CONFIGURATION\_INFO in the  
IOCTL\_1394\_CLASS  
> to get the buffer sizes of the Unit Directory, Unit Dependent Directory,  
> Vendor Leaf and Model Leaf by first setting each of these values to zero  
> before making the call. After returning success, the call only seems to  
set  
> the u.GetConfigurationInformation.UnitDirectoryBufferSize value to 12  
(which  
> is incorrect) and leaves all others at zero.*

I've noticed this too; I've been working with the 1394DCAM DDK sample, which  
uses REQUEST\_GET\_CONFIGURATION\_INFO. My guess, based on one or two things  
I've read here in this group, is that the 1394 class driver assumes a  
specific format for the config ROM and gets confused if the format isn't  
what it expects.

microsoft.public.development.device.drivers: Re: Problems getting the 1394 ROM configuration info

> *Why does it not return the correct values?*

>

> *At worst case I can just take the retrieved data from my first technique*

and

> *extract the same information as the call*

> *to REQUEST\_GET\_CONFIGURATION\_INFO should have done but I want to find out*

> *why this call doesn't seem to work for me.*

>

> *Thanks*

> *-BJ*

>

>