

## Re: TOP Network Interface Port of a Sun Ultra 30

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  - *Date:* 11 Aug 2008 03:23:09 GMT
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On 2008-08-10, Barry L. Bond <[barry@xxxxxxxxxxxxxxxxxxxxxx](mailto:barry@xxxxxxxxxxxxxxxxxxxxxx)> wrote:

[ ... ]

Check them with the loopback connector (pin 2 to pin 3) and you don't need the computers working to be sure that the terminals work.

That's true. I haven't checked more than the one yet, that worked on the Sun attached to ttyb.

And the loopback connector keeps you from having to run back and forth between the computer end and the terminal end.

I didn't have one minute yesterday to get to "this stuff". And, I still went to bed late...

Hmm ... you haven't told me what Exabyte it is. Let's go for the easy thing to check. What color is the tape cartridge?

- 1) Black Older Exabyte up through 8505 — cartridges for this should be dirt cheap on eBay — and you can also use 8mm video tapes with some loss in reliability.
- 2) White Mammoth — moderately expensive on eBay, sometimes real bargains available however.
- 3) Blue Mammoth-2 — very expensive most of the time on eBay.

Sorry about that! :-O

The tape cartridge is black, with green letters where it says, on the cartridge, EXATAPE, 8MM DATA CARTRIDGE, 112m, and Exabyte.

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Black --- so probably around 7GB maximum for the EXB-8505. Less for the earlier ones like the 8200 (2.3 GB with normal length tapes --- I think that the 112 Meter ones may be the XL ones. Nope --- 160 Meters is the XL, so expect about 5GB per tape --- perhaps double that with the drive using built-in compression. Is it half-height, with just a slot to put the tape in and a small door behind it, or full height, with a swing-out door. If the latter, it is an older drive, and is either the 8200 or the 8500. You can tell which by where the button is located vs where the LEDs are. But I would have to dig up one of the old ones to be sure. Not that it matters much at present. But if you put a black tape cartridge into a Mammoth or Mammoth-2, it would perhaps try to read it, but would start flashing an amber LED after you are done saying that the heads need a cleaning tape --- \*every\* time you put such a tape into it.

I just purchased a QFE card, just now, from Ebay. A "buy it now" from weavh, with 100% positive comments. I just paid for it, via Ebay, and they'll take it from my checking account.

It is a 501-4837 X1049A SBus Sun Quad FastEthernet Card.

When that arrives, I'll put it in a PCI slot in the Ultra 30.

No you won't! Unfortunately, the 501-4837 is the Sbus version of the card --- and it won't fit in the Ultra-30. You need one of:

501-4366  
501-5406  
540-4094

the PCI versions to use in your Ultra-30. What you got can be used in systems up to the Ultra-2 --- no later machine has the Sbus for it to plug into.

I believe that I gave you the numbers to look for in an earlier posting.

:~)

Well, first I want to say THANK YOU. Your indicating this, and my emailing the ebay seller (weavh), and he's replied. He understands COMPLETELY. And, he is switching it for me!

Great!

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He mentioned he had the 501-4366 and the 501-5406 and he said he'd prepare the 501-5406 for me. And, both of these numbers match what you have, above.

Glad that you caught a reasonable vendor in time.

But, actually, I went back to one of the earliest replies you had to me in this thread, and here is what I saw:

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That is because you don't \*have\* a separate card for that Ethernet port.

If you have a spare PCI slot, you can add another Ethernet card there, or replace the existing second Ethernet card with a QFE (Quad Fast Ethernet) card. Look for the following numbers in eBay (assuming that you have no business paying for replacement hardware):

501-4837

501-5443

501-4302

The first two would probably be the better choices.

<<>>

So, I typed 501-4837 as a result of that!

Oops! My apologies. One of the hazards of dealing with your postings just before it is time to go to bed. :-) (I'm a little ahead of time here, because Sunday has less usenet traffic in the newsgroups which I frequent.

If you \*ever\* see a Sun Field Engineer's Handbook offered on eBay --- get it. I have what I believe was the last edition (copyright 1999), and it is very useful for finding what fits what and what works with what --- as long as the machine is not too new or too old. (The sun3 (Motorola 68020 CPU) computers and some of the early Sparc based machines (up through the SparcStation 2), and machines newer than the Sun Blade 1000 (for example the Sun Blade 2000, which is very similar) are not covered. A pity that they stopped offering printed copies of this book.

No problem. Like I said, Jeff, the seller said he had a small house fire in February and it took a LONG TIME to get back to normal, so he

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understood my extra problems right now, dealing with lightning-fried stuff while working (a job where my code was recently integrated, and I'm the primary helper on AdaTEST) and trying to deal more with my mother than I've had to in the past! :-O

Ouch!

Your telling me what you did allowed me to contact him, and the 501-5406 will be what is actually shipped to me! :-)

Great!

Just by renaming the hostname.hme0 and hostname.hme1 files to hostname.hme1 and hostname.hme2 -- once you get the \*right\* QFE card. Note that the PCI QFE card has LEDs to verify connectivity for each port.

Okay... Actually, hostname.hme1 -- the Linux system, could be left the same. Or, are you recommending that I also connect the Linux system to one of these 4 QFE ports?

I'm recommending that you use only the QFE unless you need a fifth ethernet port. Part of the problem is what the port in the card will be called when you add the QFE as well. It may continue to be called hme1, and the others would be hme2 through hme5, or it may be that the QFE will be hme1 through hme4, and the old card would become hme5 -- it all depends on the order in which the system scans the card slots. Oh yes -- it may start out with the old card remaining hme1, but if you do a reconfigure boot, it may get shuffled. With only the bad hme0 on the system board, and the QFE in the box, the QFE will get hme1 through hme4 with no question, so you will have more predictability.

Yes -- and you could make a direct connection to the serial box from one of those -- but you would have to edit some files to make it work.

I AM planning on that! :-O A call to D-Link tech service (since I am still able to make a free request, since I just recently purchased a new D-Link router) wasn't much help!

:-(

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I SUSPECT that I have to configure something in the D-Link router differently. I've actually never had anything attached to one of the ports that was LAN use only. The guy at Avocent and this tech support person that I called right after midnight yesterday/Saturday said it was possible. But, he wasn't any help whatsoever in helping me figure out what that was!

I suspect that you'll need to allocate static IP addresses to the D-link (which may be asking your router for IPs via dhcp), and to configure the IP information in /etc/hosts (and in later systems -- not sure about Solaris 8) you'll need to duplicate the information in /etc/inet/ipnodes -- which you might make a symlink to /etc/hosts to make sure that they contain the same information.

I DO want it just attached to now another network port I'll have on the Sun, where I can just configure it as another IP/ethernet port and not have the D-Link stuff "in the middle". :-)

I am BEYOND EXHAUSTED. I probably will try disconnecting the D-Link router from my Linux system -- TEMPORARILY -- and plugging the serial hub directly into it -- just to see if I can communicate with it.

O.K. Good Luck.

That will give me a confirmation it's working and perhaps give me a better idea (seeing it on my web browser) of exactly what configuring a serial port is all about. I just printed the 96-page manual, and I will look over that.

O.K. Good luck there.

I do SUSPECT it's working. The D-Link router showed the MAC address of it as an "Additional computer" on the LAN. The D-Link router and it seemed happy and fine talking to each other -- even if I couldn't! :-D

:-) Can you find out what IP address the Serial box is using?  
Is it in the address block which the Sun is using?

I'm going to bed tonight in time to get 8 hours of sleep before I get up at 3:30 tomorrow morning! Every movement is a strain! :-)

My mother goes Wednesday to have her first eye, her left eye, operated on for cataracts.

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Good Luck.

I can even see myself moving and thinking SO SLOWLY! I need to get back closer to normal!

Yes, you do.

But, I want to say -- THANK YOU again! :-D My wrong card purchase wound up being fixed before the wrong one was actually shipped to me, so all is well!

Great again.

Good Luck,  
DoN.

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--- Black Holes are where God is dividing by zero ---

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