

'help'

'help'

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/questions/2008-07/msg01536.html>

- *From:* "John Dakos [Enovation Technologies]" <gdakos@xxxxxxxxxxxxx>
 - *Date:* Mon, 28 Jul 2008 16:08:42 +0300
-

----- Original Message ----- From: <frebsd-questions-request@xxxxxxxxxxxxx>
To: <frebsd-questions@xxxxxxxxxxxxx>
Sent: Monday, July 28, 2008 3:00 PM
Subject: frebsd-questions Digest, Vol 226, Issue 2

Send frebsd-questions mailing list submissions to
frebsd-questions@xxxxxxxxxxxxx

To subscribe or unsubscribe via the World Wide Web, visit
<http://lists.freebsd.org/mailman/listinfo/frebsd-questions>
or, via email, send a message with subject or body 'help' to
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You can reach the person managing the list at
frebsd-questions-owner@xxxxxxxxxxxxx

When replying, please edit your Subject line so it is more specific
than "Re: Contents of frebsd-questions digest..."

Today's Topics:

1. Re: malloc options (Karl Vogel)
2. Re: malloc options (Giorgos Keramidas)
3. Network, routers, DHCP and PXE (Svein Halvor Halvorsen)
4. Re: Network, routers, DHCP and PXE (Manolis Kiagias)
5. Re: Binary upgrade from legacy version + ports
(Jan Henrik Sylvester)
6. Re: Network, routers, DHCP and PXE (Subhro)
7. Re: Network, routers, DHCP and PXE (Svein Halvor Halvorsen)
8. Re: Network, routers, DHCP and PXE (Manolis Kiagias)
9. Re: Network, routers, DHCP and PXE (Svein Halvor Halvorsen)
10. Re: Network, routers, DHCP and PXE (Manolis Kiagias)
11. wget vs fetch (Marcel Grandemange)
12. wget vs fetch (Marcel Grandemange)
13. RE: wget vs fetch (Marcel Grandemange)

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Message: 1

Date: Sun, 27 Jul 2008 21:55:39 -0400 (EDT)

From: vogelke+software@xxxxxxxx (Karl Vogel)

Subject: Re: malloc options

To: Giorgos Keramidas <keramida@xxxxxxxxxxxxxxxx>

Cc: freebsd-questions@xxxxxxxx

Message-ID: <20080728015539.70030B7B9@xxxxxxxxxxxxxxxx>

On Sat, 26 Jul 2008 17:36:35 -0700,
Doug Hardie <bc979@xxxxxxx> wrote:

D> The program has worked under considerable load for many years with versions
D> 3.7 to 6.2. Problems only occur with 7.0. The program is quite complex
D> and big. It uses probably hundreds of mallocs in a typical use. The
D> problems only occur reasonably randomly and only under quite heavy load.
D> The developer is looking into it, but the problem only occurs on FreeBSD
D> 7.0, not any other Unix systems. In the meantime I am losing money because
D> of it.

On Sun, 27 Jul 2008 05:03:58 +0300,
Giorgos Keramidas <keramida@xxxxxxxxxxxxxxxx> said:

G> While that's understandable, the current malloc() has undergone quite
G> extensive testing by Jason Evans and a lot of people who use it in FreeBSD
G> 7.X or later. Its ability to expose bugs in this way was deemed important
G> enough that it is now used by other projects too.

I ran into a similar problem with the BSD allocator running under heavy
load that didn't happen under any Solaris or Linux system I used. I
finally fixed it by using Doug Lea's malloc just for this one application:

<http://shell.siscom.net/~vogelke/Software/Languages/C/Libraries/malloc/>

This was under FreeBSD 6.*, but it might provide another data point if you
want to give it a try.

--

Karl Vogel I don't speak for the USAF or my company
vogelke at pobox dot com <http://www.pobox.com/~vogelke>

And God said, "Let there be vodka!" And saw that it was good. Then God
said, "Let there be light!" And then said, "Whoa - too much light."

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Message: 2

Date: Mon, 28 Jul 2008 07:13:50 +0300

From: Giorgos Keramidas <keramida@xxxxxxxxxxxxxxxx>

Subject: Re: malloc options

To: vogelke+software@xxxxxxxx

Cc: freebsd-questions@xxxxxxxx

Message-ID: <87k5f6dc1.fsf@xxxxxxxx>

Content-Type: text/plain; charset=us-ascii

On Sun, 27 Jul 2008 21:55:39 -0400 (EDT), vogelke+software@xxxxxxxx (Karl Vogel) wrote:

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I'm not sure how similar the two problems are. I quite frankly know _very_ little of what the original problem was, other than "I am encountering issues where values just seem to arbitrarily change".

Memory exhaustion is a potential problem with almost any sort of allocator that fragments memory in any way, but random corruption of user data is probably a different issue :/

If you have some sort of description of the workload that triggered the memory exhaustion with jemalloc (the current malloc implementation in FreeBSD), it's probably a good idea to talk to Jason Evans about it (his email is "jasone" at FreeBSD.org). He may be able to help you tune malloc or even make changes to the system version of malloc that make it less vulnerable to this sort of problem.

Message: 3
Date: Mon, 28 Jul 2008 09:18:23 +0200
From: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxxxx>
Subject: Network, routers, DHCP and PXE
To: questions@xxxxxxxxxxxx
Message-ID: <488D72BF.80205@xxxxxxxxxxxxxxxxxxxx>
Content-Type: text/plain; charset=ISO-8859-1

Hi, list!

I have a private home network, on an ADSL2+ connection to the internet. The home network is behind NAT, all automatically set up by the router/dhcp server/wlan access point/adsl modem that I got from my ISP. It's a Thomson SpeedTouch 585 router.

Now, on this network, most of the computers get their IP by means of DHCP. Except our home audio server, which have a hard coded ip address in rc.conf, set to something within the range of the dhcp server (10.0.0.2-10.0.0.253). The server seems to pick this up, and don't give that address away to someone else.

I've tried using other addresses outside this range, like 10.0.1.1, but that doesn't work. All network access is lost when I do that.

Now, on my local network I'd like to put a diskless machine. As I understand it, my DHCP server needs to tell the client about the "filename" and a "next-server" to use. I don't think I can setup the Thomson router to do this. All the instruction I can find online advises me to install a DHCP server on the same machine that serves the pxe boot image. But if I do that, I'll get two DHCP servers on

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my local network. Is that ok? Will there be a race condition, when a client asks for an IP address?

sv.

Message: 4
Date: Mon, 28 Jul 2008 10:48:19 +0300
From: Manolis Kiagias <sonic2000gr@xxxxxxxx>
Subject: Re: Network, routers, DHCP and PXE
To: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxx>
Cc: questions@xxxxxxxx
Message-ID: <488D79C3.6070000@xxxxxxxx>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Svein Halvor Halvorsen wrote:

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You may also want to ensure that the router will never allocate your static IP address to someone else.

Look at the DHCP router settings either for DHCP scope (set it to narrower values, and use a static IP outside the range) or for something like exceptions / exclusion where you can mark a specific IP that DHCP will never assign.

I've tried using other addresses outside this range, like 10.0.1.1, but that doesn't work. All network access is lost when I do that.

10.0.1.1 is a different network (I assume your netmask is 255.255.255.0, but check your router or your clients)

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Now, on my local network I'd like to put a diskless machine. As I understand it, my DHCP server needs to tell the client about the "filename" and a "next-server" to use. I don't think I can setup the Thomson router to do this. All the instruction I can find online advises me to install a DHCP server on the same machine that serves the pxe boot image. But if I do that, I'll get two DHCP servers on my local network. Is that ok? Will there be a race condition, when a client asks for an IP address?

You will have to shutdown the router's DHCP. Probably disable it permanently and assign this function to a machine.

The DHCP of the router also sends you the following information (besides IP address):

- DNS Server(s): Either the ones used by your ISP (consult its website) or its own address (i.e. 10.0.0.1). Most routers send their own address as a DNS server and perform the resolution by sending your request to ISP servers.
- Gateway address: This is always the router's local IP address (i.e. 10.0.0.1)

If you setup your own DHCP server, make sure it is set to send this info as well. (These are commonly known as DHCP options)

Message: 5
Date: Mon, 28 Jul 2008 09:52:48 +0200
From: Jan Henrik Sylvester <me@xxxxxxx>
Subject: Re: Binary upgrade from legacy version + ports
To: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxxxx>
Cc: questions-list freebsd <freebsd-questions@xxxxxxxxxxxx>
Message-ID: <488D7AD0.5090804@xxxxxxx>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Svein wrote:

- > Is there a problem using the prebuilt packages from STABLE on a
- > RELEASE box? If I want to run RELEASE, and still use the latest
- > packages? The ABI is consistent between STABLE and RELEASE, right?

Yes, there is a problem. See my posting here:

<http://lists.freebsd.org/pipermail/freebsd-questions/2008-June/177553.html>

Unfortunately, I have not got an answer, but it is obvious packages using this new symbol must fail:

<http://lists.freebsd.org/pipermail/cvs-src/2008-May/091586.html>

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The question is, if other package may fail as well.

I have had one more error that went away after recompiling a STABLE package:

<http://lists.freebsd.org/pipermail/freebsd-gnome/2008-July/020520.html>

I do not know if this is related, though.

If you find out more, please, let me know.

Cheers,
Jan Henrik

Message: 6
Date: Mon, 28 Jul 2008 13:35:55 +0530
From: Subhro <subhro.kar@xxxxxxxxxx>
Subject: Re: Network, routers, DHCP and PXE
To: "Manolis Kiagias" <sonic2000gr@xxxxxxxxxx>
Cc: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxxxx>, questions@xxxxxxxxxx
Message-ID: <b2807d040807280105o531be87awa5dba3b408af65a6@xxxxxxxxxxxxxxxxxx>
Content-Type: text/plain; charset=ISO-8859-1

Just to add to that suggestion, if you have a separate DHCP server, make sure your router works as a DHCP client for the internal network as well. You should be able to do that by telnetting into the management port. You may use a serial cable as well.

This is required in order to get the NAT working properly.

Thanks
Subhro

On Mon, Jul 28, 2008 at 1:18 PM, Manolis Kiagias <sonic2000gr@xxxxxxxxxx> wrote:

Svein Halvor Halvorsen wrote:

Hi, list!

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You may also want to ensure that the router will never allocate your static
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Look at the DHCP router settings either for DHCP scope (set it to narrower
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If you setup your own DHCP server, make sure it is set to send this info as well. (These are commonly known as DHCP options)

freebsd-questions@xxxxxxxxxxx mailing list
<http://lists.freebsd.org/mailman/listinfo/freebsd-questions>
To unsubscribe, send any mail to
"freebsd-questions-unsubscribe@xxxxxxxxxxx"

—
Subhro Kar
Software Engineer
Dynamic Digital Technologies Pvt. Ltd.
EPY-3, Sector: V
Salt Lake City
700091
India

Message: 7
Date: Mon, 28 Jul 2008 10:56:47 +0200
From: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxxxx>
Subject: Re: Network, routers, DHCP and PXE
To: Manolis Kiagias <sonic2000gr@xxxxxxxx>
Cc: questions@xxxxxxxxxxx
Message-ID: <488D89CF.1040100@xxxxxxxxxxxxxxxxxxxx>
Content-Type: text/plain; charset=ISO-8859-1

Manolis Kiagias wrote:

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Yeah, but even though the router has customizable values for this range, and issues a warning when i try to change them, it still doesn't change them when I click "yes" on the warning. It is pre-configured to 10.0.0.2–10.0.0.253

I could of course use 10.0.0.254 for my static ip, but my room mate also wants a static address.

I've tried using other addresses outside this range, like 10.0.1.1, but that doesn't work. All network access is lost when I do that.

10.0.1.1 is a different network (I assume your netmask is 255.255.255.0, but check your router or your clients)

You're right! But how do I make the entire 10/24 address space available? It would be "clean" (I guess) to have a different address scheme for the static addresses.

Anyway, at this point this isn't really critical, as the router figures out that the addresses I use, are in fact in use, and keeps them out of its dhcp address pool.

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So as long as I make my own DHCP server act the same way as the router one, I should be fine? NAT and all will work?

Is there a way to debug the DHCP response from the current router dhcp server? So I can see what options it actually sends? dhclient doesn't seem to have a "more verbose" option, only less.

sv.

Message: 8

Date: Mon, 28 Jul 2008 12:42:52 +0300

From: Manolis Kiagias <sonic2000gr@xxxxxxxxxx>

Subject: Re: Network, routers, DHCP and PXE

To: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxx>

Cc: questions@xxxxxxxxxx

Message-ID: <488D949C.5020002@xxxxxxxxxx>

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Svein Halvor Halvorsen wrote:

Manolis Kiagias wrote:

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I could of course use 10.0.0.254 for my static ip, but my room mate also wants a static address.

What are you trying to set it at? I would just lower the 253 value, so I could use the upper end for my static addresses. If you try to set it to a subnet outside it's own address, it will definitely not accept it. I would also try a factory reset or firmware upgrade of the router. I have been using a Speedtouch 500 series for years, and never had any problems with settings not getting registered. AFAIR the 585 has one of the new web interfaces and it is kind of confusing. I found the 500 easier to use.

I've tried using other addresses outside this range, like 10.0.1.1, but that doesn't work. All network access is lost when I do that.

10.0.1.1 is a different network (I assume your netmask is 255.255.255.0, but check your router or your clients)

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Not sure about this, sorry. However, don't expect much more than IP/Netmask, DNS Server, Gateway from a simple router. These should not be difficult to configure in isc-dhcp3 (net/isc-dhcp3-server).

Have a look at this article:

http://www.howtoforge.com/dhcp_server_linux_debian_sarge

It is linux oriented, but very easy to adjust for FreeBSD.
You will also need to add:

```
option domain-name-servers 10.0.0.1;
```

to set the DNS server address to your clients.

Message: 9

Date: Mon, 28 Jul 2008 11:59:41 +0200

From: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxxxx>

Subject: Re: Network, routers, DHCP and PXE

To: Manolis Kiagias <sonic2000gr@xxxxxxxx>

Cc: questions@xxxxxxxxxxxx

Message-ID: <488D988D.10901@xxxxxxxxxxxxxxxxxxxx>

Content-Type: text/plain; charset=ISO-8859-1

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I managed to change the router ip address to 10.0.0.1/23 and just keep the default dhcp address space as 10.0.0.2–10.0.0.253. Now I seem to be able to use 10.0.1.1/24 for my own private use.

(I don't think I really know what I'm doing here, but it works!)

Well problem is, a netmask of 255.255.255.0 means only the last octet can be used for hosts. Your DHCP server is already assigning addresses from this space.

Well, I changed it to 255.255.254.0 (0xfffffe00) but kept the dhcp range as it was.

So as long as I make my own DHCP server act the same way as the router one, I should be fine? NAT and all will work?

Yes. As long as the clients have a valid DNS to ask, and a valid gateway to send their packets, everything will work properly. If you come to think about it, you are already doing this on the system with the static configuration.

Ok, I will look into this.

Also, looking through the telnet interface options (which are far more than the web interface gives), I see that I can add "dhch server option templates", "dhcp server option instances" and that I can assign such an instance to the "dhcp server pool options".

This uses a different config scheme than the isc dhcp server config files, though. And it seems I need to create a template before I can create an instance. The template takes a name and an option id as paramters. The instance, then takes a name, a template, and a value as mandatory paramters. Also enterprice number, suboption number, and more.

How does the "filename", "next-server", etc map to option ids? Are these isomorphic, or do I get this completely wrong?

Does this make any sense to you, or anyone else here? Should I try to make the router DHCP server serve the right options, or would you go the isc dhcp route?

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Thank you very much for your help so far!

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Message: 10
Date: Mon, 28 Jul 2008 13:25:39 +0300
From: Manolis Kiagias <sonic2000gr@xxxxxxxxxx>
Subject: Re: Network, routers, DHCP and PXE
To: Svein Halvor Halvorsen <svein.h@xxxxxxxxxxxxxxxxxxxx>
Cc: questions@xxxxxxxxxx
Message-ID: <488D9EA3.4010503@xxxxxxxxxx>
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(I don't think I really know what I'm doing here, but it works!)

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Well, a netmask of 255.255.254.0 should give you 10.0.0.1 to 10.0.1.254 host addresses.

10.0.1.1 is within range, it should work.

Well problem is, a netmask of 255.255.255.0 means only the last octet can be used for hosts. Your DHCP server is already assigning addresses from this space.

Well, I changed it to 255.255.254.0 (0xffffe00) but kept the dhcp range as it was.

The DHCP range you are assigning is a subset of what you allowed with the netmask, thus it is valid.

So as long as I make my own DHCP server act the same way as the router one, I should be fine? NAT and all will work?

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Ah, yes completely forgot the speedtouch has a telnet interface as well.
I messed with it a few times myself, mostly for fun ;)

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Does this make any sense to you, or anyone else here? Should I try to make the router DHCP server serve the right options, or would you go the isc dhcp route?

Thank you very much for your help so far!

sv.

I have only done PXE with Windows servers, and it has been quite some time – cannot remember the details.

I certainly would not advise you to use the router for this – even if it is possible it has several drawbacks.

- You will, sooner or later, change the router and your new one may not have the capability
- You will spend a probably unreasonable amount of time trying to make it work – and it may not even succeed
- Learning how to perform this on FreeBSD will help you apply it in many other situations.

I would definitely go the isc-dhcp route.

Message: 11
Date: Mon, 28 Jul 2008 12:09:16 +0200
From: "Marcel Grandemange" <thavinci@xxxxxxxxxxxxxxxxxx>

'help'

'help'

Subject: wget vs fetch
To: <questions@xxxxxxxxxxxx>
Cc: steyn@xxxxxxxxxxxx
Message-ID: <000f01c8f09a\$002bf610\$0083e230\$@za.net>
Content-Type: text/plain; charset="us-ascii"

I have a problem with a box I upgraded from FreeBSD 6.2 To FreeBSD7

It seems the following is happening when I try use portupgrade -a or even building ports.

ALL transfers that are FTP fail.

Now to make this simple, I have following environmental variables set..

http_proxy=http://192.168.12.4:3128/

ftp_proxy=http://192.168.12.1:3128/

FTP_PASSIVE_MODE=YES

And here is the strange thing..

Fetch fails, but if I use wget there is no problem.

The firewall does allow ftp to go directly aswell, so I have also tried leaving out any and all proxy settings, this fails aswell. (Except for wget once again)

And here is the crux.

I have 5 machines on SAME network that has no issues like this, so this makes me think fetch is broke somehow.

How can I force FreeBSD to use wget instead of fetch to bypass this?

'help'

Ive tried setting env FETCH_CMD=wget but that results in wget failing with msg:

Try `wget --help` for more options.

=> Attempting to fetch from <http://mirror.sg.depaul.edu/pub/security/nmap/>.

wget: invalid option --

Usage: wget [OPTION]... [URL]...

Thankx ahead!

Message: 12

Date: Mon, 28 Jul 2008 12:28:27 +0200

From: "Marcel Grandemange" <thavinci@xxxxxxxxxxxxxxxx>

Subject: wget vs fetch

To: <questions@xxxxxxxx>

Cc: steyn@xxxxxxxx

Message-ID:

<!&!AAAAAAAAAAAAAYAAAAAAAAAGJPLKnJoyJDpeEQzt+keprCgAAAEAAAAJuuPBPd+UJFpVZe50

Content-Type: text/plain; charset="us-ascii"

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Now to make this simple, I have following environmental variables set..

'help'

'help'

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```

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```
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```

```
wget: invalid option --
```

```
Usage: wget [OPTION]... [URL]...
```

'help'

Thankx ahead!

Message: 13
Date: Mon, 28 Jul 2008 13:43:47 +0200
From: "Marcel Grandemange" <thavinci@xxxxxxxxxxxxxxxx>
Subject: RE: wget vs fetch
To: "Sergey Zaharchenko" <doublef-ctm@xxxxxxxx>
Cc: questions@xxxxxxxxxxxx
Message-ID: <004a01c8f0a7\$326df210\$9749d630\$@za.net>
Content-Type: text/plain; charset="us-ascii"

Thank You, Worked Perfectly!
Saved My Life ;>

-----Original Message-----
From: Sergey Zaharchenko [<mailto:doublef-ctm@xxxxxxxx>]
Sent: Monday, July 28, 2008 12:35 PM
To: Marcel Grandemange
Subject: Re: wget vs fetch

Hello Marcel!

Mon, Jul 28, 2008 at 12:09:16PM +0200 you wrote:

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with
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=> Attempting to fetch from

<http://mirror.sg.depaul.edu/pub/security/nmap/>.

wget: invalid option --

Usage: wget [OPTION]... [URL]...

'help'

'help'

You might want to add `DISABLE_SIZE=YES' to your /etc/make.conf, as the fetch's -S option confuses wget. FWIW I use that in connection with `FETCH_CMD=wget -c --passive-ftp' in make.conf and it has been working for a long time for me.

--

DoubleF

No virus detected in this message. Ehrm, wait a minute...
/kernel: pid 56921 (antivirus), uid 32000: exited on signal 9 Oh yes, no virus:)

freebsd-questions@xxxxxxxxxxx mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-questions>

To unsubscribe, send any mail to "freebsd-questions-unsubscribe@xxxxxxxxxxx"

End of freebsd-questions Digest, Vol 226, Issue 2

_____ Information from ESET NOD32 Antivirus, version of virus signature database
3302 (20080728) _____

The message was checked by ESET NOD32 Antivirus.

<http://www.eset.com>

freebsd-questions@xxxxxxxxxxx mailing list

<http://lists.freebsd.org/mailman/listinfo/freebsd-questions>

To unsubscribe, send any mail to "freebsd-questions-unsubscribe@xxxxxxxxxxx"