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| 📄 Author | Topic: Error Building 2.4.0 Kernel (Read 237 times) |

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☐ **TheNarc**
Jr. Member
🟡🟡
Posts: 47
Karma: +13/-0

Error Building 2.4.0 Kernel
« **on:** October 12, 2017, 03:26:17 pm »

I'm trying to compile the 2.4.0 kernel and receiving "taking address of packed member of class or structure may result in an unaligned pointer value" errors. The sequence of steps I followed is:

- Grabbed an official FreeBSD 11.1-RELEASE VM image from https://download.freebsd.org/ftp/releases/VM-IMAGES/11.1-RELEASE/amd64/Latest/FreeBSD-11.1-RELEASE-amd64.vmdk.xz and successfully fired it up in VirtualBox
- Cloned the RELENG_2_4 branch via the command: `git clone --depth 1 --branch RELENG_2_4 --` https://github.com/pfsense/FreeBSD-src.git `pfSense_2.4`
- Removed the `device re` line from /usr/src/sys/amd64/conf/GENERIC (I'm building the kernel because I want to compile use use Realtek's latest driver for my NICs)
- Executed `make buildkernel KERNCONF=pfSense`

The error I receive is:
```
In file included from
/root/pfSense_2.4/sys/cam/nvme/nvme_all.h:32:
/usr/src/sys/dev/nvme/nvme.h:922:16: error: taking address of
packed member 'cdw10' of class or structure 'nvme_command' may
result in an
        unaligned pointer value [-Werror,-Waddress-of-packed-member]
          *(uint64_t *)&cmd->cdw10 = lba;
                        ^~~~~~~~~~
```

I found some suggestions that clang 4.0 was the first version to flag this as an error, so I even tried installing and using clang 3.8 instead, but I still received the same error. I also found suggestions that the flag -Wno-address-of-packed-member would suppress this error, but I'm not sufficiently well-versed in makefiles to know where to insert this.

I have been able to sucessfully compile just the Realtek driver under this build environment, so maybe this is a moot point? Will the stock kernel still load my

compiled driver module if I just add `if_re_load="YES"` to
`/boot/loader.conf.local`?

Thanks in advance to anyone who may have advice, and I'm glad to provide
any further information that may be useful.

☐ Logged

☐ **TheNarc**

Jr. Member

🟡🟡

Posts: 47
Karma: +13/-0

👤

Re: Error Building 2.4.0 Kernel
« **Reply #1 on:** October 12, 2017,
10:51:49 pm »

So I'm still not clear on why I was unable to compile the kernel, but I wanted
to follow up to say that it does appear that placing my compiled v1.94 Realtek
`if_re.ko` driver in /boot/kernel/ and adding `if_re_load="YES"` to
`/boot/loader.conf.local` was sufficient. At least, I make this judgment
based on the fact that `if_re.ko` is listed in the output from `kldstat`.

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☐ **CSylvain**

Newbie

🟡

Posts: 9
Karma: +3/-0

👤🌐

Re: Error Building 2.4.0 Kernel
« **Reply #2 on:** October 14, 2017,
05:13:17 pm »

I also found myself with this problem, which I was able to fix with this fix :
https://github.com/freebsd/freebsd/commit/6884a6e482ca6effa702761a1e3fa98bb
49d9a861ee932d5b656eb20466f2a292
But other problems have occurred. 😳
I had not had this problem with the RC version, which it was in "FreeBSD
11.0", so I put a compilation environment under this version, and compilation
to work.
I therefore conclude that the development team forgot to add a "BRANCH
RELENG_2_4_0" on this repository: https://github.com/pfsense/FreeBSD-src

The "Main repository for pfSense" is also unusable because it refers to a
"BRANCH" that is missing:
https://github.com/pfsense/pfsense/blob/RELENG_2_4_0/tools/builder_defaults.sh#

Can someone tell us about this omission ?

Thank you !

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