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Subject: Unable to build OpenVZ kernel/2.6.20  
Posted by [atlantis](#) on Mon, 09 Apr 2007 23:26:30 GMT  
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After patching my vanilla 2.6.20 kernel, im unable to compile it:

```
root@Spirit ~/linux-2.6.20 # make
CHK   include/linux/version.h
CHK   include/linux/utsrelease.h
HOSTCC scripts/basic/fixdep
HOSTCC scripts/basic/docproc
CC     arch/x86_64/kernel/asm-offsets.s
GEN    include/asm-x86_64/asm-offsets.h
CC     scripts/mod/empty.o
HOSTCC scripts/mod/mk_elfconfig
MKELF  scripts/mod/elfconfig.h
HOSTCC scripts/mod/file2alias.o
HOSTCC scripts/mod/modpost.o
HOSTCC scripts/mod/sumversion.o
HOSTLD scripts/mod/modpost
HOSTCC scripts/kallsyms
HOSTCC scripts/conmakehash
HOSTCC scripts/bin2c
CC     init/main.o
In file included from include/bc/beancounter.h:120,
      from include/bc/net.h:20,
      from include/linux/skbuff.h:335,
      from include/linux/netlink.h:138,
      from include/linux/genetlink.h:4,
      from include/net/genetlink.h:4,
      from include/linux/taskstats_kern.h:12,
      from init/main.c:43:
include/bc/io_prio.h: In function 'bc_findcreate_cfq_bc':
include/bc/io_prio.h:55: error: dereferencing pointer to incomplete type
include/bc/io_prio.h: In function 'bc_schedule_active':
include/bc/io_prio.h:61: error: dereferencing pointer to incomplete type
include/bc/io_prio.h:61: error: dereferencing pointer to incomplete type
include/bc/io_prio.h: In function '__find_cfq_bc':
include/bc/io_prio.h:72: error: dereferencing pointer to incomplete type
make[1]: *** [init/main.o] Error 1
make: *** [init] Error 2
root@Spirit ~/linux-2.6.20 #
```

The unpatched kernel compiles fine.

System is Lunar Linux 1.6.2 (64bit on an Opteron), gcc -v:

Using built-in specs.

Target: x86\_64-pc-linux-gnu

Configured with: ../configure --host=x86\_64-pc-linux-gnu --enable-languages=c++ --prefix=/usr  
--infodir=/usr/share/info --mandir=/usr/share/man --enable-\_\_cxa\_atexit --enable-threads

```
--disable-nls --enable-target-optspace --with-gnu-ld --with-system-zlib --enable-shared
--disable-multilib
Thread model: posix
gcc version 4.1.2
```

Tryed both, 2.6.20 and 2.6.20.6.  
Used patch-ovz002.1-combined.  
Any hints?

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [DigiMan](#) on Tue, 10 Apr 2007 07:12:28 GMT  
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Not sure how helpful this is going to be. But I've been able to successfully compile 2.6.20 with the OpenVZ kernel patch. However, this was on a 32-bit machine, not a 64-bit machine. Perhaps the problem is related to that. Did you cleanly apply the patch? Did it show any errors, etc.? Thank you.

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [atlantis](#) on Tue, 10 Apr 2007 18:12:24 GMT  
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Depends on the kernel.  
For 2.6.20 yes, not for 2.6.20.6 (all pure vanilla)  
But it bails out on both with the same message

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [Vasily Tarasov](#) on Thu, 12 Apr 2007 13:14:22 GMT  
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Hello,

please try attached patch. It'll be in git soon. Report us will you succeed in building OpenVZ kernel.

Thanks,  
Vasily.

#### File Attachments

1) [diff-ubc-ioprio-compilation-fix-2.6.20-20070304](#), downloaded 419 times

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [atlantis](#) on Fri, 13 Apr 2007 00:01:10 GMT  
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Thanks, this fixes this problem.

Sadly, the next one isnt far away

Last messages:

```
AS arch/x86_64/ia32/ia32entry.o
CC arch/x86_64/ia32/sys_ia32.o
CC arch/x86_64/ia32/ia32_signal.o
CC arch/x86_64/ia32/tls32.o
CC arch/x86_64/ia32/ia32_binfmt.o
arch/x86_64/ia32/ia32_binfmt.c:50:1: warning: "ELF_ET_DYN_BASE" redefined
In file included from include/linux/elf.h:7,
    from include/linux/module.h:15,
    from include/linux/device.h:20,
    from include/linux/genhd.h:61,
    from include/linux/blkdev.h:6,
    from include/linux/cfq-iosched.h:6,
    from include/bc/io_prio.h:18,
    from include/bc/beancounter.h:120,
    from include/bc/vmpages.h:15,
    from arch/x86_64/ia32/ia32_binfmt.c:29:
include/asm/elf.h:93:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:60:1: warning: "USE_ELF_CORE_DUMP" redefined
include/asm/elf.h:85:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:64: error: conflicting types for 'elf_greg_t'
include/asm/elf.h:32: error: previous declaration of 'elf_greg_t' was here
arch/x86_64/ia32/ia32_binfmt.c:66:1: warning: "ELF_NGREG" redefined
include/asm/elf.h:34:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:67: error: conflicting types for 'elf_gregset_t'
include/asm/elf.h:35: error: previous declaration of 'elf_gregset_t' was here
arch/x86_64/ia32/ia32_binfmt.c:120:1: warning: "ELF_CORE_COPY_REGS" redefined
include/asm/elf.h:99:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:141:1: warning: "__ASM_X86_64_ELF_H" redefined
include/asm/elf.h:2:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:146: error: conflicting types for 'elf_fpregset_t'
include/asm/elf.h:37: error: previous declaration of 'elf_fpregset_t' was here
arch/x86_64/ia32/ia32_binfmt.c:209:1: warning: "ELF_EXEC_PAGESIZE" redefined
include/asm/elf.h:86:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:211:1: warning: "ELF_PLATFORM" redefined
include/asm/elf.h:144:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:212:1: warning: "SET_PERSONALITY" redefined
include/asm/elf.h:147:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:234:1: warning: "ELF_PLAT_INIT" redefined
include/asm/elf.h:66:1: warning: this is the location of the previous definition
make[1]: *** [arch/x86_64/ia32/ia32_binfmt.o] Error 1
make: *** [arch/x86_64/ia32] Error 2
```

(same as above, vanialla 2.6.20 kernel, applied patch-ovz002.1-combined, then diff-ubc-ioprio-compilation-fix-2.6.20-20070304)

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [Vasily Tarasov](#) on Fri, 13 Apr 2007 14:34:44 GMT  
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Wow, I've just noticed that you're using test002 patch. It's too old Please, try test004 kernel from git! With my patch and without.

Thanks,  
Vasily.

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [atlantis](#) on Wed, 18 Apr 2007 06:28:49 GMT  
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Trying with last version from git (004)

Without your patch:

```
HOSTCC scripts/bin2c
CC    init/main.o
```

```
In file included from include/bc/beancounter.h:120,
                 from include/bc/net.h:20,
                 from include/linux/skbuff.h:338,
                 from include/linux/netlink.h:138,
                 from include/linux/genetlink.h:4,
                 from include/net/genetlink.h:4,
                 from include/linux/taskstats_kern.h:12,
                 from init/main.c:43:
```

```
include/bc/io_prio.h: In function 'bc_findcreate_cfq_bc':
```

```
include/bc/io_prio.h:55: error: dereferencing pointer to incomplete type
```

```
include/bc/io_prio.h: In function 'bc_schedule_active':
```

```
include/bc/io_prio.h:61: error: dereferencing pointer to incomplete type
```

```
include/bc/io_prio.h:61: error: dereferencing pointer to incomplete type
```

```
include/bc/io_prio.h: In function '__find_cfq_bc':
```

```
include/bc/io_prio.h:72: error: dereferencing pointer to incomplete type
```

```
make[1]: *** [init/main.o] Error 1
```

```
make: *** [init] Error 2
```

with your patch:

```
CC    arch/x86_64/ia32/ia32_signal.o
CC    arch/x86_64/ia32/tls32.o
```

```
CC arch/x86_64/ia32/ia32_binfmt.o
arch/x86_64/ia32/ia32_binfmt.c:50:1: warning: "ELF_ET_DYN_BASE" redefined
In file included from include/linux/elf.h:7,
    from include/linux/module.h:15,
    from include/linux/device.h:20,
    from include/linux/genhd.h:61,
    from include/linux/blkdev.h:6,
    from include/linux/cfq-iosched.h:6,
    from include/bc/io_prio.h:18,
    from include/bc/beancounter.h:120,
    from include/bc/vmpages.h:15,
    from arch/x86_64/ia32/ia32_binfmt.c:29:
include/asm/elf.h:93:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:60:1: warning: "USE_ELF_CORE_DUMP" redefined
include/asm/elf.h:85:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:64: error: conflicting types for 'elf_greg_t'
include/asm/elf.h:32: error: previous declaration of 'elf_greg_t' was here
arch/x86_64/ia32/ia32_binfmt.c:66:1: warning: "ELF_NGREG" redefined
include/asm/elf.h:34:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:67: error: conflicting types for 'elf_gregset_t'
include/asm/elf.h:35: error: previous declaration of 'elf_gregset_t' was here
arch/x86_64/ia32/ia32_binfmt.c:120:1: warning: "ELF_CORE_COPY_REGS" redefined
include/asm/elf.h:99:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:141:1: warning: "__ASM_X86_64_ELF_H" redefined
include/asm/elf.h:2:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:146: error: conflicting types for 'elf_fpregset_t'
include/asm/elf.h:37: error: previous declaration of 'elf_fpregset_t' was here
arch/x86_64/ia32/ia32_binfmt.c:209:1: warning: "ELF_EXEC_PAGESIZE" redefined
include/asm/elf.h:86:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:211:1: warning: "ELF_PLATFORM" redefined
include/asm/elf.h:144:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:212:1: warning: "SET_PERSONALITY" redefined
include/asm/elf.h:147:1: warning: this is the location of the previous definition
arch/x86_64/ia32/ia32_binfmt.c:234:1: warning: "ELF_PLAT_INIT" redefined
include/asm/elf.h:66:1: warning: this is the location of the previous definition
make[1]: *** [arch/x86_64/ia32/ia32_binfmt.o] Error 1
make: *** [arch/x86_64/ia32] Error 2
```

Im quite unshure who to handle your git repositorie, is linux-2.6.20 a complete, prepatched kernel?

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [atlantis](#) on Sat, 28 Apr 2007 13:35:45 GMT  
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Still unable to compile the kernel on Lunuar/64bit.  
Just tried the 32 bit version, and it compiles fine (after applying  
diff-ubc-ioprio-compilation-fix-2.6.20-20070304).

Will stick to 32bit now.

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Subject: Re: Unable to build OpenVZ kernel/2.6.20  
Posted by [Vasily Tarasov](#) on Wed, 02 May 2007 07:17:52 GMT  
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Hello,

please, fill out the bug each time OpenVZ kernel doesn't compile smoothly!

Thank you,  
Vasily.