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?

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.

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

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 508 times

---

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, applyed patch-ovz002.1-combined, then diff-ubc-ioprio-compilation-fix-2.6.20-20070304)

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.

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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Tryed 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?

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 tryed the 32 bit version, and it compiles fine (after applying
diff-ubc-ioprio-compilation-fix-2.6.20-20070304).

Will stick to 32bit now.

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.
