

```
warning: user mockbuild does not exist - using root
```

[illegible]

```
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```

第二步：生成内核源码

```
cd ~/rpmbuild/SPECS
```

```
rpmbuild -bp kernel.spec
```

这里会报错：

```
[root@localhost src]# cd ~/rpmbuild/SPECS
[root@localhost SPECS]# rpmbuild -bp kernel.spec
warning: bogus date in %changelog: Tue Dec 07 2011 Karanbir Singh <kbsingh@centos.org> [2.6.32-220.el6.centos]
error: Failed build dependencies:
        xmlto is needed by kernel-2.6.32-220.el7.x86_64
```

解决方法：

安装以下依赖包:

```
yum install -y gcc asciidoc newt-devel
```

```
yum install redhat-rpm-config patchutilsxmlto elfutils-libelf-devel binutils-devel
python-devel hmaccalcperl-ExtUtils-Embed -y
```

```
yum install perl-ExtUtils-Embed hmaccalc -y
```

```
yum install patchutils \
```

```
xmlto \
```

```
elfutils-libelf-devel \
```

```
binutils-devel \
```

```
hmaccalc -y
```

再次执行 rpmbuild -bp kernel.spec

```
[root@localhost SPECS]# rpmbuild -bp kernel.spec
```

```
gpg --homedir . --batch --gen-key /home/icbcmon/rpmbuild/SOURCES/genkey
gpg: WARNING: unsafe permissions on homedir .'
gpg: keyring './secring.gpg' created
gpg: keyring './pubring.gpg' created`

^C
gpg: signal Interrupt caught ... exiting
```

会在这里卡着不动，解决方法是：

```
yum -y install rng-tools

rngd -r /dev/urandom
```

继续执行rpmbuild -bp kernel.spec,成功.

第三步、对生成的内核源码打patch

```
#在/usr/local/src下解压linux-2.6.32-220.23.1.el6.x86_64.lvs.src.tar.gz
tar zxf linux-2.6.32-220.23.1.el6.x86_64.lvs.src.tar.gz

#打patch
cd ~/rpmbuild/BUILD/kernel-2.6.32-220.23.1.el6/linux-2.6.32-220.23.1.el6.x86_64/
cp /usr/local/src/linux-2.6.32-220.23.1.el6.x86_64.lvs/lvs-2.6.32-220.23.1.el6.patch
.

#修改.config文件
vim .config
CONFIG_IP_VS_TAB_BITS=20
```

第四步：

```
make
```

这里面又是数不清的坑。虽然最终失败了,但还是记录一下已经遇到过的问题和解决方法：

problem 1：

```
/tmp/ccIU2t9m.s: Assembler messages:
/tmp/ccIU2t9m.s: Error: .size expression for do_hypervisor_callback does not evaluate to a constant
make[2]: *** [arch/x86/kernel/entry_64.o] Error 1
make[1]: *** [arch/x86/kernel] Error 2
make: *** [arch/x86] Error 2
[root@localhost linux-2.6.32-220.23.1.el6.x86_64]#
```

解决方法：将报错文件中的END(do_hypervisor_callback)改为END(xen_do_hypervisor_callback)

problem 2：

```
gcc: error: elf_x86_64: No such file or directory
gcc: error: unrecognized command line option '-m'
make[2]: *** [arch/x86/vdso/vdso.so.dbg] Error 1
make[1]: *** [arch/x86/vdso] Error 2
make: *** [arch/x86] Error 2
[root@localhost linux-2.6.32-220.23.1.el6.x86_64]#
```

解决方法：

In arch/x86/vdso/Makefile：

```
replace "-m elf_x86_64" by "-m64" on the line starting with VDSO_LDFLAGS_vdso.lds
replace "-m elf_i386" by "-m32" on the line starting with VDSO_LDFLAGS_vdso32.lds
```

problem 3：

```

In file included from drivers/scsi/pmccraid.c:57:0:
drivers/scsi/pmccraid.h:611:8: error: duplicate member 'sense_buffer'
    u8 *sense_buffer;
    ^
make[2]: *** [drivers/scsi/pmccraid.o] Error 1
make[1]: *** [drivers/scsi] Error 2
make: *** [drivers] Error 2
[root@localhost linux-2.6.32-220.23.1.el6.x86_64]#

```

解决方法：

将drivers/scsi/pmccraid.h中的第611行注释掉：

```

    struct {
        //u8 *sense_buffer;
        dma_addr_t sense_buffer_dma;
    };
};

```

problem 4 :

```

AR      arch/x86/lib/lib.a
LD      vmlinux.o
ld: final link failed: No space left on device
make: *** [vmlinux.o] Error 1
[root@localhost linux-2.6.32-220.23.1.el6.x86_64]#

```