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**Subject:** PPC64 Kernel 2.6.18 + RPM packages  
**Posted by** Christian Kaiser**2** on Wed, 23 May 2007 11:59:01 GMT  
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Hi all,

I did my first steps with OpenVZ on a JS21 Blade. I'm running FC6 and built my own 2.6.18 kernel from kernel.org with your latest patches (028stab31). I used the default kernel config (not yours but from vanilla kernel) and I removed support for checkpointing. There was no menu entry for the Fair CPU scheduler in the menuconfig for the powerpc architecture. The compilation failed printing the following lines:

```
In file included from drivers/media/video/pwc/pwc-uncompress.c:29:  
include/asm/current.h: In function 'get_current':  
include/asm/current.h:23: warning: implicit declaration of function  
'offsetof'  
include/asm/current.h:23: error: expected expression before 'struct'  
make[4]: *** [drivers/media/video/pwc/pwc-uncompress.o] Error 1  
make[3]: *** [drivers/media/video/pwc] Error 2  
make[2]: *** [drivers/media/video] Error 2  
make[1]: *** [drivers/media] Error 2  
make: *** [drivers] Error 2
```

Then I replaced the include/asm/current.h file with the include/asm/current.h file of the vanilla kernel and compiled for new. Now it works. I could compile and boot the kernel with your patches (excluding the include/asm/current.h file).

After that I installed the ppc64 rpm packes of vzquota, vzctl and vzctl-lib. "vzkernel" and "vzquotamod" were missing so I had to force the installation (--nodeps) because I did the kernel compilation on my own, right?

After installation I tried to run /etc/init.d/vz start but it faild because of a missing library libvzctl-0.0.2.so. I found it in /usr/lib64 instead of /usr/lib.

```
[root@s10b10-0 ~]# /etc/init.d/vz start  
Starting OpenVZ: [ OK ]  
Bringing up interface venet0: [ OK ]  
Configuring interface venet0: [ OK ]  
vzctl set 0 --cpuunits 1000 failed: /usr/sbin/vzctl: error [FAILED]adding  
shared libraries: libvzctl-0.0.2.so: cannot open shared object file: No  
such file or directory
```

It seems to be that there is a mixture of 32 and 64 bit binaries and libs.  
See that output of /usr/sbin:

```
[root@s10b10-0 sbin]# file vz*
vzcalc: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1
(SYSV), for GNU/Linux 2.6.4, dynamically linked (uses shared libs), for
GNU/Linux 2.6.4, not stripped
vzcfgvalidate: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1
(SYSV), for GNU/Linux 2.6.4, dynamically linked (uses shared libs), for
GNU/Linux 2.6.4, not stripped
vzcpuchek: Bourne-Again shell script text executable
vzctl: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1
(SYSV), for GNU/Linux 2.6.4, dynamically linked (uses shared libs), for
GNU/Linux 2.6.4, not stripped
vzdqcheck: ELF 64-bit MSB executable, cisco 7500, version 1 (SYSV), for
GNU/Linux 2.6.4, dynamically linked (uses shared libs), for GNU/Linux
2.6.4, stripped
vzdqdump: ELF 64-bit MSB executable, cisco 7500, version 1 (SYSV), for
GNU/Linux 2.6.4, dynamically linked (uses shared libs), for GNU/Linux
2.6.4, stripped
vzdqload: ELF 64-bit MSB executable, cisco 7500, version 1 (SYSV), for
GNU/Linux 2.6.4, dynamically linked (uses shared libs), for GNU/Linux
2.6.4, stripped
vzlist: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1
(SYSV), for GNU/Linux 2.6.4, dynamically linked (uses shared libs), for
GNU/Linux 2.6.4, not stripped
vzmemcheck: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1
(SYSV), for GNU/Linux 2.6.4, dynamically linked (uses shared libs), for
GNU/Linux 2.6.4, not stripped
vzmigrate: Bourne-Again shell script text executable
vznetcfg: Bourne-Again shell script text executable
vzpid: Bourne-Again shell script text executable
vzquota: ELF 64-bit MSB executable, cisco 7500, version 1 (SYSV), for
GNU/Linux 2.6.4, dynamically linked (uses shared libs), for GNU/Linux
2.6.4, stripped
vzspli: ELF 32-bit MSB executable, PowerPC or cisco 4500, version 1
(SYSV), for GNU/Linux 2.6.4, dynamically linked (uses shared libs), for
GNU/Linux 2.6.4, not stripped
```

or here a 32 bit object file in /usr/lib64 directory ?!

```
[root@s10b10-0 sbin]# file /usr/lib64/libvzctl-0.0.2.so
/usr/lib64/libvzctl-0.0.2.so: ELF 32-bit MSB shared object, PowerPC or
cisco 4500, version 1 (SYSV), not stripped
```

So moving the lib from /usr/lib64 to /usr/lib solved my problem but showed another error when starting /etc/init.d/vz start

```
[root@s10b10-0 vzctl-3.0.16]# /etc/init.d/vz start
Starting OpenVZ: [ OK ]
Bringing up interface venet0: [ OK ]
```

```
Configuring interface venet0: [ OK ]
vzctl set 0 --cpuunits 1000 failed: Setting CPU units: 1000
fairsched_chwt: No such file or directory
WARNING: Settings were not saved and will be resetted to or[FAILED]values on
next start (use --save flag)
```

What is "fairsched\_chwt"? And why is it missing in my configuration?? An VE creation works fine:

```
[root@s10b10-0 cache]# vzctl create 101 --ostemplate
debian-3.1-powerpc-minimal --ipadd 192.168.0.101 --hostname ve101
Creating VE private area (debian-3.1-powerpc-minimal)
Warning: Temp dir /vz/private/101.tmp already exists, deleting
Performing postcreate actions
VE private area was created
```

but starting an VE fails. There is no verbose output on that even when I switch it on.

```
[root@s10b10-0 ~]# vzctl --verbose start 101
Starting VE ...
VE is mounted
VE start failed
VE is unmounted
[root@s10b10-0 ~]#
```

Can someone help me on this?

Mit freundlichen Grüßen / Best Regards  
Christian Kaiser

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