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Subject: Re: RHEL/dkms

Posted by [Vasily Tarasov](#) on Tue, 24 Oct 2006 06:00:43 GMT

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Hello!

Quote:

That time i gave up and later i tried newer ovzkernel-2.6.9-023stab030.1.src.rpm. I found out there is no megaraid\_sas included in that release. I find it quite confusing . RHEL4 has megaraid\_sas driver since kernel-2.6.9-34.EL.i686 up to the latest kernel-2.6.9-42.0.3.EL.i686 (previous is kernel-2.6.9-22.0.2.EL.i686). So whats the point? Why later version of openvz has no this driver?

ovzkernel-2.6.9-023stab030.1.src.rpm contains sources to build ovzkernel-2.6.9-023stab030.1. And of course sources for megaraid\_sas driver are in it!  
ovzkernel-<flavor>-2.6.9-023stab030.1.<arch>.rpm contains already compiled kernel from sources in vzkernel-2.6.9-023stab030.1.src.rpm. And this binary kernel has megaraid\_sas driver compiled in (not as a module!):

```
CONFIG_MEGARAID_SAS=y
```

So OpenVZ kernel supports this device.

Quote:

And what about dkms, am i supposed to drop it to use openvz? Did you tried dkms on rhel enterprise openvz kernels?

dkms (btw, not "dell kernel management system", rather "dynamic kernel management system") works for all kernels, including openvz. The problem is that not all drivers are source compatible with particular kernel. Look: for example driver calls kernel function do\_fee(arg1, arg2), but particular kernel doesn't have this function or has it with other arguments or their number, for instance: do\_fee(arg1, arg2, arg3). It will cause probleme during compilation!

In your particular case driver suppose that some structure has 'unlocked\_ioctl' field and 'shutdown' field, but in OpenVZ kernel this structure has no such member.

In such cases you can sliightly modify driver sources in order to make it compiled.

HTH,  
vass.

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