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Subject: /\* solved \*/ kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [paveo](#) on Sun, 18 May 2008 14:29:06 GMT

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I had install megaraid\_sas-v00.00.03.16-1.noarch.rpm for kernel 2.6.18-53.1.13.el5.028stab053.10, but unsuccessful, reboot and kernel panic. Server is DELL 2950.

Any idea?

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [vaverin](#) on Mon, 19 May 2008 04:23:54 GMT

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Hi Paveo,

could you please explain, why you need to install any additional drivers? This our kernel based on RHEL5 and as far as I know it includes this driver. Are you tried to use it?

thank you,  
Vasily Averin

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [paveo](#) on Mon, 19 May 2008 05:42:06 GMT

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Thanks for your reply.

My server reports the warning like this(Dell OMSA):

Driver Version 00.00.03.10

Minimum Required Driver Version 00.00.03.13

My raid card is Dell PERC 5/i Integrated, OMSA said my system's Firmware and Driver versions are out of date, so I want to upgrade it but kernel panic happened.

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [vaverin](#) on Mon, 19 May 2008 06:01:37 GMT

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ok, thank you for explanation.

I expect the new driver was re-compiled incorrectly. Could you please show me the logs of this procedure?

The kernel crash messages are interesting for me too.

thank you,  
Vasily Averin

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [paveo](#) on Mon, 19 May 2008 18:27:28 GMT  
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I can't got error log from files, so I got some screen shots. Thanks

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#### File Attachments

1) [Archive.zip](#), downloaded 401 times

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [vaverin](#) on Tue, 20 May 2008 12:23:22 GMT  
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1.gif shows the messages  
megaraid\_sas: disagrees about version of symbol struct\_module  
insmod /lib/megaraid\_sas.ko: -1 Invalid module format.

These messages means that the module was re-build incorrectly (or may be it was compiled for some other kernel).

You need to rebuild it again. You can use auto-build again -- in this case I would like to look at the messages.

Also if you wish I can explain You how to re-build thsi module manually.

thank you,  
Vasily Averin

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [paveo](#) on Tue, 20 May 2008 12:47:35 GMT  
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The problem module was built by dkms tool, I try to rebuild it with no effect.

Thank you very much to tell me how to build a working module

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [vaverin](#) on Tue, 20 May 2008 14:59:49 GMT

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First of all -- I would note that you need to build this driver by the same compiler that was used for the kernel build.

Do you have RHEL5 host OS? If not -- You need to create new Container based on this template, and install the kernel and kernel-devel packages -- it contains the Makefiles and headers required for the driver compilation.

Then you need take megaraid\_sas-v00.00.03.16-src.tar.gz tarball, it is included into megaraid\_sas-v00.00.03.16-1.noarch.rpm, in /usr/src/megaraid\_sas-v00.00.03.16-1 directory.

Extract it by using "tar xvfz" command, cd to dkms\_source\_tree/ directory and look at the following files:

Makefile

megaraid\_sas.c

megaraid\_sas.h

Then you can compile the driver by using the following command:

```
make -C /lib/modules/<kernel version>/build \
SUBDIRS=<full_path_to_the_current_dir> modules
```

for example

```
# make -C /lib/modules/2.6.18-028stab053.10/build \
SUBDIRS=/root/dkms_source_tree/ modules
make: Entering directory `/usr/src/kernels/2.6.18-028stab053.6-i686'
  CC [M] /root/dkms_source_tree/megaraid_sas.o
/root/dkms_source_tree/megaraid_sas.c: In function 'megasas_probe_one':
/root/dkms_source_tree/megaraid_sas.c:2650: warning: passing argument 2 of
'request_irq' from incompatible pointer type
/root/dkms_source_tree/megaraid_sas.c: In function 'megasas_resume':
/root/dkms_source_tree/megaraid_sas.c:2881: warning: passing argument 2 of
'request_irq' from incompatible pointer type
  Building modules, stage 2.
  MODPOST
  CC /root/dkms_source_tree/megaraid_sas.mod.o
  LD [M] /root/dkms_source_tree/megaraid_sas.ko
make: Leaving directory `/usr/src/kernels/2.6.18-028stab053.6-i686'
#
```

As you can see it generates some warnings but I think it is not an issue in our case.

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [paveo](#) on Tue, 20 May 2008 15:13:40 GMT  
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Thanks for your details.

My host system is CentOS 5.1, if I compiled the module, how can I install it, it seems must modify initrd.img.

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [vaverin](#) on Tue, 20 May 2008 15:25:59 GMT  
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just replace original module in /lib/module/<kernelversion>,  
call depmod, and then re-build initrd by using mkinitrd utility

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [paveo](#) on Wed, 21 May 2008 18:37:11 GMT  
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Hi, vaverin. I'm following your guide to install driver manually but kernel panic again It seems some one have the same problem with me:

<http://lists.xensource.com/archives/html/xen-users/2007-07/msg00350.html>

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [curx](#) on Wed, 21 May 2008 18:43:56 GMT  
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Is the modul loaded via the initramdisk, and the kernel cannot mount the root fs ?

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch  
Posted by [paveo](#) on Wed, 21 May 2008 18:46:57 GMT  
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How can I know is it loaded from initramdisk?

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

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Posted by [vaverin](#) on Thu, 22 May 2008 02:30:28 GMT

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after replacing the module you need execute mkinitrd, it creates initramfs image that should be used on the kernel boot.

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [paveo](#) on Thu, 22 May 2008 04:07:53 GMT

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I executed mkinitrd and reboot, but failed.

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Subject: Re: kernel panic with megaraid\_sas-v00.00.03.16-1 patch

Posted by [vaverin](#) on Thu, 22 May 2008 04:25:39 GMT

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Could you please give me access credential to your node (via Private Messaging),

thank you,  
Vasily Averin

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