

Re: System lockup problem with 7G of memory and PAE kernel – FC7

Source: <http://linux.derkeiler.com/Mailing-Lists/Fedora/2007-08/msg04691.html>

- *From:* Cokey <fdepercin@xxxxxxxxxx>
 - *Date:* Thu, 30 Aug 2007 06:46:01 -0400
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Steve Siegfried wrote:

Cokey wrote:

I have an older dual processor server with 4 Gig of memory that has been running FC5 since it was released. I tried to upgraded to 7 Gig of memory under FC5 but the system locked up in the init phase regardless of what I did. I didn't chase the problem because I intended to upgrade the OS.

Recently I did upgrade the OS to F 7 and tried the changing the memory to 7 Gig again. Using the standard i686 kernel, it boots and runs correctly, but warns that only 4 Gig of memory will be used and that the PAE kernel was necessary to use the full 7 Gig.

I installed the 2.6.22.4-65.fc7PAE kernel and the system boots correctly, but stops at the init phase. The system is not locked up as it will respond to C-A-Del and reboot. The output at the time of lock up looks like this:

```
Switching to new root and running Init
Unmounting old /dev
/proc
/sys
exec of init (/sbin/init) failed accessing a corrupted shared library
request_module: runaway loop modprobe binfmt-0397 (repeated 5 times)
```

I ran the memory test on the system for 8 hours or so and it found and tested all 7 Gig. Also I have booted this system with M\$ Advanced server and it finds/uses all 7 Gig so I don't think there's anything wrong with the hardware.

Rebooting with the original i686 kernel works correctly.

Any ideas or suggestions welcome.

Have you verified that your kernel supports that much memory? As I

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recall, there's a 2GB (or possibly 4GB) cut-off for "vanilla" kernels and if you want to run on a system with more memory than the cut-off allows, you'll need to set the "really large memory" option in the kernel's config file and then rebuild the kernel (or download the "large memory kernel" rpm from you usual RPM supplier).

Hope this helps'idly,

–S

The std i686 kernel supports up to 4G of memory. The 'PAE' kernel handles 4G and above.

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