Subject: Re: OpenVZ Hangs on PAE Kernel
Posted by vaverin on Tue, 28 Aug 2007 06:56:51 GMT

It's real nightmare.

Do you probably know how to reproduce this situation?

This issue can be software or hardware-related.
If this issue is software-related, then blank screen and non-working Magic sysrq can indicate some lockup in interrupt handlers: all the CPUs are busy and interrupts are disabled.
However this sort of problems should be detected by NMI watchdog. Could you please check /proc/interrupts file: is NMI watchdog enabled on your node? is it works properly (number of NMI interrupts should be increased evenly in real time).

If NMI watchdog is disabled on your node -- you can enable it (or switch its mode) by using "nmi_watchdog=" option into kernel commandline. You can try to set NMI_IO_APIC mode (nmi_watchdog=1) or NMI_LOCAL_APIC mode (nmi_watchdog=2).

However if NMI watchdog is enabled and works properly on your node -- you can try to re-install 64-bit OS on HW-node (you will be able to use 32-bit VE in this case).

In the ways described above will not help and the node will hangs again -- then situation looks like hardware fault. In this case I would like to recommend you to check and replace some parts of your hardware.

thank you,
    Vasily Averin