

2.6.1 IO lockup on SMP systems

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-01/7905.html>

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Date: 01/31/04

To: linux-kernel@vger.kernel.org

Date: Sat, 31 Jan 2004 19:40:27 +0300

Hello all,

I had experienced a lockups on three of my servers with 2.6.1. It doesn't look like a deadlock, the box is still pingable and all tcp ports which were in listen state before a lockup are remains in listen state, but I can't get any data from this ports. According to sar(1) systems had not been overloaded right before a lockup. And there is no log entries in all user services logs for almost 10 hours after lockup.

So I think this is an IO lockup. On the other side it doesn't look like a bug in particular controller driver, because they are different for each box. And finally it doesn't look like a bug in particular io-scheduler because two of boxes were runed with "deadline" and one with "as". Of course all assumptions are valid only if all lockups I had seen have the same nature.

All of three boxes are SMP. Unfortunately all are remote and aren't attached to a serial console yet (this is planed in next couple of weeks).

1) ope

01:02.1 RAID bus controller: Mylex Corporation: Unknown device 0050 (rev 02)

elevator=deadline

.config: http://sysadminday.org.ru/2.6.1-io_lockup/ope/.config

lspci: http://sysadminday.org.ru/2.6.1-io_lockup/ope/lspci

lspci -vvn: http://sysadminday.org.ru/2.6.1-io_lockup/ope/lspci -vvn

2) white

02:04.0 RAID bus controller: American Megatrends Inc. MegaRAID (rev 02)

elevator=deadline

.config: http://sysadminday.org.ru/2.6.1-io_lockup/white/.config

lspci: http://sysadminday.org.ru/2.6.1-io_lockup/white/lspci

lspci -vvn: http://sysadminday.org.ru/2.6.1-io_lockup/white/lspci -vvn

3) tiny

02:00.0 Unknown mass storage controller: Compaq Computer Corporation Smart-2/P RAID Controller (rev 03)

03:00.0 Unknown mass storage controller: Compaq Computer Corporation Smart-2/P RAID Controller (rev 03)

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elevator=as

.config: http://sysadmin.day.org.ru/2.6.1-io_lockup/tiny/.config

lspci: http://sysadmin.day.org.ru/2.6.1-io_lockup/tiny/lspci

lspci -vvn: [http://sysadmin.day.org.ru/2.6.1-io_lockup/tiny/lspci -vvn](http://sysadmin.day.org.ru/2.6.1-io_lockup/tiny/lspci_vvn)

Any hints will be appreciated.

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Best regards,

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