Subject: IBM RAID controller re-mount lock
Posted by maximilian.csuk on Wed, 05 Aug 2009 14:35:44 GMT
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Dear OpenVZ community,

We have a system from IBM (System x3400) with an IBM ServeRAID 8K-I controller on which we are running Debian-Lenny 4.1.2-25. The kernel is openvz-kernel 2.6.26-2-openvz-686.

The containers are located on a separate ext3-partition and are mounted like this:
/dev/drbd0 on /mnt/hq-drbd-stor01 type ext3 (rw)

In particular, we experience a lockup when we try to un-mount and remount the container's partition.

The following steps work:

vzctl chkpnt 77
vzctl stop 77
/etc/init.d/openvz stop
/etc/init.d/openvz start
vzctl restore 77

But these don't work:

vzctl chkpnt 77
vzctl stop 77
/etc/init.d/openvz stop
umount /dev/drbd0
mount /dev/drbd0
/etc/init.d/openvz start
vzctl restore 77

The restore produces the lockup.

The output until it hangs:

Restoring VE ...
Starting VE ...
VE is mounted
undump...
Adding IP address(es): 10.20.60.20
Setting CPU units: 1000
Configure meminfo: 65536

Nothing more is displayed after this.
The host shows 100% CPU (system-)usage, load goes up to about 10. From our understanding,

a container's processes run inside a kernel-process on the host. The container's currently active process (as far as we can tell, it's a different one on any try) takes all the CPU from the host.

OpenVZ-version is 036test001.

We already tried changing the RAID-controller driver in use from aacraid-1.1.5.2449 to aacraid-1.1.5.2467 but without any luck.
Then we tried using USB-disks instead of the dev/drbd0 where the restore worked even after re-mounting, so the issue must lie within the RAID controller.
We also tried to run a DRBD device on two USB-disks instead of using ServeRAID attached disks this constellation also works, so we can assume that DRDB is working correctly

Is this a known issue? If yes, (how) can it be solved?
Is there a way to debug this and provide you and us with more information?

Thank you for your time.,
Maximilian Csuk
ipcenter.at

Subject: Re: IBM RAID controller re-mount lock
Posted by maratrus on Thu, 06 Aug 2009 09:00:33 GMT
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Hello,

- let's increase the verbose level of vzctl utility. In /etc/vz/vz.conf please set LOG_LEVEL and VERBOSE variables both to 10.

-
Quote:
OpenVZ-version is 036test001.

Sorry, I didn't catch this statement.

-
Quote:
openvz-kernel 2.6.26-2-openvz-686.

Do you have a chance to check the stable rhel5-2.6.18 or at least 2.6.18 kernels? I'm not sure that you do, but nevertheless ...
http://download.openvz.org/kernel/

- Are there any suspicious messages in dmesg or in logs?

-
Quote:
The host shows 100% CPU (system-)usage, load goes up to about 10. From our understanding, a

container's processes run inside a kernel-process on the host. The container's currently active process (as far as we can tell, it's a different one on any try) takes all the CPU from the host.

Do you have a chance to get the pid of the process that consumes 100% cpu? What is the output of "/proc/pid/wchan"?

-
It may be useful to gather alt-sysrq-* outputs:
alt-sysrq-
1) "m" - for memory info dump
2) "p" - for registers - several times, please, twice the number of CPUs
3) "a" - for scheduler stat - 3 times
4) "w" - another scheduler info - 3 times
5) "t" - for all processes calltraces. Warning - this is a resource consuming operation. At least - twice.

Subject: Re: IBM RAID controller re-mount lock
Posted by maximilian.csuk on Fri, 07 Aug 2009 09:07:26 GMT
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Quote: let's increase the verbose level of vzctl utility. In /etc/vz/vz.conf please set LOG_LEVEL and VERBOSE variables both to 10.
Done.

Quote: Do you have a chance to get the pid of the process that consumes 100% cpu? What is the output of "/proc/pid/wchan"?
Yes. The output is "0".

Quote:Are there any suspicious messages in dmesg or in logs?
I am not sure, but I guess not. Please have a look:
/var/log/vzctl:

2009-08-07T09:40:01+0200 vzctl : VE 77 : VE start in progress...
2009-08-07T09:40:01+0200 vzctl : VE 77 : Restoring completed succesfully
2009-08-07T09:41:28+0200 vzctl : VE 77 : Setting up checkpoint...
2009-08-07T11:41:28+0400 vzctl : VE 77 : suspend...
2009-08-07T11:41:28+0400 vzctl : VE 77 : dump...
2009-08-07T11:41:29+0400 vzctl : VE 77 : kill...
2009-08-07T09:41:29+0200 vzctl : VE 77 : Running: /usr/lib/vzctl/scripts/vps-net_del
2009-08-07T09:41:29+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota stat 77 -f
2009-08-07T09:41:29+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota off 77
2009-08-07T09:41:29+0200 vzctl : VE 77 : VE is unmounted
2009-08-07T09:41:29+0200 vzctl : VE 77 : Checkpointing completed succesfully

2009-08-07T09:41:36+0200 vzctl : VE 77 : Restoring VE ...
2009-08-07T09:41:36+0200 vzctl : VE 77 : Starting VE ...
2009-08-07T09:41:36+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota show 77
2009-08-07T09:41:36+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota on 77 -r 0 -b 1048676 -B 1153124 -i 200100 -I 220100 -e 0 -n 0 -s 0
2009-08-07T09:41:36+0200 vzctl : VE 77 : Mounting root: /var/lib/vz/root/77 /var/lib/vz/private/77
2009-08-07T09:41:36+0200 vzctl : VE 77 : VE is mounted
2009-08-07T09:41:36+0200 vzctl : VE 77 : Adding IP address(es): 10.20.60.20
2009-08-07T09:41:36+0200 vzctl : VE 77 : Running: /usr/lib/vzctl/scripts/vps-net_add
2009-08-07T09:41:38+0200 vzctl : VE 77 : Setting CPU units: 1000
2009-08-07T09:41:38+0200 vzctl : VE 77 : Configure meminfo: 65536
2009-08-07T09:41:38+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota stat 77 -f
2009-08-07T09:41:38+0200 vzctl : VE 77 : Running: vzquota setlimit 77 -b 1048576 -B 1153024 -i 200000 -I 220000 -e 0 -n 0
2009-08-07T09:41:38+0200 vzctl : VE 77 : VE start in progress...
2009-08-07T09:41:38+0200 vzctl : VE 77 : Restoring completed succesfully
2009-08-07T09:42:11+0200 vzctl : VE 77 : Setting up checkpoint...
2009-08-07T11:42:11+0400 vzctl : VE 77 : suspend...
2009-08-07T11:42:11+0400 vzctl : VE 77 : dump...
2009-08-07T11:42:11+0400 vzctl : VE 77 : kill...
2009-08-07T09:42:11+0200 vzctl : VE 77 : Running: /usr/lib/vzctl/scripts/vps-net_del
2009-08-07T09:42:11+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota stat 77 -f
2009-08-07T09:42:11+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota off 77
2009-08-07T09:42:11+0200 vzctl : VE 77 : VE is unmounted
2009-08-07T09:42:11+0200 vzctl : VE 77 : Checkpointing completed succesfully
2009-08-07T09:42:12+0200 vzctl : VE 77 : Restoring VE ...
2009-08-07T09:42:12+0200 vzctl : VE 77 : Starting VE ...
2009-08-07T09:42:12+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota show 77
2009-08-07T09:42:12+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota on 77 -r 0 -b 1048676 -B 1153124 -i 200100 -I 220100 -e 0 -n 0 -s 0
2009-08-07T09:42:12+0200 vzctl : VE 77 : Mounting root: /var/lib/vz/root/77 /var/lib/vz/private/77
2009-08-07T09:42:12+0200 vzctl : VE 77 : VE is mounted
2009-08-07T09:42:12+0200 vzctl : VE 77 : Adding IP address(es): 10.20.60.20
2009-08-07T09:42:12+0200 vzctl : VE 77 : Running: /usr/lib/vzctl/scripts/vps-net_add
2009-08-07T09:42:14+0200 vzctl : VE 77 : Setting CPU units: 1000
2009-08-07T09:42:14+0200 vzctl : VE 77 : Configure meminfo: 65536
2009-08-07T09:42:14+0200 vzctl : VE 77 : Running: /usr/sbin/vzquota stat 77 -f
2009-08-07T09:42:14+0200 vzctl : VE 77 : Running: vzquota setlimit 77 -b 1048576 -B 1153024 -i 200000 -I 220000 -e 0 -n 0

Nothing more after this...

In dmesg, shortly before the lockup, it says:
[74677.049342] CT: 77: started
But then, there are more and more messages showing that the particular pid is hanging. In this try, it was sendmail-mta, but others have been the cause too (like apache):

[75007.309371] BUG: soft lockup - CPU#3 stuck for 61s! [sendmail-mta:13227]

[75007.309371] Modules linked in: vzethdev vznetdev simfs vzrst vzcpt tun vzmon xt_tcpudp xt_length ipt_ttl xt_tcpmss xt_TCPMSS iptable_mangle iptable_filter xt_multiport xt_limit xt_dscp ipt_REJECT ip_tables x_tables vzdquota vzdev drbd cn bridge ipv6 bonding loop iTCO_wdt i2c_i801 rng_core pcspkr shpchp parport_pc parport i2c_core i5000_edac edac_core pci_hotplug container button joydev evdev ext3 jbd mbcache usbhid hid ff_memless usb_storage sg sr_mod cdrom 8139too ata_piix ata_generic libata dock ses enclosure sd_mod 8139cp mii ide_pci_generic ide_core ehci_hcd uhci_hcd usbcore tg3 e1000e aacraid scsi_mod thermal processor fan thermal_sys [last unloaded: simfs]
[75007.309371]
[75007.309371] Pid: 13227, comm: sendmail-mta Not tainted (2.6.26-2-openvz-686 #1 036test001)
[75007.309371] EIP: 0060:[<c013d31f>] EFLAGS: 00000257 CPU: 3
[75007.309371] EIP is at up_read+0x7/0xf
[75007.309371] EAX: f7996bf8 EBX: f156121c ECX: 00000000 EDX: 00000001
[75007.309371] ESI: f7996bf8 EDI: f7996bc0 EBP: 00000090 ESP: f148fc2c
[75007.309371] DS: 007b ES: 007b FS: 00d8 GS: 0033 SS: 0068
[75007.309371] CR0: 8005003b CR2: b7856000 CR3: 37c3e000 CR4: 000006f0
[75007.309371] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[75007.309371] DR6: ffff0ff0 DR7: 00000400
[75007.309371] [<c011b3f4>] ? do_page_fault+0x50e/0x8c6
[75007.309371] [<c0131599>] ? run_timer_softirq+0x30/0x1d1
[75007.309371] [<c012dff2>] ? __do_softirq+0x9b/0x14e
[75007.309371] [<c011aee6>] ? do_page_fault+0x0/0x8c6
[75007.309371] [<c02c5672>] ? error_code+0x72/0x78
[75007.309371] [<c02c00d8>] ? init_cyrix+0x168/0x46b
[75007.309371] [<c0161b69>] ? file_read_actor+0x2b/0xcc
[75007.309371] [<c016398d>] ? generic_file_aio_read+0x2e2/0x4da
[75007.309371] [<c0184346>] ? do_sync_read+0xbf/0xfe
[75007.309371] [<c013a2c4>] ? autoremove_wake_function+0x0/0x2d
[75007.309371] [<f9191224>] ? file_pread+0x3c/0x66 [vzrst]
[75007.309371] [<f9190f5d>] ? _rst_get_object+0x85/0x98 [vzrst]
[75007.309371] [<f9195d1d>] ? do_rst_mm+0x1642/0x1b40 [vzrst]
[75007.309371] [<f919634b>] ? rst_mm_complete+0x130/0x1f5 [vzrst]
[75007.309371] [<f918fe58>] ? hook+0xa13/0x19db [vzrst]
[75007.309371] [<c01db7ed>] ? cic_free_func+0x4b/0x53
[75007.309371] [<c012cd42>] ? do_exit+0x642/0x646
[75007.309371] [<c0197941>] ? mntput_no_expire+0x13/0xd2
[75007.309371] [<c01079c7>] ? __switch_to+0xa5/0x125
[75007.309371] [<c0125314>] ? schedule_tail+0x17/0x44
[75007.309371] [<c01087fa>] ? ret_from_fork+0x6/0xe
[75007.309371] [<f918f445>] ? hook+0x0/0x19db [vzrst]
[75007.309371] [<f918f445>] ? hook+0x0/0x19db [vzrst]
[75007.309371] [<c0109597>] ? kernel_thread_helper+0x7/0x10
[75007.309371] =======================

Sorry for the long output, but this is what the sysrq-calls gave me:

Output of sysrq-m:

```
[  739.006053] Show Memory
[  739.006053] Mem-info:
[  739.006053] DMA per-cpu:
[  739.006053] CPU    0: hi:    0, btch:   1 usd:   0
[  739.006053] CPU    1: hi:    0, btch:   1 usd:   0
[  739.006053] CPU    2: hi:    0, btch:   1 usd:   0
[  739.006053] CPU    3: hi:    0, btch:   1 usd:   0
[  739.006053] Normal per-cpu:
[  739.006053] CPU    0: hi:  186, btch:  31 usd: 132
[  739.006053] CPU    1: hi:  186, btch:  31 usd:  55
[  739.006053] CPU    2: hi:  186, btch:  31 usd: 156
[  739.006053] CPU    3: hi:  186, btch:  31 usd:  88
[  739.006053] HighMem per-cpu:
[  739.006053] CPU    0: hi:  186, btch:  31 usd: 156
[  739.006053] CPU    1: hi:  186, btch:  31 usd:  64
[  739.006053] CPU    2: hi:  186, btch:  31 usd: 112
[  739.006053] CPU    3: hi:  186, btch:  31 usd:  41
[  739.006053] Active:7699 inactive:4989 dirty:53 writeback:0 unstable:0
[  739.006053]  free:1535325 slab:2934 mapped:1615 pagetables:136 bounce:0
[  739.006053] DMA free:12852kB min:68kB low:84kB high:100kB active:0kB inactive:0kB
present:16240kB pages_scanned:0 all_unreclaimable? no
[  739.006053] lowmem_reserve[]: 0 872 7089 7089
[  739.006053] Normal free:798948kB min:3740kB low:4672kB high:5608kB active:12220kB
inactive:5760kB present:893200kB pages_scanned:0 all_unreclaimable? no
[  739.006053] lowmem_reserve[]: 0 0 49735 49735
[  739.006053] HighMem free:5329500kB min:512kB low:7180kB high:13852kB active:18576kB
inactive:14196kB present:6366080kB pages_scanned:0 all_unreclaimable? no
[  739.006053] lowmem_reserve[]: 0 0 0 0
[  739.006053] DMA: 3*4kB 3*8kB 5*16kB 2*32kB 4*64kB 3*128kB 1*256kB 1*512kB 1*1024kB
1*2048kB 2*4096kB = 12852kB
[  739.006053] Normal: 107*4kB 315*8kB 236*16kB 170*32kB 91*64kB 47*128kB 25*256kB
7*512kB 5*1024kB 7*2048kB 182*4096kB = 798916kB
[  739.006053] HighMem: 3*4kB 19*8kB 41*16kB 112*32kB 83*64kB 44*128kB 12*256kB
5*512kB 2*1024kB 3*2048kB 1294*4096kB = 5329396kB
[  739.006053] 10767 total pagecache pages
[  739.006053] Swap cache: add 0, delete 0, find 0/0
[  739.006053] Free swap  = 979956kB
[  739.006053] Total swap = 979956kB
[  739.024690] 1835008 pages of RAM
[  739.024690] 1605632 pages of HIGHMEM
[  739.024690] 279573 reserved pages
[  739.024690] 10533 pages shared
[  739.024690] 0 pages swap cached
[  739.024690] 53 pages dirty
[  739.024690] 0 pages writeback
[  739.024690] 1615 pages mapped
```

```
[  739.024690] 2934 pages slab
[  739.024690] 136 pages pagetables
[  739.024690] Top 10 caches:
[  739.024690] ext3_inode_cache     : size     461760 objsize        512
[  739.024690] sysfs_dir_cache      : size     434176 objsize         44
[  739.024690] radix_tree_node      : size     413696 objsize        288
[  739.024690] filp                 : size     450560 objsize        192
[  739.024690] shmem_inode_cache    : size     552960 objsize        468
[  739.024690] inode_cache          : size     688128 objsize        360
[  739.024690] size-2048            : size    2878720 objsize       2048
[  739.024690] size-512             : size     540800 objsize        512
[  739.024690] size-64              : size     524288 objsize         64
[  739.024690] dentry               : size     774144 objsize        144
```

Output sysrg-p:

```
[  961.824746] Show Regs
[  961.825125] ----------- IPI show regs -----------
[  961.825125] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[  961.825125] EIP: 0060:[<c01079c7>] EFLAGS: 00000046 CPU: 1
[  961.825125] EIP is at __switch_to+0xa5/0x125
[  961.825125] EAX: 00000000 EBX: f796ae60 ECX: 00000018 EDX: 00000000
[  961.825125] ESI: 00000001 EDI: c4f21c80 EBP: f796ac10 ESP: f5cd7eac
[  961.825125]  DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[  961.825125] CR0: 8005003b CR2: b7f8c000 CR3: 379f8000 CR4: 000006f0
[  961.825125] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[  961.825125] DR6: ffff0ff0 DR7: 00000400
[  961.825125]  [<c02c4058>] ? schedule+0x7a6/0x886
[  961.825125]  [<c012a9fc>] ? do_syslog+0x129/0x493
[  961.825125]  [<c013a2c4>] ? autoremove_wake_function+0x0/0x2d
[  961.825125]  [<c01ba565>] ? kmsg_read+0x0/0x36
[  961.825125]  [<c01b311d>] ? proc_reg_read+0x58/0x6b
[  961.825125]  [<c01b30c5>] ? proc_reg_read+0x0/0x6b
[  961.825125]  [<c0184abf>] ? vfs_read+0x81/0x11e
[  961.825125]  [<c0184f53>] ? sys_read+0x3c/0xa2
[  961.825125]  [<c0108972>] ? syscall_call+0x7/0xb
[  961.825125]  =======================
[  961.825130] ----------- IPI show regs -----------
[  961.825130] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[  961.825130] EIP: 0060:[<c010df2a>] EFLAGS: 00000246 CPU: 2
[  961.825130] EIP is at mwait_idle+0x2f/0x3d
[  961.825130] EAX: 00000000 EBX: c010defb ECX: 00000000 EDX: 00000000
[  961.825130] ESI: 00000002 EDI: 00000000 EBP: 00000000 ESP: f749ffac
[  961.825130]  DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[  961.825130] CR0: 8005003b CR2: b7f413b0 CR3: 35cb9000 CR4: 000006f0
[  961.825130] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[  961.825130] DR6: ffff0ff0 DR7: 00000400
```

[961.825130] [<c0107627>] cpu_idle+0xab/0xcb
[961.825130] =======================
[961.824745] ----------- IPI show regs -----------
[961.824745] Pid: 4094, comm: syslogd Not tainted (2.6.26-2-openvz-686 #1 036test001)
[961.824745] EIP: 0060:[<c02c55f8>] EFLAGS: 00000046 CPU: 3
[961.824745] EIP is at __kprobes_text_start+0x0/0x8
[961.824745] EAX: 00000b90 EBX: 00000000 ECX: b7dfc000 EDX: 00002000
[961.824745] ESI: c4e684f4 EDI: f4d7dd28 EBP: 00000b90 ESP: f4d7dcb8
[961.824745] DS: 007b ES: 007b FS: 00d8 GS: 0033 SS: 0068
[961.824745] CR0: 8005003b CR2: b7dfc000 CR3: 37904000 CR4: 000006f0
[961.824745] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[961.824745] DR6: ffff0ff0 DR7: 00000400
[961.824745] [<c0161b69>] ? file_read_actor+0x2b/0xcc
[961.824745] [<c016398d>] ? generic_file_aio_read+0x2e2/0x4da
[961.824745] [<c0184346>] ? do_sync_read+0xbf/0xfe
[961.824745] [<c013a2c4>] ? autoremove_wake_function+0x0/0x2d
[961.824745] [<f919f224>] ? file_pread+0x3c/0x66 [vzrst]
[961.824745] [<f919ef5d>] ? _rst_get_object+0x85/0x98 [vzrst]
[961.824745] [<f91a3d1d>] ? do_rst_mm+0x1642/0x1b40 [vzrst]
[961.824745] [<f91a434b>] ? rst_mm_complete+0x130/0x1f5 [vzrst]
[961.824745] [<f919de58>] ? hook+0xa13/0x19db [vzrst]
[961.824745] [<c01db7ed>] ? cic_free_func+0x4b/0x53
[961.824745] [<c012cd42>] ? do_exit+0x642/0x646
[961.824745] [<c01079c7>] ? __switch_to+0xa5/0x125
[961.824745] [<c0125314>] ? schedule_tail+0x17/0x44
[961.824745] [<c01087fa>] ? ret_from_fork+0x6/0xe
[961.824745] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[961.824745] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[961.824745] [<c0109597>] ? kernel_thread_helper+0x7/0x10
[961.824745] =======================

[1044.357052] Show Regs
[1044.357052] ----------- IPI show regs -----------
[1044.357052] Pid: 4094, comm: syslogd Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1044.357052] EIP: 0060:[<c02c55f8>] EFLAGS: 00000046 CPU: 3
[1044.357052] EIP is at __kprobes_text_start+0x0/0x8
[1044.357052] EAX: 00000b90 EBX: 00000000 ECX: b7dfc000 EDX: 00002000
[1044.357052] ESI: c4e684f4 EDI: f4d7dd28 EBP: 00000b90 ESP: f4d7dcb8
[1044.357052] DS: 007b ES: 007b FS: 00d8 GS: 0033 SS: 0068
[1044.357052] CR0: 8005003b CR2: b7dfc000 CR3: 37904000 CR4: 000006f0
[1044.357052] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1044.357052] DR6: ffff0ff0 DR7: 00000400
[1044.357052] [<c0161b69>] ? file_read_actor+0x2b/0xcc
[1044.357052] [<c016398d>] ? generic_file_aio_read+0x2e2/0x4da
[1044.357052] [<c0184346>] ? do_sync_read+0xbf/0xfe
[1044.357052] [<c013a2c4>] ? autoremove_wake_function+0x0/0x2d

[1044.357052] [<f919f224>] ? file_pread+0x3c/0x66 [vzrst]
[1044.357052] [<f919ef5d>] ? _rst_get_object+0x85/0x98 [vzrst]
[1044.357052] [<f91a3d1d>] ? do_rst_mm+0x1642/0x1b40 [vzrst]
[1044.357052] [<f91a434b>] ? rst_mm_complete+0x130/0x1f5 [vzrst]
[1044.357052] [<f919de58>] ? hook+0xa13/0x19db [vzrst]
[1044.357052] [<c01db7ed>] ? cic_free_func+0x4b/0x53
[1044.357052] [<c012cd42>] ? do_exit+0x642/0x646
[1044.357052] [<c01079c7>] ? __switch_to+0xa5/0x125
[1044.357052] [<c0125314>] ? schedule_tail+0x17/0x44
[1044.357052] [<c01087fa>] ? ret_from_fork+0x6/0xe
[1044.357052] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[1044.357052] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[1044.357052] [<c0109597>] ? kernel_thread_helper+0x7/0x10
[1044.357052] =======================
[1044.357361] ----------- IPI show regs -----------
[1044.357361] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1044.357361] EIP: 0060:[<c010df2a>] EFLAGS: 00000246 CPU: 2
[1044.357361] EIP is at mwait_idle+0x2f/0x3d
[1044.357361] EAX: 00000000 EBX: c010defb ECX: 00000000 EDX: 00000000
[1044.357361] ESI: 00000002 EDI: 00000000 EBP: 00000000 ESP: f749ffac
[1044.357361] DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[1044.357361] CR0: 8005003b CR2: b7be9195 CR3: 379f4000 CR4: 000006f0
[1044.357361] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1044.357361] DR6: ffff0ff0 DR7: 00000400
[1044.357361] [<c0107627>] cpu_idle+0xab/0xcb
[1044.357361] =======================
[1044.357361] ----------- IPI show regs -----------
[1044.357361] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1044.357361] EIP: 0060:[<c02c3f82>] EFLAGS: 00000003 CPU: 1
[1044.357361] EIP is at schedule+0x6d0/0x886
[1044.357361] EAX: c03cb040 EBX: f796ac10 ECX: 00000001 EDX: fc303755
[1044.357361] ESI: f5cfcd80 EDI: f5c17540 EBP: f748ce70 ESP: f7493f58
[1044.357361] DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[1044.357361] CR0: 8005003b CR2: b7f1c4e0 CR3: 379f4000 CR4: 000006f0
[1044.357361] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1044.357361] DR6: ffff0ff0 DR7: 00000400
[1044.357361] [<c013eb18>] ? getnstimeofday+0x37/0xbc
[1044.357361] [<c013cfac>] ? ktime_get+0xd/0x21
[1044.357361] [<c01421d8>] ? tick_nohz_stop_idle+0x19/0x45
[1044.357361] [<c01427fb>] ? tick_nohz_restart_sched_tick+0x28/0x11c
[1044.357361] [<c010defb>] ? mwait_idle+0x0/0x3d
[1044.357361] [<c0107642>] ? cpu_idle+0xc6/0xcb
[1044.357361] =======================

[1099.329424] Show Regs
[1099.325423] ----------- IPI show regs -----------

[1099.325423] Pid: 4094, comm: syslogd Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1099.325423] EIP: 0060:[<c02c55f8>] EFLAGS: 00000046 CPU: 3
[1099.325423] EIP is at __kprobes_text_start+0x0/0x8
[1099.325423] EAX: 00000b90 EBX: 00000000 ECX: b7dfc000 EDX: 00002000
[1099.325423] ESI: c4e684f4 EDI: f4d7dd28 EBP: 00000b90 ESP: f4d7dcb8
[1099.325423] DS: 007b ES: 007b FS: 00d8 GS: 0033 SS: 0068
[1099.325423] CR0: 8005003b CR2: b7dfc000 CR3: 37904000 CR4: 000006f0
[1099.325423] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1099.325423] DR6: ffff0ff0 DR7: 00000400
[1099.325423] [<c0161b69>] ? file_read_actor+0x2b/0xcc
[1099.325423] [<c016398d>] ? generic_file_aio_read+0x2e2/0x4da
[1099.325423] [<c0184346>] ? do_sync_read+0xbf/0xfe
[1099.325423] [<c013a2c4>] ? autoremove_wake_function+0x0/0x2d
[1099.325423] [<f919f224>] ? file_pread+0x3c/0x66 [vzrst]
[1099.325423] [<f919ef5d>] ? _rst_get_object+0x85/0x98 [vzrst]
[1099.325423] [<f91a3d1d>] ? do_rst_mm+0x1642/0x1b40 [vzrst]
[1099.325423] [<f91a434b>] ? rst_mm_complete+0x130/0x1f5 [vzrst]
[1099.325423] [<f919de58>] ? hook+0xa13/0x19db [vzrst]
[1099.325423] [<c01db7ed>] ? cic_free_func+0x4b/0x53
[1099.325423] [<c012cd42>] ? do_exit+0x642/0x646
[1099.325424] [<c01079c7>] ? __switch_to+0xa5/0x125
[1099.325424] [<c0125314>] ? schedule_tail+0x17/0x44
[1099.325424] [<c01087fa>] ? ret_from_fork+0x6/0xe
[1099.325424] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[1099.325424] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[1099.325424] [<c0109597>] ? kernel_thread_helper+0x7/0x10
[1099.325424] =======================
[1099.329424] ----------- IPI show regs -----------
[1099.329424] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1099.329424] EIP: 0060:[<c010df2a>] EFLAGS: 00000246 CPU: 2
[1099.329424] EIP is at mwait_idle+0x2f/0x3d
[1099.329424] EAX: 00000000 EBX: c010defb ECX: 00000000 EDX: 00000000
[1099.329424] ESI: 00000002 EDI: 00000000 EBP: 00000000 ESP: f749ffac
[1099.329424] DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[1099.329424] CR0: 8005003b CR2: b7f75000 CR3: 35cb9000 CR4: 000006f0
[1099.329424] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1099.329424] DR6: ffff0ff0 DR7: 00000400
[1099.329424] [<c0107627>] cpu_idle+0xab/0xcb
[1099.329424] =======================
[1099.329424] ----------- IPI show regs -----------
[1099.329429] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1099.329432] EIP: 0060:[<c011fbb0>] EFLAGS: 00000092 CPU: 1
[1099.329438] EIP is at hrtick_start_fair+0x1e/0x12c
[1099.329440] EAX: f748ce70 EBX: 00000000 ECX: f796ac38 EDX: f5cd6000
[1099.329443] ESI: f796ac10 EDI: c4f23fa0 EBP: f796ac38 ESP: f7493f2c
[1099.329446] DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[1099.329448] CR0: 8005003b CR2: b7f4b1c0 CR3: 379f8000 CR4: 000006f0
[1099.329451] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000

[1099.329454] DR6: ffff0ff0 DR7: 00000400
[1099.329467] [<c0120f8e>] ? pick_next_task_fair+0x4d/0x53
[1099.329473] [<c02c3bda>] ? schedule+0x328/0x886
[1099.329478] [<c013eb18>] ? getnstimeofday+0x37/0xbc
[1099.329484] [<c013cf78>] ? ktime_get_ts+0x22/0x49
[1099.329489] [<c013cfac>] ? ktime_get+0xd/0x21
[1099.329494] [<c01421d8>] ? tick_nohz_stop_idle+0x19/0x45
[1099.329500] [<c01427fb>] ? tick_nohz_restart_sched_tick+0x28/0x11c
[1099.329505] [<c010defb>] ? mwait_idle+0x0/0x3d
[1099.329511] [<c0107642>] ? cpu_idle+0xc6/0xcb
[1099.329520] =======================

[1911.608858] Show Regs
[1911.608858] ----------- IPI show regs -----------
[1911.608858] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1911.608858] EIP: 0060:[<c010df2a>] EFLAGS: 00000246 CPU: 2
[1911.608858] EIP is at mwait_idle+0x2f/0x3d
[1911.608858] EAX: 00000000 EBX: c010defb ECX: 00000000 EDX: 00000000
[1911.608858] ESI: 00000002 EDI: 00000000 EBP: 00000000 ESP: f749ffac
[1911.608858] DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[1911.608858] CR0: 8005003b CR2: b7f413b0 CR3: 35cb9000 CR4: 000006f0
[1911.608858] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1911.608858] DR6: ffff0ff0 DR7: 00000400
[1911.608858] [<c0107627>] cpu_idle+0xab/0xcb
[1911.608858] =======================
[1911.607256] ----------- IPI show regs -----------
[1911.607256] Pid: 4222, comm: sendmail-mta Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1911.607256] EIP: 0060:[<c02c55f8>] EFLAGS: 00000046 CPU: 3
[1911.607256] EIP is at __kprobes_text_start+0x0/0x8
[1911.607256] EAX: 00000ec0 EBX: 00000000 ECX: b7857000 EDX: 00001000
[1911.607256] ESI: c4e92c2c EDI: f4859d28 EBP: 00000ec0 ESP: f4859cb8
[1911.607256] DS: 007b ES: 007b FS: 00d8 GS: 0033 SS: 0068
[1911.607256] CR0: 8005003b CR2: b7857000 CR3: 378bc000 CR4: 000006f0
[1911.607257] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1911.607257] DR6: ffff0ff0 DR7: 00000400
[1911.607257] [<c0161b69>] ? file_read_actor+0x2b/0xcc
[1911.607257] [<c016398d>] ? generic_file_aio_read+0x2e2/0x4da
[1911.607257] [<c0184346>] ? do_sync_read+0xbf/0xfe
[1911.607257] [<c013a2c4>] ? autoremove_wake_function+0x0/0x2d
[1911.607257] [<f919f224>] ? file_pread+0x3c/0x66 [vzrst]
[1911.607257] [<f919ef5d>] ? _rst_get_object+0x85/0x98 [vzrst]
[1911.607257] [<f91a3d1d>] ? do_rst_mm+0x1642/0x1b40 [vzrst]
[1911.607257] [<f91a434b>] ? rst_mm_complete+0x130/0x1f5 [vzrst]
[1911.607257] [<f919de58>] ? hook+0xa13/0x19db [vzrst]
[1911.607257] [<c01079c7>] ? __switch_to+0xa5/0x125
[1911.607257] [<c0125314>] ? schedule_tail+0x17/0x44

[1911.607257] [<c01087fa>] ? ret_from_fork+0x6/0xe
[1911.607257] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[1911.607257] [<f919d445>] ? hook+0x0/0x19db [vzrst]
[1911.607257] [<c0109597>] ? kernel_thread_helper+0x7/0x10
[1911.607257] =======================
[1911.608858] ----------- IPI show regs -----------
[1911.608858] Pid: 0, comm: swapper Not tainted (2.6.26-2-openvz-686 #1 036test001)
[1911.608858] EIP: 0060:[<c02c3fae>] EFLAGS: 00000007 CPU: 1
[1911.608858] EIP is at schedule+0x6fc/0x886
[1911.608858] EAX: 379f8000 EBX: f796ac10 ECX: 00000001 EDX: c4f20040
[1911.608858] ESI: f5c171c0 EDI: f5c17540 EBP: f748ce70 ESP: f7493f58
[1911.608858] DS: 007b ES: 007b FS: 00d8 GS: 0000 SS: 0068
[1911.608858] CR0: 8005003b CR2: b7f8c000 CR3: 379f8000 CR4: 000006f0
[1911.608858] DR0: 00000000 DR1: 00000000 DR2: 00000000 DR3: 00000000
[1911.608858] DR6: ffff0ff0 DR7: 00000400
[1911.608858] [<c013eb18>] ? getnstimeofday+0x37/0xbc
[1911.608858] [<c013cfac>] ? ktime_get+0xd/0x21
[1911.608858] [<c01421d8>] ? tick_nohz_stop_idle+0x19/0x45
[1911.608858] [<c01427fb>] ? tick_nohz_restart_sched_tick+0x28/0x11c
[1911.608858] [<c010defb>] ? mwait_idle+0x0/0x3d
[1911.608858] [<c0107642>] ? cpu_idle+0xc6/0xcb
[1911.608858] =======================

Sysrq-a (3 times):

[1966.916085] SysRq HELP : loglevel0-8 reBoot Crashdump tErm Full debuG kIll saK aLlcpus showMem Nice powerOff showPc show-all-timers(Q) unRaw Sync showTasks Unmount shoW-blocked-tasks
[2528.787849] SysRq HELP : loglevel0-8 reBoot Crashdump tErm Full debuG kIll saK aLlcpus showMem Nice powerOff showPc show-all-timers(Q) unRaw Sync showTasks Unmount shoW-blocked-tasks
[2530.345032] SysRq HELP : loglevel0-8 reBoot Crashdump tErm Full debuG kIll saK aLlcpus showMem Nice powerOff showPc show-all-timers(Q) unRaw Sync showTasks Unmount shoW-blocked-tasks

Sysrq-w:

Sched Debug Version: v0.07, 2.6.26-2-openvz-686 #1
[2065.319754] now at 1932715.499105 msecs
[2065.319754]   .sysctl_sched_latency   : 60.000000
[2065.319754]   .sysctl_sched_min_granularity   : 12.000000
[2065.319754]   .sysctl_sched_wakeup_granularity   : 30.000000
[2065.319754]   .sysctl_sched_child_runs_first   : 0.000001
[2065.319754]   .sysctl_sched_features   : 895
[2065.319754]
[2065.319754] cpu#0, 2327.615 MHz

```
[ 2065.319754]   .nr_running                : 1
[ 2065.319754]   .load                      : 1024
[ 2065.319754]   .nr_switches               : 157692
[ 2065.319754]   .nr_load_updates           : 368147
[ 2065.319754]   .nr_uninterruptible        : 4294967286
[ 2065.319754]   .jiffies                   : 408179
[ 2065.319754]   .next_balance              : 0.408179
[ 2065.319754]   .curr->pid                 : 4097
[ 2065.319754]   .clock                     : 1932716.006896
[ 2065.319754]   .cpu_load[0]               : 0
[ 2065.319754]   .cpu_load[1]               : 0
[ 2065.319754]   .cpu_load[2]               : 0
[ 2065.319754]   .cpu_load[3]               : 0
[ 2065.319754]   .cpu_load[4]               : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[0]:
[ 2065.319754]   .exec_clock                : 0.000000
[ 2065.319754]   .MIN_vruntime              : 0.000001
[ 2065.319754]   .min_vruntime              : 22937.847487
[ 2065.319754]   .max_vruntime              : 0.000001
[ 2065.319754]   .spread                    : 0.000000
[ 2065.319754]   .spread0                   : 0.000000
[ 2065.319754]   .nr_running                : 0
[ 2065.319754]   .load                      : 0
[ 2065.319754]   .nr_spread_over            : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[0]:
[ 2065.319754]   .exec_clock                : 0.000000
[ 2065.319754]   .MIN_vruntime              : 0.000001
[ 2065.319754]   .min_vruntime              : 22937.847487
[ 2065.319754]   .max_vruntime              : 0.000001
[ 2065.319754]   .spread                    : 0.000000
[ 2065.319754]   .spread0                   : 0.000000
[ 2065.319754]   .nr_running                : 1
[ 2065.319754]   .load                      : 1024
[ 2065.319754]   .nr_spread_over            : 0
[ 2065.319754]
[ 2065.319754] runnable tasks:
[ 2065.319754]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2065.319754] ----------------------------------------------------------------------------------------------------------
[ 2065.319754] R          bash  4097     22879.611338       205   120             0             0
0.000000             0.000000             0.000000
[ 2065.319754]
[ 2065.319754] cpu#1, 2327.615 MHz
[ 2065.319754]   .nr_running                : 2
[ 2065.319754]   .load                      : 2048
[ 2065.319754]   .nr_switches               : 155809
```

```
[ 2065.319754]   .nr_load_updates              : 351066
[ 2065.319754]   .nr_uninterruptible           : 1259
[ 2065.319754]   .jiffies                      : 408179
[ 2065.319754]   .next_balance                 : 0.408179
[ 2065.319754]   .curr->pid                    : 2754
[ 2065.319754]   .clock                        : 1932716.506691
[ 2065.319754]   .cpu_load[0]                  : 0
[ 2065.319754]   .cpu_load[1]                  : 0
[ 2065.319754]   .cpu_load[2]                  : 0
[ 2065.319754]   .cpu_load[3]                  : 0
[ 2065.319754]   .cpu_load[4]                  : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[1]:
[ 2065.319754]   .exec_clock                   : 0.000000
[ 2065.319754]   .MIN_vruntime                 : 0.000001
[ 2065.319754]   .min_vruntime                 : 35218.302793
[ 2065.319754]   .max_vruntime                 : 0.000001
[ 2065.319754]   .spread                       : 0.000000
[ 2065.319754]   .spread0                      : 12280.455306
[ 2065.319754]   .nr_running                   : 0
[ 2065.319754]   .load                         : 0
[ 2065.319754]   .nr_spread_over               : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[1]:
[ 2065.319754]   .exec_clock                   : 0.000000
[ 2065.319754]   .MIN_vruntime                 : 35158.302793
[ 2065.319754]   .min_vruntime                 : 35218.302793
[ 2065.319754]   .max_vruntime                 : 35158.302793
[ 2065.319754]   .spread                       : 0.000000
[ 2065.319754]   .spread0                      : 12280.455306
[ 2065.319754]   .nr_running                   : 2
[ 2065.319754]   .load                         : 2048
[ 2065.319754]   .nr_spread_over               : 0
[ 2065.319754]
[ 2065.319754] runnable tasks:
[ 2065.319754]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2065.319754] ------------------------------------------------------------------------------------------------------
[ 2065.319754] R       rsyslogd  2754     35158.302794       649   120             0             0
0.000000             0.000000             0.000000
[ 2065.319754]         rsyslogd  4254     35158.302793       484   120             0             0
0.000000             0.000000             0.000000
[ 2065.319754]
[ 2065.319754] cpu#2, 2327.615 MHz
[ 2065.319754]   .nr_running                   : 0
[ 2065.319754]   .load                         : 0
[ 2065.319754]   .nr_switches                  : 115926
[ 2065.319754]   .nr_load_updates              : 358812
```

```
[ 2065.319754]   .nr_uninterruptible          : 4294965985
[ 2065.319754]   .jiffies                     : 408179
[ 2065.319754]   .next_balance                : 0.408179
[ 2065.319754]   .curr->pid                   : 0
[ 2065.319754]   .clock                       : 1932717.001283
[ 2065.319754]   .cpu_load[0]                 : 0
[ 2065.319754]   .cpu_load[1]                 : 0
[ 2065.319754]   .cpu_load[2]                 : 0
[ 2065.319754]   .cpu_load[3]                 : 0
[ 2065.319754]   .cpu_load[4]                 : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[2]:
[ 2065.319754]   .exec_clock                  : 0.000000
[ 2065.319754]   .MIN_vruntime                : 0.000001
[ 2065.319754]   .min_vruntime                : 15277.589318
[ 2065.319754]   .max_vruntime                : 0.000001
[ 2065.319754]   .spread                      : 0.000000
[ 2065.319754]   .spread0                     : -7660.258169
[ 2065.319754]   .nr_running                  : 0
[ 2065.319754]   .load                        : 0
[ 2065.319754]   .nr_spread_over              : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[2]:
[ 2065.319754]   .exec_clock                  : 0.000000
[ 2065.319754]   .MIN_vruntime                : 0.000001
[ 2065.319754]   .min_vruntime                : 15277.589318
[ 2065.319754]   .max_vruntime                : 0.000001
[ 2065.319754]   .spread                      : 0.000000
[ 2065.319754]   .spread0                     : -7660.258169
[ 2065.319754]   .nr_running                  : 0
[ 2065.319754]   .load                        : 0
[ 2065.319754]   .nr_spread_over              : 0
[ 2065.319754]
[ 2065.319754] runnable tasks:
[ 2065.319754]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2065.319754] ------------------------------------------------------------------------------------------------------
[ 2065.319754]
[ 2065.319754] cpu#3, 2327.615 MHz
[ 2065.319754]   .nr_running                  : 4
[ 2065.319754]   .load                        : 184788
[ 2065.319754]   .nr_switches                 : 35136
[ 2065.319754]   .nr_load_updates             : 361726
[ 2065.319754]   .nr_uninterruptible          : 66
[ 2065.319754]   .jiffies                     : 408179
[ 2065.319754]   .next_balance                : 0.408188
[ 2065.319754]   .curr->pid                   : 4222
[ 2065.319754]   .clock                       : 1932717.502539
```

```
[ 2065.319754]   .cpu_load[0]                : 184788
[ 2065.319754]   .cpu_load[1]                : 184788
[ 2065.319754]   .cpu_load[2]                : 184788
[ 2065.319754]   .cpu_load[3]                : 184788
[ 2065.319754]   .cpu_load[4]                : 184788
[ 2065.319754]
[ 2065.319754] cfs_rq[3]:
[ 2065.319754]   .exec_clock                 : 0.000000
[ 2065.319754]   .MIN_vruntime               : 0.000001
[ 2065.319754]   .min_vruntime               : 874283.510611
[ 2065.319754]   .max_vruntime               : 0.000001
[ 2065.319754]   .spread                     : 0.000000
[ 2065.319754]   .spread0                    : 851345.663124
[ 2065.319754]   .nr_running                 : 1
[ 2065.319754]   .load                       : 1024
[ 2065.319754]   .nr_spread_over             : 0
[ 2065.319754]
[ 2065.319754] cfs_rq[3]:
[ 2065.319754]   .exec_clock                 : 0.000000
[ 2065.319754]   .MIN_vruntime               : 874163.510611
[ 2065.319754]   .min_vruntime               : 874283.510611
[ 2065.319754]   .max_vruntime               : 874223.510611
[ 2065.319754]   .spread                     : 60.000000
[ 2065.319754]   .spread0                    : 851345.663124
[ 2065.319754]   .nr_running                 : 3
[ 2065.319754]   .load                       : 7266
[ 2065.319754]   .nr_spread_over             : 0
[ 2065.319754]
[ 2065.319754] runnable tasks:
[ 2065.319754]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2065.319754] ------------------------------------------------------------------------------------------------------
[ 2065.319754]      watchdog/3    14        -4.329575         3     0             0             0
0.000000             0.000000             0.000000
[ 2065.319754]        events/3    18    874223.510611       738   115             0             0
0.000000             0.000000             0.000000
[ 2065.319754]       kblockd/3    57    874163.510611        36   115             0             0
0.000000             0.000000             0.000000
[ 2065.319754] R   sendmail-mta  4222   1430610.256048         4   120             0             0
    0.000000             0.000000             0.000000
[ 2065.319754]



[ 2574.805414] Sched Debug Version: v0.07, 2.6.26-2-openvz-686 #1
[ 2574.805414] now at 2441403.983109 msecs
[ 2574.805414]   .sysctl_sched_latency                : 60.000000
[ 2574.805414]   .sysctl_sched_min_granularity          : 12.000000
```

```
[ 2574.805414]   .sysctl_sched_wakeup_granularity        : 30.000000
[ 2574.805414]   .sysctl_sched_child_runs_first          : 0.000001
[ 2574.805414]   .sysctl_sched_features                  : 895
[ 2574.805414]
[ 2574.805414] cpu#0, 2327.615 MHz
[ 2574.805414]   .nr_running                  : 2
[ 2574.805414]   .load                        : 2048
[ 2574.805414]   .nr_switches                 : 237719
[ 2574.805414]   .nr_load_updates             : 495313
[ 2574.805414]   .nr_uninterruptible          : 17
[ 2574.805414]   .jiffies                     : 535351
[ 2574.805414]   .next_balance                : 0.535351
[ 2574.805414]   .curr->pid                   : 4097
[ 2574.805414]   .clock                       : 2441404.006918
[ 2574.805414]   .cpu_load[0]                 : 0
[ 2574.805414]   .cpu_load[1]                 : 0
[ 2574.805414]   .cpu_load[2]                 : 0
[ 2574.805414]   .cpu_load[3]                 : 0
[ 2574.805414]   .cpu_load[4]                 : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[0]:
[ 2574.805414]   .exec_clock                  : 0.000000
[ 2574.805414]   .MIN_vruntime                : 0.000001
[ 2574.805414]   .min_vruntime                : 25591.135747
[ 2574.805414]   .max_vruntime                : 0.000001
[ 2574.805414]   .spread                      : 0.000000
[ 2574.805414]   .spread0                     : 0.000000
[ 2574.805414]   .nr_running                  : 0
[ 2574.805414]   .load                        : 0
[ 2574.805414]   .nr_spread_over              : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[0]:
[ 2574.805414]   .exec_clock                  : 0.000000
[ 2574.805414]   .MIN_vruntime                : 25531.135781
[ 2574.805414]   .min_vruntime                : 25591.135747
[ 2574.805414]   .max_vruntime                : 25531.135781
[ 2574.805414]   .spread                      : 0.000000
[ 2574.805414]   .spread0                     : 0.000000
[ 2574.805414]   .nr_running                  : 2
[ 2574.805414]   .load                        : 2048
[ 2574.805414]   .nr_spread_over              : 0
[ 2574.805414]
[ 2574.805414] runnable tasks:
[ 2574.805414]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2574.805414] ----------------------------------------------------------------------------------------------------------
[ 2574.805414]        rsyslogd  4363     25531.135781        5   120             0             0
0.000000             0.000000             0.000000
```

```
[ 2574.805414] R          bash  4097     25531.135762       262   120           0           0
0.000000           0.000000           0.000000
[ 2574.805414]
[ 2574.805414] cpu#1, 2327.615 MHz
[ 2574.805414]   .nr_running                : 1
[ 2574.805414]   .load                      : 1024
[ 2574.805414]   .nr_switches               : 229295
[ 2574.805414]   .nr_load_updates           : 478238
[ 2574.805414]   .nr_uninterruptible        : 2262
[ 2574.805414]   .jiffies                   : 535351
[ 2574.805414]   .next_balance              : 0.535352
[ 2574.805414]   .curr->pid                 : 2754
[ 2574.805414]   .clock                     : 2441404.506646
[ 2574.805414]   .cpu_load[0]               : 0
[ 2574.805414]   .cpu_load[1]               : 0
[ 2574.805414]   .cpu_load[2]               : 0
[ 2574.805414]   .cpu_load[3]               : 0
[ 2574.805414]   .cpu_load[4]               : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[1]:
[ 2574.805414]   .exec_clock                : 0.000000
[ 2574.805414]   .MIN_vruntime              : 0.000001
[ 2574.805414]   .min_vruntime              : 36700.432858
[ 2574.805414]   .max_vruntime              : 0.000001
[ 2574.805414]   .spread                    : 0.000000
[ 2574.805414]   .spread0                   : 11109.297111
[ 2574.805414]   .nr_running                : 0
[ 2574.805414]   .load                      : 0
[ 2574.805414]   .nr_spread_over            : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[1]:
[ 2574.805414]   .exec_clock                : 0.000000
[ 2574.805414]   .MIN_vruntime              : 0.000001
[ 2574.805414]   .min_vruntime              : 36700.432858
[ 2574.805414]   .max_vruntime              : 0.000001
[ 2574.805414]   .spread                    : 0.000000
[ 2574.805414]   .spread0                   : 11109.297111
[ 2574.805414]   .nr_running                : 1
[ 2574.805414]   .load                      : 1024
[ 2574.805414]   .nr_spread_over            : 0
[ 2574.805414]
[ 2574.805414] runnable tasks:
[ 2574.805414]            task   PID       tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2574.805414] ----------------------------------------------------------------------------------------------------------
[ 2574.805414] R      rsyslogd  2754     36640.432859       710   120           0           0
0.000000           0.000000           0.000000
[ 2574.805414]
```

```
[ 2574.805414] cpu#2, 2327.615 MHz
[ 2574.805414]   .nr_running                : 0
[ 2574.805414]   .load                      : 0
[ 2574.805414]   .nr_switches               : 180593
[ 2574.805414]   .nr_load_updates           : 485984
[ 2574.805414]   .nr_uninterruptible        : 4294964955
[ 2574.805414]   .jiffies                   : 535351
[ 2574.805414]   .next_balance              : 0.535351
[ 2574.805414]   .curr->pid                 : 0
[ 2574.805414]   .clock                     : 2441401.001475
[ 2574.805414]   .cpu_load[0]               : 0
[ 2574.805414]   .cpu_load[1]               : 0
[ 2574.805414]   .cpu_load[2]               : 0
[ 2574.805414]   .cpu_load[3]               : 0
[ 2574.805414]   .cpu_load[4]               : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[2]:
[ 2574.805414]   .exec_clock                : 0.000000
[ 2574.805414]   .MIN_vruntime              : 0.000001
[ 2574.805414]   .min_vruntime              : 15350.377933
[ 2574.805414]   .max_vruntime              : 0.000001
[ 2574.805414]   .spread                    : 0.000000
[ 2574.805414]   .spread0                   : -10240.757814
[ 2574.805414]   .nr_running                : 0
[ 2574.805414]   .load                      : 0
[ 2574.805414]   .nr_spread_over            : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[2]:
[ 2574.805414]   .exec_clock                : 0.000000
[ 2574.805414]   .MIN_vruntime              : 0.000001
[ 2574.805414]   .min_vruntime              : 15350.377933
[ 2574.805414]   .max_vruntime              : 0.000001
[ 2574.805414]   .spread                    : 0.000000
[ 2574.805414]   .spread0                   : -10240.757814
[ 2574.805414]   .nr_running                : 0
[ 2574.805414]   .load                      : 0
[ 2574.805414]   .nr_spread_over            : 0
[ 2574.805414]
[ 2574.805414] runnable tasks:
[ 2574.805414]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2574.805414] ------------------------------------------------------------------------------------------------------
[ 2574.805414]
[ 2574.805414] cpu#3, 2327.615 MHz
[ 2574.805414]   .nr_running                : 4
[ 2574.805414]   .load                      : 184788
[ 2574.805414]   .nr_switches               : 35136
[ 2574.805414]   .nr_load_updates           : 488898
```

```
[ 2574.805414]   .nr_uninterruptible          : 66
[ 2574.805414]   .jiffies                   : 535351
[ 2574.805414]   .next_balance                : 0.535356
[ 2574.805414]   .curr->pid                  : 4222
[ 2574.805414]   .clock                     : 2441405.459833
[ 2574.805414]   .cpu_load[0]                 : 184788
[ 2574.805414]   .cpu_load[1]                 : 184788
[ 2574.805414]   .cpu_load[2]                 : 184788
[ 2574.805414]   .cpu_load[3]                 : 184788
[ 2574.805414]   .cpu_load[4]                 : 184788
[ 2574.805414]
[ 2574.805414] cfs_rq[3]:
[ 2574.805414]   .exec_clock                  : 0.000000
[ 2574.805414]   .MIN_vruntime                : 0.000001
[ 2574.805414]   .min_vruntime                : 874283.510611
[ 2574.805414]   .max_vruntime                : 0.000001
[ 2574.805414]   .spread                    : 0.000000
[ 2574.805414]   .spread0                    : 848692.374864
[ 2574.805414]   .nr_running                  : 1
[ 2574.805414]   .load                      : 1024
[ 2574.805414]   .nr_spread_over              : 0
[ 2574.805414]
[ 2574.805414] cfs_rq[3]:
[ 2574.805414]   .exec_clock                  : 0.000000
[ 2574.805414]   .MIN_vruntime                : 874163.510611
[ 2574.805414]   .min_vruntime                : 874283.510611
[ 2574.805414]   .max_vruntime                : 874223.510611
[ 2574.805414]   .spread                    : 60.000000
[ 2574.805414]   .spread0                    : 848692.374864
[ 2574.805414]   .nr_running                  : 3
[ 2574.805414]   .load                      : 7266
[ 2574.805414]   .nr_spread_over              : 0
[ 2574.805414]
[ 2574.805414] runnable tasks:
[ 2574.805414]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2574.805414] ------------------------------------------------------------------------------------------------------
[ 2574.805414]      watchdog/3    14        -4.329575         3     0             0             0
0.000000              0.000000              0.000000
[ 2574.805414]        events/3    18    874223.510611       738   115             0             0
0.000000              0.000000              0.000000
[ 2574.805414]       kblockd/3    57    874163.510611        36   115             0             0
0.000000              0.000000              0.000000
[ 2574.805414] R   sendmail-mta  4222   1939299.790290         4   120             0             0
    0.000000              0.000000
```

```
Sched Debug Version: v0.07, 2.6.26-2-openvz-686 #1
[ 2612.520474] now at 2479099.757691 msecs
[ 2612.520474]   .sysctl_sched_latency                    : 60.000000
[ 2612.520474]   .sysctl_sched_min_granularity            : 12.000000
[ 2612.520474]   .sysctl_sched_wakeup_granularity         : 30.000000
[ 2612.520474]   .sysctl_sched_child_runs_first           : 0.000001
[ 2612.520474]   .sysctl_sched_features                   : 895
[ 2612.520474]
[ 2612.520474] cpu#0, 2327.615 MHz
[ 2612.520474]   .nr_running                    : 1
[ 2612.520474]   .load                          : 1024
[ 2612.520474]   .nr_switches                   : 239641
[ 2612.520474]   .nr_load_updates               : 504737
[ 2612.520474]   .nr_uninterruptible            : 17
[ 2612.520474]   .jiffies                       : 544775
[ 2612.520474]   .next_balance                  : 0.544775
[ 2612.520474]   .curr->pid                     : 4097
[ 2612.520474]   .clock                         : 2479100.006869
[ 2612.520474]   .cpu_load[0]                   : 0
[ 2612.520474]   .cpu_load[1]                   : 0
[ 2612.520474]   .cpu_load[2]                   : 32
[ 2612.520474]   .cpu_load[3]                   : 784
[ 2612.520474]   .cpu_load[4]                   : 2203
[ 2612.520474]
[ 2612.520474] cfs_rq[0]:
[ 2612.520474]   .exec_clock                    : 0.000000
[ 2612.520474]   .MIN_vruntime                  : 0.000001
[ 2612.520474]   .min_vruntime                  : 25711.135749
[ 2612.520474]   .max_vruntime                  : 0.000001
[ 2612.520474]   .spread                        : 0.000000
[ 2612.520474]   .spread0                       : 0.000000
[ 2612.520474]   .nr_running                    : 0
[ 2612.520474]   .load                          : 0
[ 2612.520474]   .nr_spread_over                : 0
[ 2612.520474]
[ 2612.520474] cfs_rq[0]:
[ 2612.520474]   .exec_clock                    : 0.000000
[ 2612.520474]   .MIN_vruntime                  : 0.000001
[ 2612.520474]   .min_vruntime                  : 25711.135749
[ 2612.520474]   .max_vruntime                  : 0.000001
[ 2612.520474]   .spread                        : 0.000000
[ 2612.520474]   .spread0                       : 0.000000
[ 2612.520474]   .nr_running                    : 1
[ 2612.520474]   .load                          : 1024
[ 2612.520474]   .nr_spread_over                : 0
[ 2612.520474]
[ 2612.520474] runnable tasks:
[ 2612.520474]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
```

```
sum-sleep
[ 2612.520474] ---------------------------------------------------------------------------------------------------------
[ 2612.520474] R          bash  4097     25651.135750       264   120             0             0
0.000000             0.000000             0.000000
[ 2612.520474]
[ 2612.520474] cpu#1, 2327.615 MHz
[ 2612.520474]   .nr_running                  : 2
[ 2612.520474]   .load                        : 2048
[ 2612.520474]   .nr_switches                 : 229920
[ 2612.520474]   .nr_load_updates             : 487662
[ 2612.520474]   .nr_uninterruptible          : 2264
[ 2612.520474]   .jiffies                     : 544775
[ 2612.520474]   .next_balance                : 0.544776
[ 2612.520474]   .curr->pid                   : 2754
[ 2612.520474]   .clock                       : 2479100.506684
[ 2612.520474]   .cpu_load[0]                 : 0
[ 2612.520474]   .cpu_load[1]                 : 0
[ 2612.520474]   .cpu_load[2]                 : 32
[ 2612.520474]   .cpu_load[3]                 : 784
[ 2612.520474]   .cpu_load[4]                 : 2203
[ 2612.520474]
[ 2612.520474] cfs_rq[1]:
[ 2612.520474]   .exec_clock                  : 0.000000
[ 2612.520474]   .MIN_vruntime                : 0.000001
[ 2612.520474]   .min_vruntime                : 36700.811092
[ 2612.520474]   .max_vruntime                : 0.000001
[ 2612.520474]   .spread                      : 0.000000
[ 2612.520474]   .spread0                     : 10989.675343
[ 2612.520474]   .nr_running                  : 0
[ 2612.520474]   .load                        : 0
[ 2612.520474]   .nr_spread_over              : 0
[ 2612.520474]
[ 2612.520474] cfs_rq[1]:
[ 2612.520474]   .exec_clock                  : 0.000000
[ 2612.520474]   .MIN_vruntime                : 36644.471365
[ 2612.520474]   .min_vruntime                : 36700.811092
[ 2612.520474]   .max_vruntime                : 36644.471365
[ 2612.520474]   .spread                      : 0.000000
[ 2612.520474]   .spread0                     : 10989.675343
[ 2612.520474]   .nr_running                  : 2
[ 2612.520474]   .load                        : 2048
[ 2612.520474]   .nr_spread_over              : 0
[ 2612.520474]
[ 2612.520474] runnable tasks:
[ 2612.520474]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2612.520474] ---------------------------------------------------------------------------------------------------------
[ 2612.520474] R      rsyslogd  2754     36644.427551       711   120             0             0
```

```
0.000000         0.000000         0.000000
[ 2612.520474]      rsyslogd  4363    36644.471365       7   120          0          0
0.000000         0.000000         0.000000
[ 2612.520474]
[ 2612.520474] cpu#2, 2327.615 MHz
[ 2612.520474]   .nr_running                : 0
[ 2612.520474]   .load                      : 0
[ 2612.520474]   .nr_switches               : 181276
[ 2612.520474]   .nr_load_updates           : 495408
[ 2612.520474]   .nr_uninterruptible        : 4294964953
[ 2612.520474]   .jiffies                   : 544775
[ 2612.520474]   .next_balance              : 0.544775
[ 2612.520474]   .curr->pid                 : 0
[ 2612.520474]   .clock                     : 2479101.001347
[ 2612.520474]   .cpu_load[0]               : 0
[ 2612.520474]   .cpu_load[1]               : 0
[ 2612.520474]   .cpu_load[2]               : 32
[ 2612.520474]   .cpu_load[3]               : 784
[ 2612.520474]   .cpu_load[4]               : 2203
[ 2612.520474]
[ 2612.520474] cfs_rq[2]:
[ 2612.520474]   .exec_clock                : 0.000000
[ 2612.520474]   .MIN_vruntime              : 0.000001
[ 2612.520474]   .min_vruntime              : 15350.377933
[ 2612.520474]   .max_vruntime              : 0.000001
[ 2612.520474]   .spread                    : 0.000000
[ 2612.520474]   .spread0                   : -10360.757816
[ 2612.520474]   .nr_running                : 0
[ 2612.520474]   .load                      : 0
[ 2612.520474]   .nr_spread_over            : 0
[ 2612.520474]
[ 2612.520474] cfs_rq[2]:
[ 2612.520474]   .exec_clock                : 0.000000
[ 2612.520474]   .MIN_vruntime              : 0.000001
[ 2612.520474]   .min_vruntime              : 15350.377933
[ 2612.520474]   .max_vruntime              : 0.000001
[ 2612.520474]   .spread                    : 0.000000
[ 2612.520474]   .spread0                   : -10360.757816
[ 2612.520474]   .nr_running                : 0
[ 2612.520474]   .load                      : 0
[ 2612.520474]   .nr_spread_over            : 0
[ 2612.520474]
[ 2612.520474] runnable tasks:
[ 2612.520474]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2612.520474] ------------------------------------------------------------------------------------------------------
[ 2612.520474]
[ 2612.520474] cpu#3, 2327.615 MHz
```

```
[ 2612.520474]   .nr_running                : 4
[ 2612.520474]   .load                      : 184788
[ 2612.520474]   .nr_switches               : 35136
[ 2612.520474]   .nr_load_updates           : 498322
[ 2612.520474]   .nr_uninterruptible        : 66
[ 2612.520474]   .jiffies                   : 544775
[ 2612.520474]   .next_balance              : 0.544828
[ 2612.520474]   .curr->pid                 : 4222
[ 2612.520474]   .clock                     : 2479101.502575
[ 2612.520474]   .cpu_load[0]               : 184788
[ 2612.520474]   .cpu_load[1]               : 184788
[ 2612.520474]   .cpu_load[2]               : 184788
[ 2612.520474]   .cpu_load[3]               : 184788
[ 2612.520474]   .cpu_load[4]               : 184788
[ 2612.520474]
[ 2612.520474] cfs_rq[3]:
[ 2612.520474]   .exec_clock                : 0.000000
[ 2612.520474]   .MIN_vruntime              : 0.000001
[ 2612.520474]   .min_vruntime              : 874283.510611
[ 2612.520474]   .max_vruntime              : 0.000001
[ 2612.520474]   .spread                    : 0.000000
[ 2612.520474]   .spread0                   : 848572.374862
[ 2612.520474]   .nr_running                : 1
[ 2612.520474]   .load                      : 1024
[ 2612.520474]   .nr_spread_over            : 0
[ 2612.520474]
[ 2612.520474] cfs_rq[3]:
[ 2612.520474]   .exec_clock                : 0.000000
[ 2612.520474]   .MIN_vruntime              : 874163.510611
[ 2612.520474]   .min_vruntime              : 874283.510611
[ 2612.520474]   .max_vruntime              : 874223.510611
[ 2612.520474]   .spread                    : 60.000000
[ 2612.520474]   .spread0                   : 848572.374862
[ 2612.520474]   .nr_running                : 3
[ 2612.520474]   .load                      : 7266
[ 2612.520474]   .nr_spread_over            : 0
[ 2612.520474]
[ 2612.520474] runnable tasks:
[ 2612.520474]            task   PID         tree-key  switches  prio     exec-runtime         sum-exec
sum-sleep
[ 2612.520474] ------------------------------------------------------------------------------------------------------
[ 2612.520474]      watchdog/3    14        -4.329575         3     0             0             0
0.000000             0.000000             0.000000
[ 2612.520474]        events/3    18    874223.510611       738   115             0             0
0.000000             0.000000             0.000000
[ 2612.520474]       kblockd/3    57    874163.510611        36   115             0             0
0.000000             0.000000             0.000000
[ 2612.520474] R   sendmail-mta  4222   1976995.797668         4   120             0             0
```

0.000000 0.000000

Sysrq-t gives the same output as sysrq-w.

Does this help in any way?

Thanks for your help!

Subject: Re: IBM RAID controller re-mount lock
Posted by maratrus on Thu, 13 Aug 2009 07:55:45 GMT
View Forum Message <> Reply to Message

Thank you very much for the provided information and sorry for delay.
I'd recommend you to file a bug into bugzilla.
http://bugzilla.openvz.org/
