Subject: *HARDWARE* Node crashed with Machine Check Exception error
Posted by ha77ab on Mon, 10 Jul 2006 04:35:38 GMT
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Hi,

Our openvz server crashed three times in a day with these errors. Is it something to with openvz kernel or can it be because of bad cpus (we have dual core dual amd opteron 270)?

we use: 2.6.8-022stab078.10-enterprise

Jul 9 12:19:41 vz01 kernel: CPU 0: Machine Check Exception: 0000000000000004
Jul 9 12:19:41 vz01 kernel: Bank 4: b604a00100000813 at 000000007e4f2f68
Jul 9 12:19:41 vz01 kernel: Kernel panic: CPU context corrupt

Jul 9 05:44:28 vz01 kernel: CPU 0: Machine Check Exception: 0000000000000007
Jul 9 05:44:28 vz01 kernel: Unable to handle kernel paging request at virtual address 00f00094
Jul 9 05:44:28 vz01 kernel: printing eip:
Jul 9 05:44:28 vz01 kernel: 023d7d02
Jul 9 05:44:28 vz01 kernel: *pde = 00000000
Jul 9 05:44:28 vz01 kernel: Oops: 0000 [#1]
Jul 9 05:44:28 vz01 kernel: Bank 4: b404a00000000a13 at 0000000055c8df68
Jul 9 05:44:28 vz01 kernel: Kernel panic: Unable to continue
Jul 9 05:44:28 vz01 kernel: SMP
Jul 9 05:44:28 vz01 kernel: Modules linked in: simfs vzdquota af_packet ip_nat_ftp ip_conntrack_ftp iptable_nat ipt_state ipt_length ipt_ttl ipt_tcpmss ipt_$
Jul 9 05:44:28 vz01 kernel: CPU: 3, VCPU: 101:3
Jul 9 05:44:28 vz01 kernel: EIP: 0060:[<023d7d02>] Not tainted
Jul 9 05:44:28 vz01 kernel: EFLAGS: 00010282 (2.6.8-022stab078.10-enterprise)
Jul 9 05:44:30 vz01 kernel: EIP is at skb_drop_fraglist+0x22/0x50
Jul 9 05:44:30 vz01 kernel: eax: 57c8df60 ebx: 00f00000 ecx: 57c8df60 edx: 00f00000
Jul 9 05:44:30 vz01 kernel: esi: c0c0b0c0 edi: 0000003a ebp: 09724354 esp: 875cddc8
Jul 9 05:44:30 vz01 kernel: ds: 007b es: 007b ss: 0068
Jul 9 05:44:30 vz01 kernel: Process spamd (pid: 2662, veid=101, threadinfo=875cc000 task=b7170d40)
Jul 9 05:44:31 vz01 kernel: Stack: 001b1b1f c0c0b0c0 023d7dea c0c0b0c0 c0c0b0c0 c0c0b0c0 023d7e20 c0c0b0c0
Jul 9 05:44:31 vz01 kernel: 0000003a 00000000 023d7ee1 c0c0b0c0 00000000 c0c0b0c0 0000003a 00000000
Jul 9 05:44:31 vz01 kernel: 02402e35 c0c0b0c0 00000000 875cdedc 0000003a 7690e600 c059f200 875cc000
Jul 9 05:44:31 vz01 kernel: Call Trace:
Jul 9 05:44:31 vz01 kernel: [<023d7dea>] skb_release_data+0x9a/0xc0
Jul 9 05:44:31 vz01 kernel: [<023d7e20>] kfree_skbmem+0x10/0x30
Jul 9 05:44:32 vz01 kernel: [<023d7ee1>] __kfree_skb+0xa1/0x140
Jul 9 05:44:32 vz01 kernel: [<02402e35>] tcp_recvmsg+0x715/0x890
Jul 9 05:44:32 vz01 kernel: [<023d7942>] sock_common_recvmsg+0x52/0x70

Jul 9 05:44:32 vz01 kernel: [<023d3cf0>] sock_aio_read+0x100/0x120
Jul 9 05:44:32 vz01 kernel: [<02171dc0>] do_sync_read+0x80/0xc0
Jul 9 05:44:32 vz01 kernel: [<0211bfbb>] vcpu_put+0x8b/0x110
Jul 9 05:44:32 vz01 kernel: [<0211d61e>] finish_task_switch+0x3e/0x90
Jul 9 05:44:32 vz01 kernel: [<02171e9a>] vfs_read+0x9a/0x160
Jul 9 05:44:32 vz01 kernel: [<021721d1>] sys_read+0x51/0x80
Jul 9 05:44:32 vz01 kernel: Code: 8b 82 94 00 00 00 8b 1b 48 74 0e f0 ff 8a 94 00 00 00 0f 94

Jul 9 22:35:59 vz01 kernel: CPU 2: Machine Check Exception: 0000000000000004
Jul 9 22:35:59 vz01 kernel: Bank 4: b603200100000813 at 0000000104b27ef8
Jul 9 22:35:59 vz01 kernel: Kernel panic: CPU context corrupt

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Subject: Re: Node crashed with Machine Check Exception error
Posted by dev on Mon, 10 Jul 2006 21:16:05 GMT
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Such messages are printed when CPU reports about detected hardware problems, e.g. memory corruptions or some other problems.
i.e. it is 100% hardware problem with your server.
http://www.answers.com/topic/machine-check-exception

You can try to check your memory/CPU as decribed here:
http://wiki.openvz.org/Hardware_testing

Subject: Re: Node crashed with Machine Check Exception error
Posted by ha77ab on Fri, 14 Jul 2006 19:05:48 GMT
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could this be also a HW problem?, the same error without "Machine Check"

Jul 14 12:09:12 vz01 kernel: Unable to handle kernel paging request at virtual address feafea2d
Jul 14 12:09:12 vz01 kernel: printing eip:
Jul 14 12:09:12 vz01 kernel: ecee0966
Jul 14 12:09:12 vz01 kernel: *pde = 00000000
Jul 14 12:09:12 vz01 kernel: Oops: 0000 [#1]
Jul 14 12:09:12 vz01 kernel: SMP
Jul 14 12:09:12 vz01 kernel: Modules linked in: simfs vzdquota af_packet ip_nat_ftp
ip_conntrack_ftp iptable$
Jul 14 12:09:12 vz01 kernel: CPU: 2, VCPU: 121:1
Jul 14 12:09:12 vz01 kernel: EIP: 0060:[<ecee0966>]   Not tainted
Jul 14 12:09:12 vz01 kernel: EFLAGS: 00010282   (2.6.8-022stab078-smp)

Jul 14 12:09:12 vz01 kernel: EIP is at vzquota_transfer_usage+0x66/0x150 [vzdquota]
Jul 14 12:09:12 vz01 kernel: eax: bbb8ec8c ebx: 67715e6c ecx: feafea15 edx: 00000000
Jul 14 12:09:12 vz01 kernel: esi: bbb8ec8c edi: 00000000 ebp: 67715e68 esp: 67715e20
Jul 14 12:09:12 vz01 kernel: ds: 007b es: 007b ss: 0068
Jul 14 12:09:12 vz01 kernel: Process cp (pid: 2831, veid=121, threadinfo=67714000 task=9779a820)
Jul 14 12:09:12 vz01 kernel: Stack: b6cf7740 67715e6c 00000001 00001000 00000000 00001000 00000000 b6cf7740
Jul 14 12:09:12 vz01 kernel: bbb8ec8c 00000003 67715e68 ecede636 bbb8ec8c 00000003 67715e68 00000003
Jul 14 12:09:12 vz01 kernel: b6cf7740 00000000 b6cf7740 48dce240 48dce280 67715e74 67715e74 00000002
Jul 14 12:09:12 vz01 kernel: Call Trace:
Jul 14 12:09:12 vz01 kernel: [<ecede636>] vzquota_inode_transfer_call+0x166/0x1c0 [vzdquota]
Jul 14 12:09:12 vz01 kernel: [<ecee0a67>] vzquota_transfer+0x17/0x30 [vzdquota]
Jul 14 12:09:12 vz01 kernel: [<021eb8f6>] ext3_setattr+0xc6/0x270
Jul 14 12:09:12 vz01 kernel: [<0218fbfe>] notify_change+0x1fe/0x270
Jul 14 12:09:12 vz01 kernel: [<0216f9e6>] chown_common+0xb6/0x100
Jul 14 12:09:12 vz01 kernel: [<0218137c>] __user_walk+0x5c/0x80
Jul 14 12:09:12 vz01 kernel: [<0216fa7f>] sys_chown+0x4f/0x70
Jul 14 12:09:12 vz01 kernel: [<0216e15c>] get_user_size+0x3c/0x80
Jul 14 12:09:12 vz01 kernel: [<0216f3df>] sys_utimes+0x3f/0x50

Subject: Re: Node crashed with Machine Check Exception error
Posted by dev on Sat, 15 Jul 2006 11:06:39 GMT
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AFAICS it is the same machine, yeah?
it can be also your hardware, though I will check for obvious errors.

Subject: Re: Node crashed with Machine Check Exception error
Posted by ha77ab on Sat, 15 Jul 2006 15:35:59 GMT
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Thank you,

Yes thats the same machine, I also compiled the kernel myself but got this error, DC also replaced all the RAM modules. Now they replaced them again, I think they will swap the CPUs next time.

Subject: Re: Node crashed with Machine Check Exception error
Posted by kir on Mon, 17 Jul 2006 09:16:24 GMT

I really suggest you to run some hardware tests as described in
http://wiki.openvz.org/Hardware_testing