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Subject: [migration/0] 100% CPU

Posted by [berlo](#) on Fri, 19 Aug 2011 19:14:44 GMT

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hi,

some days ago i moved some my nodes to CentOS 6. After migration i see that centos 5 node still stable, but migrated centos 6 module random crash. i have some screen during the crash. I do not think that is something in cron because crash are randon and in different node.

All nodes went offline with this status:

top - 19:26:07 up 1 day, 5:35, 2 users, load average: 10.59, 2.90, 1.30

Tasks: 985 total, 5 running, 976 sleeping, 0 stopped, 4 zombie

Cpu(s): 0.7%us, 26.0%sy, 0.0%ni, 0.0%id, 73.2%wa, 0.0%hi, 0.1%si, 0.0%st

Mem: 8296140k total, 6580416k used, 1715724k free, 460436k buffers

Swap: 10403832k total, 14496k used, 10389336k free, 3686296k cached

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
3	root	RT	0	0	0	0	S	100.0	0.0	1:10.82	[migration/0]
28697	root	20	0	3184	1716	888	R	1.6	0.0	5:55.67	top -c
16168	root	20	0	3172	1752	888	S	1.3	0.0	14:04.70	top -c
9766	105	20	0	364m	18m	4940	S	0.6	0.2	10:01.93	/usr/bin/python /usr/lib/checker/Checker.py -c /etc/checker.conf
21873	root	20	0	74848	32m	7264	S	0.6	0.4	1:20.45	./hlds_i686 -console -game cstrike -master -secure -pingboost 3 +ip 213.92.118.171 +sys_ticrate 20 -heapsize 100 +exec xhlds1.cfg?
12217	apache	20	0	35444	1916	592	S	0.3	0.0	4:59.34	/var/www/html/cast/files/linux/sc_serv temp/8000_1313668473.conf
12580	apache	20	0	42144	1780	564	S	0.3	0.0	4:58.78	/var/www/html/cast/files/linux/sc_serv temp/8002_1313668474.conf
12662	apache	20	0	38704	2132	752	S	0.3	0.0	5:13.15	/var/www/html/cast/files/linux/sc_serv temp/8004_1313668479.conf
13124	33	20	0	40600	11m	3920	D	0.3	0.1	0:01.80	/usr/sbin/apache2 -k start
13874	apache	20	0	35444	1828	564	S	0.3	0.0	4:58.83	/var/www/html/cast/files/linux/sc_serv temp/8006_1313668490.conf
14201	33	20	0	39832	11m	3940	D	0.3	0.1	0:01.20	/usr/sbin/apache2 -k start
14382	apache	20	0	35944	2156	756	S	0.3	0.0	5:17.00	/var/www/html/cast/files/linux/sc_serv temp/8010_1313668497.conf
15512	apache	20	0	35944	2252	752	S	0.3	0.0	5:30.24	/var/www/html/cast/files/linux/sc_serv temp/8008_1313668517.conf
15907	65534	20	0	1173m	45m	44m	D	0.3	0.6	0:30.02	/usr/sbin/varnishd -P /var/run/varnishd.pid -a :80 -T localhost:6082 -f /etc/varnish/default.vcl -S /etc/varnish/secret -s file,/var/lib/varnish/vps-it/varnish_storage.bin,1G
21882	root	20	0	74848	32m	7268	S	0.3	0.4	1:19.77	./hlds_i686 -console -game cstrike -master -secure -pingboost 3 +ip 213.92.118.171 +sys_ticrate 20 -heapsize 100 +exec xhlds3.cfg
21883	root	20	0	74848	32m	7348	S	0.3	0.4	1:19.73	./hlds_i686 -console -game cstrike -master -secure -pingboost 3 +ip 213.92.118.171 +sys_ticrate 20 -heapsize 100 +exec

xhlds2.cfg?

1	root	20	0	2828	1356	1192	S	0.0	0.0	0:01.05	/sbin/init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	[kthreadd]
4	root	20	0	0	0	0	R	0.0	0.0	0:00.57	[ksoftirqd/0]
5	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	[migration/0]
6	root	RT	0	0	0	0	R	0.0	0.0	0:00.04	[watchdog/0]
7	root	RT	0	0	0	0	S	0.0	0.0	0:00.42	[migration/1]
8	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	[migration/1]
9	root	20	0	0	0	0	S	0.0	0.0	0:01.69	[ksoftirqd/1]
10	root	RT	0	0	0	0	S	0.0	0.0	0:00.04	[watchdog/1]
11	root	RT	0	0	0	0	S	0.0	0.0	0:01.03	[migration/2]
12	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	[migration/2]
13	root	20	0	0	0	0	S	0.0	0.0	0:01.72	[ksoftirqd/2]
14	root	RT	0	0	0	0	S	0.0	0.0	0:00.05	[watchdog/2]
15	root	RT	0	0	0	0	S	0.0	0.0	0:01.01	[migration/3]
16	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	[migration/3]
17	root	20	0	0	0	0	S	0.0	0.0	0:01.68	[ksoftirqd/3]
18	root	RT	0	0	0	0	S	0.0	0.0	0:00.04	[watchdog/3]
19	root	20	0	0	0	0	R	0.0	0.0	0:00.24	[events/0]
20	root	20	0	0	0	0	S	0.0	0.0	0:09.13	[events/1]
21	root	20	0	0	0	0	S	0.0	0.0	0:01.79	[events/2]

i know that process [migration/0] is a kernel thread that move thread between cpu's but i don't know what cause this situation.

Anyone had this problem or know how to solve or debug it?

configuration:

# uname -a

Linux node82 2.6.32-042stab031.1 #1 SMP Fri Aug 12 21:21:55 MSD 2011 i686 i686 i386  
GNU/Linux

# lspci

00:00.0 Host bridge: Intel Corporation 5000X Chipset Memory Controller Hub (rev 12)  
00:02.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4 Port 2 (rev 12)  
00:03.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4 Port 3 (rev 12)  
00:04.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x8 Port 4-5 (rev 12)  
00:05.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4 Port 5 (rev 12)  
00:06.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x8 Port 6-7 (rev 12)  
00:07.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4 Port 7 (rev 12)  
00:10.0 Host bridge: Intel Corporation 5000 Series Chipset FSB Registers (rev 12)  
00:10.1 Host bridge: Intel Corporation 5000 Series Chipset FSB Registers (rev 12)  
00:10.2 Host bridge: Intel Corporation 5000 Series Chipset FSB Registers (rev 12)  
00:11.0 Host bridge: Intel Corporation 5000 Series Chipset Reserved Registers (rev 12)

00:13.0 Host bridge: Intel Corporation 5000 Series Chipset Reserved Registers (rev 12)  
00:15.0 Host bridge: Intel Corporation 5000 Series Chipset FBD Registers (rev 12)  
00:16.0 Host bridge: Intel Corporation 5000 Series Chipset FBD Registers (rev 12)  
00:1c.0 PCI bridge: Intel Corporation 631xESB/632xESB/3100 Chipset PCI Express Root Port 1 (rev 09)  
00:1d.0 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI USB Controller #1 (rev 09)  
00:1d.1 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI USB Controller #2 (rev 09)  
00:1d.2 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI USB Controller #3 (rev 09)  
00:1d.3 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI USB Controller #4 (rev 09)  
00:1d.7 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset EHCI USB2 Controller (rev 09)  
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev d9)  
00:1f.0 ISA bridge: Intel Corporation 631xESB/632xESB/3100 Chipset LPC Interface Controller (rev 09)  
00:1f.1 IDE interface: Intel Corporation 631xESB/632xESB IDE Controller (rev 09)  
01:00.0 RAID bus controller: LSI Logic / Symbios Logic MegaRAID SAS 1078 (rev 04)  
02:00.0 PCI bridge: Broadcom EPB PCI-Express to PCI-X Bridge (rev c3)  
03:00.0 Ethernet controller: Broadcom Corporation NetXtreme II BCM5708 Gigabit Ethernet (rev 12)  
04:00.0 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express Upstream Port (rev 01)  
04:00.3 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express to PCI-X Bridge (rev 01)  
05:00.0 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express Downstream Port E1 (rev 01)  
05:01.0 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express Downstream Port E2 (rev 01)  
06:00.0 PCI bridge: Broadcom EPB PCI-Express to PCI-X Bridge (rev c3)  
07:00.0 Ethernet controller: Broadcom Corporation NetXtreme II BCM5708 Gigabit Ethernet (rev 12)  
0e:0d.0 VGA compatible controller: ATI Technologies Inc ES1000 (rev 02)

# cat /etc/redhat-release  
CentOS Linux release 6.0 (Final)

thank you

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