Subject: Centos 5 6 gigs of ram not working
Posted by gnuyoga on Tue, 18 Mar 2008 10:12:51 GMT
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Let me describe the problem in detail before that i will share my configuration

Processor Intel Core 2 Duo 2.6 Ghz
Mother Board: Intel DG33FB
HardDisk : 160GB SATA
RAM: 6GB (2GB x 3)
OS: Centos 5.1 Server Install
Kernel Version: kernel-PAE-2.6.24-ovz002.2.i686.rpm
Kernel args: acpi=off

When i boot with above kernel, Starting Udev take a long time. It takes more than 30 minutes.

Message i c in the console is

Starting udev: Wait timeout. Will continue in the backgroup [FAILED]

when i run the same machine with less than 4GB of ram i dont have any problem, all VE's work fine.

Reading about openvz kernel for debian, i installed etch and installed the kernel .... but it also takes a long time .....

Message i c in the console is

Waiting for /dev/ to be fully populated ......

That means i have problem when physical ram is more than 4GB.

Some more stats of 2.6.24-ovz002.2-PAE kernel with 6GB RAM....

dmesg

Initializing cgroup subsys cpuset
Initializing cgroup subsys cpu
Linux version 2.6.24-ovz002.2-PAE (root@centos-32-build) (gcc version 3.4.4 20050721 (Red Hat 3.4.4-2)) #1 SMP Fri Feb 29 00:39:59 MSK 2008
BIOS-provided physical RAM map:
 BIOS-e820: 0000000000000000 - 000000000009ec00 (usable)
 BIOS-e820: 000000000009ec00 - 00000000000a0000 (reserved)
 BIOS-e820: 00000000000e0000 - 0000000000100000 (reserved)
 BIOS-e820: 0000000000100000 - 00000000cf220000 (usable)
 BIOS-e820: 00000000cf220000 - 00000000cf222000 (reserved)
 BIOS-e820: 00000000cf222000 - 00000000cf329000 (usable)

```
 BIOS-e820: 00000000cf329000 - 00000000cf3ea000 (ACPI NVS)
 BIOS-e820: 00000000cf3ea000 - 00000000cf3f3000 (ACPI data)
 BIOS-e820: 00000000cf3f3000 - 00000000cf3f4000 (usable)
 BIOS-e820: 00000000cf3f4000 - 00000000cf3ff000 (ACPI data)
 BIOS-e820: 00000000cf3ff000 - 00000000cf400000 (usable)
 BIOS-e820: 00000000cf400000 - 00000000d0000000 (reserved)
 BIOS-e820: 00000000f0000000 - 00000000f8000000 (reserved)
 BIOS-e820: 00000000fff00000 - 0000000100000000 (reserved)
 BIOS-e820: 0000000100000000 - 00000001ac000000 (usable)
5952MB HIGHMEM available.
896MB LOWMEM available.
found SMP MP-table at 000fe200
NX (Execute Disable) protection: active
Entering add_active_range(0, 0, 1753088) 0 entries of 256 used
Zone PFN ranges:
  DMA             0 ->     4096
  Normal       4096 ->   229376
  HighMem    229376 ->  1753088
Movable zone start PFN for each node
early_node_map[1] active PFN ranges
    0:        0 ->  1753088
On node 0 totalpages: 1753088
  DMA zone: 36 pages used for memmap
  DMA zone: 0 pages reserved
  DMA zone: 4060 pages, LIFO batch:0
  Normal zone: 1980 pages used for memmap
  Normal zone: 223300 pages, LIFO batch:31
  HighMem zone: 13392 pages used for memmap
  HighMem zone: 1510320 pages, LIFO batch:31
  Movable zone: 0 pages used for memmap
DMI 2.4 present.
Using APIC driver default
Intel MultiProcessor Specification v1.4
    Virtual Wire compatibility mode.
OEM ID:  Product ID:  APIC at: 0xFEE00000
Processor #0 6:15 APIC version 20
Enabling APIC mode:  Flat.  Using 0 I/O APICs
BIOS bug, no explicit IRQ entries, using default mptable. (tell your hw vendor)
Processors: 1
Allocating PCI resources starting at d2000000 (gap: d0000000:20000000)
swsusp: Registered nosave memory region: 000000000009e000 - 000000000009f000
swsusp: Registered nosave memory region: 000000000009f000 - 00000000000a0000
swsusp: Registered nosave memory region: 00000000000a0000 - 00000000000e0000
swsusp: Registered nosave memory region: 00000000000e0000 - 0000000000100000
Built 1 zonelists in Zone order, mobility grouping on.  Total pages: 1737680
Kernel command line: ro root=LABEL=/ acpi=off 2 pci=nommconf noapic
mapped APIC to ffffb000 (fee00000)
Enabling fast FPU save and restore... done.
```

Enabling unmasked SIMD FPU exception support... done.
Initializing CPU#0
CPU 0 irqstacks, hard=c07c9000 soft=c07a9000
PID hash table entries: 4096 (order: 12, 16384 bytes)
Detected 2333.162 MHz processor.
Console: colour VGA+ 80x25
console [tty0] enabled
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 6142116k/7012352k available (2231k kernel code, 69328k reserved, 1190k data, 292k init, 5295268k highmem)
virtual kernel memory layout:
    fixmap : 0xffe13000 - 0xfffff000   (1968 kB)
    pkmap   : 0xffc00000 - 0xffe00000   (2048 kB)
    vmalloc : 0xf8800000 - 0xffbfe000   (115 MB)
    lowmem : 0xc0000000 - 0xf8000000   (896 MB)
      .init : 0xc075d000 - 0xc07a6000   (292 kB)
      .data : 0xc062ddf0 - 0xc07576c0   (1190 kB)
      .text : 0xc0400000 - 0xc062ddf0   (2231 kB)
Checking if this processor honours the WP bit even in supervisor mode... Ok.
SLUB: Genslabs=11, HWalign=64, Order=0-1, MinObjects=4, CPUs=1, Nodes=1
Calibrating delay using timer specific routine.. 4668.12 BogoMIPS (lpj=2334064)
Mount-cache hash table entries: 512
Initializing cgroup subsys ns
Initializing cgroup subsys cpuacct
CPU: After generic identify, caps: bfebfbff 20100000 00000000 00000000 0000e3fd 00000000 00000001 00000000
monitor/mwait feature present.
using mwait in idle threads.
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 0
CPU: After all inits, caps: bfebfbff 20100000 00000000 00003940 0000e3fd 00000000 00000001 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
Compat vDSO mapped to ffffe000.
Checking 'hlt' instruction... OK.
SMP alternatives: switching to UP code
Freeing SMP alternatives: 14k freed
Page beancounter hash is 524288 entries.
CPU0: Intel(R) Core(TM)2 Duo CPU   E6550 @ 2.33GHz stepping 0b
Total of 1 processors activated (4668.12 BogoMIPS).
Brought up 1 CPUs
net_namespace: 76 bytes
Booting paravirtualized kernel on bare hardware
Time: 21:21:19 Date: 03/18/08

NET: Registered protocol family 16
ACPI Exception (utmutex-0263): AE_BAD_PARAMETER, Thread F7822000 could not acquire Mutex [1] [20070126]
No dock devices found.
PCI: Using configuration type 1
Setting up standard PCI resources
ACPI: Interpreter disabled.
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI: disabled
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
usbcore: registered new device driver usb
PCI: Probing PCI hardware
PCI: Probing PCI hardware (bus 00)
PCI quirk: region 0400-047f claimed by ICH6 ACPI/GPIO/TCO
PCI quirk: region 0500-053f claimed by ICH6 GPIO
PCI: Transparent bridge - 0000:00:1e.0
PCI: Using IRQ router PIIX/ICH [8086/2912] at 0000:00:1f.0
PCI: setting IRQ 9 as level-triggered
PCI: Found IRQ 9 for device 0000:00:1c.0
PCI: Sharing IRQ 9 with 0000:00:1a.2
PCI: Sharing IRQ 9 with 0000:00:1a.7
PCI: Sharing IRQ 9 with 0000:00:1c.4
PCI: Sharing IRQ 9 with 0000:02:00.0
PCI: Found IRQ 9 for device 0000:00:1c.1
PCI: Sharing IRQ 9 with 0000:00:19.0
PCI: setting IRQ 10 as level-triggered
PCI: Found IRQ 10 for device 0000:00:1c.2
PCI: Sharing IRQ 10 with 0000:00:1a.0
PCI: Sharing IRQ 10 with 0000:00:1d.2
PCI: Sharing IRQ 10 with 0000:00:1f.3
PCI: Sharing IRQ 10 with 0000:06:02.0
PCI: setting IRQ 11 as level-triggered
PCI: Found IRQ 11 for device 0000:00:1c.3
PCI: Sharing IRQ 11 with 0000:00:1d.1
PCI: Sharing IRQ 11 with 0000:06:03.0
PCI: Bridge: 0000:00:1c.0
  IO window: disabled.
  MEM window: disabled.
  PREFETCH window: disabled.
PCI: Bridge: 0000:00:1c.1
  IO window: 2000-2fff
  MEM window: e0100000-e01fffff
  PREFETCH window: disabled.
PCI: Bridge: 0000:00:1c.2
  IO window: disabled.
  MEM window: disabled.
  PREFETCH window: disabled.

Time: tsc clocksource has been installed.
PCI: Bridge: 0000:00:1c.3
  IO window: disabled.
  MEM window: disabled.
  PREFETCH window: disabled.
PCI: Bridge: 0000:00:1c.4
  IO window: disabled.
  MEM window: disabled.
  PREFETCH window: disabled.
PCI: Bridge: 0000:00:1e.0
  IO window: 1000-1fff
  MEM window: e0000000-e00fffff
  PREFETCH window: disabled.
PCI: Found IRQ 9 for device 0000:00:1c.0
PCI: Sharing IRQ 9 with 0000:00:1a.2
PCI: Sharing IRQ 9 with 0000:00:1a.7
PCI: Sharing IRQ 9 with 0000:00:1c.4
PCI: Sharing IRQ 9 with 0000:02:00.0
PCI: Setting latency timer of device 0000:00:1c.0 to 64
PCI: Found IRQ 9 for device 0000:00:1c.1
PCI: Sharing IRQ 9 with 0000:00:19.0
PCI: Setting latency timer of device 0000:00:1c.1 to 64
PCI: Found IRQ 10 for device 0000:00:1c.2
PCI: Sharing IRQ 10 with 0000:00:1a.0
PCI: Sharing IRQ 10 with 0000:00:1d.2
PCI: Sharing IRQ 10 with 0000:00:1f.3
PCI: Sharing IRQ 10 with 0000:06:02.0
PCI: Setting latency timer of device 0000:00:1c.2 to 64
PCI: Found IRQ 11 for device 0000:00:1c.3
PCI: Sharing IRQ 11 with 0000:00:1d.1
PCI: Sharing IRQ 11 with 0000:06:03.0
PCI: Setting latency timer of device 0000:00:1c.3 to 64
PCI: Found IRQ 9 for device 0000:00:1c.4
PCI: Sharing IRQ 9 with 0000:00:1a.2
PCI: Sharing IRQ 9 with 0000:00:1a.7
PCI: Sharing IRQ 9 with 0000:00:1c.0
PCI: Sharing IRQ 9 with 0000:02:00.0
PCI: Setting latency timer of device 0000:00:1c.4 to 64
PCI: Setting latency timer of device 0000:00:1e.0 to 64
NET: Registered protocol family 2
IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
TCP established hash table entries: 131072 (order: 8, 1048576 bytes)
TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
TCP: Hash tables configured (established 131072 bind 65536)
TCP reno registered
checking if image is initramfs... it is
Freeing initrd memory: 2333k freed
apm: BIOS version 1.2 Flags 0x03 (Driver version 1.16ac)

audit: initializing netlink socket (disabled)
audit(1205875278.437:1): initialized
highmem bounce pool size: 64 pages
Total HugeTLB memory allocated, 0
VFS: Disk quotas dquot_6.5.1
Dquot-cache hash table entries: 1024 (order 0, 4096 bytes)
Block layer SCSI generic (bsg) driver version 0.4 loaded (major 252)
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered (default)
Boot video device is 0000:00:02.0
PCI: Setting latency timer of device 0000:00:1c.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.0:pcie00]
Allocate Port Service[0000:00:1c.0:pcie02]
PCI: Setting latency timer of device 0000:00:1c.1 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.1:pcie00]
Allocate Port Service[0000:00:1c.1:pcie02]
PCI: Setting latency timer of device 0000:00:1c.2 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.2:pcie00]
Allocate Port Service[0000:00:1c.2:pcie02]
PCI: Setting latency timer of device 0000:00:1c.3 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.3:pcie00]
Allocate Port Service[0000:00:1c.3:pcie02]
PCI: Setting latency timer of device 0000:00:1c.4 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.4:pcie00]
Allocate Port Service[0000:00:1c.4:pcie02]
pci_hotplug: PCI Hot Plug PCI Core version: 0.5
isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
Non-volatile memory driver v1.2
Linux agpgart interface v0.102
agpgart: Detected an Intel G33 Chipset.
agpgart: Detected 7164K stolen memory.
agpgart: AGP aperture is 256M @ 0xd0000000
Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
RAMDISK driver initialized: 16 RAM disks of 16384K size 4096 blocksize
input: Macintosh mouse button emulation as /class/input/input0
PNP: No PS/2 controller found. Probing ports directly.
serio: i8042 KBD port at 0x60,0x64 irq 1
serio: i8042 AUX port at 0x60,0x64 irq 12
mice: PS/2 mouse device common for all mice

input: AT Translated Set 2 keyboard as /class/input/input1
cpuidle: using governor ladder
cpuidle: using governor menu
usbcore: registered new interface driver hiddev
usbcore: registered new interface driver usbhid
drivers/hid/usbhid/hid-core.c: v2.6:USB HID core driver
TCP cubic registered
Initializing XFRM netlink socket
NET: Registered protocol family 1
NET: Registered protocol family 17
Using IPI No-Shortcut mode
registered taskstats version 1
  Magic number: 0:385:399
Freeing unused kernel memory: 292k freed
input: ImExPS/2 Generic Explorer Mouse as /class/input/input2
USB Universal Host Controller Interface driver v3.0
PCI: Found IRQ 10 for device 0000:00:1a.0
PCI: Sharing IRQ 10 with 0000:00:1d.2
PCI: Sharing IRQ 10 with 0000:00:1f.3
PCI: Sharing IRQ 10 with 0000:06:02.0
PCI: Setting latency timer of device 0000:00:1a.0 to 64
uhci_hcd 0000:00:1a.0: UHCI Host Controller
uhci_hcd 0000:00:1a.0: new USB bus registered, assigned bus number 1
uhci_hcd 0000:00:1a.0: irq 10, io base 0x000030e0
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 2 ports detected
PCI: Found IRQ 11 for device 0000:00:1a.1
PCI: Sharing IRQ 11 with 0000:00:1f.2
PCI: Sharing IRQ 11 with 0000:06:00.0
PCI: Setting latency timer of device 0000:00:1a.1 to 64
uhci_hcd 0000:00:1a.1: UHCI Host Controller
uhci_hcd 0000:00:1a.1: new USB bus registered, assigned bus number 2
uhci_hcd 0000:00:1a.1: irq 11, io base 0x000030c0
usb usb2: configuration #1 chosen from 1 choice
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 2 ports detected
PCI: Found IRQ 9 for device 0000:00:1a.2
PCI: Sharing IRQ 9 with 0000:00:1a.7
PCI: Sharing IRQ 9 with 0000:02:00.0
PCI: Setting latency timer of device 0000:00:1a.2 to 64
uhci_hcd 0000:00:1a.2: UHCI Host Controller
uhci_hcd 0000:00:1a.2: new USB bus registered, assigned bus number 3
uhci_hcd 0000:00:1a.2: irq 9, io base 0x000030a0
usb usb3: configuration #1 chosen from 1 choice
hub 3-0:1.0: USB hub found
hub 3-0:1.0: 2 ports detected
PCI: Found IRQ 11 for device 0000:00:1d.0

PCI: Sharing IRQ 11 with 0000:00:1d.7
PCI: Setting latency timer of device 0000:00:1d.0 to 64
uhci_hcd 0000:00:1d.0: UHCI Host Controller
uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 4
uhci_hcd 0000:00:1d.0: irq 11, io base 0x00003080
usb usb4: configuration #1 chosen from 1 choice
hub 4-0:1.0: USB hub found
hub 4-0:1.0: 2 ports detected
PCI: Found IRQ 11 for device 0000:00:1d.1
PCI: Sharing IRQ 11 with 0000:06:03.0
PCI: Setting latency timer of device 0000:00:1d.1 to 64
uhci_hcd 0000:00:1d.1: UHCI Host Controller
uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 5
uhci_hcd 0000:00:1d.1: irq 11, io base 0x00003060
usb usb5: configuration #1 chosen from 1 choice
hub 5-0:1.0: USB hub found
hub 5-0:1.0: 2 ports detected
PCI: Found IRQ 10 for device 0000:00:1d.2
PCI: Sharing IRQ 10 with 0000:00:1a.0
PCI: Sharing IRQ 10 with 0000:00:1f.3
PCI: Sharing IRQ 10 with 0000:06:02.0
PCI: Setting latency timer of device 0000:00:1d.2 to 64
uhci_hcd 0000:00:1d.2: UHCI Host Controller
uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 6
uhci_hcd 0000:00:1d.2: irq 10, io base 0x00003040
usb usb6: configuration #1 chosen from 1 choice
hub 6-0:1.0: USB hub found
hub 6-0:1.0: 2 ports detected
ohci_hcd: 2006 August 04 USB 1.1 'Open' Host Controller (OHCI) Driver
PCI: Found IRQ 9 for device 0000:00:1a.7
PCI: Sharing IRQ 9 with 0000:00:1a.2
PCI: Sharing IRQ 9 with 0000:02:00.0
PCI: Setting latency timer of device 0000:00:1a.7 to 64
ehci_hcd 0000:00:1a.7: EHCI Host Controller
ehci_hcd 0000:00:1a.7: new USB bus registered, assigned bus number 7
ehci_hcd 0000:00:1a.7: debug port 1
PCI: cache line size of 32 is not supported by device 0000:00:1a.7
ehci_hcd 0000:00:1a.7: irq 9, io mem 0xe03a5c00
ehci_hcd 0000:00:1a.7: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb7: configuration #1 chosen from 1 choice
hub 7-0:1.0: USB hub found
hub 7-0:1.0: 6 ports detected
PCI: Found IRQ 11 for device 0000:00:1d.7
PCI: Sharing IRQ 11 with 0000:00:1d.0
PCI: Setting latency timer of device 0000:00:1d.7 to 64
ehci_hcd 0000:00:1d.7: EHCI Host Controller
ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 8
ehci_hcd 0000:00:1d.7: debug port 1

PCI: cache line size of 32 is not supported by device 0000:00:1d.7
ehci_hcd 0000:00:1d.7: irq 11, io mem 0xe03a5800
ehci_hcd 0000:00:1d.7: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb8: configuration #1 chosen from 1 choice
hub 8-0:1.0: USB hub found
hub 8-0:1.0: 6 ports detected
SCSI subsystem initialized
Driver 'sd' needs updating - please use bus_type methods
libata version 3.00 loaded.
ahci 0000:00:1f.2: version 3.0
PCI: Found IRQ 11 for device 0000:00:1f.2
PCI: Sharing IRQ 11 with 0000:00:1a.1
PCI: Sharing IRQ 11 with 0000:06:00.0
Clocksource tsc unstable (delta = 79876524 ns)
Time: pit clocksource has been installed.
ahci 0000:00:1f.2: AHCI 0001.0200 32 slots 6 ports 3 Gbps 0x3f impl SATA mode
ahci 0000:00:1f.2: flags: 64bit ncq sntf led clo pmp pio slum part
PCI: Setting latency timer of device 0000:00:1f.2 to 64
scsi0 : ahci
scsi1 : ahci
scsi2 : ahci
scsi3 : ahci
scsi4 : ahci
scsi5 : ahci
ata1: SATA max UDMA/133 abar m2048@0xe03a5000 port 0xe03a5100 irq 218
ata2: SATA max UDMA/133 abar m2048@0xe03a5000 port 0xe03a5180 irq 218
ata3: SATA max UDMA/133 abar m2048@0xe03a5000 port 0xe03a5200 irq 218
ata4: SATA max UDMA/133 abar m2048@0xe03a5000 port 0xe03a5280 irq 218
ata5: SATA max UDMA/133 abar m2048@0xe03a5000 port 0xe03a5300 irq 218
ata6: SATA max UDMA/133 abar m2048@0xe03a5000 port 0xe03a5380 irq 218
spurious 8259A interrupt: IRQ7.
ata1: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
ata1.00: ATA-7: ST3160215AS, 4.AAB, max UDMA/133
ata1.00: 312581808 sectors, multi 16: LBA48 NCQ (depth 31/32)
ata1.00: configured for UDMA/133
ata2: SATA link down (SStatus 0 SControl 300)
ata3: SATA link down (SStatus 0 SControl 300)
ata4: SATA link down (SStatus 0 SControl 300)
ata5: SATA link down (SStatus 0 SControl 300)
ata6: SATA link down (SStatus 0 SControl 300)
scsi 0:0:0:0: Direct-Access   ATA   ST3160215AS   4.AA PQ: 0 ANSI: 5
sd 0:0:0:0: [sda] 312581808 512-byte hardware sectors (160042 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sd 0:0:0:0: [sda] 312581808 512-byte hardware sectors (160042 MB)
sd 0:0:0:0: [sda] Write Protect is off
sd 0:0:0:0: [sda] Mode Sense: 00 3a 00 00

```
sd 0:0:0:0: [sda] Write cache: enabled, read cache: enabled, doesn't support DPO or FUA
 sda: sda1 sda2 sda3 sda4 < sda5 >
sd 0:0:0:0: [sda] Attached SCSI disk
PCI: Found IRQ 9 for device 0000:02:00.0
PCI: Sharing IRQ 9 with 0000:00:1a.2
PCI: Sharing IRQ 9 with 0000:00:1a.7
PCI: Setting latency timer of device 0000:02:00.0 to 64
scsi6 : pata_marvell
scsi7 : pata_marvell
ata7: PATA max UDMA/100 cmd 0x2018 ctl 0x2024 bmdma 0x2000 irq 9
ata8: DUMMY
BAR5:00:00 01:7F 02:22 03:CA 04:00 05:00 06:00 07:00 08:00 09:00 0A:00 0B:00 0C:01 0D:00
0E:00 0F:00
kjournald starting.  Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
```

i timed a rpm -qa glibc command

```
[root@centos51 ~]# time rpm -qa glibc
glibc-2.5-18

real    2m27.824s
user    1m52.943s
sys     0m0.870s
```

top shows this ....

```
top - 16:30:35 up 13:39,  3 users,  load average: 0.74, 0.75, 0.33
Tasks:  52 total,   1 running,  51 sleeping,   0 stopped,   0 zombie
Cpu(s):  2.5%us,  0.1%sy,  0.0%ni, 96.2%id,  0.0%wa,  0.0%hi,  1.1%si,  0.0%st
Mem:   6145696k total,    88408k used,  6057288k free,    10040k buffers
Swap:  2048276k total,        0k used,  2048276k free,    56976k cached

  PID USER      PR  NI  VIRT  RES  SHR S %CPU %MEM    TIME+  COMMAND
 2351 root      20   0  2164  912  724 R 26.7  0.0   0:00.46 top
    1 root      20   0  2040  656  568 S  0.0  0.0   0:06.21 init
    2 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kthreadd
    3 root      RT  -5     0    0    0 S  0.0  0.0   0:00.00 migration/0
    4 root      15  -5     0    0    0 S  0.0  0.0   0:00.01 ksoftirqd/0
    5 root      15  -5     0    0    0 S  0.0  0.0   0:00.17 events/0
    6 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 khelper
   55 root      15  -5     0    0    0 S  0.0  0.0   0:00.09 kblockd/0
   59 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 cqueue/0
   61 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 ksuspend_usbd
   66 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 khubd
   69 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kseriod
```

```
  133 root      15  -5     0    0    0 S  0.0  0.0   0:49.66 kapmd
  143 root      20   0     0    0    0 S  0.0  0.0   0:00.00 ubstatd
  145 root      20   0     0    0    0 S  0.0  0.0   0:00.00 pdflush
  146 root      20   0     0    0    0 S  0.0  0.0   0:00.93 pdflush
  147 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kswapd0
  211 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 aio/0
  362 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kpsmoused
  392 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 ata/0
  393 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 ata_aux
  396 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_0
  397 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_1
  398 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_2
  399 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_3
  400 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_4
  401 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_5
  404 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_6
  405 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_7
  406 root      15  -5     0    0    0 S  0.0  0.0   0:01.53 kjournald
  438 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kauditd
  472 root      16  -4  2220  656  384 S  0.0  0.0   0:22.74 udevd
 1590 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kmpathd/0
 1616 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kjournald
 1617 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 kjournald
 1921 root      20   0  1700  588  492 S  0.0  0.0   0:00.76 syslogd
 1924 root      20   0  1652  400  336 S  0.0  0.0   0:00.70 klogd
 1988 root      20   0  6144 1000  632 S  0.0  0.0   0:00.01 sshd
 2004 root      20   0  1876  468  392 S  0.0  0.0   0:00.12 gpm
 2040 xfs       20   0  3800 1640  740 S  0.0  0.0   0:03.77 xfs
 2048 root      20   0  2812 1228  952 S  0.0  0.0   0:00.69 login
 2049 root      20   0  2812 1224  952 S  0.0  0.0   0:00.65 login
 2050 root      20   0  2812 1228  952 S  0.0  0.0   0:00.65 login
 2051 root      20   0  1636  456  396 S  0.0  0.0   0:00.02 mingetty
 2052 root      20   0  1636  456  396 S  0.0  0.0   0:00.02 mingetty
 2053 root      20   0  1636  456  396 S  0.0  0.0   0:00.02 mingetty
 2104 root      20   0  4496 1448 1212 S  0.0  0.0   0:05.73 bash
 2152 root      20   0  4496 1456 1216 S  0.0  0.0   0:11.39 bash
 2196 root      15  -5     0    0    0 S  0.0  0.0   0:00.00 scsi_eh_8
 2198 root      15  -5     0    0    0 S  0.0  0.0   0:00.06 usb-storage
 2281 root      15  -5     0    0    0 S  0.0  0.0   0:00.08 kjournald
 2314 root      20   0  4492 1448 1212 S  0.0  0.0   0:03.11 bash
```

- sree

Subject: Re: Centos 5 6 gigs of ram not working
Posted by rickb on Tue, 18 Mar 2008 10:28:12 GMT
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Hi, we need more details about the problem. Be as specific as possible to receive the most intelligent response.

Subject: Re: Centos 5 6 gigs of ram not working
Posted by gnuyoga on Tue, 18 Mar 2008 11:02:43 GMT
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Let me describe the problem in detail before that i will share my configuration

Processor Intel Core 2 Duo 2.6 Ghz
Mother Board: Intel DG33FB
HardDisk : 160GB SATA
RAM: 6GB (2GB x 3)
OS: Centos 5.1 Server Install
Kernel Version: kernel-PAE-2.6.24-ovz002.2.i686.rpm
Kernel args: acpi=off

When i boot with above kernel, Starting Udev take a long time. It takes more than 30 minutes.

Message i c in the console is

Starting udev: Wait timeout. Will continue in the backgroup [FAILED]

when i run the same machine with less than 4GB of ram i dont have any problem, all VE's work fine.

Reading about openvz kernel for debian, i installed etch and installed the kernel .... but it also takes a long time .....

Message i c in the console is

Waiting for /dev/ to be fully populated .....

That means i have problem when physical ram is more than 4GB. Any one listening ??

- sree

Subject: Re: Centos 5 6 gigs of ram not working
Posted by shuaib85 on Tue, 18 Mar 2008 14:42:16 GMT
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gnuyoga wrote on Tue, 18 March 2008 05:12

when i run the same machine with less than 4GB of ram i dont have any problem, all VE's work fine.

- sree

I believe your mother board does not support more than 4 GB of RAM. You need to check the specifications of the motherboard. I had this problem before and the motherboard does not support certain size of RAM. Just check on the Internet. May be that is the problem

Subject: Re: Centos 5 6 gigs of ram not working
Posted by gnuyoga on Tue, 18 Mar 2008 15:03:11 GMT
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normal kernel just works fine with 6GB of RAM .

- sree

Subject: Re: Centos 5 6 gigs of ram not working
Posted by adobriyan on Wed, 19 Mar 2008 09:43:11 GMT
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Please post /proc/mtrr output from 6G kernel.
Also, why have you turned off ACPI?

Subject: Re: Centos 5 6 gigs of ram not working
Posted by gnuyoga on Thu, 20 Mar 2008 08:14:46 GMT
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without acpi=off it will not boot

BTW i installed X86-64bit Centos 5 and it looks clean with kernel 2.6.24 ovz002.2

i have 6GB of ram 12GB of swap

- sree

Subject: Re: Centos 5 6 gigs of ram not working
Posted by adobriyan on Thu, 20 Mar 2008 16:59:47 GMT
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and you still need acpi=off?

Subject: Re: Centos 5 6 gigs of ram not working
Posted by gnuyoga on Fri, 21 Mar 2008 19:21:06 GMT
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adobriyan,

yes