

Re: Installing FreeBSD 6.0 on IBM BladeCenter HS20 – IT WORKS!

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2006-03/msg00018.html>

- *From:* "Axel S. Gruner" <asg@xxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 1 Mar 2006 08:59:20 +0100
-

Hi,

Am Mittwoch, 1. März 2006 07:48 schrieb Damian Gerow:

Thus spake Stacey Roberts (stacey@xxxxxxxxxxxxxxxxxxxxx) [01/03/06 01:48]:
: Sorry for asking the obvious here, but exactly what type (make /
: protocols) of keyboard are you using for the installation?

Generic PS/2 keyboard. But it's wired in to the blade via USB1.1.

after all, i can say, HEUREKA, FreeBSD 6.1-BETA2 is installed on my IBM Blade Center.

Uh, is used the AMD64 ISO.

I did the installation via Blade Center ManagementModul "Remote Control" and booted the CD from my local workstation.

booting from CD, in bootmenu choose "6" and type:

```
unset acpi_load
load ispfw
load isp
set hint.atkbd.0.disabled="1"
boot
```

Normally FreeBSD should boot into sysinstall and keyboard should work.

Also, i got a problems to find a HD, but after loading "ispfw" and "isp" (well, i think "ispfw" should be enough, this is not loaded in the GENERIC Kernel) i see all my LUNs in the SAN.

Installation from CD did not work, due to input/output errors of /dev/cd0.

Sysinstall was also unable to mount /dev/cd0 to /dist.

But not a problem at all, i configured the network and did the installation via FTP. Works smoothly.

So, after rebooting, systems will hang at "atkbd" and/or the QLOGIC Interface.

So, using the boot prompt and unset acpi, load ispfw and set atkbd (see

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above).

```
/boot/loader.conf:  
# turn off acpi  
# see also /boot/device.hints  
acpi_load="NO"  
# QLOGIC FIBRE  
ispfw_load="YES"
```

/etc/device.hints (add these lines at the end of the file):

```
# disable ACPI  
#see also /boot/loader.conf  
hint.acpi.0.disabled="1"
```

```
hint.atkbd.0.disabled="1"
```

So, reboot the system and just let it boot normally. It should work now.

Here is my dmesg.boot:

```
Copyright (c) 1992–2006 The FreeBSD Project.  
Copyright (c) 1979, 1980, 1983, 1986, 1988, 1989, 1991, 1992, 1993, 1994  
The Regents of the University of California. All rights reserved.  
FreeBSD 6.1–BETA2 #0: Thu Feb 16 22:41:50 UTC 2006  
root@xxxxxxxxxxxxxxxxxxxxxx: /usr/obj/usr/src/sys/GENERIC  
Timecounter "i8254" frequency 1193182 Hz quality 0  
CPU: Intel(R) Xeon(TM) CPU 3.20GHz (3200.13–MHz K8–class CPU)  
Origin = "GenuineIntel" Id = 0xf43 Stepping = 3
```

```
Features=0xbfebfbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,PSE  
Features2=0x641d<SSE3,RSVD2,MON,DS_CPL,CNTX–ID,CX16,<b14>>  
AMD Features=0x20000800<SYSCALL,LM>  
Hyperthreading: 2 logical CPUs  
real memory = 1073471488 (1023 MB)  
avail memory = 1024393216 (976 MB)  
cpu0 on motherboard  
pcib0: <Host to PCI bridge> pcibus 0 on motherboard  
pci0: <PCI bus> on pcib0  
pci0: <unknown> at device 0.1 (no driver attached)  
pcib1: <PCI–PCI bridge> at device 3.0 on pci0  
pci4: <PCI bus> on pcib1  
pcib2: <PCI–PCI bridge> at device 0.0 on pci4  
pci6: <PCI bus> on pcib2  
isp0: <Qlogic ISP 2312 PCI FC–AL Adapter> port 0x5000–0x50ff mem  
0xdaff000–0xdafffff irq 7 at device 1.0 on pci6  
isp0: [GIANT–LOCKED]  
isp0: bad execution throttle of 0– using 16  
isp0: bad hard address 125– resetting to zero  
isp1: <Qlogic ISP 2312 PCI FC–AL Adapter> port 0x5100–0x51ff mem  
0xdaffe000–0xdafffff irq 5 at device 1.1 on pci6  
isp1: [GIANT–LOCKED]  
isp1: bad execution throttle of 0– using 16
```

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isp1: bad hard address 125– resetting to zero
pcib3: <PCI–PCI bridge> at device 0.2 on pci4
pci5: <PCI bus> on pcib3
bge0: <Broadcom BCM5704S Dual Gigabit Ethernet, ASIC rev. 0x2100> mem
0xdcff0000–0xdcffff irq 7 at device 1.0 on pci5
bge0: Ethernet address: 00:14:5e:3c:a7:18
bge1: <Broadcom BCM5704S Dual Gigabit Ethernet, ASIC rev. 0x2100> mem
0xdcfe0000–0xdcfefff irq 5 at device 1.1 on pci5
bge1: Ethernet address: 00:14:5e:3c:a7:19
pci0: <base peripheral> at device 8.0 (no driver attached)
pcib4: <PCI–PCI bridge> at device 28.0 on pci0
pci2: <PCI bus> on pcib4
mpt0: <LSILogic 1030 Ultra4 Adapter> port 0x4000–0x40ff mem
0xdef0000–0xdefffff,0xdefe0000–0xdefefff irq 10 at device 1.0 on pci2
mpt0: [GIANT–LOCKED]
mpt0: MPI Version=1.2.15.0
mpt0: Unhandled Event Notify Frame. Event 0xa.
mpt0: Capabilities: (RAID–1E RAID–1 SAFTE)
mpt0: 0 Active Volumes (1 Max)
mpt0: 0 Hidden Drive Members (6 Max)
uhci0: <UHCI (generic) USB controller> port 0x2200–0x221f irq 10 at device
29.0 on pci0
uhci0: [GIANT–LOCKED]
usb0: <UHCI (generic) USB controller> on uhci0
usb0: USB revision 1.0
uhub0: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub0: 2 ports with 2 removable, self powered
uhci1: <UHCI (generic) USB controller> port 0x2600–0x261f irq 5 at device 29.1
on pci0
uhci1: [GIANT–LOCKED]
usb1: <UHCI (generic) USB controller> on uhci1
usb1: USB revision 1.0
uhub1: Intel UHCI root hub, class 9/0, rev 1.00/1.00, addr 1
uhub1: 2 ports with 2 removable, self powered
pci0: <base peripheral> at device 29.4 (no driver attached)
pci0: <base peripheral, interrupt controller> at device 29.5 (no driver
attached)
pcib5: <PCI–PCI bridge> at device 30.0 on pci0
pci1: <PCI bus> on pcib5
pci1: <display, VGA> at device 1.0 (no driver attached)
isab0: <PCI–ISA bridge> at device 31.0 on pci0
isa0: <ISA bus> on isab0
atapci0: <Intel 6300ESB UDMA100 controller> port
0x1f0–0x1f7,0x3f6,0x170–0x177,0x376 at device 31.1 on pci0
ata0: <ATA channel 0> on atapci0
ata1: <ATA channel 1> on atapci0
pci0: <serial bus, SMBus> at device 31.3 (no driver attached)
orm0: <ISA Option ROM> at iomem 0xc0000–0xc8fff on isa0
atkbd0: <Keyboard controller (i8042)> at port 0x60,0x64 on isa0
psm0: unable to get the current command byte value.
ppc0: cannot reserve I/O port range

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```
sc0: <System console> at flags 0x100 on isa0
sc0: VGA <16 virtual consoles, flags=0x300>
sio0 at port 0x3f8–0x3ff irq 4 flags 0x10 on isa0
sio0: type 16550A
sio1: configured irq 3 not in bitmap of probed irqs 0
sio1: port may not be enabled
vga0: <Generic ISA VGA> at port 0x3c0–0x3df iomem 0xa0000–0xbffff on isa0
uhub2: Cypress Semiconductor 4 Port Hub, class 9/0, rev 1.10/0.01, addr 2
uhub2: 4 ports with 4 removable, self powered
umass0: TEAC TEAC FD–05PUB, rev 2.00/0.00, addr 3
umass1: In–System Design USB Storage Adapter, rev 1.10/1.00, addr 4
uhub3: Cypress Semiconductor 4 Port Hub, class 9/0, rev 1.10/0.01, addr 5
uhub3: 4 ports with 4 removable, bus powered
ukbd0: IBM PPC I/F, rev 1.10/0.01, addr 6, iclass 3/1
kbd0 at ukbd0
ums0: IBM PPC I/F, rev 1.10/0.01, addr 6, iclass 3/1
ums0: X report 0x0002 not supported
device_attach: ums0 attach returned 6
ukbd1: IBM HIDK/M, rev 1.10/0.01, addr 7, iclass 3/1
kbd1 at ukbd1
ums0: IBM HIDK/M, rev 1.10/0.01, addr 7, iclass 3/1
ums0: 3 buttons and Z dir.
Timecounter "TSC" frequency 3200130672 Hz quality 800
Timecounters tick every 1.000 msec
module_register_init: MOD_LOAD (amr_linux, 0xffffffff805ebcc0, 0) error 6
Waiting 5 seconds for SCSI devices to settle
da0 at isp0 bus 0 target 0 lun 0
da0: <LSI INF–01–00 0612> Fixed Direct Access SCSI–3 device
da0: 200.000MB/s transfers, Tagged Queueing Enabled
da0: 20480MB (41943040 512 byte sectors: 255H 63S/T 2610C)
da1 at isp0 bus 0 target 1 lun 0
da1: <LSI INF–01–00 0612> Fixed Direct Access SCSI–3 device
da1: 200.000MB/s transfers, Tagged Queueing Enabled
da1: 20480MB (41943040 512 byte sectors: 255H 63S/T 2610C)
da2 at isp1 bus 0 target 0 lun 0
da2: <LSI INF–01–00 0612> Fixed Direct Access SCSI–3 device
da2: 200.000MB/s transfers, Tagged Queueing Enabled
da2: 20480MB (41943040 512 byte sectors: 255H 63S/T 2610C)
da3 at isp1 bus 0 target 1 lun 0
da3: <LSI INF–01–00 0612> Fixed Direct Access SCSI–3 device
da3: 200.000MB/s transfers, Tagged Queueing Enabled
da3: 20480MB (41943040 512 byte sectors: 255H 63S/T 2610C)
da4 at umass–sim0 bus 0 target 0 lun 0
da4: <TEAC FD–05PUB 3200> Removable Direct Access SCSI–0 device
da4: 1.000MB/s transfers
da4: Attempt to query device size failed: NOT READY, Medium not present
cd0 at umass–sim1 bus 1 target 0 lun 0
cd0: <HL–DT–ST DVD–ROM GDR8082N 0L03> Removable CD–ROM SCSI–0 device
cd0: 1.000MB/s transfers
cd0: Attempt to query device size failed: NOT READY, Medium not present
(da4:umass–sim0:0:0:0): READ CAPACITY. CDB: 25 0 0 0 0 0 0 0 0
```

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```
(da4:umass-sim0:0:0:0): CAM Status: SCSI Status Error
(da4:umass-sim0:0:0:0): SCSI Status: Check Condition
(da4:umass-sim0:0:0:0): NOT READY asc:3a,0
(da4:umass-sim0:0:0:0): Medium not present
(da4:umass-sim0:0:0:0): Unretryable error
Opened disk da4 -> 6
(da4:umass-sim0:0:0:0): READ CAPACITY. CDB: 25 0 0 0 0 0 0 0 0
(da4:umass-sim0:0:0:0): CAM Status: SCSI Status Error
(da4:umass-sim0:0:0:0): SCSI Status: Check Condition
(da4:umass-sim0:0:0:0): NOT READY asc:3a,0
(da4:umass-sim0:0:0:0): Medium not present
(da4:umass-sim0:0:0:0): Unretryable error
Opened disk da4 -> 6
(da4:umass-sim0:0:0:0): READ CAPACITY. CDB: 25 0 0 0 0 0 0 0 0
(da4:umass-sim0:0:0:0): CAM Status: SCSI Status Error
(da4:umass-sim0:0:0:0): SCSI Status: Check Condition
(da4:umass-sim0:0:0:0): NOT READY asc:3a,0
(da4:umass-sim0:0:0:0): Medium not present
(da4:umass-sim0:0:0:0): Unretryable error
Opened disk da4 -> 6
Trying to mount root from ufs:/dev/da0s1a
```

```
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