Linux on CheckPoint 5200

Hardware

- System CheckPoint PB-20-00
- Version: PB-20-1.4
- Motherboard: INTEL DENLOW_REFRESH_WS
- BIOS: American Megatrends
    - Core Version: 4.6.5.5
    - Compliancy: UEFI 2.3.1; PI 1.2
    - Project Version: 1ARXO 0.20 x64
    - BIOS Version: R1.4

lspci

```
00:00.0 Host bridge: Intel Corporation 4th Gen Core Processor DRAM
Controller (rev 06)
00:01.0 PCI bridge: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor
PCI Express x16 Controller (rev 06)
00:01.1 PCI bridge: Intel Corporation Xeon E3-1200 v3/4th Gen Core Processor
PCI Express x8 Controller (rev 06)
00:02.0 VGA compatible controller: Intel Corporation Xeon E3-1200 v3/4th Gen
Core Processor Integrated Graphics Controller (rev 06)
00:1a.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset
Family USB EHCI #2 (rev 05)
00:1c.0 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family
PCI Express Root Port #1 (rev d5)
00:1c.1 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family
PCI Express Root Port #2 (rev d5)
00:1c.2 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family
PCI Express Root Port #3 (rev d5)
00:1c.3 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family
PCI Express Root Port #4 (rev d5)
00:1c.4 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family
PCI Express Root Port #5 (rev d5)
00:1c.5 PCI bridge: Intel Corporation 8 Series/C220 Series Chipset Family
PCI Express Root Port #6 (rev d5)
00:1d.0 USB controller: Intel Corporation 8 Series/C220 Series Chipset
Family USB EHCI #1 (rev 05)
00:1f.0 ISA bridge: Intel Corporation C226 Series Chipset Family Server
Advanced SKU LPC Controller (rev 05)
00:1f.2 SATA controller: Intel Corporation 8 Series/C220 Series Chipset
Family 6-port SATA Controller 1 [AHCI mode] (rev 05)
00:1f.3 SMBus: Intel Corporation 8 Series/C220 Series Chipset Family SMBus
Controller (rev 05)
03:00.0 Ethernet controller: Intel Corporation I211 Gigabit Network
Connection (rev 03)
```

```
04:00.0 Ethernet controller: Intel Corporation I211 Gigabit Network
Connection (rev 03)
05:00.0 Ethernet controller: Intel Corporation I211 Gigabit Network
Connection (rev 03)
06:00.0 Ethernet controller: Intel Corporation I211 Gigabit Network
Connection (rev 03)
07:00.0 Ethernet controller: Intel Corporation I211 Gigabit Network
Connection (rev 03)
08:00.0 Ethernet controller: Intel Corporation I211 Gigabit Network
Connection (rev 03)
```

Serial Console

The BIOS is available on the serial console port at the front with 9600 baud.

You can use it with 115200 baud on Linux with the kernel boot option:

```
console=ttyS0,115200n8
```

Booting

You can just plug in a live ISO to the front USB port and it boots from it.

Default Boot Order

1. USB Key
2. USB Hard Disk
3. USB CD/DVD
4. USB Floppy
5. Hard Disk
6. Network

BIOS

The BIOS is protected by a password.

Three wrong password attempts just forces a reboot of the system.

Remove BIOS Password

1. Unplug power
2. Open Case
3. Remove CMOS battery
4. wait for 15 - 30 min

5. Reinsert CMOS battery
6. Connect console cable 9600 baud
7. plug power back in
8. System starts
9. Console shows CMOS checksum error, displays options
10. Press F1 - Setup
11. You are in the BIOS Setup now
12. Press F4 - Save Config and Reset
13. System reboots
14. BIOS is without a password now

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