



Converting a Cisco CDE250 TV CDS System to an Internet Streamer CDS System (v2.0 BIOS)

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To convert a Cisco CDE250 TV CDS system with version 2.0 BIOS (a non-hyperthreading configurable BIOS) to an Internet Streamer CDS system, perform the following steps:



Note

This procedure only applies if your CDE250 TV system has BIOS revision older than 2.0c. If your BIOS is revision 2.0c or later, then you only need to do Step 11.

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- Step 1** Connect a VGA monitor and keyboard to the TV CDS system.
 - Step 2** Restart the TV CDS system.
 - Step 3** When the AMIBIOS American Megatrends, Inc. screen is displayed, enter the BIOS Setup Menu by pressing <Delete> several times.



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172.22.67.106 - PuTTY

AMIBIOS (C) 2008 American Megatrends, Inc.
Supermicro X8DAH+/X8DAH+-F BIOS Date: 10/17/11 Rev: 2.0
CPU : Intel(R) Xeon(R) CPU E5620 @ 2.40GHz
Speed : 2.40 GHz Count : 2

Press DEL to run Setup (F4 on Remote Keyboard)
Press F12 if you want to boot from the network
Press F11 for BBS POPUP (F3 on Remote Keyboard)
The QPI Frequency :5.866GT
The IMC is operating with DDR3 1066 Mhz
Memory Type :RDIMM(ECC mode)

IPMI card is first powered.
System waits for its initialization.....

(C) American Megatrends, Inc.
66-3047-009999-00101111-101711-TYLSBURG-10100000-Y2KC
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```

The BIOS Setup screen is displayed.

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Main  Advanced  Security  Boot  Exit
*****
* System Overview * Use [ENTER], [TAB] *
* ***** * or [SHIFT-TAB] to *
* System Time [20:14:01] * select a field. *
* System Date [Wed 10/26/2011] * *
* * * Use [+] or [-] to *
* SuperMicro X8DAH * configure system Time. *
* Version :2.0 * *
* Build Date :10/17/11 * *
* * * *
* Processor * *
* Intel(R) Xeon(R) CPU E5620 @ 2.40GHz * *
* Speed :2400MHz * *
* Physical Count :2 * *
* Logical Count :16 * *
* * * ****:Move *
* System Memory * Enter:Select *
* Size :49152MB * +/-:Value *
* * * F10:Save *
* * * ESC:Exit *
* * * F1:General Help *
* * * F8:Fail-Safe Defaults *
* * * F9:Optimized Defaults *
*****
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```

Step 4 Select the **Advanced -> Processor & Clock Options** menu.

```

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Advanced
*****
* Advanced - Processor & Clock Options          ** Auto - Maximum Ratio
* *****                                     ** Manu - Manual Ratio
* Intel(R) Xeon(R) CPU E5620 @ 2.40GHz          **
* Frequency :2.40GHz                            **
* CPUID :206C2                                  **
* Microcode Revision :14                       **
* Cache L1 :256 KB                             **
* Cache L2 :1024 KB                            **
* Cache L3 :12288 KB                           **
* Ratio Status :Unlocked (Min:12, Max:18)       **
* Ratio Actual Value :18                       **
*
* CPU Ratio [Auto]                            ** ****:Move
* Clock Spread Spectrum [Disabled]            ** Enter:Select
* Hardware Prefetcher [Enabled]               ** +/-:Value
* Adjacent Cache Line Prefetch [Enabled]      ** F10:Save
* DCU Prefetcher [Enabled]                   ** ESC:Exit
* Data Reuse Optimization [Enabled]          ** F1:General Help
* MPS and ACPI MADT Ordering [Modern ordering] ** F8:Fail-Safe Defaults*
* Intel(R) Virtualization Tech [Enabled]      ** F9:Optimized Defaults*
*****
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Step 5 Using the <Down Arrow>, navigate to the **Simultaneous Multi-Threading** option and press <Enter>. The following screen appears:

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Advanced
*****
* Frequency :2.40GHz                            ** When 'Disabled' only
* CPUID :206C2                                  ** one thread per enabled
* Microcode Revision :14                       ** core is enabled.
* Cache L1 :256 KB                             **
* Cache L2 :1024 KB                            **
* Cache L3 :12288 KB                           **
* Ratio Status :Unlocked (Min:12, Max:18)       **
* Ratio Actual Value :18                       **
*
*          *** Options ***
* CPU Ratio * Enabled *
* Clock Spread Spectrum * Disabled *
* Hardware Prefetcher *****
* Adjacent Cache Line Prefetch [Enabled]      ** ****:Move
* DCU Prefetcher [Enabled]                   ** Enter:Select
* Data Reuse Optimization [Enabled]          ** +/-:Value
* MPS and ACPI MADT Ordering [Modern ordering] ** F10:Save
* Intel(R) Virtualization Tech [Enabled]      ** ESC:Exit
* Execute-Disable Bit Capability [Enabled]    ** F1:General Help
* Intel AES-NI [Disabled]                    ** F8:Fail-Safe Defaults*
* Simultaneous Multi-Threading [Disabled]     ** F9:Optimized Defaults*
*****
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Step 6 Enable Simultaneous Multi-Threading by selecting the **Enabled** option and pressing <Enter>. The following screen appears:

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172.22.67.106 - PuTTY
Advanced
*****
* Frequency          :2.40GHz          ** When 'Disabled' only *
* CPUID              :206C2            ** one thread per enabled *
* Microcode Revision :14              ** core is enabled.     *
* Cache L1           :256 KB          **                       *
* Cache L2           :1024 KB         **                       *
* Cache L3           :12288 KB        **                       *
* Ratio Status       :Unlocked (Min:12, Max:18) **                   *
* Ratio Actual Value :18              **                       *
*                   **                       *
* CPU Ratio          [Auto]           **                       *
* Clock Spread Spectrum [Disabled]    **                       *
* Hardware Prefetcher [Enabled]       **                       *
* Adjacent Cache Line Prefetch [Enabled] ** ****:Move           *
* DCU Prefetcher     [Enabled]        ** Enter:Select        *
* Data Reuse Optimization [Enabled]    ** +/-:Value          *
* MPS and ACPI M&DT Ordering [Modern ordering] ** F10:Save           *
* Intel(R) Virtualization Tech [Enabled] ** ESC:Exit           *
* Execute-Disable Bit Capability [Enabled] ** F1:General Help    *
* Intel AES-NI       [Disabled]       ** F8:Fail-Safe Defaults*
* Simultaneous Multi-Threading [Enabled] ** F9:Optimized Defaults*
*****
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- Step 7** Press <Esc> to return to the Main Menu.
- Step 8** Select **Exit -> Save Changes** to exit the menu.
- Step 9** Press <Enter>, the following screen appears:

```

172.22.67.106 - PuTTY
Main  Advanced  Security  Boot  Exit
*****
* Exit Options          * Exit system setup *
* *****             * after saving the *
* Save Changes and Exit * changes.         *
* Discard Changes and Exit *                   *
* Discard Changes      * F10 key can be used *
*                       * for this operation. *
* Load Optimal D***** *
* Load Failsafe *
* * Save configuration changes and exit setup? *
* *
* *****
* * [Ok] [Cancel] *
* * *****ove
* * Enter:Select
* * +/-:Value
* * F10:Save
* * ESC:Exit
* * F1:General Help
* * F8:Fail-Safe Defaults*
* * F9:Optimized Defaults*
*****
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- Step 10** Press <Enter> again to save the configuration changes and reboot.
- Step 11** After the system reboots, perform the software installation of the Internet Streamer CDS system by booting from the 2.6.3 or later Manufacturing CD/DVD.

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