

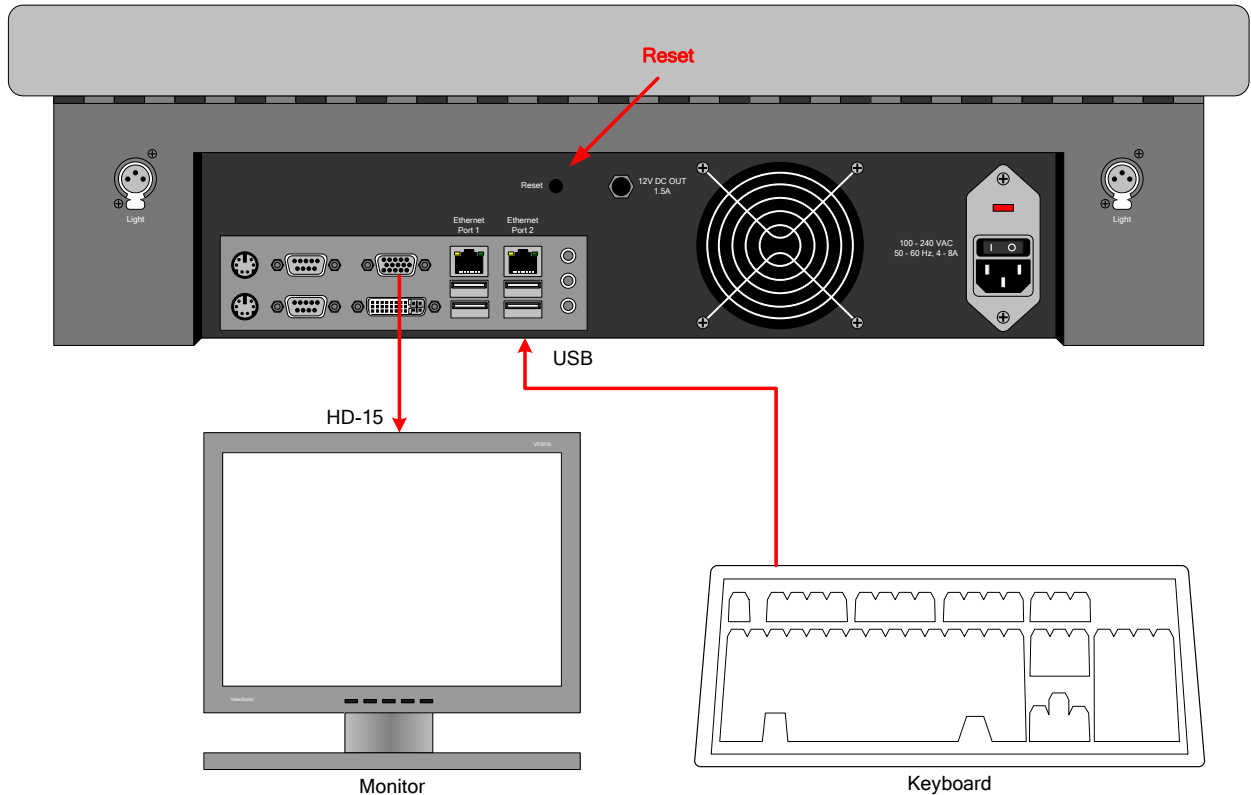
1 BIOS SETUP

1.1 UPDATE BIOS SETTINGS

This section updates the SBC's BIOS settings.

Preliminary instructions:

1. Connect equipment as shown below.



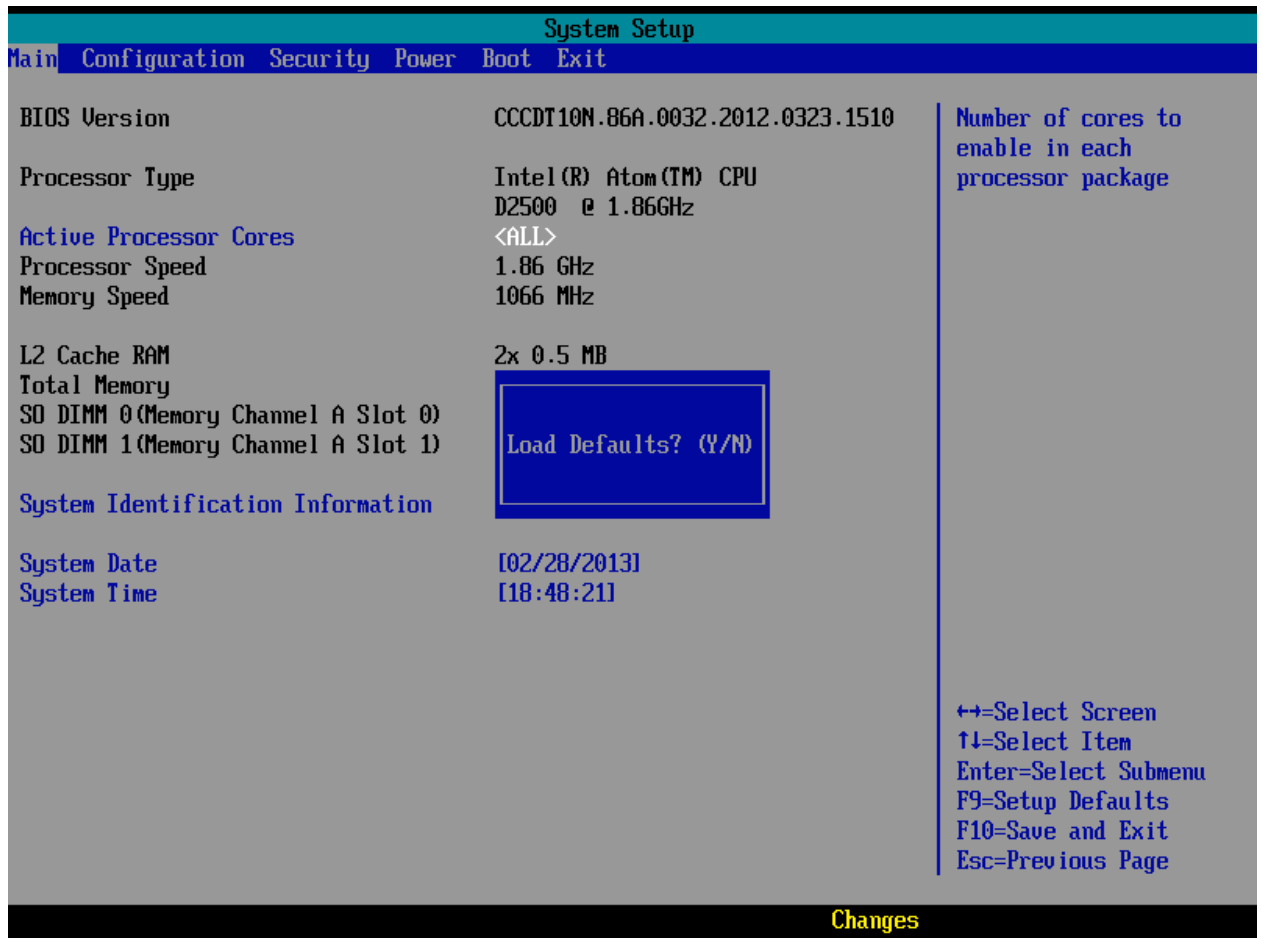
Procedure and pass criteria:

1. Apply power to the UUT.
2. Press the "Reset" button located on the rear panel.
3. Verify the Rear Panel's fan is exhausting out of the chassis (i.e. blowing out).
4. At the Intel splash screen, press [F2] on the keyboard several times to enter the BIOS CMOS Setup Utility. (**Note:** the window of time to enter BIOS mode is small, hence the need to press [F2] several times)

SBC Total Memory and Processor

1. From the "Main" menu:

2. Press [F9], Setup Defaults
3. Press [y], Load Defaults

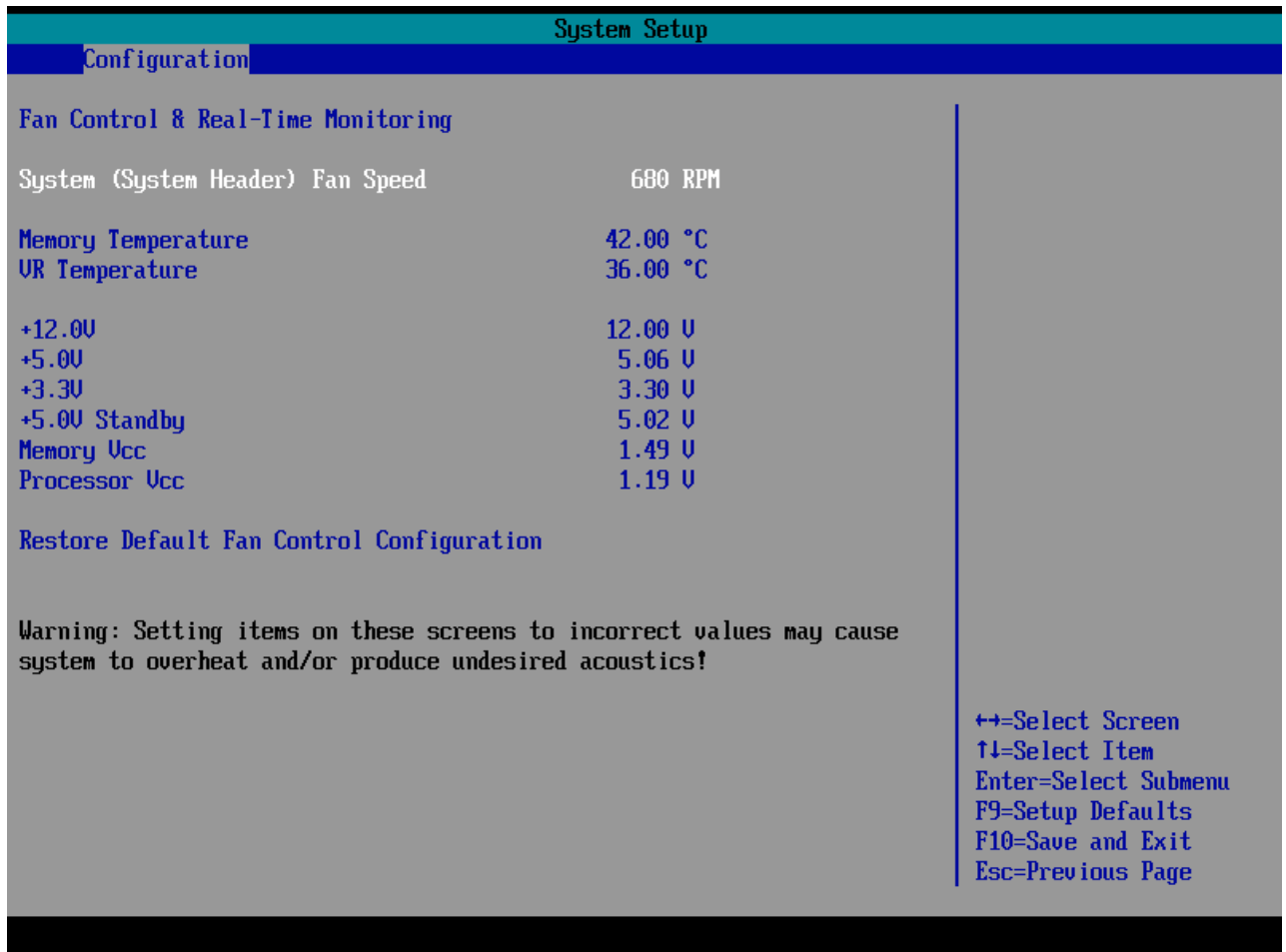


4. Verify "Total Memory": 2 GB
5. Verify "Processor Speed": 1.86GHz

System Setup		
Main	Configuration	Security Power Boot Exit
BIOS Version	CCCDT10N.86A.0032.2012.0323.1510	Number of cores to enable in each processor package
Processor Type	Intel(R) Atom(TM) CPU D2500 @ 1.86GHz	
Active Processor Cores	<ALL>	
Processor Speed	1.86 GHz	←
Memory Speed	1066 MHz	
L2 Cache RAM	2x 0.5 MB	
Total Memory	2 GB	←
SO DIMM 0 (Memory Channel A Slot 0)	Not Installed	
SO DIMM 1 (Memory Channel A Slot 1)	2 GB	
System Identification Information		
System Date	[02/09/2013]	
System Time	[17:39:03]	
←=Select Screen ↑↓=Select Item Enter=Select Submenu F9=Setup Defaults F10=Save and Exit Esc=Previous Page		

Configuration

1. From the "Configuration" menu
2. Select "Fan Control & Real-Time Monitoring"
3. Verify all voltages are +/-5% of their nominal values.



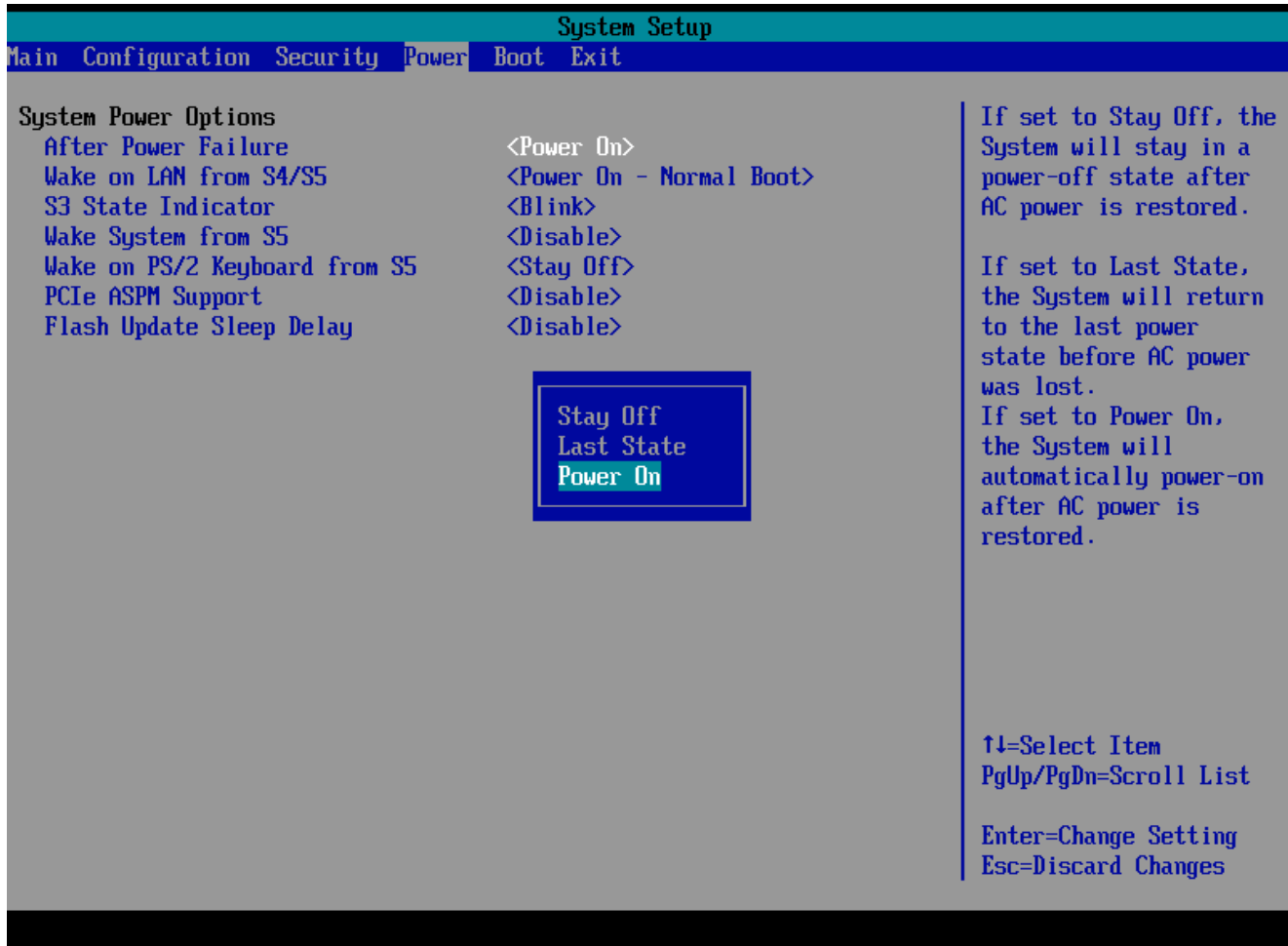
4. Select "System (System Header) Fan Speed"
5. Set "Minimum Duty Cycle (%)" to 100.
6. Press [Enter] to change setting.

System Setup			
Configuration			
System Fan			
Current Fan Speed	649 RPM		
	Proposed	Active	Default
Fan Usage	<System>	System	System
Control Mode	<Auto>	Manual	Auto
Under-Speed Threshold (RPM)	[250]	250	250
Minimum Duty Cycle (%)	[100]	20	20
Maximum Duty Cycle (%)	[100]	100	100
Warning: Setting items on these screens to incorrect values may cause system to overheat and/or produce undesired acoustics!			
↑↓=Select Item Enter=Select Submenu F9=Setup Defaults F10=Save and Exit Esc=Previous Page			
Changes			

7. Press [Esc] to exit the monitoring screen.

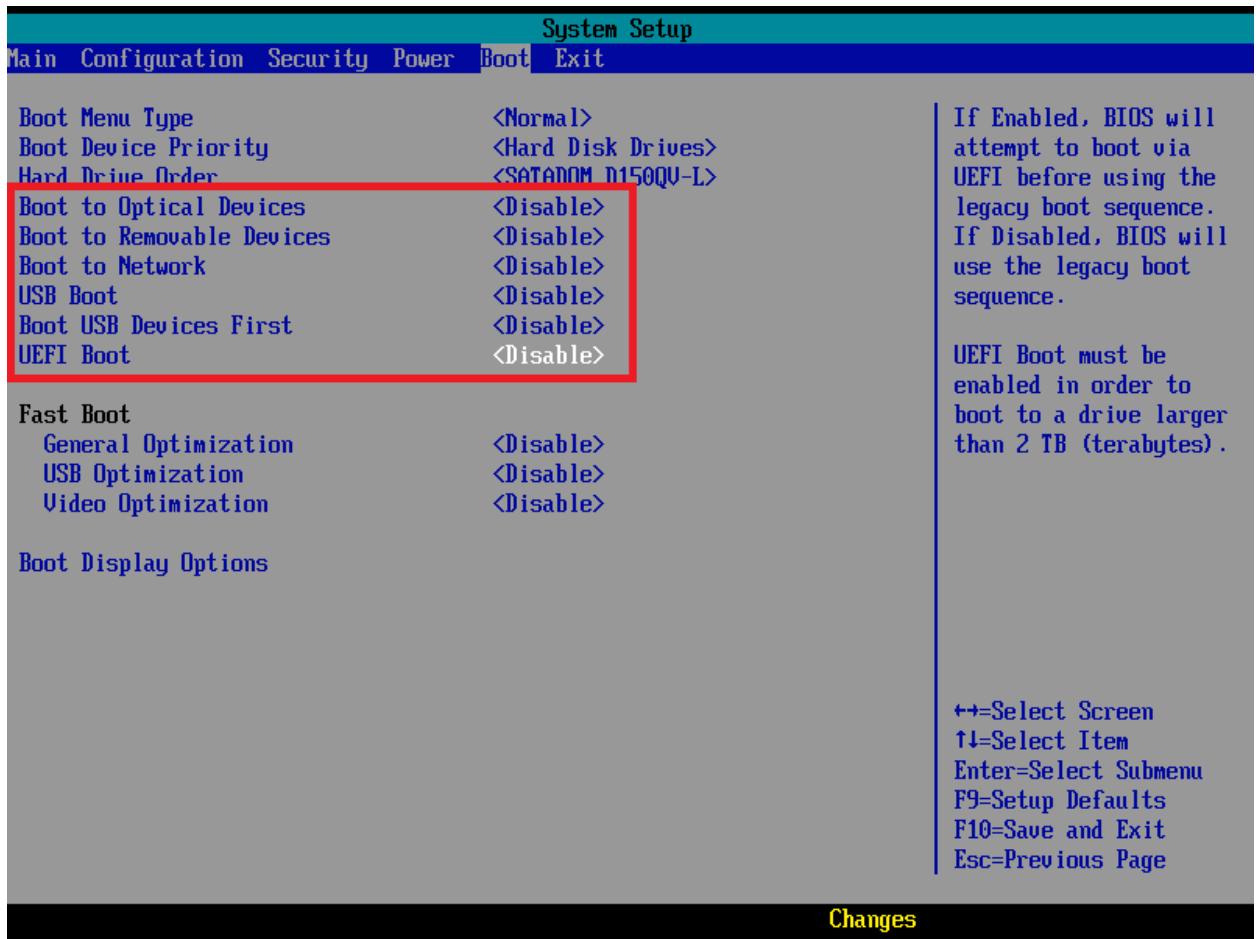
Power

1. From the "Power" menu:
2. Select "After Power Failure"
3. Select "Power On"
4. Press [Enter]

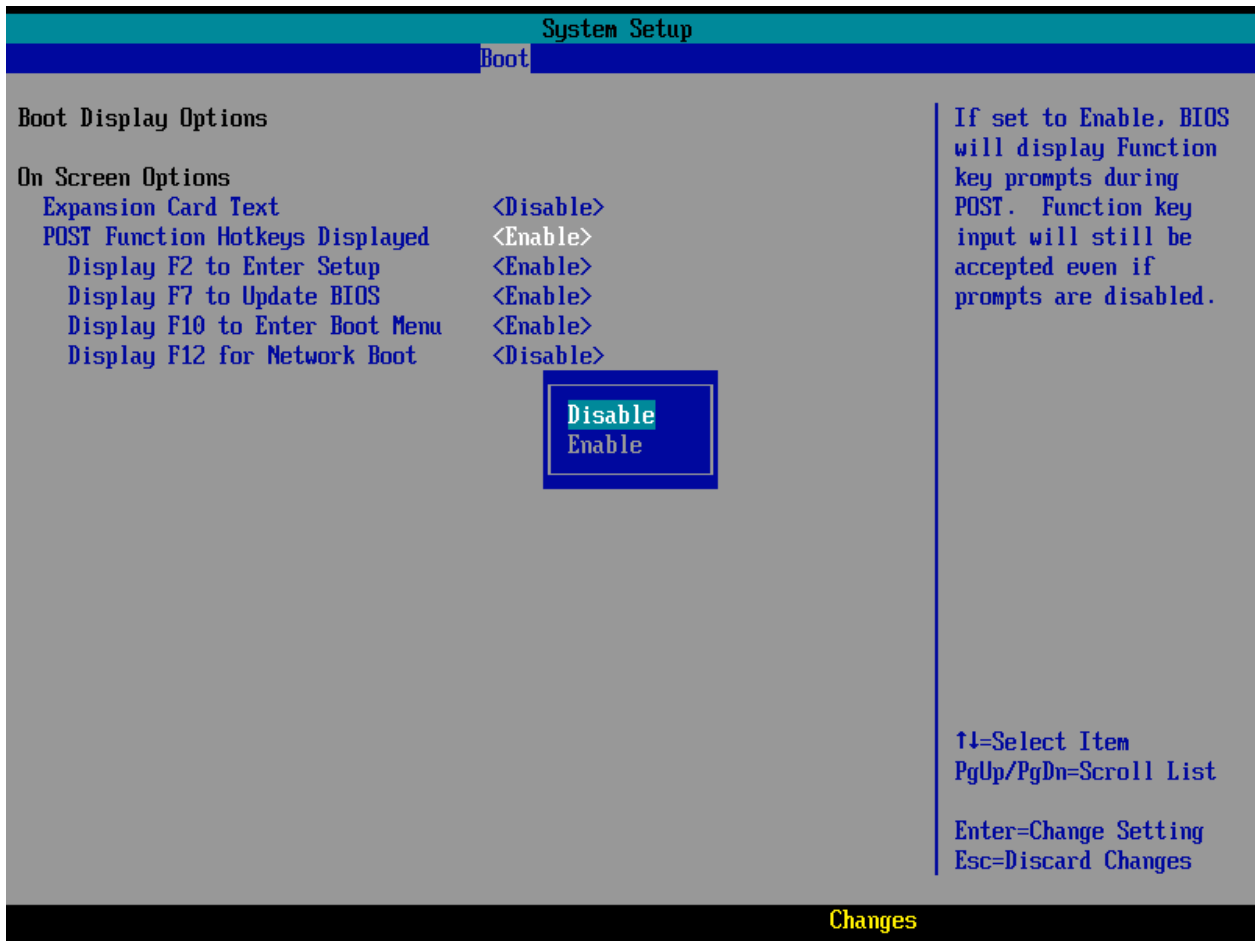


Boot

1. From the "Boot" menu:
2. Disable the following Boot devices:



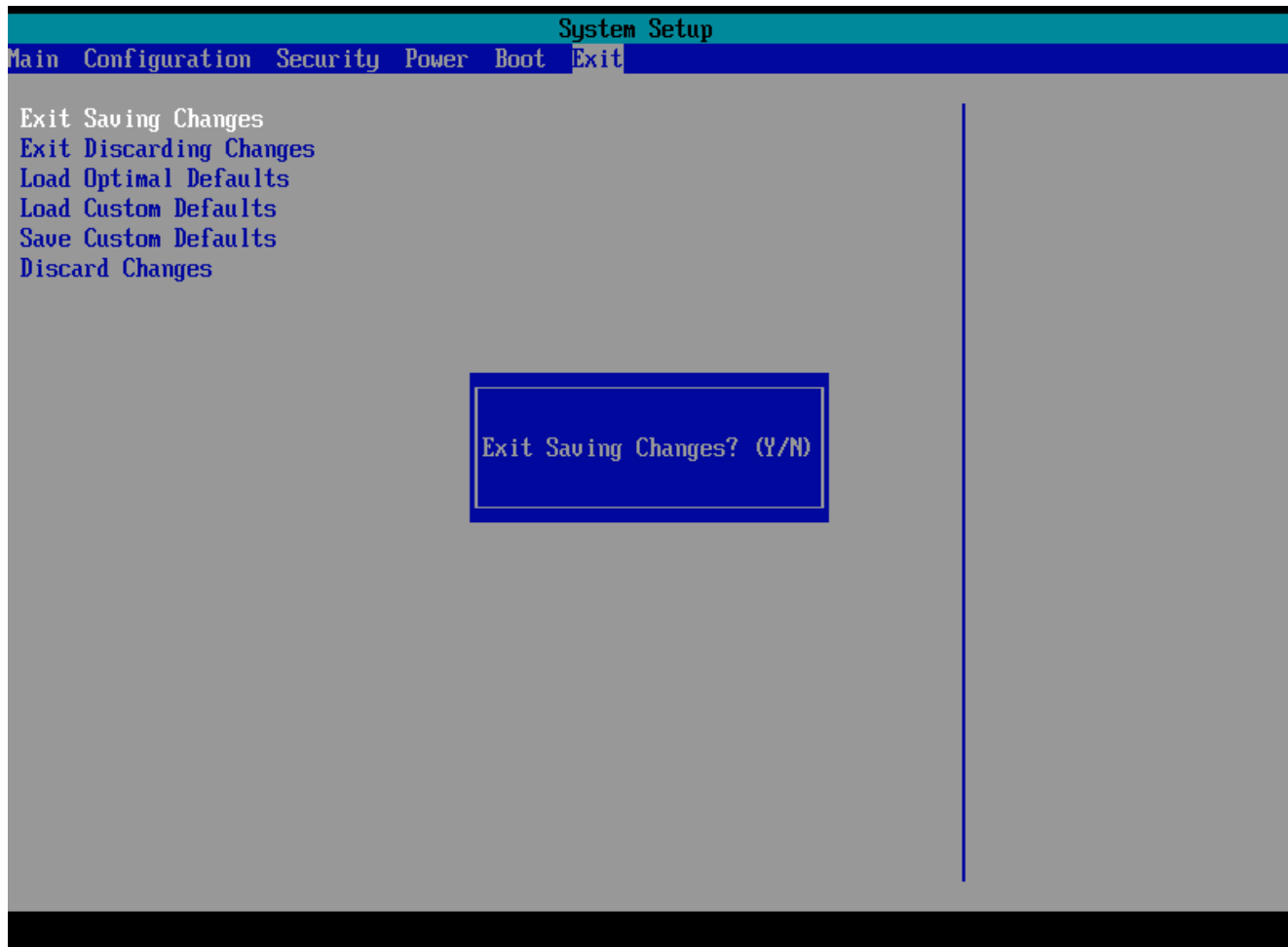
3. Select "Boot Display Options"
4. Select "POST Function Hotkeys Displayed"
5. Select "Disable"
6. Press [Enter]



7. Press [Esc] to exit the Boot menu.

Exit

1. From the "Exit" menu:
2. Select "Exit Saving Changes"
3. Press [Enter].



4. "Exit Saving Changes?", press "y"