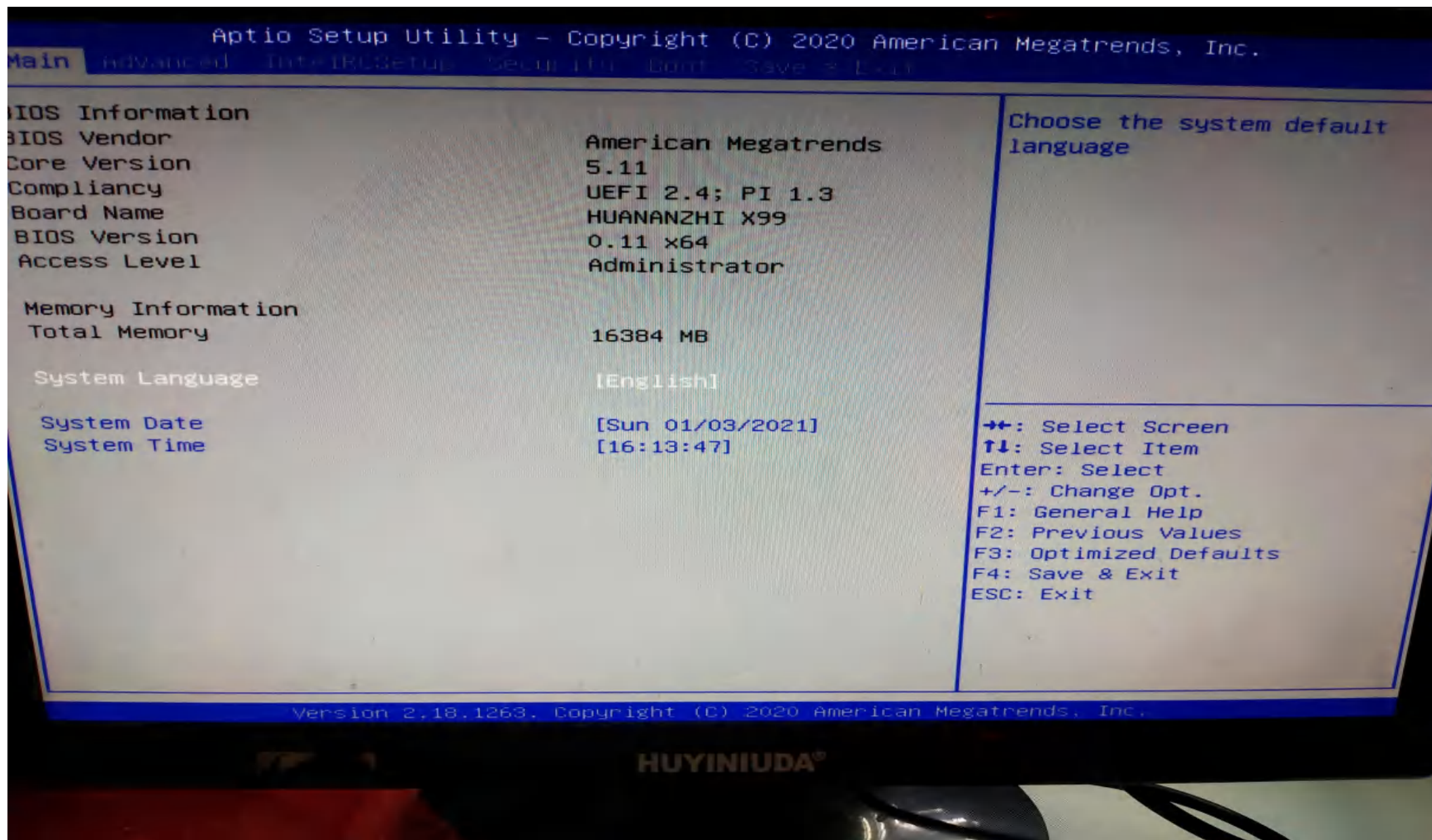
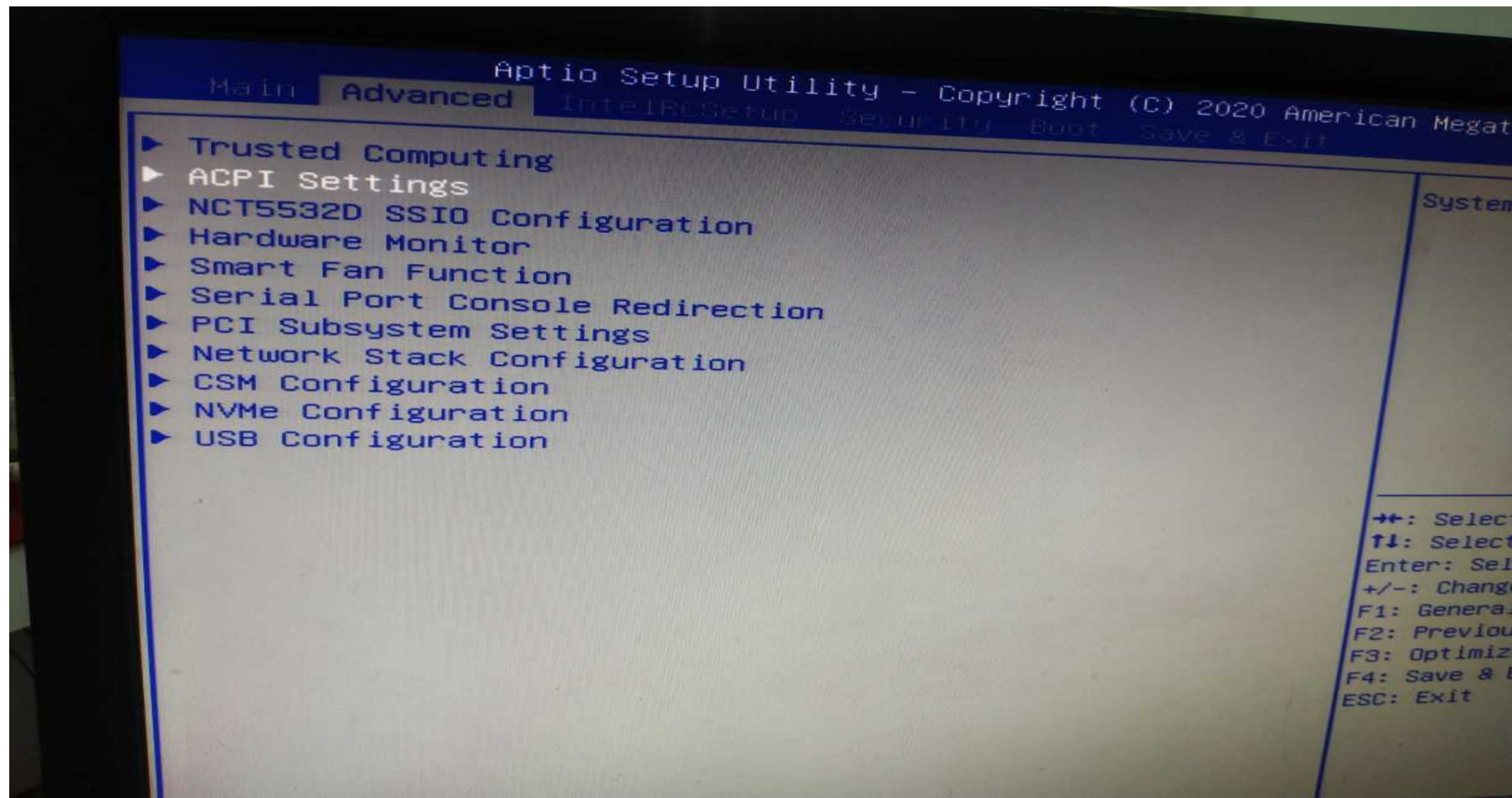


# X99-BD4/BD3主板

Delete/Esc为进入BIOS键 F4为保存键 F7为快捷启动键



# S3睡眠



Advanced

Aptio Setup Utility - Copyright (C) 2020 American Megatrends, Inc.

ACPI Settings

Enable ACPI Auto Configuration

[Disabled]

Enable Hibernation

[Enabled]

ACPI Sleep State

[S3 (Suspend to RAM)]

Lock Legacy Resources

[Disabled]

Select the highest ACPI sleep state the system will enter when the SUSPEND button is pressed.

ACPI Sleep State  
Suspend Disabled  
S1 (CPU Stop Clock)  
S3 (Suspend to RAM)

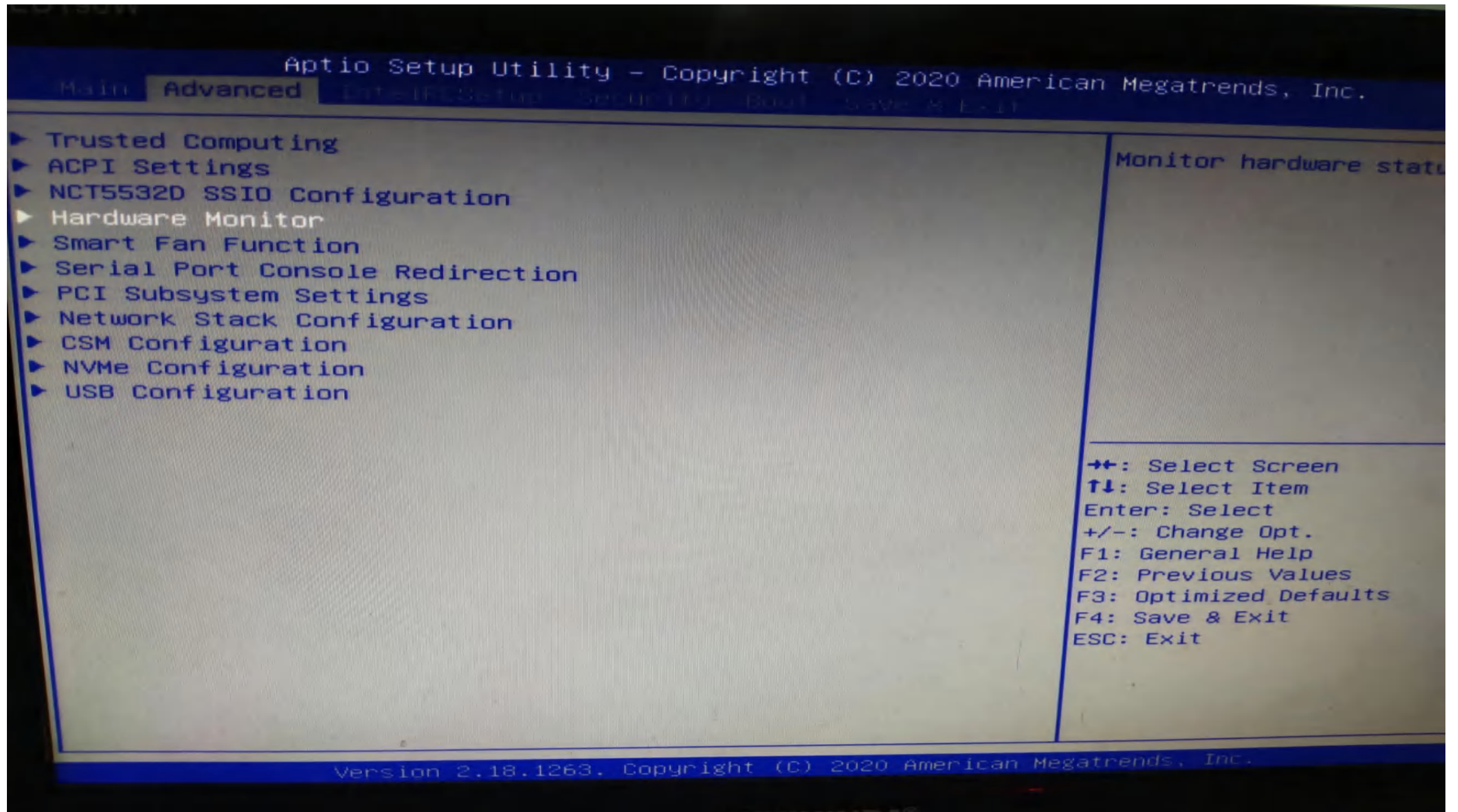
→+: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F3: Optimized Defaults  
F4: Save & Exit  
ESC: Exit

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HUYINIUDA®



## CPU的温度和转速



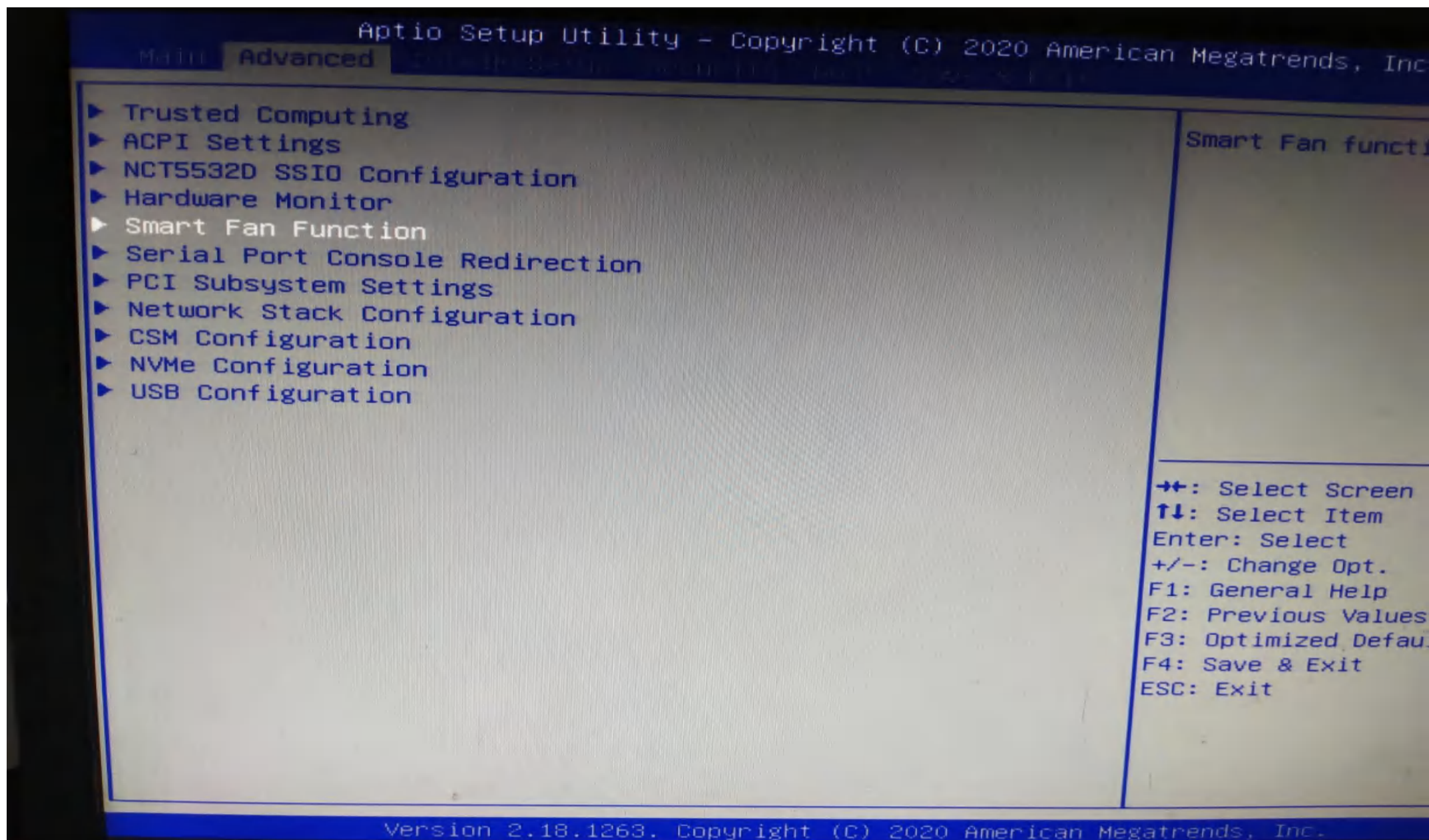
Advanced

Pc Health Status

CPU 1 temperature	: +89 °C
CPU 2 temperature	: N/A
CPU Fan 1 Speed	: 1872 RPM
CPU Fan 2 Speed	: N/A

→+: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F3: Optimized Defaults  
F4: Save & Exit  
ESC: Exit

## CPU的温控转速调整





Advanced

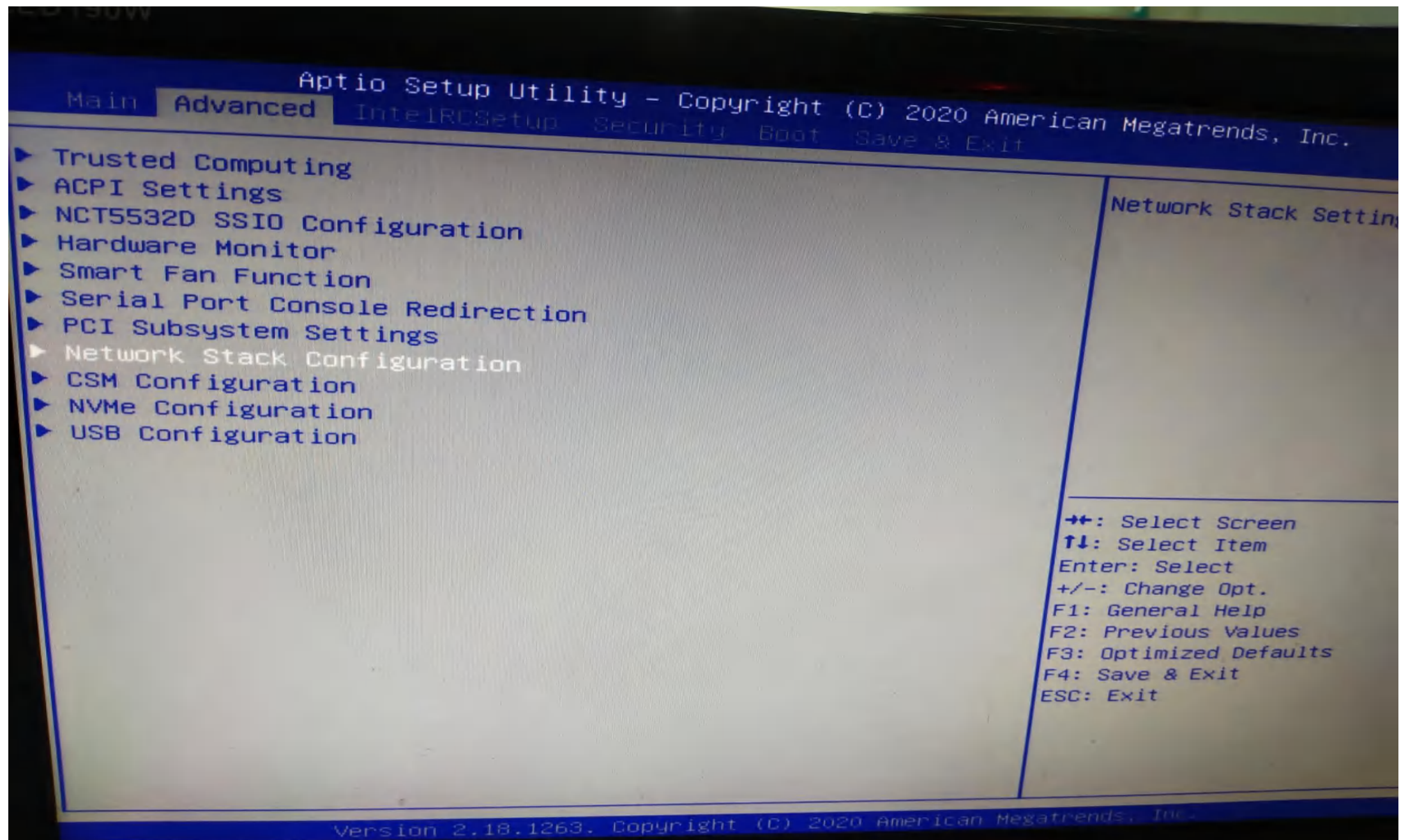
Smart Fan function setting

Smart Fan 1 Mode	[Automatic Mode]
Smart Fan Temperature 1	20
Smart Fan Temperature 2	30
Smart Fan Temperature 3	40
Smart Fan Temperature 4	50
Smart Fan Critical Temperature	50
Smart Fan PWM 1	190
Smart Fan PWM 2	220
Smart Fan PWM 3	240
Smart Fan PWM 4	255
Fan work mode with critical	[Full Mode]
Temperature Tolerance	0

Smart Fan 1 Mode Select

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F3: Optimized Defaults  
F4: Save & Exit  
ESC: Exit

## 网络唤醒





ED190W

Aptio Setup Utility - Copyright (C) 2020 American Megatrends, Inc.

Advanced

Network Stack

Lan Wake up Control

[Disabled]

[Enabled]

Lan Wake up Control

— Lan Wake up Control —

Disabled

Enabled

→+: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Exit

ESC: Exit

## 网卡启动

Aptio Setup Utility - Copyright (C) 2020 American Megatrends

Main Advanced IntelRCSetup Security Boot Save & Exit

- ▶ Trusted Computing
- ▶ ACPI Settings
- ▶ NCT5532D SSIO Configuration
- ▶ Hardware Monitor
- ▶ Smart Fan Function
- ▶ Serial Port Console Redirection
- ▶ PCI Subsystem Settings
- ▶ Network Stack Configuration
- ▶ CSM Configuration
- ▶ NVMe Configuration
- ▶ USB Configuration

CSM (Legacy)  
Enabled  
executed

→←: Select Item  
↑↓: Select Item  
Enter: Execute Item  
+/-: Toggle Item  
F1: Get Help  
F2: Previous Screen  
F3: Optimal Settings  
F4: Save & Exit  
ESC: Exit



Advanced

Compatibility Support Module Configuration

CSM Support [Enabled]

CSM16 Module Version 07.79

GateA20 Active [Upon Request]

Option ROM Messages [Force BIOS]

Boot option filter [UEFI and Legacy]

Option ROM execution

Network

Storage

Video

Other PCI devices

Network  
Do not launch  
UEFI  
Legacy

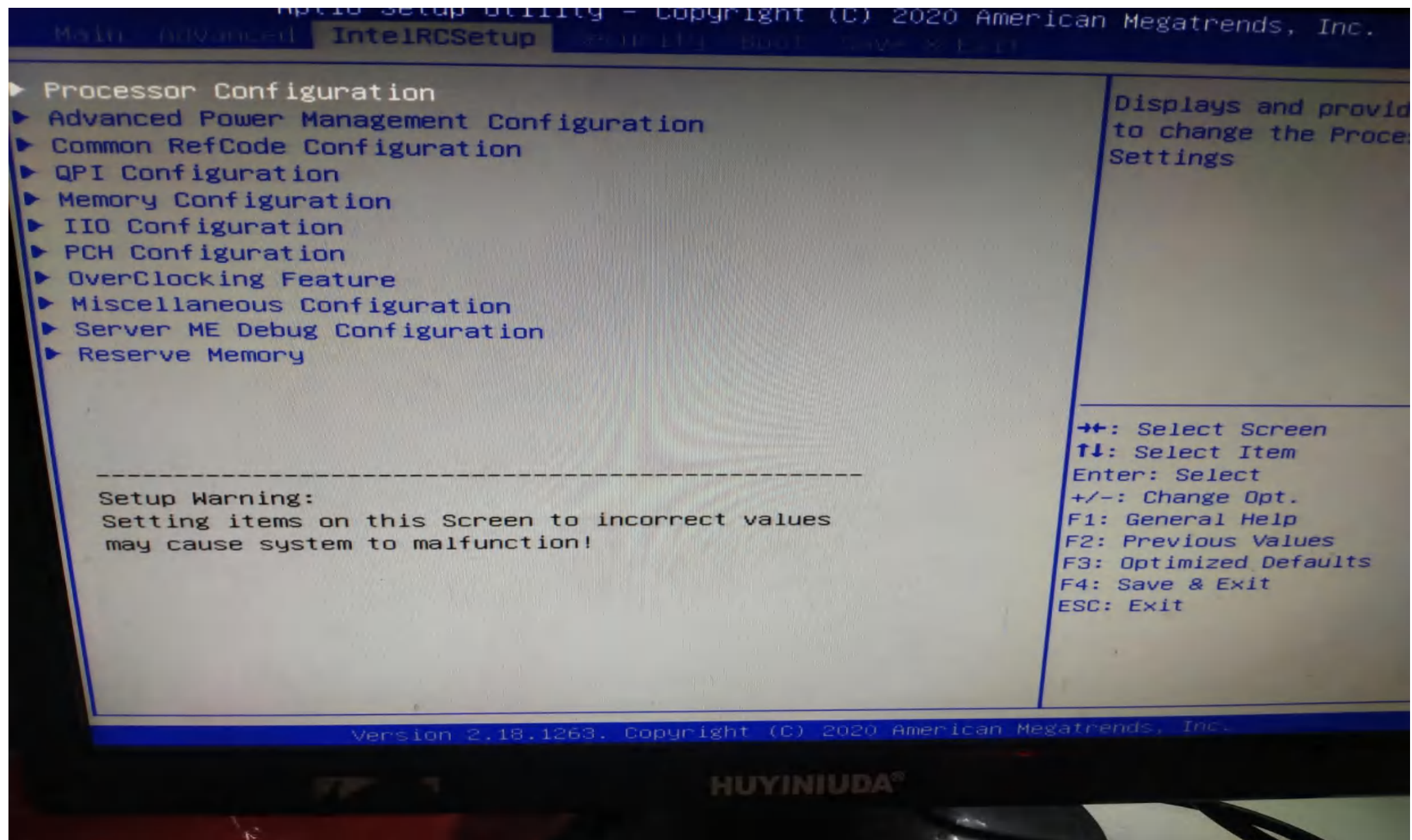
[Le  
[UEFI]

Cont  
and

→+: Se  
↑↓: Se  
Enter:  
+/-: C  
F1: Ge  
F2: Pr  
F3: Op  
F4: Sa  
ESC: E



## 超线程



## Processor Configuration

### Per-Socket Configuration

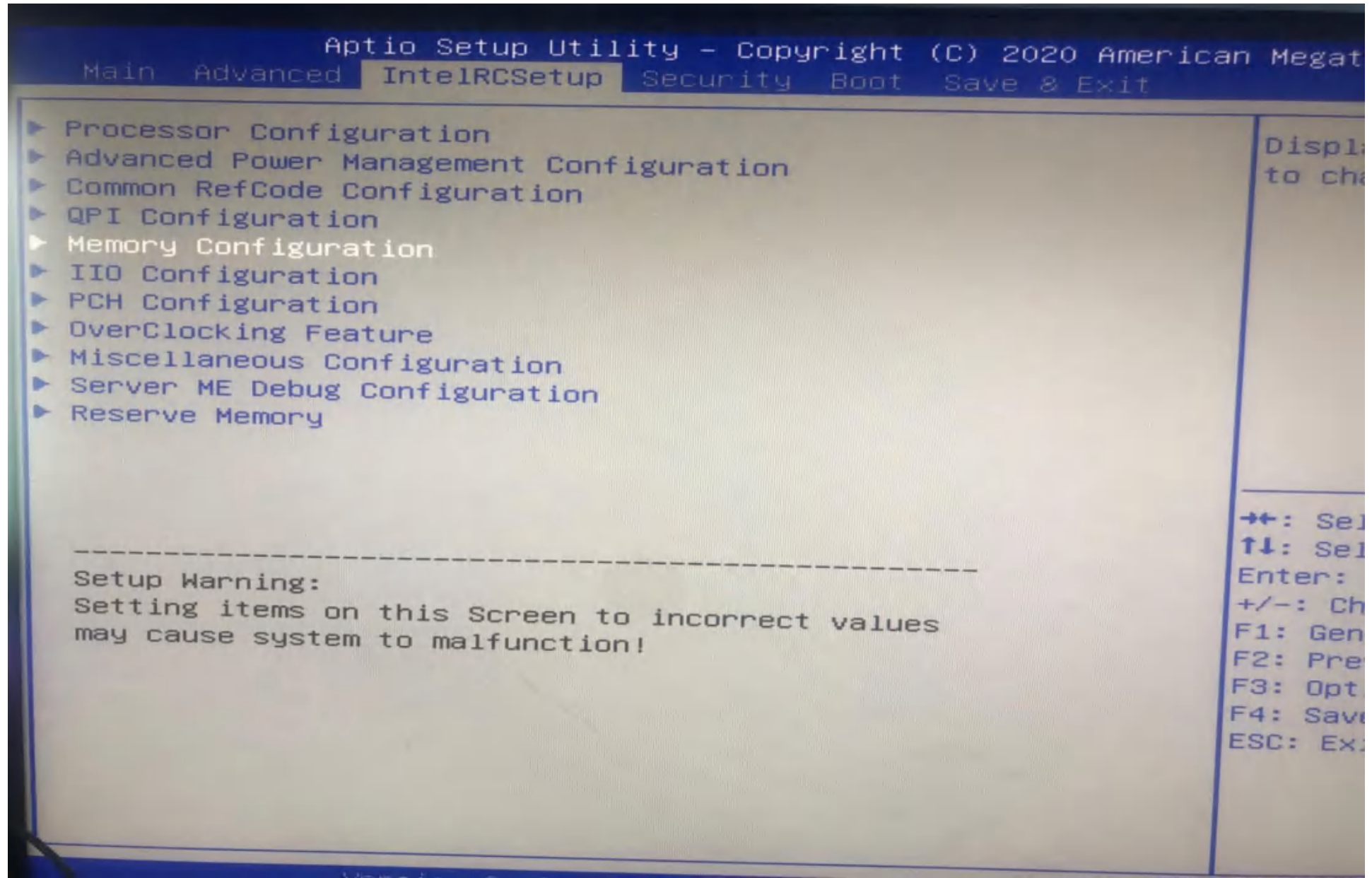
Processor Socket	Socket 0
Processor ID	000306F2*
Processor Frequency	2.500GHz
Processor Max Ratio	19H
Processor Min Ratio	0CH
Microcode Revision	0000003D
L1 Cache RAM	768KB
L2 Cache RAM	3072KB
L3 Cache RAM	30720KB
Processor 0 Version	Intel(R) Xeon(R) CPU E5 -2678 v3 @ 2.50GHz
Hyper-Threading [ALL]	[Enable]
Check CPU BIST Result	[Disabled]
Monitor/Mwait	[Enable]
Execute Disable Bit	[Enable]
Enable Intel TXT Support	[Disable]
VMX	[Enable]
Enable SMX	[Disable]
Lock Chipset	[Enable]
MSR Lock Control	[Enable]
PPIN Control	[Unlock/Enable]

### Change Per-Socket Settings

→←: Select Screen  
↑↓: Select Item  
Enter: Select  
+/-: Change Opt.  
F1: General Help  
F2: Previous Values  
F3: Optimized Defaults  
F4: Save & Exit  
ESC: Exit



## 调整内存频率教程





-----  
Integrated Memory Controller (iMC)  
-----

Enforce POR  
PPR Type  
PPR Error Injection test  
Memory Frequency  
DDR3 Voltage Level  
MRC Promote Warnings  
Promote Warnings  
Halt on mem Training Error  
Multi-Threaded MRC  
ECC Support  
Enforce Timeout  
Enhanced Log Parsing  
BSSA Module Loader  
Backside RMT  
Rank Multiplication  
LRDIMM Module Delay  
MemTest  
MemTestLoops  
Dram Maintenance Test  
Dram Maintenance Test Direction  
Dram Maintenance Test Inversion

Memory Frequency

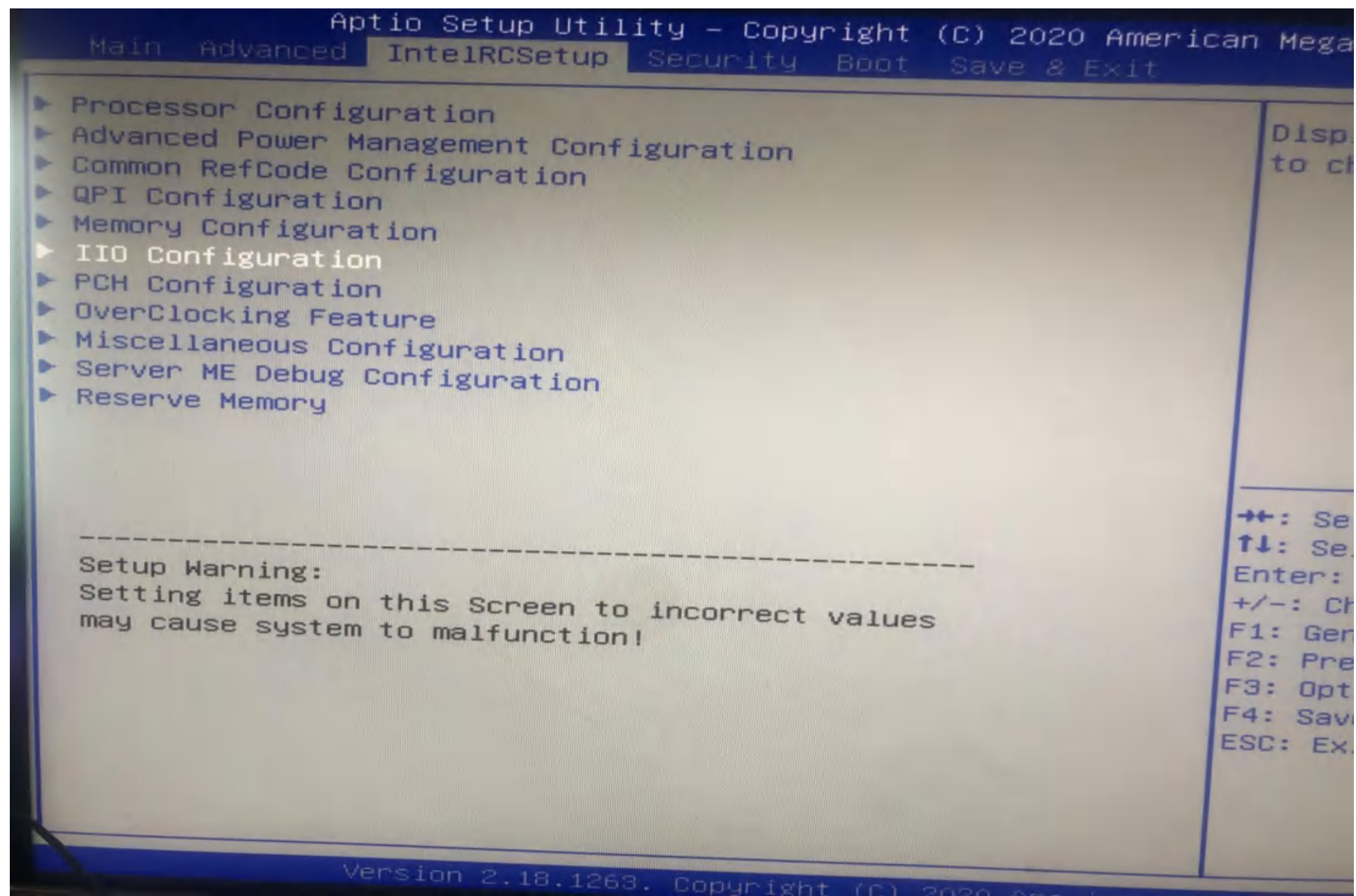
Auto  
800  
1000  
1067  
1200  
1333  
1400  
1600  
1800  
1867  
2000  
2133  
2200  
2400  
2600  
2667  
Reserved  
Reserved  
Reserved

[Disabled]

Maxim  
Select  
select

→←: Sel  
↑↓: Sel  
Enter:  
+/-: Ch  
F1: Gen  
F2: Pre  
F3: Opt  
F4: Save  
ESC: Ex

## 打开VT-D



## IIO Configuration

-----

PCIe Train by BIOS	[yes]
PCIe Hot Plug	[Disable]
PCIe ACPI Hot Plug	[Disable]
EV DFX Features	[Disable]
▶ IIOO Configuration	
▶ IOAT Configuration	
▶ IIO General Configuration	
▶ Intel VT for Directed I/O (VT-d)	

## PCI Express Global Options

=====

TX EQ WA	[Enable]
DMI Vc1 Control	[Enable]
DMI Vcp Control	[Enable]
DMI Vcm Control	[Enable]
VCO No-Snoop Configuration	[Disable]
Gen3 Phase3 Loop Count	[16]
Skip Halt On DMI Degradation	[Disable]
Power down unused ports	[yes]
SLD WA Revision	[Auto]
Rx Clock WA	[Disable]
PCI-E ASPM (Global)	[L1 Only]
PCIe Stop & Scream Support	[Disable]

▲ Pres  
Inte  
(VT-

→+: Se  
↑↓: Se  
Enter:  
+/-: C  
F1: Ge  
F2: Pre  
F3: Opt  
F4: Sav  
ESC: Ex



## Intel VT for Directed I/O (VT-d)

VTd Azalea VcP Optimizations	[Disable]
Intel VT for Directed I/O (VT-d)	[Enable]
ACS Control	[Enable]
Interrupt Remapping	[Enable]
Coherency Support (Non-Isoch)	[Enable]
Coherency Support (Isoch)	[Enable]

Intel VT for Directed I/O (VT-d)

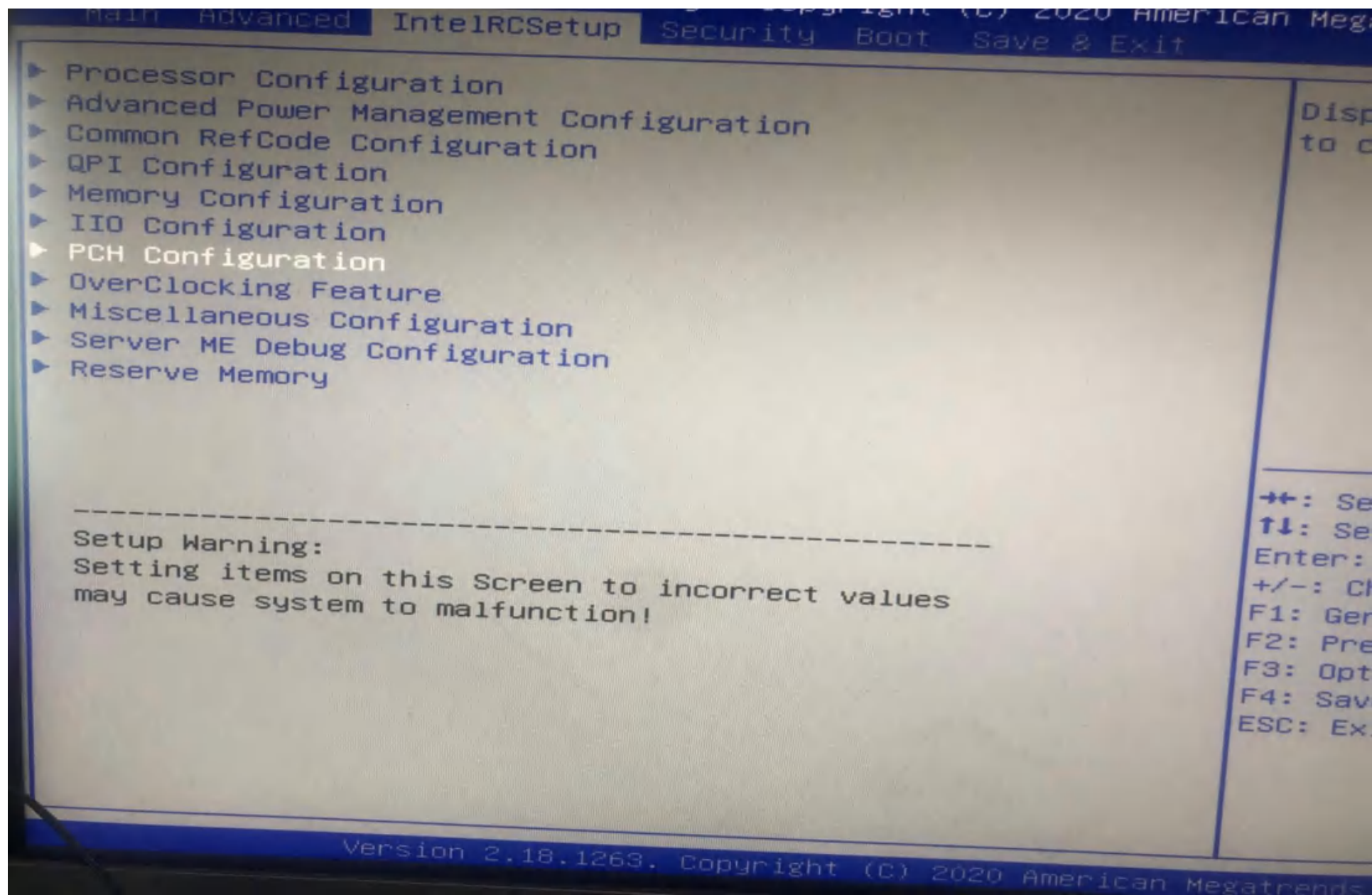
Enable

Disable

Enab  
Virt  
Dire  
repc  
assi  
ACPI

Enter:  
+/-: C  
F1: Ge  
F2: Pr  
F3: Opt  
F4: Sav  
ESC: Ex

## 来电启动



## PCH Configuration

- 
- |                |           |
|----------------|-----------|
| Onboard Lan    | [Enabled] |
| Onboard Azalia | [Auto]    |
- ▶ PCH Devices
  - ▶ PCI Express Configuration
  - ▶ PCH SATA Configuration
  - ▶ USB Configuration
  - ▶ Security Configuration
  - ▶ Azalia Configuration
  - ▶ Platform Thermal Configuration

Enab  
Cont

←→: Se  
↑↓: Se  
Enter:  
+/-: Cl  
F1: Ger  
F2: Pre  
F3: Opt  
F4: Sav  
ESC: Ex



Board Capability	[DeepSx]
DeepSx Power Policies	[Disabled]
GP27 Wake From DeepSx	[Disabled]
SMBUS Device	[Enabled]
PCH Server Error Reporting Mode (S	[Disabled]
PCH Display	[Enabled]
Serial IRQ Mode	[Quiet]
External SSC Enable - CK420	[Disabled]
Restore AC after Power Loss	[Power Off]
PCH CRID	[Disabled]

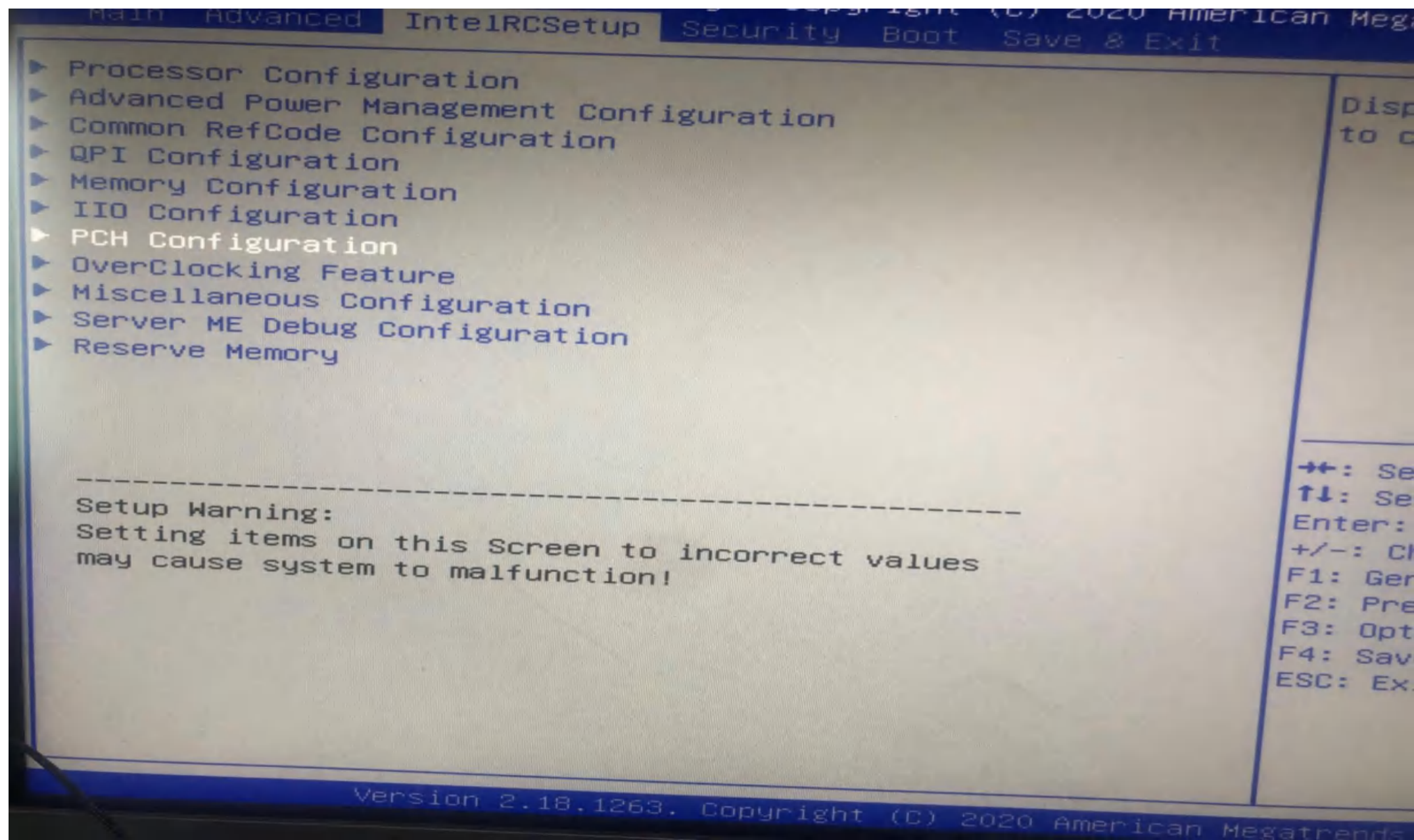
Sele  
state

— Restore AC after Power Loss —  
Power On  
Power Off  
Last State

Se  
Se  
r:

+/-: Ch  
F1: Ger  
F2: Pre  
F3: Opt  
F4: Sav  
ESC: Ex

## SATA硬盘模式，热拔插





## PCH Configuration

SATA

Onboard Lan

[Enabled]

Onboard Azalia

[Auto]

▶ PCH Devices

▶ PCI Express Configuration

▶ PCH SATA Configuration

▶ USB Configuration

▶ Security Configuration

▶ Azalia Configuration

▶ Platform Thermal Configuration

←→: Se

↑↓: Se

Enter:

+/-: Ch

F1: Ger

F2: Pre

F3: Opt

F4: Sav

ESC: Ex

## PCH SATA Configuration

SATA Controller

[Enabled]

Configure SATA as

[AHCI]

SATA test mode

[Disabled]

▶ SATA Mode options

SATA AHCI LPM

[Enabled]

SATA AHCI ALPM

[Enabled]

SATA Port 0

[Not Installed]

Software Preserve

Unknown

Port 0

[Enabled]

Hot Plug

[Disabled]

Configure as eSATA

[Disabled]

Configured as eSATA

Hot Plug supported

Spin Up Device

[Disabled]

SATA Device Type

[Hard Disk Drive]

SATA Port 1

WDC WD10EZEX-7 - 1000...

Software Preserve

Unknown

Port 1

[Enabled]

Hot Plug

[Disabled]

Configure as eSATA

[Disabled]

Configured as eSATA

Hot Plug supported

Spin Up Device

[Disabled]

SATA Device Type

[Hard Disk Drive]

Ident  
conn  
or H

++: Se

↑↓: Se

Enter:

+/-: Ch

F1: Ger

F2: Pre

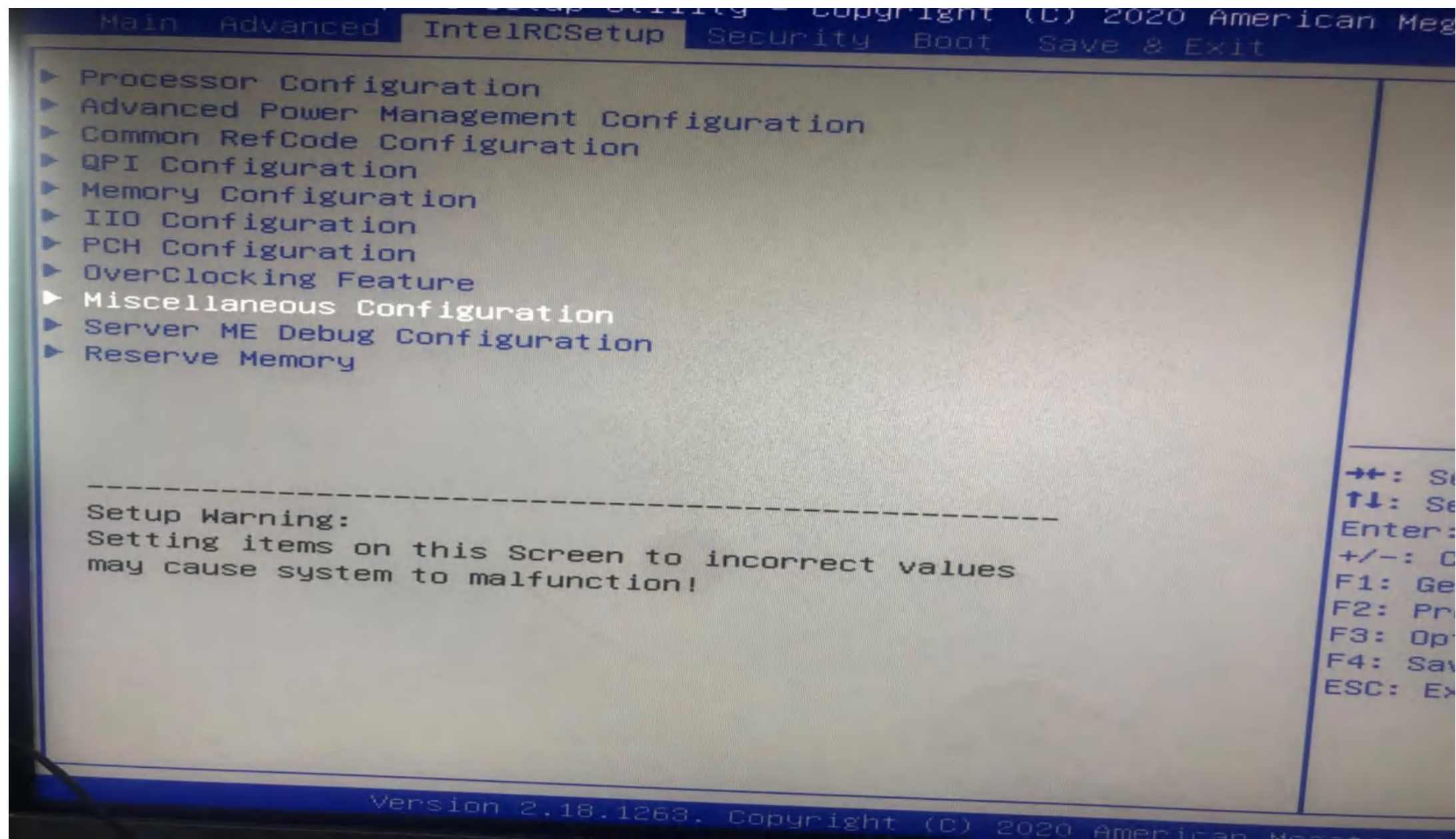
F3: Opt

F4: Sav

ESC: Ex



## 定时开机



## IntelRCSetup

## Miscellaneous Configuration

-----

Fan PWM Offset	0
PCIe Max Read Request Size	[4096B]
PCIe Latency Tolerance Reporting	[Enable]
PCI Minimum Secondary Bus Number	1
PCIe Extended Tag Enable	[Enable]
PCIe AtomicOp Request Support	[Disable]
Breakpoint Type	[None]
BIOS Guard	[Disabled]
Serial Debug Message Level	
Trace Messages	
Training Messages	
RC Promote Warnings	
RC Promote MRC Warnings	
Active Video	
TargetVGA	[Offboard Device]
RTC Wake system from S5	Vga From CPU 0
Wake up hour	[Enable]
Wake up minute	0
Wake up second	0

RTC Wake system from S5  
Disable  
Enable

Enabl  
on al  
Syste  
day: :

: Sel  
: Sel  
Enter: S  
+/-: Cha  
F1: Gene  
F2: Prev  
F3: Opti  
F4: Save  
ESC: Exit