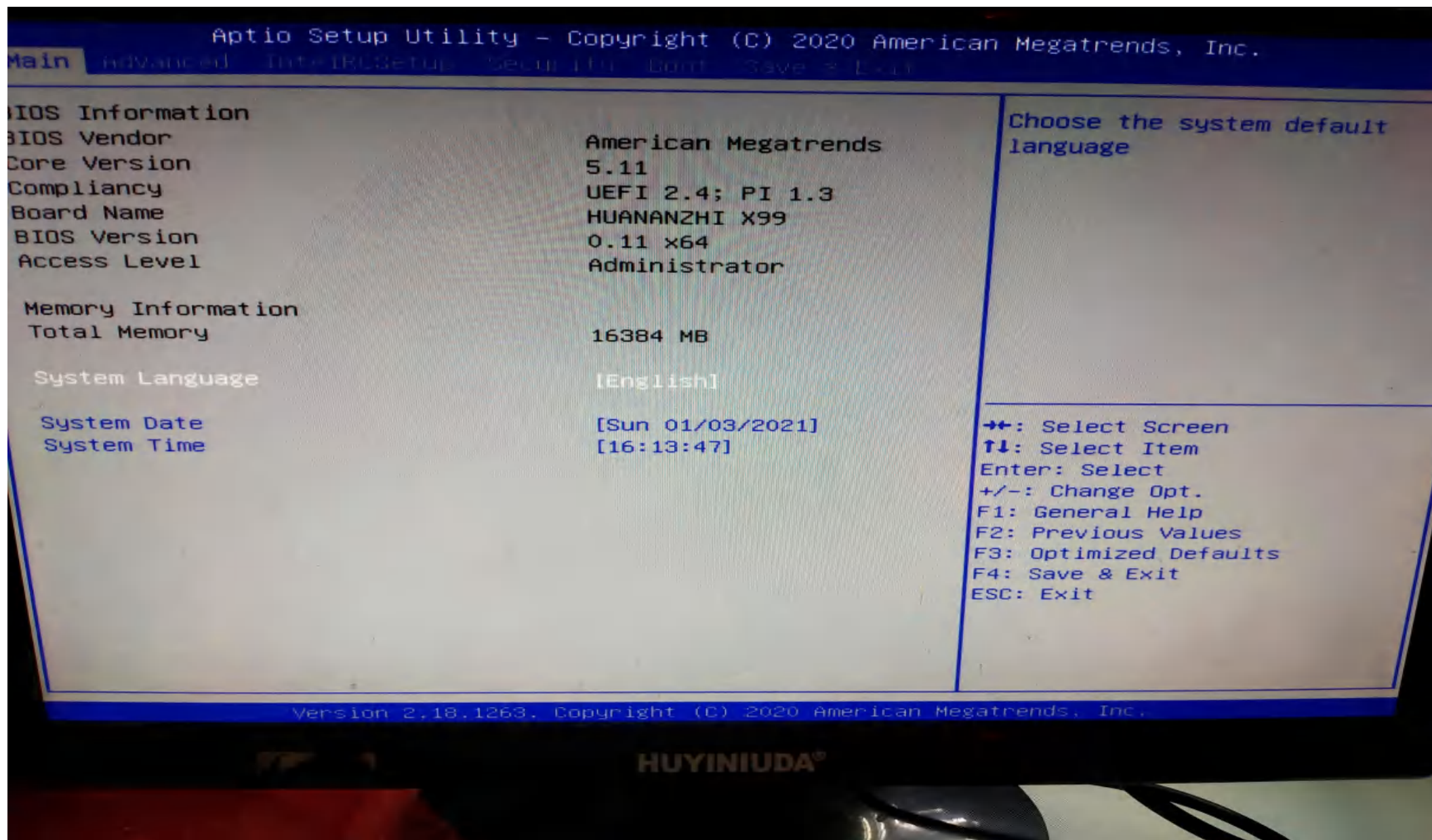
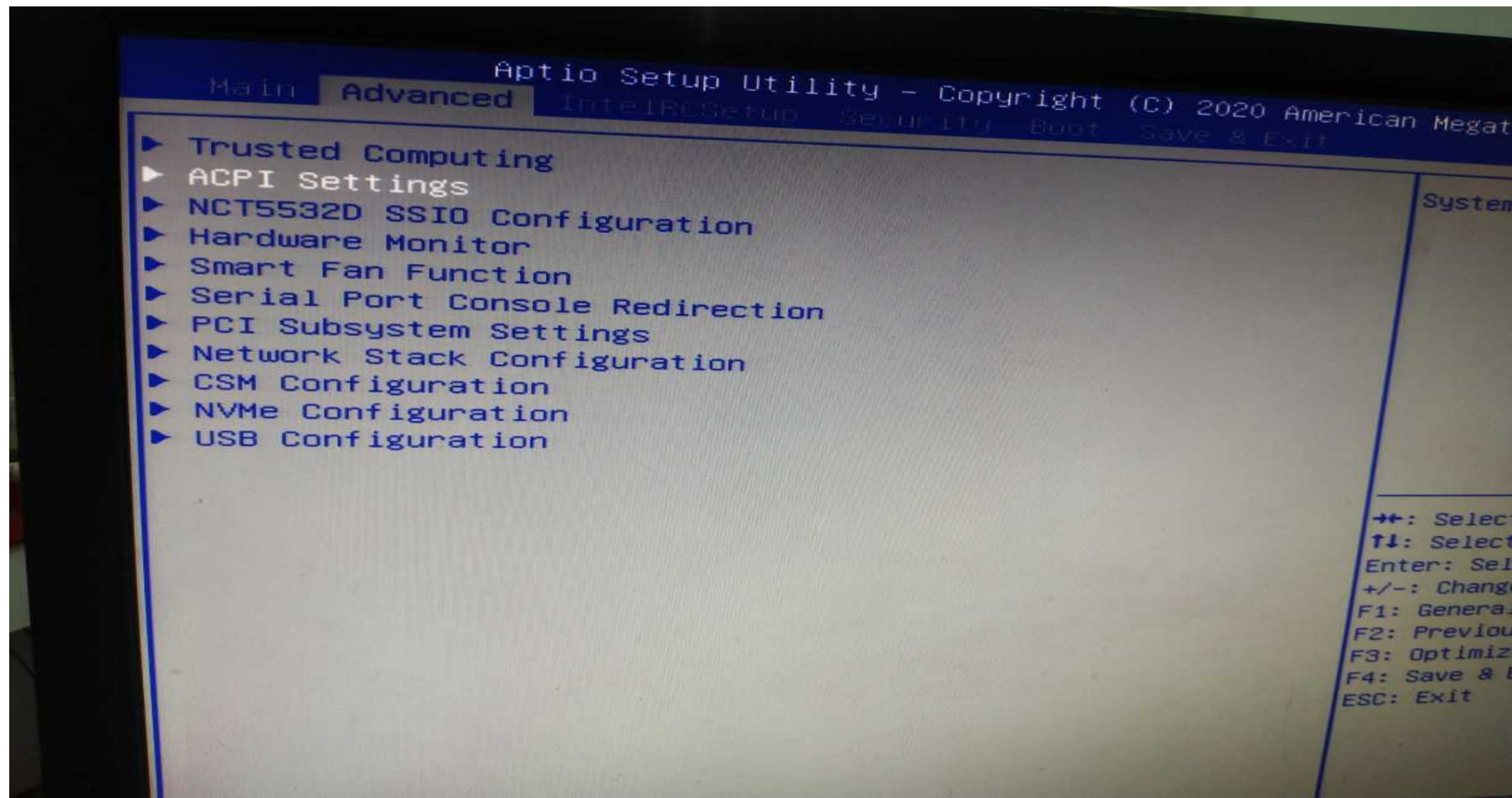


X99-ZD主板

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.

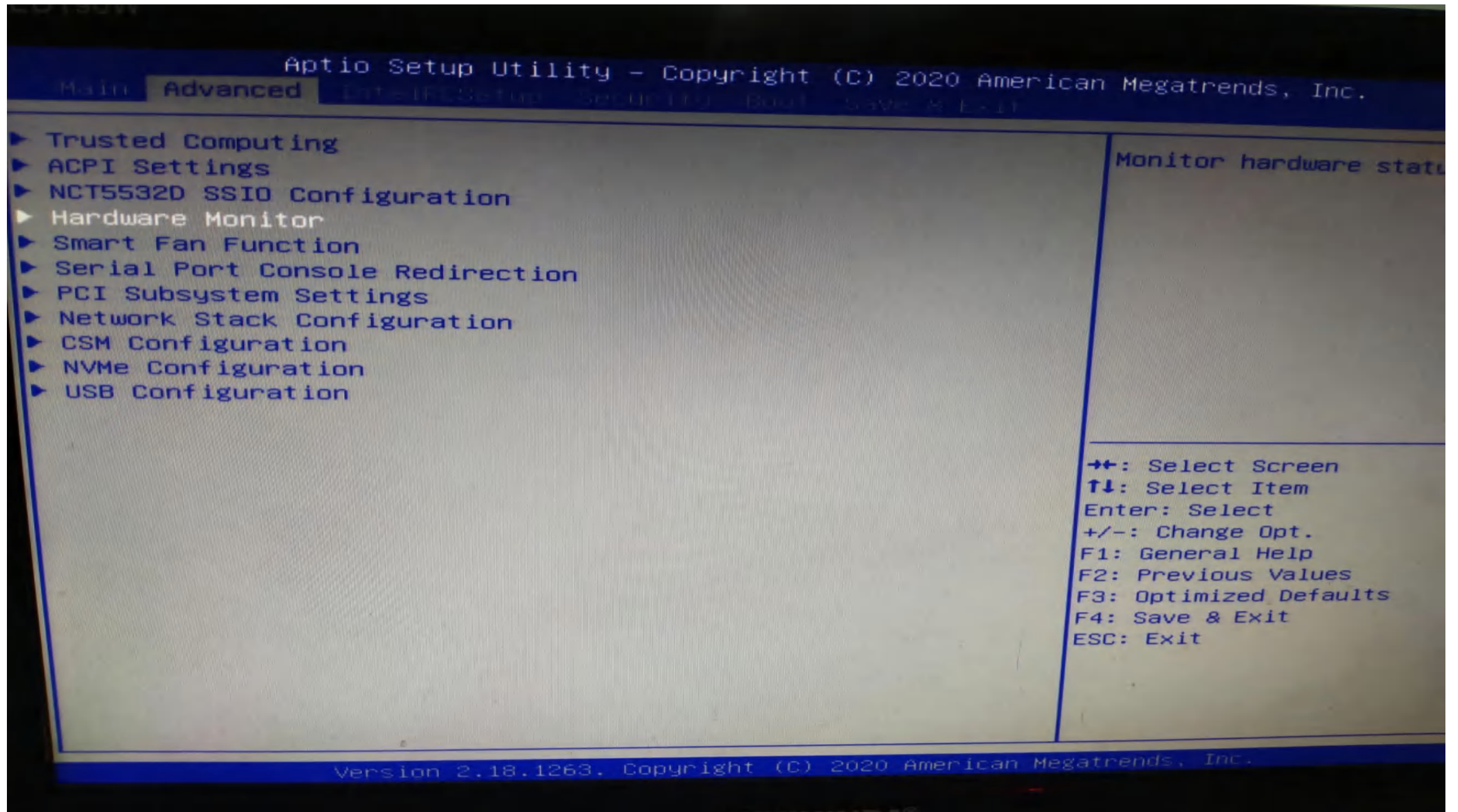
ACPI Sleep State
Suspend Disabled
S1 (CPU Stop Clock)
S3 (Suspend to RAM)

→←: 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



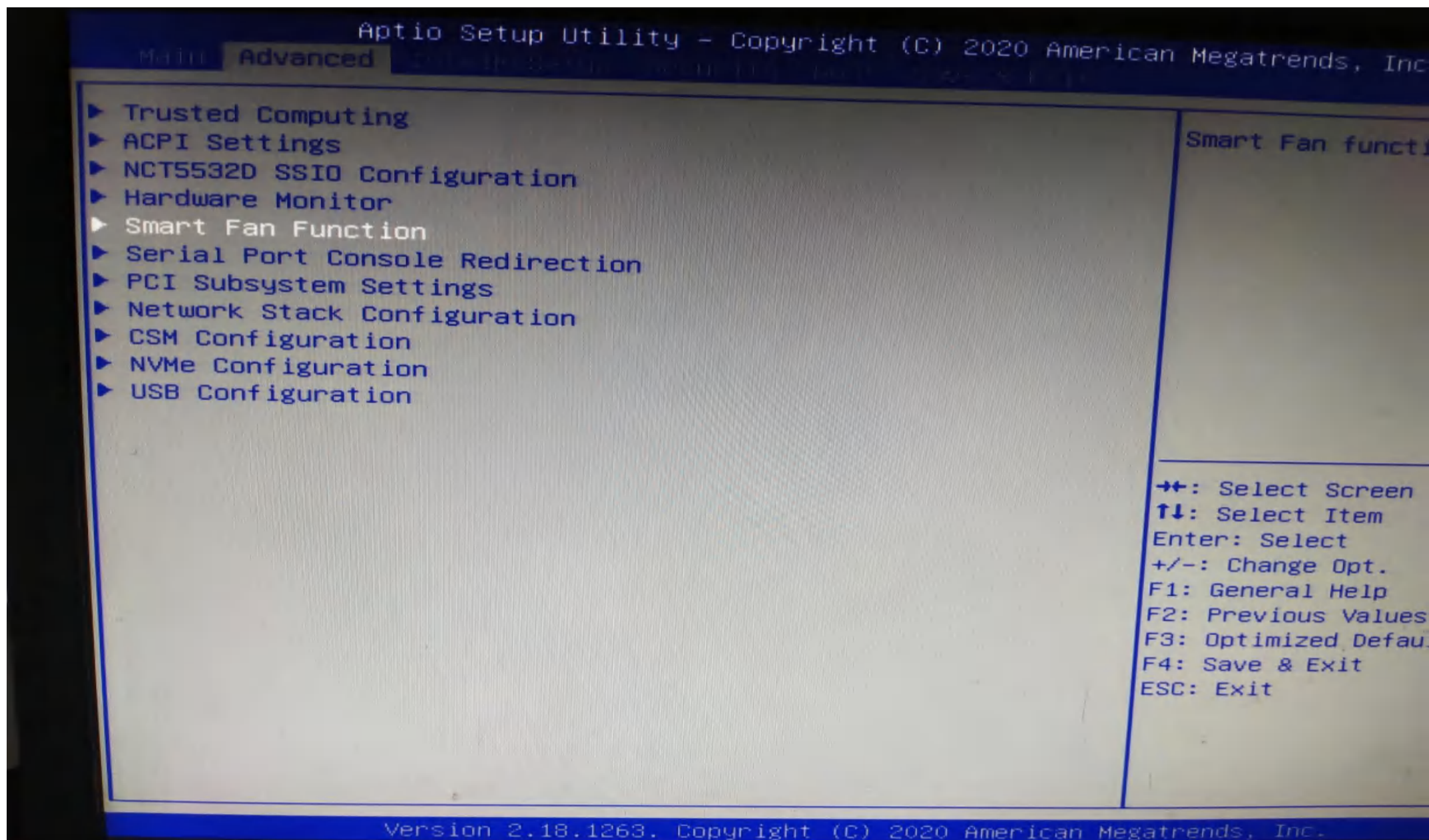
Advanced

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

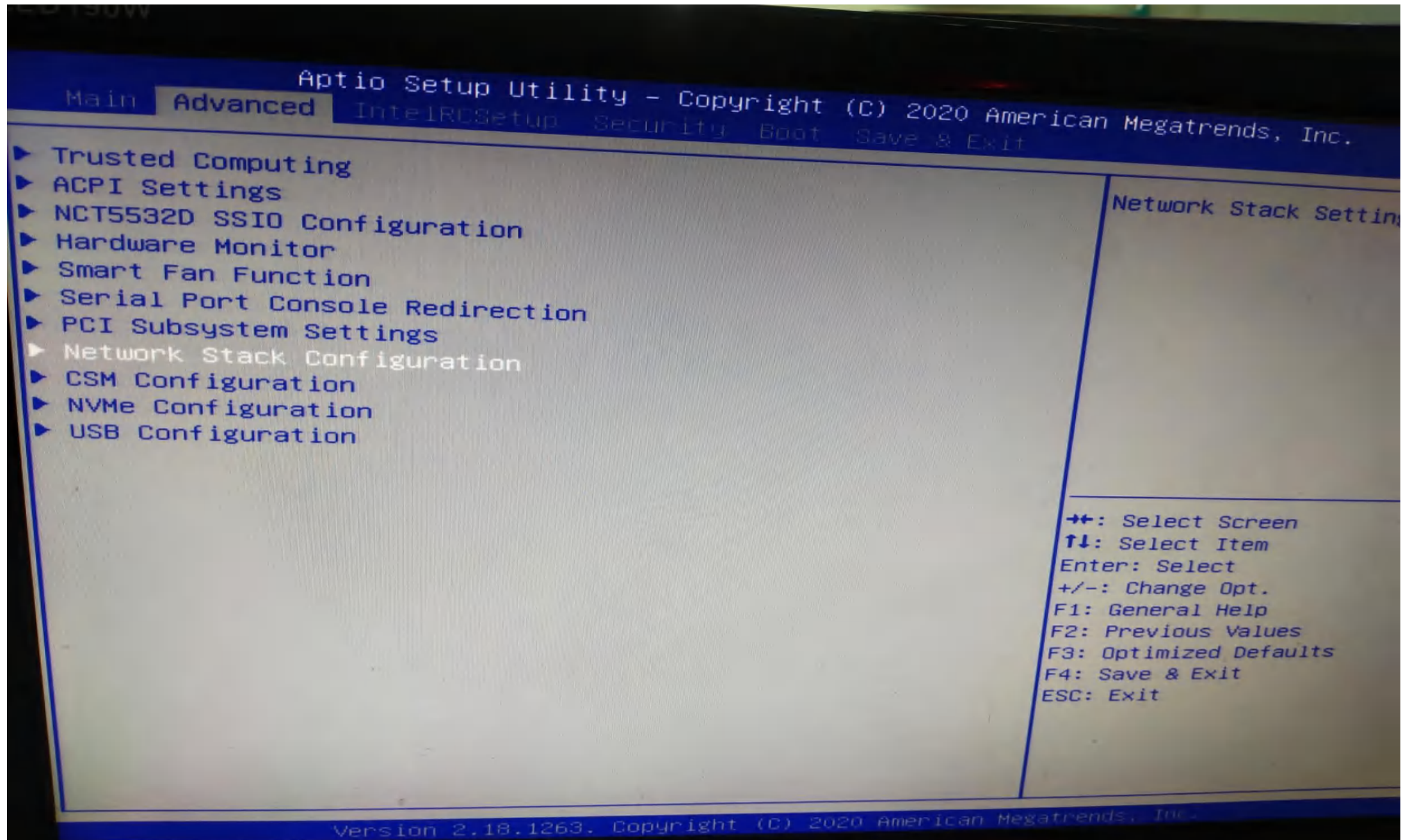
Smart Fan function setting

| | |
|--------------------------------|------------------|
| 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 Sub-item
Enter: Enter Item
+/-: Toggle Item
F1: Get Help
F2: Previous Screen
F3: Optimal Defaults
F4: Save & Exit Setup
ESC: Exit Setup

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

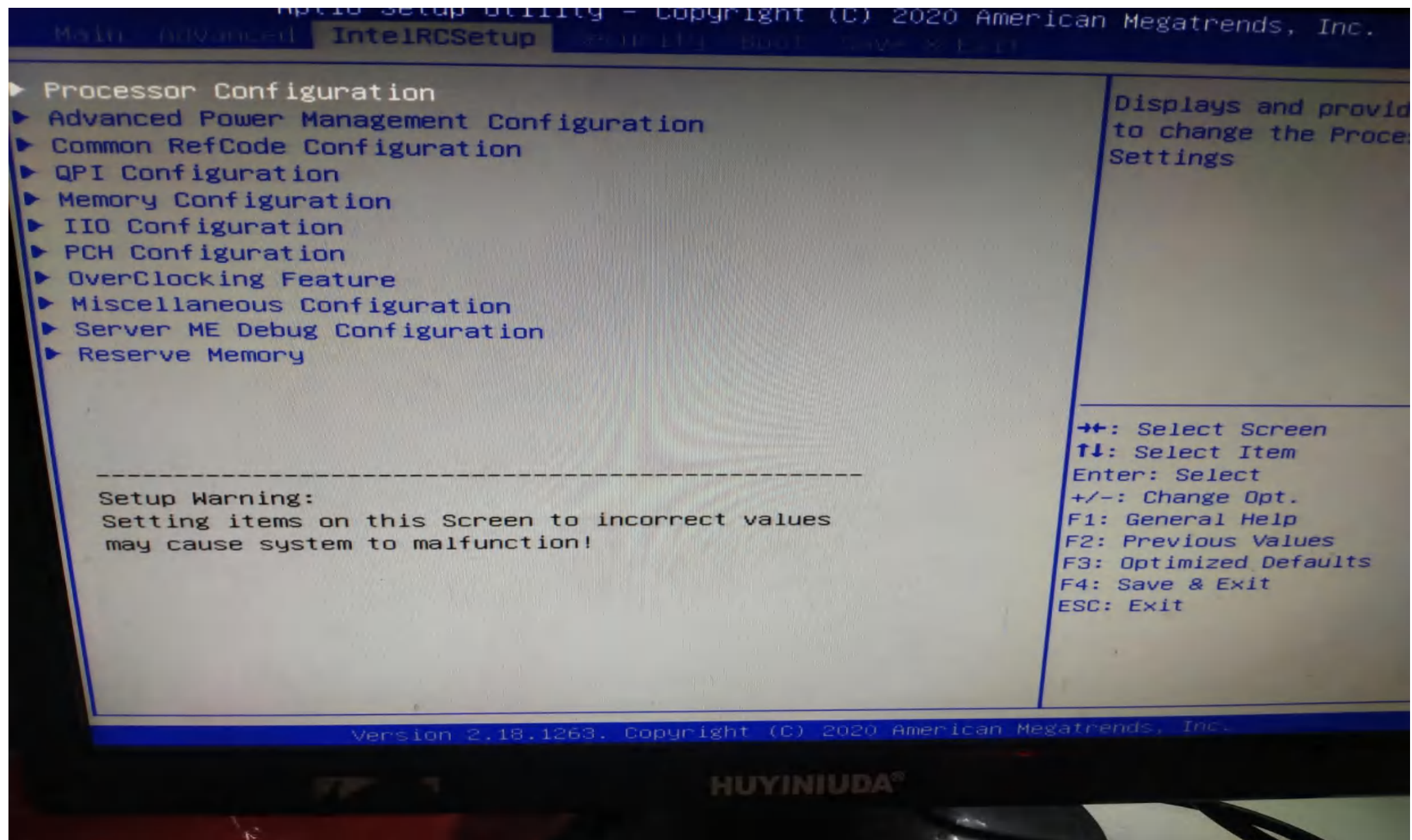
Network
Do not launch
UEFI
Legacy

[Le
[UEFI]

Cont
and

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

超线程



Processor Configuration

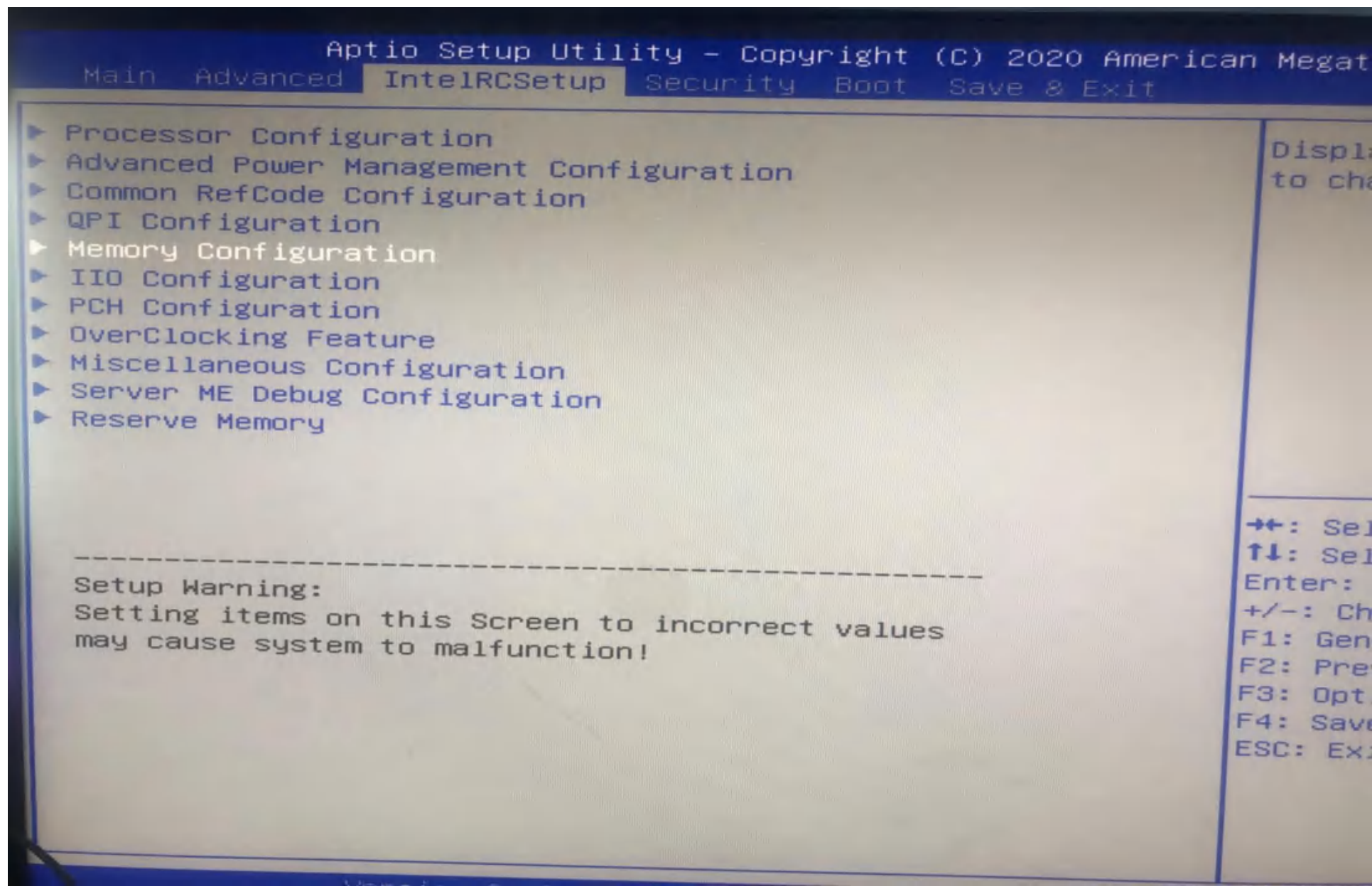
Per-Socket Configuration

| | |
|--------------------------|---|
| 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

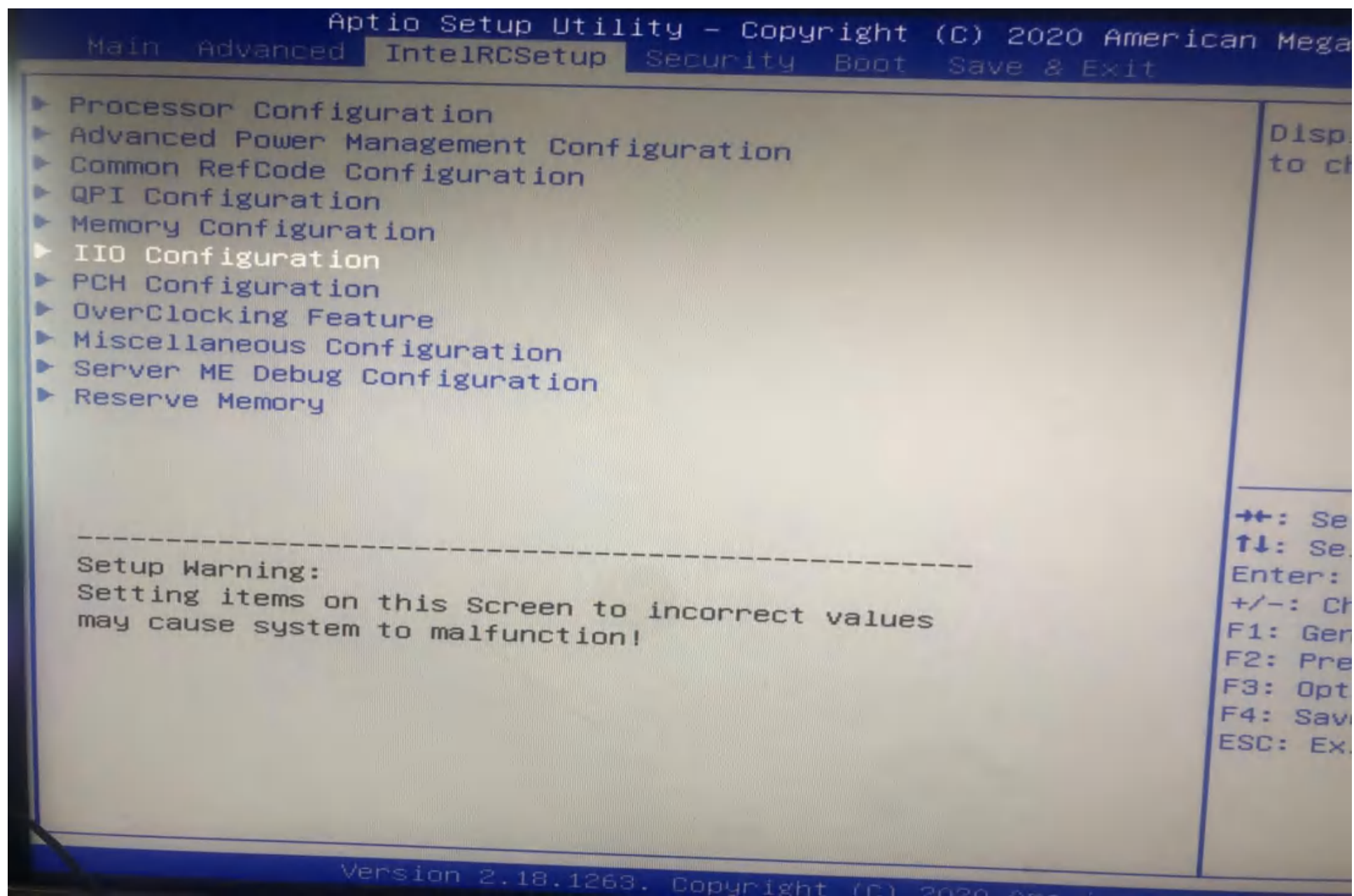
Auto
800
1000
1067
1200
1333
1400
1600
1800
1867
2000
2133
2200
2400
2600
2667
Reserved
Reserved
Reserved

[Disabled]

Maxim
Select
select

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

打开VT-D



IIO Configuration

| | |
|------------------------------------|-----------|
| PCIe Train by BIOS | [yes] |
| PCIe Hot Plug | [Disable] |
| PCIe ACPI Hot Plug | [Disable] |
| EV DFX Features | [Disable] |
| ▶ IIO 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)

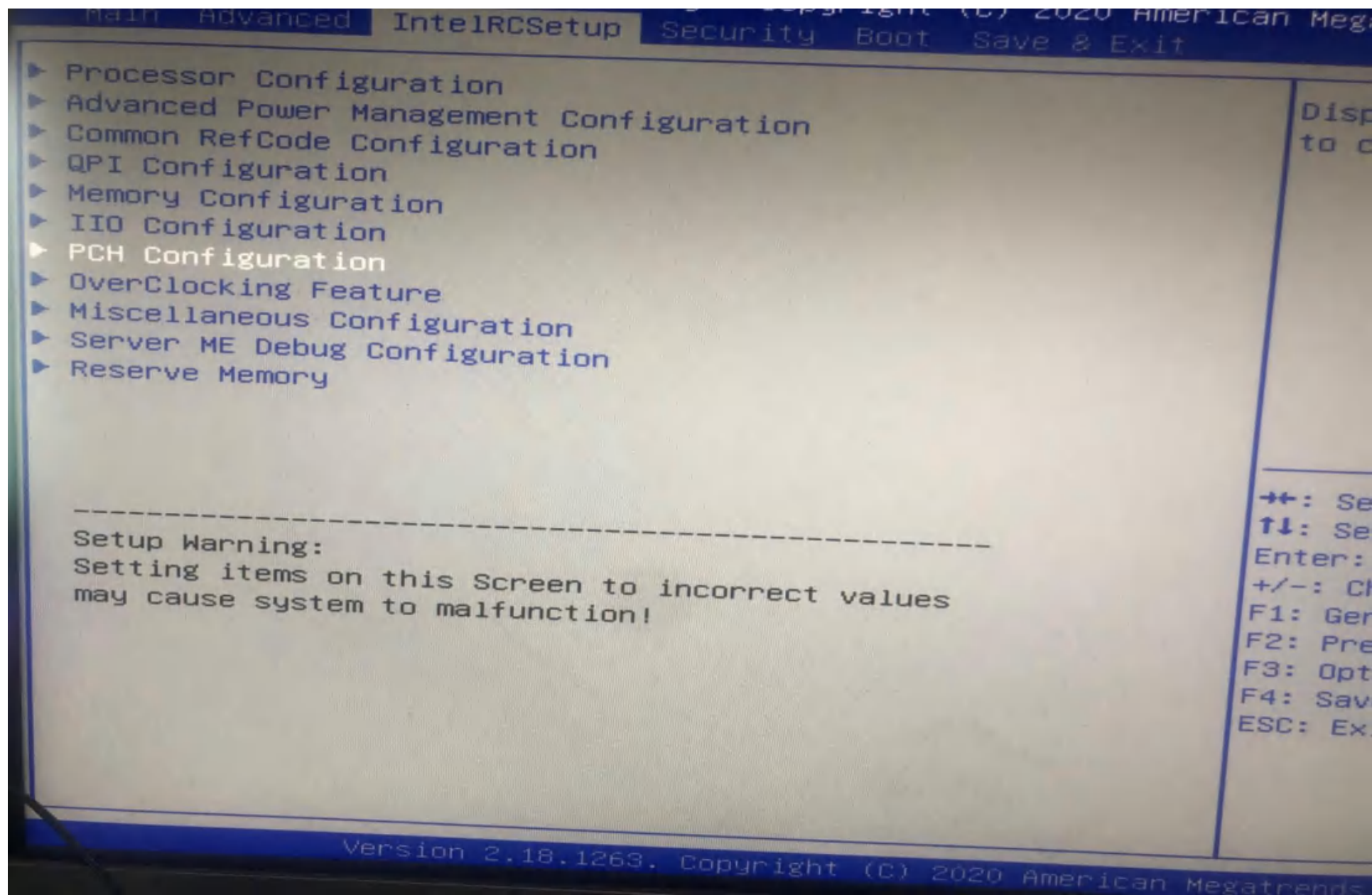
Enable

Disable

Enal
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] |

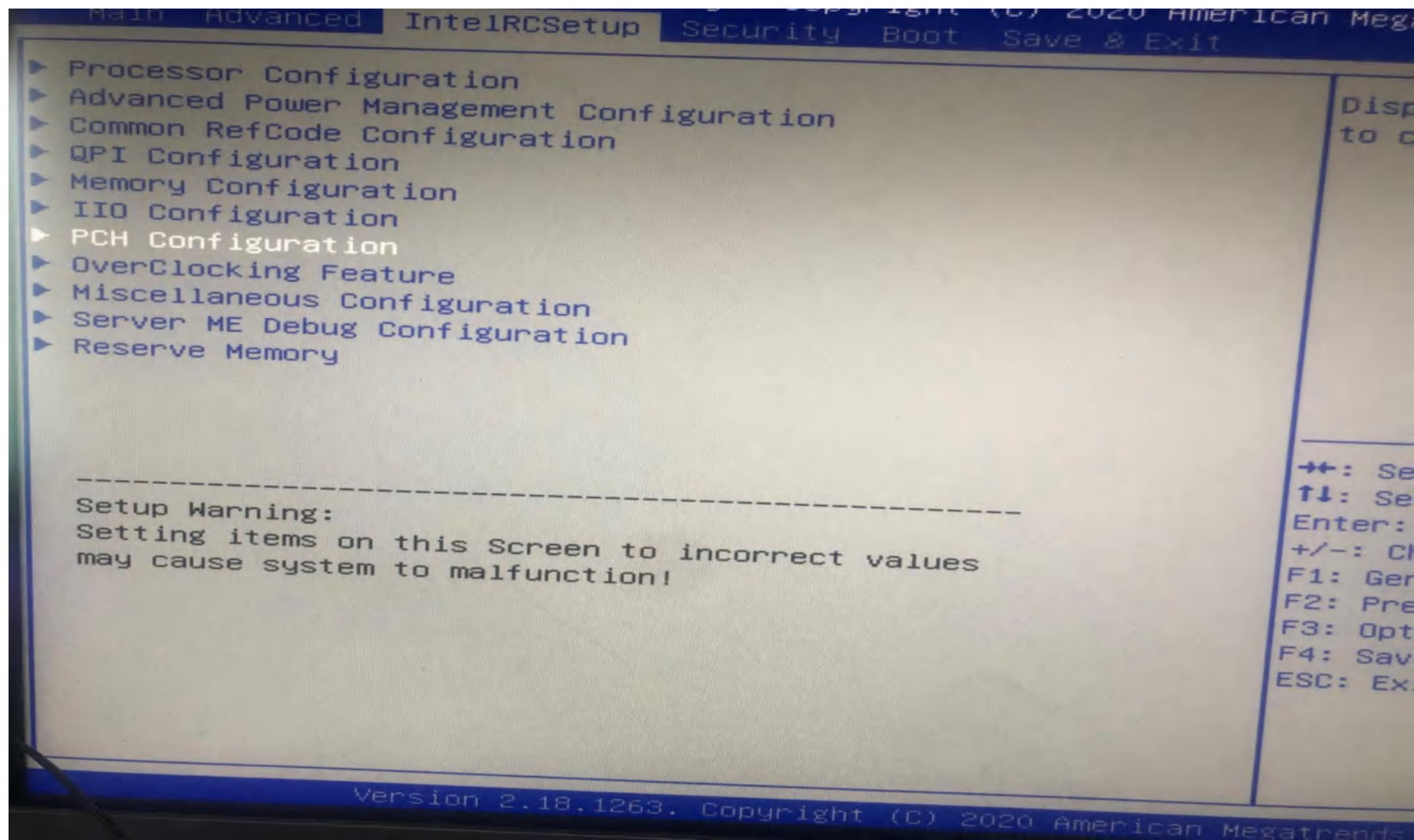
Sele
state

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

Se
Se
r:

+/-: Cl
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

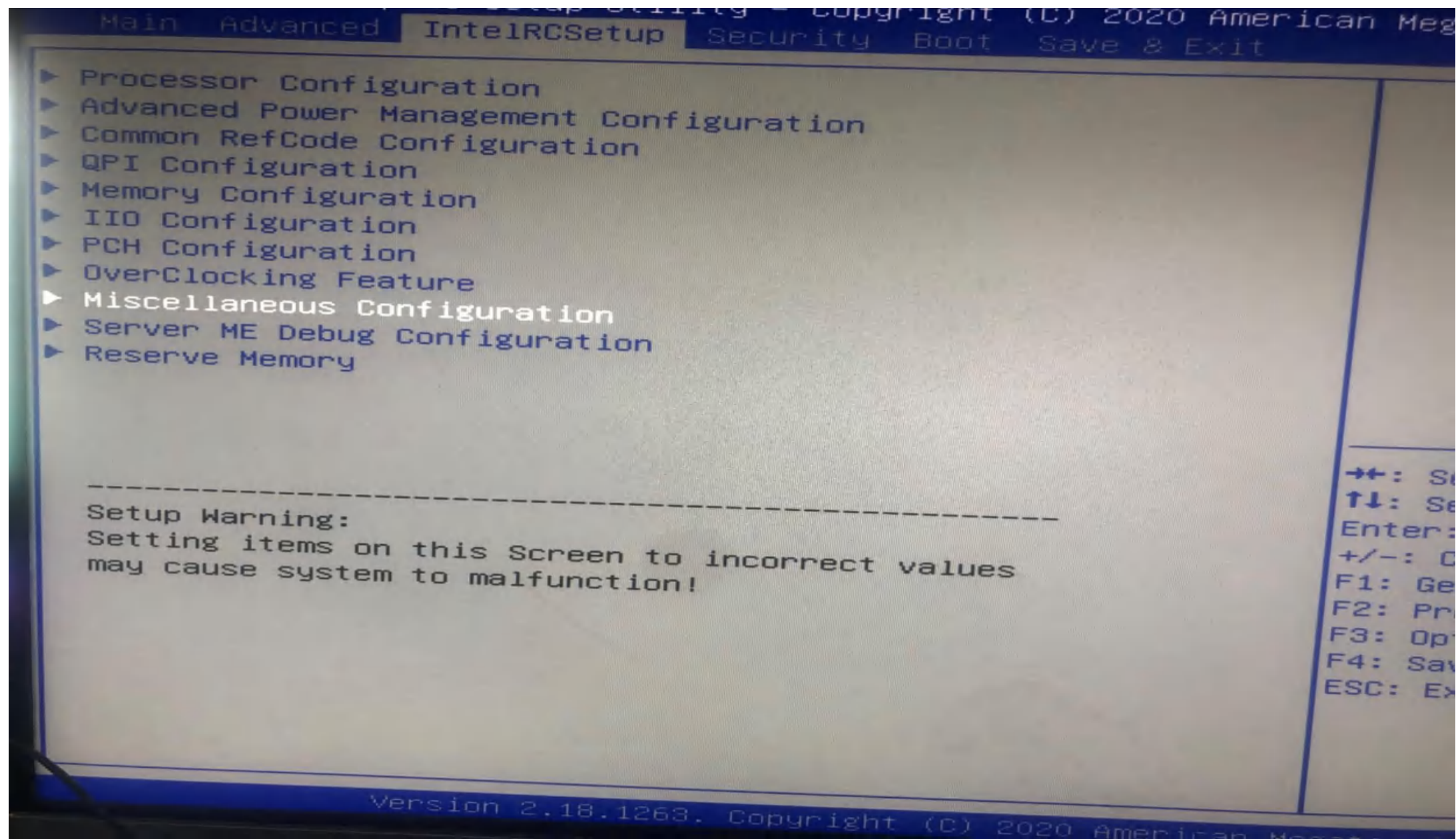
F2: Pre

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