

H3C SR8800产品主控板掉电重启后无法正常启动时的处理措施



IToIP 解决方案专家

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H3C SR8800产品主控板掉电重启后无法正常启动时的处理措施

1 适用对象

涉及主控板：

0231A82E 功能模块-H3C SR8800-SR0M2SRP1E3-路由交换处理板

0231A80E 功能模块-H3C SR8800-SR0M2SRP2E3-路由交换处理板

0231A84N 功能模块-H3C SR8802-SR0M2SRP1M3-路由交换处理板

2 问题确认方法

主控板插拔或者掉电后不能启动，通过console口查看会打印如下信息，并反复重启

```
Boot from primary boot file
```

```
Flash file system init.....done.
```

```
Can not open flash file: flash:/device.app
```

```
FlashToSdram failed!
```

```
Boot from backup boot file
```

```
Can not open device.app
```

```
Rebooting...
```

```
Please make sure the baudrate of the terminal is 9600bps!
```

3 版本启动文件路径丢失的规避方法

可通过bootware/bootroom菜单重新指定版本启动文件的方式，让主控板启动：

3.1 示例：Bootware203 版本

Bootware203版本操作如下：

```
SDRAM init successful.
```

System is starting...

```
*****
*
*          H3C SR8800 BootWare, Version 203
*
*
*****
```

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```
Compiled Date      : Apr 27 2010
CPU Type           : MPC7447A
CPU L1 Cache      : 32KB
CPU L2 Cache      : 512KB
CPU Clock Speed   : 998MHz
Memory Type       : SDRAM
Memory Size       : 1024MB
Memory Speed      : 133MHz
BootWare Size     : 1MB
Flash Size        : 64MB
cfa0 Size         : 247MB
NVRAM Size        : 512KB
CPLD Version      : 003
PCB Version       : Ver.A
```

```
Board self testing.....
Board steady testing...      [ PASS ]
Board SlotNo...              [ 0 ]
CPLD1 testing...             [ PASS ]
CPLD2 testing...             [ PASS ]
The switch's Mac address...  [00:0F:E2:3E:B0:B6]
BootWare Validating...
Press Ctrl+B to enter extended boot menu...
Please input BootWare password:
```

Note: The current operating device is cfa0
Enter < Storage Device Operation > to select device.

```
===== <EXTEND-BOOTWARE MENU> =====
|<1> Boot System |
|<2> Enter Serial SubMenu |
|<3> Enter Ethernet SubMenu |
|<4> File Control |
|<5> Modify BootWare Password |
```

```
|<6> Skip Current System Configuration |
|<7> BootWare Operation Menu |
|<8> Clear Super Password |
|<9> Storage Device Operation |
|<0> Reboot |
```

=====
Enter your choice(0-9): 9 **进入存储器操作菜单**

```
=====<DEVICE CONTROL>=====
|<1> Display All Available Nonvolatile Storage Device(s) |
|<2> Set The Operating Device |
|<3> Set The Default Boot Device |
|<0> Exit To Main Menu |
```

=====
Enter your choice(0-3): 2 **设定操作的存储器**

Please set the operating device:

```
=====
|Note:the operating device is cfa0 |
|NO. Device Name File System Total Size Available Space |
|1 flash VFS 66324480 30284800 |
|2 cfa0 FAT 128704512 30226432 |
|0 Exit |
```

=====
Enter your choice(0-2):2 **设置操作CFa0**

Set the operation device successful!

```
=====<DEVICE CONTROL>=====
|<1> Display All Available Nonvolatile Storage Device(s) |
|<2> Set The Operating Device |
|<3> Set The Default Boot Device |
|<0> Exit To Main Menu |
```

=====
Enter your choice(0-3): 0

```
=====<EXTEND-BOOTWARE MENU>=====
|<1> Boot System |
|<2> Enter Serial SubMenu |
|<3> Enter Ethernet SubMenu |
|<4> File Control |
|<5> Modify BootWare Password |
|<6> Skip Current System Configuration |
|<7> BootWare Operation Menu |
|<8> Clear Super Password |
```

```
|<9> Storage Device Operation |
|<0> Reboot |
=====
```

Enter your choice(0-9): 4 **进入文件操作菜单**

```
=====<File CONTROL>=====
```

```
|Note:the operating device is cfa0 |
|<1> Display All File(s) |
|<2> Set Application File type |
|<3> Delete File |
|<0> Exit To Main Menu |
=====
```

Enter your choice(0-3): 2 **设置文件属性**

```
'M' = MAIN      'B' = BACKUP      'S' = SECURE      'N/A' = NOT ASSIGNED
```

```
=====
|NO. Size(B)  Time                Type  Name |
|1  98470232  Dec/10/2010 10:50:10 M   cfa0:/ SR8800-CMW520-R3328-SI.bin |
|0  Exit |
=====
```

Enter file No:1 **选择要指定的文件**

Modify the file attribute:

```
=====
|<1> +Main |
|<2> -Main |
|<3> +Backup |
|<4> -Backup |
|<0> Exit |
=====
```

Enter your choice(0-4):1 **指定是主启动文件还是备启动文件**

Set the file attribute success!

```
=====<File CONTROL>=====
```

```
|Note:the operating device is cfa0 |
|<1> Display All File(s) |
|<2> Set Application File type |
|<3> Delete File |
|<0> Exit To Main Menu |
=====
```

Enter your choice(0-3): 0

```
=====<EXTEND-BOOTWARE MENU>=====
```

```
|<1> Boot System |
```

```
|<2> Enter Serial SubMenu |
|<3> Enter Ethernet SubMenu |
|<4> File Control |
|<5> Modify BootWare Password |
|<6> Skip Current System Configuration |
|<7> BootWare Operation Menu |
|<8> Clear Super Password |
|<9> Storage Device Operation |
|<0> Reboot |
=====
Enter your choice(0-9): 1          启动设备
Starting to get the main application file--cfa0:/ SR8800-CMW520-R3328-SI.bin!..
.....
```

3.2 示例：Bootrom109 版本

ZBB_TEST

Starting...

```
*****
*                                     *
*      H3C SR8800 Bootrom, Version 109      *
*                                     *
*****
```

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CPU Type : MPC7447A
Memory Size : 1024MB

Board self testing...

The board is steady.

SlotNo of this board is 1.

EPLD1 testing is OK.

EPLD2 testing is OK.

16c2552 register testing is OK.

Please check LEDs...Done.

The device's Mac address is 0023.89ca.a200.

Press Ctrl+B to enter Boot Menu... 5

password:

MAIN MENU

1. Boot with default mode
2. Boot from primary boot file
3. Boot from backup boot file
4. Enter serial submenu
5. Enter ethernet submenu
6. Modify boot description area
7. Modify bootrom password
0. Reboot

Enter your choice(0-7): 6

**进入菜单指定启动文件，
注意请指定CF卡中启动文件为主启动文件**

Please input primary boot file name:

Primary Boot File Name = cf:/ SR8800-CMW520-R3238-SI.APP

Please input backup boot file name:

Backup Boot File Name = flash:/ SR8800-CMW520-R3238-SI.APP

MAIN MENU

1. Boot with default mode
2. Boot from primary boot file
3. Boot from backup boot file
4. Enter serial submenu
5. Enter ethernet submenu
6. Modify boot description area
7. Modify bootrom password
0. Reboot

Enter your choice(0-7): 1

启动设备

Boot from primary boot file