

什么造成一个路由器由Abort和Trace Trap命令重新启动

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[Introduction](#)

本文解释系统消息“为什么ROM”或“ROM”在输出也许出现的**show version**命令中。本文为什么也解释是正在运行的威力回归到ROMmon模式的路由器。

[Prerequisites](#)

[Requirements](#)

There are no specific requirements for this document.

[Components Used](#)

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

[Conventions](#)

Refer to [Cisco Technical Tips Conventions](#) for more information on document conventions.

[识别重新加载的原因](#)

与信息一起例如硬件和软件版本，输出的**show version**命令也显示关于系统如何的信息被重新了启动。例如，通过**reload**命令被重新启动的路由器显示消息，“ROM”，而被重新启动被重新启动的路由器导致消息，“ROM”。偶然地，这些消息也许被看到：

```
Router uptime is 1 minute
System returned to ROM by abort at PC 0x8032A6EC
System image file is "flash:C2600-i-mz.122-10b.bin"
```

或

```
Router uptime is 2 minutes
System returned to ROM by trace trap at PC 0x32C2064
System image file is "flash:/c2500-js-1.122-10b"
```

原因

"Abort"或"Trace Trap"消息的外观表明配置寄存器很可能设置为该的值enable (event)在正常运行的Break键。位序号08 (在十六进制：0x0100)，如果设置，禁用Break键(即DEFAULT值的出厂)。如果它被重置到0 (或者明确地正如在0x2002或者隐含地，正如在0x2，与0x0002是等同的)，Break键是启用的。当Break键是启用的时，中断序列造成路由器进入ROMmon模式，在启动并且在正常运行以后。即使中断信号未通过控制台故意地被发送，行为不端的一些终端或重新加载可能偶然地发送路由器信号类似于中断序列。

参考[配置寄存器位含义](#)关于不同的配置寄存器值的更多信息。

您能检查配置寄存器的值在**show version**命令结束时：

```
Router#show version
Cisco Internetwork Operating System Software
IOS (tm) 2500 Software (C2500-JS-L), Version 12.2(10b), RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Fri 12-Jul-02 02:13 by pwade
Image text-base: 0x0307AA24, data-base: 0x00001000

ROM: System Bootstrap, Version 11.0(10c), SOFTWARE
BOOTLDR: 3000 Bootstrap Software (IGS-BOOT-R), Version 11.0(10c), RELEASE SOFTWARE (fc1)

R1 uptime is 9 minutes
System returned to ROM by trace trap at PC 0x32C2064
System image file is "flash:/c2500-js-1.122-10b"

cisco 2500 (68030) processor (revision F) with 16384K/2048K bytes of memory.
Processor board ID 04796554, with hardware revision 00000000
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
Basic Rate ISDN software, Version 1.1.
1 Ethernet/IEEE 802.3 interface(s)
2 Serial network interface(s)
1 ISDN Basic Rate interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read ONLY)

Configuration register is 0x2002
```

Troubleshoot

要防止路由器有意无意返回到ROMmon模式，请更改配置寄存器到禁用Break键的值。要执行如此，请更改配置寄存器的8位到1 (是多数的共用值0x2102)。

```
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#config-register 0x2102
Router(config)#^Z
00:20:13: %SYS-5-CONFIG_I: Configured from console by console

Router#show version
Cisco Internetwork Operating System Software
IOS (tm) 2500 Software (C2500-JS-L), Version 12.2(10b), RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Fri 12-Jul-02 02:13 by pwade
Image text-base: 0x0307AA24, data-base: 0x00001000

ROM: System Bootstrap, Version 11.0(10c), SOFTWARE
BOOTLDR: 3000 Bootstrap Software (IGS-BOOT-R), Version 11.0(10c), RELEASE SOFTWARE (fc1)

Router uptime is 20 minutes
System returned to ROM by trace trap at PC 0x32C2064
System image file is "flash:/c2500-js-1.122-10b"

cisco 2500 (68030) processor (revision F) with 16384K/2048K bytes of memory.
Processor board ID 04796554, with hardware revision 00000000
Bridging software.
X.25 software, Version 3.0.0.
SuperLAT software (copyright 1990 by Meridian Technology Corp).
TN3270 Emulation software.
Basic Rate ISDN software, Version 1.1.
1 Ethernet/IEEE 802.3 interface(s)
2 Serial network interface(s)
1 ISDN Basic Rate interface(s)
32K bytes of non-volatile configuration memory.
16384K bytes of processor board System flash (Read ONLY)
Configuration register is 0x2002 (will be 0x2102 at next reload)
```

使用配置寄存器集的8位，系统防止受到也许否则造成路由器进入ROMmon模式的中断信号。新的配置寄存器设置只生效在下一次重新加载。保证您安排停工期于此路由器，在Break键是失效的前。

Note: Break键为第一总是启用的60秒，在路由器被重新载入或通电(在启动顺序期间)后，不考虑8位的状态在配置寄存器的。如果通过配置寄存器禁用或enable (event) Break键，在启动顺序期间，路由器仅受影响在正常运行时和不。

[Related Information](#)

- [路由器崩溃故障排除](#)
- [Cisco IOS软件支持页](#)
- [Technical Support & Documentation - Cisco Systems](#)