

问题描述

设备信息: SR6604 Version 7.1.064, Release 7608P01

问题描述: 上传升级文件, 修改过日志服务器地址, 第二天发现内存增高, 空闲内存率为33%, 之前是60%左右

%Dec 7 18:15:50:314 2023 P-ZJ745-TPC-AR02 SHELL/6/SHELL_CMD: -Line=vty0-IPAddr=10.10.238.234-User=nspm; Command is tftp 10.10.238.232 get SR6600-CMW710-R7740P24-RPE3.ipe flash:/SR6600-CMW710-R7740P24-RPE3.ipe vpn-instance VRF-MGMT
%Dec 7 18:32:02:995 2023 P-ZJ745-TPC-AR02 SHELL/6/SHELL_CMD: -Line=vty0-IPAddr=10.10.238.234-User=nspm; Command is tftp 10.10.238.232 get SR6600-CMW710-SYSTEM-WEAK-R7740P24H02-RPE3.bin flash:/SR6600-CMW710-SYSTEM-WEAK-R7740P24H02-RPE3.bin vpn-instance V/
%Dec 7 19:46:16:841 2023 P-ZJ745-TPC-AR02 CFGMAN/5/CFGMAN_CFGCHANGED: -EventIndex=439-CommandSource=snmp-COnfigSource=startup-COnfigDestination=running; Configuration changed.

====display memory====
Memory statistics are measured in KB:
Slot 0:
Total Used Free Shared Buffers Cached FreeRatio
Mem: 2051960 1364228 687732 0 0 934112 33.5%
-/+ Buffers/Cache: 430116 1621844
Swap: 0 0 0

过程分析

====display device verbose====
Slot No. Board type Status Primary SubSlots
0 RT-RPE-X3 Normal Master 0
1 RT-RPE-X3 Normal Standby 0
====display memory====
Memory statistics are measured in KB:
Slot 0:
Total Used Free Shared Buffers Cached FreeRatio
Mem: 2051960 1364228 687732 0 0 934112 33.5%
-/+ Buffers/Cache: 430116 1621844
Swap: 0 0 0

Slot 1:
Total Used Free Shared Buffers Cached FreeRatio
Mem: 2051960 957260 1094700 0 0 632704 53.3%
-/+ Buffers/Cache: 324556 1727404
Swap:

通过display memory, 对比两个主控内存使用情况, slot 0 内存占用高, 原因是cached多占用了300M, 这是造成内存占用率高的主要原因, 上传.ipe版本有概率导致cached升高, 现场版本内存统计将cached统计到了used, R7740PXX版本内存统计将cached统计到了free里边, cached是Linux为了提高文件访问效率而实现的一种缓存机制, 因此导致内存升高。

解决方法

重启设备可以恢复, 删除软件版本文件也可以恢复