

在高磁盘性能利用率的TechNote

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简介

本文描述步骤，当您经验磁盘性能利用率到达的100%和需要检查它是否是应用程序问题或硬件问题时，您要求运行几命令分析情况。

先决条件

要求

本文档没有任何特定的要求。

使用的组件

本文档中的信息基于以下软件和硬件版本：

- 思科统一计算系统(UCS)系列
- 惠普(HP)服务器

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您使用的是真实网络，请确保您已经了解所有命令的潜在影响。

问题：高磁盘性能利用率

系统工作减慢并且不稳定的。您体验磁盘性能利用率到达的100%。

故障排除

快速和简单的方法是访问管理Web接口和检查存储设备硬件状态。

当没有对思科集成管理控制器(CIMC)时远程管理的访问统一计算系统(UCS)系列或集成灯的(ILO)在

HP服务器，使用此方法，您能获得信息关于RAID和磁盘：

思科统一计算系统(UCS)服务器：

Debian分配使用名为“megacli的”一个包。

关于此工具的更多信息- <http://hwraid.le-vert.net/wiki/LSIMegaRAIDSAS>

示例如何使用命令- <http://www.mostlychris.com/blog/2009/07/29/check-raid-status-with-megacli/>

debian的包可以[下载](#)和安装。

注意：它用megacli_8.07.14-1_amd64.deb测试

为了检查使用哪些hardware控制器，请运行命令：**sudo lspci -vv|grep -我RAID**

即。

82:00.0 RAID总线控制器：LSI逻辑/Symbios逻辑MegaRAID SAS 2208 [Thunderbolt] (rev 05)

内核驱动器在使用中：megaraid_sas

关于此命令的更多信息可以找到在：

<http://www.cisco.com/c/en/us/support/docs/servers-unified-computing/ucs-c-series-rack-servers/115020-intro-lsi-megacli-00.html>

运行它作为根，请运行命令：**sudo /usr/bin/megacli**

思科统一计算系统(UCS)系列

步骤1.查找您的RAID控制器详细信息，运行命令：**lspci -vv|grep -我RAID。**

RAID控制器是设备。

```
$ lspci -vv | grep -i RAID82:00.0 RAID bus controller: LSI Logic / Symbios Logic MegaRAID SAS
2208 [Thunderbolt] (rev 05)          Kernel driver in use: megaraid_sas
$ sudo lspci -vv | grep -A60 -i RAID
82:00.0 RAID bus controller: LSI Logic / Symbios Logic MegaRAID SAS 2208 [Thunderbolt] (rev 05)
Subsystem: LSI Logic / Symbios Logic Device 9271
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr+ Stepping- SERR+ FastB2B-
DisINTx+
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort- <TAbort- <MAbort- >SERR- <PERR-
INTx-
Latency: 0, Cache Line Size: 64 bytes
Interrupt: pin A routed to IRQ 56
Region 0: I/O ports at f000 [size=256]
Region 1: Memory at fbe60000 (64-bit, non-prefetchable) [size=16K]
Region 3: Memory at fbe00000 (64-bit, non-prefetchable) [size=256K]
Expansion ROM at fbe40000 [disabled] [size=128K]
Capabilities: [50] Power Management version 3
Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=0mA PME(D0-,D1-,D2-,D3hot-,D3cold-)
```

```

Status: D0 NoSoftRst+ PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [68] Express (v2) Endpoint, MSI 00
DevCap: MaxPayload 4096 bytes, PhantFunc 0, Latency L0s <64ns, L1 <1us
ExtTag+ AttnBtn- AttnInd- PwrInd- RBE+ FLReset+
DevCtl: Report errors: Correctable- Non-Fatal+ Fatal+ Unsupported-
RlxdOrd- ExtTag- PhantFunc- AuxPwr- NoSnoop+ FLReset-
MaxPayload 256 bytes, MaxReadReq 512 bytes
DevSta: CorrErr+ UncorrErr- FatalErr- UnsuppReq+ AuxPwr- TransPnd-
LnkCap: Port #0, Speed 8GT/s, Width x8, ASPM L0s, Latency L0 <64ns, L1 <1us
ClockPM- Surprise- LLActRep- BwNot-
LnkCtl: ASPM Disabled; RCB 64 bytes Disabled- Retrain- CommClk+
ExtSynch- ClockPM- AutWidDis- BWInt- AutBWInt-
LnkSta: Speed 8GT/s, Width x8, TrErr- Train- SlotClk+ DLActive- BWMgmt- ABWMgmt-
DevCap2: Completion Timeout: Range BC, TimeoutDis+
DevCtl2: Completion Timeout: 65ms to 210ms, TimeoutDis-
LnkCtl2: Target Link Speed: 8GT/s, EnterCompliance- SpeedDis-, Selectable De-emphasis: -6dB
Transmit Margin: Normal Operating Range, EnterModifiedCompliance- ComplianceSOS-
Compliance De-emphasis: -6dB
LnkSta2: Current De-emphasis Level: -6dB, EqualizationComplete+, EqualizationPhase1+
EqualizationPhase2+, EqualizationPhase3+, LinkEqualizationRequest+
Capabilities: [d0] Vital Product Data
Unknown small resource type 00, will not decode more.
Capabilities: [a8] MSI: Enable- Count=1/1 Maskable- 64bit+
Address: 0000000000000000 Data&colon; 0000
Capabilities: [c0] MSI-X: Enable+ Count=16 Masked-
Vector table: BAR=1 offset=00002000
PBA: BAR=1 offset=00003000
Capabilities: [100 v2] Advanced Error Reporting
UESta: DLP- SDES- TLP- FCP- CmplTTO- CmplTAbrt- UnxCmplT- RxOF- MalfTLP- ECRC- UnsupReq-
ACSViol-
UEmsk: DLP- SDES- TLP- FCP- CmplTTO- CmplTAbrt- UnxCmplT- RxOF- MalfTLP- ECRC- UnsupReq+
ACSViol-
UESvrt: DLP+ SDES+ TLP- FCP+ CmplTTO- CmplTAbrt- UnxCmplT- RxOF+ MalfTLP+ ECRC- UnsupReq-
ACSViol-
CESta: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+
CEmsk: RxErr- BadTLP- BadDLLP- Rollover- Timeout- NonFatalErr+
AERCap: First Error Pointer: 00, GenCap- CGenEn- ChkCap- ChkEn-
Capabilities: [1e0 v1] #19
Capabilities: [1c0 v1] Power Budgeting <?>
Capabilities: [190 v1] #16
Capabilities: [148 v1] Alternative Routing-ID Interpretation (ARI)
ARICap: MFVC- ACS-, Next Function: 0
ARICtl: MFVC- ACS-, Function Group: 0
Kernel driver in use: megaraid_sas

```

步骤2.检查统一计算物理系统的系列(UCS)和虚拟驱动器，请运行命令：sudo megacli -ldinfo -lALL -aAL。

```

$ sudo megacli -ldinfo -lALL -aALLAdapter 0 -- Virtual Drive Information:Virtual Drive: 0
(Target Id: 0)Name :RAID10_1234RAID Level : Primary-1, Secondary-0, RAID
Level Qualifier-0Size : 1.088 TBSector Size : 512Is VD emulated :
NoMirror Data &colon; 1.088 TBState : OptimalStrip Size : 64 KBNumber Of Drives per
span:2Span Depth : 2Default Cache Policy: WriteBack, ReadAdaptive, Direct, No Write Cache if Bad
BBUCurrent Cache Policy: WriteThrough, ReadAdaptive, Direct, No Write Cache if Bad BBUDefault
Access Policy: Read/WriteCurrent Access Policy: Read/WriteDisk Cache Policy : Disk's
DefaultEncryption Type : NonePI type: No PIIIs VD Cached: NoExit Code: 0x00

```

您需要检查值以下的当前缓存策略

回复-好

直写- BAD

这是同样的一示例：

```
$ sudo megacli -ldinfo -lALL ?aALL
```

```
Adapter 0 -- Virtual Drive Information:
Virtual Drive: 0 (Target Id: 0)
Name           :RAID10_1234
RAID Level     : Primary-1, Secondary-0, RAID Level Qualifier-0
Size          : 1.088 TB
Sector Size   : 512
Is VD emulated : No
Mirror Data    : 1.088 TB
State         : Optimal
Strip Size    : 64 KB
Number Of Drives per span:2
Span Depth    : 2
Default Cache Policy: WriteBack, ReadAdaptive, Direct, No Write Cache if Bad BBU
Current Cache Policy: WriteBack, ReadAdaptive, Direct, No Write Cache if Bad BBU
Default Access Policy: Read/Write
Disk Cache Policy : Disk's Default
Disk Cache Policy : Disk's Default
Encryption Type  : None
PI type: No PI
Is VD Cached: No

Exit Code: 0x00
intucell@deb017:/intucell/maintenance_portal_6$
```

步骤3.电池检查，运行命令：**sudo megacli - AdpBbuCmd - NoLog的GetBbuStatus - aALL -。**

```
$ sudo megacli -AdpBbuCmd -GetBbuStatus -aALL -NoLogBBU status for Adapter: 0BatteryType:
CVPM02Voltage: 9849 mVCurrent: 0 mATemperature: 25 CBattery State: OptimalBBU Firmware Status:
Charging Status           : None Voltage           : OK Temperature
: OK Learn Cycle Requested           : No Learn Cycle Active           : No
Learn Cycle Status       : OK Learn Cycle Timeout       : No I2c
Errors Detected          : No Battery Pack Missing       : No Battery
Replacement required     : No Remaining Capacity Low     : No Periodic
Learn Required           : No Transparent Learn         : No No space to
cache offload            : No Pack is about to fail & should be replaced : No Cache Offload
premium feature required : No Module microcode update required       : NoBBU GasGauge Status:
0x654e Pack energy       : 334 J Capacitance           : 101 Remaining reserve space
: 93Exit Code: 0x00
```

步骤4.物理磁盘信息，运行命令：**sudo megacli - AdpAllInfo - aALL。**

```
$ sudo megacli -AdpAllInfo -aALLAdapter
#0=====
Versions           =====Product Name       : LSI MegaRAID SAS 9271-8iSerial No
: SV50206143FW Package Build: 23.29.0-0014           Mfg. Data
=====Mfg. Date       : 01/04/15Rework Date       : 00/00/00Revision No       : 33BBattery
FRU       : N/A           Image Versions in Flash:           =====BIOS
Version       : 5.47.05.0_4.16.08.00_0x06080500WebBIOS Version       : 6.1-71-e_71-RelPreboot CLI
Version: 05.07-00:##00011FW Version       : 3.410.05-3484NVDATA Version       : 2.1406.03-
0134Boot Block Version : 2.05.00.00-0010BOOT Version       : 07.26.26.219           Pending
Images in Flash           =====None           PCI Info
=====Controller Id   : 0000Vendor Id       : 1000Device Id       : 005bSubVendorId
: 1000SubDeviceId       : 9271Host Interface   : PCIEChipRevision   : D1Link Speed       :
0Number of Frontend Port: 0Device Interface   : PCIENumber of Backend Port: 8Port       : Address0
```

```

74a2e6a2b23600bf1      00000000000000000002      000000000000000003      000000000000000004
00000000000000000005      00000000000000000006      000000000000000007      000000000000000000
HW Configuration          =====SAS Address      : 500605b009f61dd0BBU
: PresentAlarm           : PresentNVRAM           : PresentSerial Debugger : PresentMemory
: PresentFlash           : PresentMemory Size     : 1024MBTPM              : AbsentOn board
Expander: AbsentUpgrade Key : AbsentTemperature sensor for ROC : PresentTemperature
sensor for controller     : AbsentROC temperature : 74 degree Celsius      Settings
=====Current Time      : 7:3:27 2/19, 2016Predictive Fail Poll
Interval : 300secInterrupt Throttle Active Count : 16Interrupt Throttle Completion :
50usRebuild Rate          : 30%PR Rate              : 30%BGI Rate
: 30%Check Consistency Rate : 30%Reconstruction Rate : 30%Cache Flush
Interval : 4sMax Drives to Spinup at One Time : 2Delay Among Spinup Groups :
12sPhysical Drive Coercion Mode : 1GBCluster Mode      : DisabledAlarm
: EnabledAuto Rebuild      : EnabledBattery Warning : EnabledEcc
Bucket Size                : 15Ecc Bucket Leak Rate : 1440 MinutesRestore HotSpare
on Insertion : DisabledExpose Enclosure Devices : EnabledMaintain PD Fail History
: DisabledHost Request Reordering : EnabledAuto Detect BackPlane Enabled : SGPIO/i2c
SEPLoad Balance Mode      : AutoUse FDE Only      : YesSecurity Key
Assigned : NoSecurity Key Failed : NoSecurity Key Not Backedup :
NoDefault LD PowerSave Policy : AutomaticMaximum number of direct attached drives to spin
up in 1 min : 10Auto Enhanced Import : YesAny Offline VD Cache Preserved : NoAllow
Boot with Preserved Cache : NoDisable Online Controller Reset : NoPFK in NVRAM
: YesUse disk activity for locate : NoPOST delay          : 90 secondsBIOS
Error Handling             : Pause on ErrorsCurrent Boot Mode :Normal
Capabilities              =====RAID Level Supported : RAID0, RAID1,
RAID5, RAID6, RAID00, RAID10, RAID50, RAID60, PRL 11, PRL 11 with spanning, SRL 3 supported,
PRL11-RLQ0 DDF layout with no span, PRL11-RLQ0 DDF layout with spanSupported Drives
: SAS, SATAAllowed Mixing:Mix in Enclosure AllowedMix of SAS/SATA of HDD type in VD AllowedMix
of SAS/SATA of SSD type in VD Allowed Status =====ECC
Bucket Count              : 0 Limitations          =====Max
Arms Per VD               : 32Max Spans Per VD     : 8Max Arrays            : 128Max Number of
VDs : 64Max Parallel Commands : 1008Max SGE Count      : 60Max Data Transfer
Size : 8192 sectorsMax Strips PerIO : 42Max LD per array    : 64Min Strip Size
: 8 KBMax Strip Size       : 1.0 MBMax Configurable CacheCade Size: 0 GBCurrent Size of
CacheCade : 0 GBCurrent Size of FW Cache : 866 MB Device Present
=====Virtual Drives : 1 Degraded : 0 Offline : 0Physical Devices : 6 Disks : 4
Critical Disks : 0 Failed Disks : 0 Supported Adapter Operations =====Rebuild Rate :
YesCC Rate : YesBGI Rate : YesReconstruct Rate : YesPatrol Read Rate : YesAlarm Control :
YesCluster Support : NoBBU : YesSpanning : YesDedicated Hot Spare : YesRevertible Hot Spares :
YesForeign Config Import : YesSelf Diagnostic : YesAllow Mixed Redundancy on Array : NoGlobal
Hot Spares : YesDeny SCSI Passthrough : NoDeny SMP Passthrough : NoDeny STP Passthrough :
NoSupport Security : NoSnapshot Enabled : NoSupport the OCE without adding drives : YesSupport
PFK : YesSupport PI : YesSupport Boot Time PFK Change : NoDisable Online PFK Change : NoSupport
LDPI Type1 : NoSupport LDPI Type2 : NoSupport LDPI Type3 : NoPFK TrailTime Remaining : 0 days 0
hoursSupport Shield State : YesBlock SSD Write Disk Cache Change: NoSupport Online FW Update :
Yes Supported VD Operations =====Read Policy : YesWrite Policy : YesIO Policy :
YesAccess Policy : YesDisk Cache Policy : YesReconstruction : YesDeny Locate : NoDeny CC :
NoAllow Ctrl Encryption: NoEnable LDBBM : NoSupport Breakmirror : NoPower Savings : No Supported
PD Operations =====Force Online : YesForce Offline : YesForce Rebuild : YesDeny Force
Failed : NoDeny Force Good/Bad : NoDeny Missing Replace : NoDeny Clear : NoDeny Locate :
NoSupport Temperature : YesNCQ : YesDisable Copyback : NoEnable JBOD : NoEnable Copyback on
SMART : NoEnable Copyback to SSD on SMART Error : YesEnable SSD Patrol Read : NoPR Correct
Unconfigured Areas : YesEnable Spin Down of UnConfigured Drives : YesDisable Spin Down of hot
spares : NoSpin Down time : 30T10 Power State : No Error Counters =====Memory
Correctable Errors : 0Memory Uncorrectable Errors : 0 Cluster Information
=====Cluster Permitted : NoCluster Active : No Default Settings =====Phy
Polarity : 0Phy PolaritySplit : 0Background Rate : 30Strip Size : 64kBFlush Time : 4
secondsWrite Policy : WBRead Policy : AdaptiveCache When BBU Bad : DisabledCached IO : NoSMART
Mode : Mode 6Alarm Disable : YesCoercion Mode : 1GBZCR Config : UnknownDirty LED Shows Drive
Activity : NoBIOS Continue on Error : 1Spin Down Mode : Internal OnlyAllowed Device Type :
SAS/SATA MixAllow Mix in Enclosure : YesAllow HDD SAS/SATA Mix in VD : YesAllow SSD SAS/SATA Mix
in VD : YesAllow HDD/SSD Mix in VD : NoAllow SATA in Cluster : NoMax Chained Enclosures :
16Disable Ctrl-R : YesEnable Web BIOS : YesDirect PD Mapping : NoBIOS Enumerate VDs : YesRestore
Hot Spare on Insertion : NoExpose Enclosure Devices : YesMaintain PD Fail History : NoDisable

```

Puncturing : NoZero Based Enclosure Enumeration : NoPreBoot CLI Enabled : YesLED Show Drive Activity : NoCluster Disable : YesSAS Disable : NoAuto Detect BackPlane Enable : SGPIO/i2c SEPUse FDE Only : YesEnable Led Header : NoDelay during POST : 0EnableCrashDump : NoDisable Online Controller Reset : NoEnableLDBBM : NoUn-Certified Hard Disk Drives : AllowTreat Single span R1E as R10 : NoMax LD per array : 64Power Saving option : All power saving options are enabledDefault spin down time in minutes: 30Enable JBOD : NoTTY Log In Flash : YesAuto Enhanced Import : YesBreakMirror RAID Support : NoDisable Join Mirror : NoEnable Shield State : NoTime taken to detect CME : 60sExit Code: 0x00

步骤5.一致性检查，运行命令：**sudo megacli -ldinfo -lALL -aALL。**

```
$ sudo megacli -ldinfo -lALL -aALLAdapter 0 -- Virtual Drive Information:Virtual Drive: 0
(Target Id: 0)Name :RAID10_1234RAID Level : Primary-1, Secondary-0, RAID
Level Qualifier-0Size : 1.088 TBSector Size : 512Is VD emulated :
NoMirror Data &colon; 1.088 TBState : OptimalStrip Size : 64
KBNumber Of Drives per span:2Span Depth : 2Default Cache Policy: WriteBack,
ReadAdaptive, Direct, No Write Cache if Bad BBUCurrent Cache Policy: WriteBack, ReadAdaptive,
Direct, No Write Cache if Bad BBUDefault Access Policy: Read/WriteCurrent Access Policy:
Read/WriteDisk Cache Policy : Disk's DefaultOngoing Progresses: Check Consistency : Completed
43%, Taken 11 min.Encryption Type : NonePI type: No PIIIs VD Cached: NoExit Code: 0x00
```

步骤6.一致性检查间隔设置，运行命令：**sudo megacli -AdpCcSched -资讯台 -aALL。**

RAID控制器执行RAID的一致性检查每7天。168显示的值延迟这是以几小时。

```
$ sudo megacli -AdpCcSched -Info -aALLAdapter #0Operation Mode: ConcurrentExecution Delay:
168Next start time: 02/20/2016, 03:00:00Current State: ActiveNumber of iterations: 43Number of
VD completed: 0Excluded VDs : NoneExit Code: 0x00
```

步骤7.获得RAID事件日志，运行命令：**sudo megacli -AdpEventLog -GetEvents -f events.log -aALL && cat events.log|更多。**

```
$ sudo megacli -AdpEventLog -GetEvents -f events.log -aALL && cat events.log | moreSuccess in
AdpEventLogExit Code: 0x00Adapter: 0 - Number of Events : 1404seqNum: 0x00000002Seconds since
last reboot: 78Code: 0x0000001eClass: 0Locale: 0x20Event Description: Event log clearedEvent
Data&colon;=====NoneseqNum: 0x00000003Seconds since last reboot: 78Code: 0x0000002bClass:
0Locale: 0x20Event Description: Test event: 'Event log adjusted, possibly due Firmware version
incompatibility'Event Data&colon;=====String: Event log adjusted, possibly due Firmware
version incompatibilityseqNum: 0x00000004Seconds since last reboot: 4Code: 0x00000000Class:
0Locale: 0x20Event Description: Firmware initialization started (PCI ID
005b/1000/9271/1000)Event Data&colon;<Snip>
```

问题如被看到在思科查看存储设备控制器的集成管理Web接口：

电池检查

LSI MegaRAID SAS 9271-8i (SLOT-4)

Controller Info | Physical Drive Info | Virtual Drive Info | **Battery Backup Unit** | Storage Log

Actions

- Disable Auto Learn Mode
- Start Learn Cycle

General

Controller: **SLOT-4**
Battery Type: **TMM-C SuperCap**
Health: **⚠ Moderate Fault**
Status: **Learn Cycle Active**
Battery Present: **true**
Temperature: **24 degrees C**
Temperature High: **false**
Capacitance: **97 %**
Charging Status: **N/A**

Advanced

Manufacturer: **LSI**
Serial Number: **19365**
Date of Manufacture: **2014-10-26**
Firmware Version: **25849-03**
Design Voltage: **9.411 V**
Voltage: **10.415 V**
Current: **0.000 A**
Design Capacity: **283 Joules**
Pack Energy: **357 Joules**
Learn Mode: **Auto**
Learn Cycle Status: **Active**
Learn Cycle Requested: **true**
Next Learn Cycle: **2015-11-19 02:39**

Fault Entries

<<Newest <Newer **Fault Entries 1 to 2 (2)** Older> Oldest>> Entries Per Page: 50

Time	Severity	Code	DN	Description
2015-11-19T02:07:12	Warning	F1008	sys/rack-unit-1/board/storage-SAS-SLOT-4/vd-0	Storage Virtual Drive 0 Degraded: please check the storage controller, or reset the
2015-11-19T02:05:55	Minor	F0997	sys/rack-unit-1/board/storage-SAS-SLOT-4/raid-ba	Storage Raid Battery SLOT-4 Degraded: please check the battery or the storage cor

您能保存后续分析的日志。

The screenshot shows the Cisco IMC interface with a 'Moderate Fault' warning. The 'Utilities' section is active, and a file download dialog box is open, showing the file 'C240-FCH1902V2HC-20160223-184634.tar.gz' being saved to the 'Downloads' folder. The dialog box also shows a list of other files in the folder and a warning message: 'Warning: This file may be an executable program or contain malicious content, use caution before saving or opening.'

惠普(HP)硬件

对于HP有需要安装为了获得访问到RAID控制器和物理磁盘的Debian的一个特殊包。包被命名 [hpacucli_9.40.1-1_amd64.deb](#)

步骤1.安装：

- 登陆到您的有您的私人帐户的Linux系统。
- 下载包到您的Linux系统
：`wget http://downloads.linux.hpe.com/SDR/repo/mcp/debian/pool/non-free/hpacucli_9.40.1-1_amd64.deb`
- 运行命令：`sudo dpkg -i hpacucli_9.40.1-1_amd64.deb`

当安装完成时，通过使用以下CLI工具，您能与RAID处理一起使用：`hpacucli`

工具允许拿来从RAID控制器的相应的信息以及更改配置用RAID组件。

步骤2.显示控制器配置详细信息，运行命令：`hpacucli ctrl all show config detail`所有show config详细信息。

```
# hpacucli ctrl all show config detailSmart Array P410i in Slot 0 (Embedded) Bus Interface:
PCI Slot: 0 Serial Number: 50123456789ABCDE Cache Serial Number: PACQ9SY9NUH RAID 6
(ADG) Status: Disabled Controller Status: OK Hardware Revision: C Firmware Version: 2.50
Rebuild Priority: Medium Expand Priority: Medium Surface Scan Delay: 15 secs Surface Scan
Mode: Idle Queue Depth: Automatic Monitor and Performance Delay: 60 min Elevator Sort:
Enabled Degraded Performance Optimization: Disabled Inconsistency Repair Policy: Disabled
Wait for Cache Room: Disabled Surface Analysis Inconsistency Notification: Disabled Post
Prompt Timeout: 0 secs Cache Board Present: True Cache Status: OK Cache Ratio: 25% Read /
75% Write Drive Write Cache: Disabled Total Cache Size: 256 MB Total Cache Memory
Available: 144 MB No-Battery Write Cache: Disabled Cache Backup Power Source: Batteries
Battery/Capacitor Count: 1 Battery/Capacitor Status: OK SATA NCQ Supported: True Array: A
Interface Type: SAS Unused Space: 0 MB Status: OK Array Type: Data Logical
Drive: 1 Size: 136.7 GB Fault Tolerance: 1 Heads: 255 Sectors
Per Track: 32 Cylinders: 35132 Strip Size: 128 KB Full Stripe Size: 128
KB Status: OK Caching: Enabled Unique Identifier:
600508B1001037383941424344450E00 Disk Name: /dev/cciss/c0d0 Mount Points: /boot
243 MB OS Status: LOCKED Logical Drive Label: A00F9DBE50123456789ABCDEA8A8
Mirror Group 0: physicaldrive 1I:1:1 (port 1I:box 1:bay 1, SAS, 146 GB, OK)
Mirror Group 1: physicaldrive 1I:1:2 (port 1I:box 1:bay 2, SAS, 146 GB, OK)
Drive Type: Data physicaldrive 1I:1:1 Port: 1I Box: 1 Bay: 1
Status: OK Drive Type: Data Drive Interface Type: SAS Size: 146 GB
Rotational Speed: 10000 Firmware Revision: HPD5 Serial Number: D0A1P9B09YJW0949
Model: HP EG0146FARTR Current Temperature (C): 18 Maximum Temperature (C):
39 PHY Count: 2 PHY Transfer Rate: 6.0Gbps, Unknown physicaldrive 1I:1:2
Port: 1I Box: 1 Bay: 2 Status: OK Drive Type: Data Drive
Interface Type: SAS Size: 146 GB Rotational Speed: 10000 Firmware
Revision: HPD5 Serial Number: D0A1P9B09YKM0949 Model: HP EG0146FARTR
Current Temperature (C): 17 Maximum Temperature (C): 47 PHY Count: 2 PHY
Transfer Rate: 6.0Gbps, Unknown SEP (Vendor ID PMCSIERA, Model SRC 8x6G) 250 Device
Number: 250 Firmware Version: RevC WWID: 50123456789ABCED Vendor ID: PMCSIERA
Model: SRC 8x6G
```

步骤3. Show controller状态，运行命令：`hpacucli ctrl all show status`。

```
# hpacucli ctrl all show statusSmart Array P410i in Slot 0 (Embedded) Controller Status: OK
Cache Status: OK Battery/Capacitor Status: OK
```

步骤4. Show physical状态，运行命令：`hpacucli ctrl slot=0 pd all show status`。

```
# hpacucli ctrl slot=0 pd all show status physicaldrive 1I:1:1 (port 1I:box 1:bay 1, 146 GB):
OK physicaldrive 1I:1:2 (port 1I:box 1:bay 2, 146 GB): OK
```

步骤5.显示逻辑状态，运行命令：`hpacucli ctrl slot=0 ld all show status`。

```
# hpacucli ctrl slot=0 pd all show status physicaldrive 1I:1:1 (port 1I:box 1:bay 1, 146 GB):
```



```
OK physicaldrive 1I:1:2 (port 1I:box 1:bay 2, 146 GB): OKroot@deb011:/intucell# hpacucli ctrl slot=0 ld all show status logicaldrive 1 (136.7 GB, 1): OK
```

解决方案

通常一个坏电池在其中一个服务器中可以是它的原因。您应该替换它。

这解决问题并且降低高磁盘性能利用率。