

# 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。

**Note:** 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 RAID
82:00.0 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 -aALL`。**

```
$ 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         &colon; 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: WriteThrough, ReadAdaptive, Direct, No Write Cache if Bad BBU
Default Access Policy: Read/Write
Current Access Policy: Read/Write
Disk Cache Policy   : Disk's Default
Encryption Type     : None
PI type: No PI

Is VD Cached: No
```

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

```

$ sudo megacli -AdpAllInfo -aALL

Adapter #0
=====
                Versions
                =====
Product Name   : LSI MegaRAID SAS 9271-8i
Serial No      : SV50206143
FW Package Build: 23.29.0-0014

                Mfg. Data
                =====
Mfg. Date      : 01/04/15
Rework Date    : 00/00/00
Revision No    : 33B
Battery FRU    : N/A

                Image Versions in Flash:
                =====
BIOS Version   : 5.47.05.0_4.16.08.00_0x06080500
WebBIOS Version : 6.1-71-e_71-Rel
Preboot CLI Version: 05.07-00:##00011
FW Version     : 3.410.05-3484
NVDATA Version : 2.1406.03-0134
Boot Block Version : 2.05.00.00-0010
BOOT Version   : 07.26.26.219

                Pending Images in Flash
                =====
None

                PCI Info
                =====
Controller Id  : 0000
Vendor Id      : 1000
Device Id      : 005b
SubVendorId    : 1000

```

SubDeviceId : 9271

Host Interface : PCIE

ChipRevision : D1

Link Speed : 0

Number of Frontend Port: 0

Device Interface : PCIE

Number of Backend Port: 8

Port	Address
0	74a2e6a2b23600bf
1	0000000000000000
2	0000000000000000
3	0000000000000000
4	0000000000000000
5	0000000000000000
6	0000000000000000
7	0000000000000000

HW Configuration

=====

SAS Address : 500605b009f61dd0  
BBU : Present  
Alarm : Present  
NVRAM : Present  
Serial Debugger : Present  
Memory : Present  
Flash : Present  
Memory Size : 1024MB  
TPM : Absent  
On board Expander: Absent  
Upgrade Key : Absent  
Temperature sensor for ROC : Present  
Temperature sensor for controller : Absent

ROC temperature : 74 degree Celsius

Settings

=====

Current Time : 7:3:27 2/19, 2016  
Predictive Fail Poll Interval : 300sec  
Interrupt Throttle Active Count : 16  
Interrupt Throttle Completion : 50us  
Rebuild Rate : 30%  
PR Rate : 30%  
BGI Rate : 30%  
Check Consistency Rate : 30%  
Reconstruction Rate : 30%  
Cache Flush Interval : 4s  
Max Drives to Spinup at One Time : 2  
Delay Among Spinup Groups : 12s  
Physical Drive Coercion Mode : 1GB  
Cluster Mode : Disabled  
Alarm : Enabled  
Auto Rebuild : Enabled  
Battery Warning : Enabled  
Ecc Bucket Size : 15  
Ecc Bucket Leak Rate : 1440 Minutes  
Restore HotSpare on Insertion : Disabled  
Expose Enclosure Devices : Enabled  
Maintain PD Fail History : Disabled  
Host Request Reordering : Enabled

Auto Detect BackPlane Enabled : SGPIO/i2c SEP  
Load Balance Mode : Auto  
Use FDE Only : Yes  
Security Key Assigned : No  
Security Key Failed : No  
Security Key Not Backedup : No  
Default LD PowerSave Policy : Automatic  
Maximum number of direct attached drives to spin up in 1 min : 10  
Auto Enhanced Import : Yes  
Any Offline VD Cache Preserved : No  
Allow Boot with Preserved Cache : No  
Disable Online Controller Reset : No  
PFK in NVRAM : Yes  
Use disk activity for locate : No  
POST delay : 90 seconds  
BIOS Error Handling : Pause on Errors  
Current 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 span  
Supported Drives : SAS, SATA

Allowed Mixing:

Mix in Enclosure Allowed  
Mix of SAS/SATA of HDD type in VD Allowed  
Mix of SAS/SATA of SSD type in VD Allowed

Status

=====

ECC Bucket Count : 0

Limitations

=====

Max Arms Per VD : 32  
Max Spans Per VD : 8  
Max Arrays : 128  
Max Number of VDs : 64  
Max Parallel Commands : 1008  
Max SGE Count : 60  
Max Data Transfer Size : 8192 sectors  
Max Strips PerIO : 42  
Max LD per array : 64  
Min Strip Size : 8 KB  
Max Strip Size : 1.0 MB  
Max Configurable CacheCade Size: 0 GB  
Current Size of CacheCade : 0 GB  
Current Size of FW Cache : 866 MB

Device Present

=====

Virtual Drives : 1  
    Degraded : 0  
    Offline : 0  
Physical Devices : 6  
    Disks : 4  
    Critical Disks : 0  
    Failed Disks : 0

Supported Adapter Operations

=====

Rebuild Rate : Yes

CC Rate : Yes  
 BGI Rate : Yes  
 Reconstruct Rate : Yes  
 Patrol Read Rate : Yes  
 Alarm Control : Yes  
 Cluster Support : No  
 BBU : Yes  
 Spanning : Yes  
 Dedicated Hot Spare : Yes  
 Revertible Hot Spares : Yes  
 Foreign Config Import : Yes  
 Self Diagnostic : Yes  
 Allow Mixed Redundancy on Array : No  
 Global Hot Spares : Yes  
 Deny SCSI Passthrough : No  
 Deny SMP Passthrough : No  
 Deny STP Passthrough : No  
 Support Security : No  
 Snapshot Enabled : No  
 Support the OCE without adding drives : Yes  
 Support PFK : Yes  
 Support PI : Yes  
 Support Boot Time PFK Change : No  
 Disable Online PFK Change : No  
 Support LDPI Type1 : No  
 Support LDPI Type2 : No  
 Support LDPI Type3 : No  
 PFK TrailTime Remaining : 0 days 0 hours  
 Support Shield State : Yes  
 Block SSD Write Disk Cache Change: No  
 Support Online FW Update : Yes

Supported VD Operations

=====

Read Policy : Yes  
 Write Policy : Yes  
 IO Policy : Yes  
 Access Policy : Yes  
 Disk Cache Policy : Yes  
 Reconstruction : Yes  
 Deny Locate : No  
 Deny CC : No  
 Allow Ctrl Encryption: No  
 Enable LDBBM : No  
 Support Breakmirror : No  
 Power Savings : No

Supported PD Operations

=====

Force Online : Yes  
 Force Offline : Yes  
 Force Rebuild : Yes  
 Deny Force Failed : No  
 Deny Force Good/Bad : No  
 Deny Missing Replace : No  
 Deny Clear : No  
 Deny Locate : No  
 Support Temperature : Yes  
 NCQ : Yes  
 Disable Copyback : No  
 Enable JBOD : No  
 Enable Copyback on SMART : No  
 Enable Copyback to SSD on SMART Error : Yes  
 Enable SSD Patrol Read : No



PR Correct Unconfigured Areas : Yes  
Enable Spin Down of UnConfigured Drives : Yes  
Disable Spin Down of hot spares : No  
Spin Down time : 30  
T10 Power State : No

Error Counters

=====

Memory Correctable Errors : 0  
Memory Uncorrectable Errors : 0

Cluster Information

=====

Cluster Permitted : No  
Cluster Active : No

Default Settings

=====

Phy Polarity : 0  
Phy PolaritySplit : 0  
Background Rate : 30  
Strip Size : 64kB  
Flush Time : 4 seconds  
Write Policy : WB  
Read Policy : Adaptive  
Cache When BBU Bad : Disabled  
Cached IO : No  
SMART Mode : Mode 6  
Alarm Disable : Yes  
Coercion Mode : 1GB  
ZCR Config : Unknown  
Dirty LED Shows Drive Activity : No  
BIOS Continue on Error : 1  
Spin Down Mode : Internal Only  
Allowed Device Type : SAS/SATA Mix  
Allow Mix in Enclosure : Yes  
Allow HDD SAS/SATA Mix in VD : Yes  
Allow SSD SAS/SATA Mix in VD : Yes  
Allow HDD/SSD Mix in VD : No  
Allow SATA in Cluster : No  
Max Chained Enclosures : 16  
Disable Ctrl-R : Yes  
Enable Web BIOS : Yes  
Direct PD Mapping : No  
BIOS Enumerate VDs : Yes  
Restore Hot Spare on Insertion : No  
Expose Enclosure Devices : Yes  
Maintain PD Fail History : No  
Disable Puncturing : No  
Zero Based Enclosure Enumeration : No  
PreBoot CLI Enabled : Yes  
LED Show Drive Activity : No  
Cluster Disable : Yes  
SAS Disable : No  
Auto Detect BackPlane Enable : SGPIO/i2c SEP  
Use FDE Only : Yes  
Enable Led Header : No  
Delay during POST : 0  
EnableCrashDump : No  
Disable Online Controller Reset : No  
EnableLDBBM : No  
Un-Certified Hard Disk Drives : Allow  
Treat Single span R1E as R10 : No  
Max LD per array : 64  
Power Saving option : All power saving options are enabled

```
Default spin down time in minutes: 30
Enable JBOD : No
TTY Log In Flash : Yes
Auto Enhanced Import : Yes
BreakMirror RAID Support : No
Disable Join Mirror : No
Enable Shield State : No
Time taken to detect CME : 60s
```

Exit Code: 0x00

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

```
$ 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 &colon; 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

Current Access Policy: Read/Write

Disk Cache Policy : Disk's Default

**Ongoing Progresses:**

**Check Consistency : Completed 43%, Taken 11 min.**

Encryption Type : None

PI type: No PI

Is VD Cached: No

Exit 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 -aALL
```

Adapter #0

Operation Mode: Concurrent

**Execution Delay: 168**

**Next start time: 02/20/2016, 03:00:00**

Current State: Active

Number of iterations: 43

Number of VD completed: 0

Excluded VDs : None

Exit 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 -AdpCcSched -Info -aALL
```

Adapter #0

Operation Mode: Concurrent

**Execution Delay: 168**

**Next start time: 02/20/2016, 03:00:00**

Current State: Active

Number of iterations: 43

Number of VD completed: 0

Excluded VDs : None

Exit Code: 0x00

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**

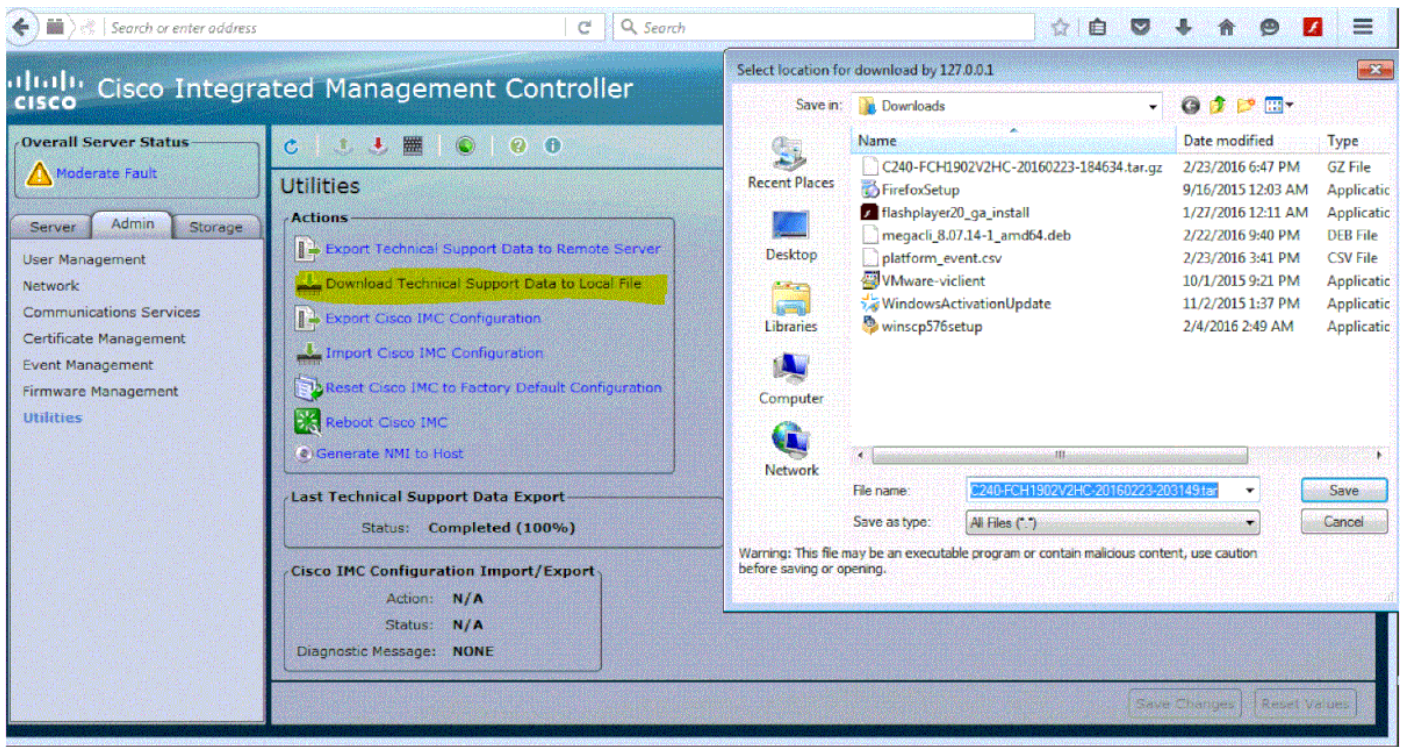
Manufacturer: **LSI**  
Serial Number: **19365**  
Date of Manufacture: **2014-10-26**  
Firmware Version: **25849-03**  
Design Voltage: **9.411 V**  
Voltage: **10.415 V**  
Current: **0.000 A**  
Design Capacity: **283 Joules**  
Pack Energy: **357 Joules**  
Learn Mode: **Auto**  
Learn Cycle Status: **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 reseat the
2015-11-19T02:05:55	Minor	F0997	sys/rack-unit-1/board/storage-SAS-SLOT-4/raid-be	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。



## 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所有show config`详细信息。

```
$ sudo megacli -AdpCcSched -Info -aALL
```

```
Adapter #0
```

```
Operation Mode: Concurrent
Execution Delay: 168
Next start time: 02/20/2016, 03:00:00
Current State: Active
Number of iterations: 43
Number of VD completed: 0
Excluded VDs          : None
Exit Code: 0x00
```

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



```
$ sudo megacli -AdpCcSched -Info -aALL
```

```
Adapter #0
```

```
Operation Mode: Concurrent
```

```
Execution Delay: 168
```

```
Next start time: 02/20/2016, 03:00:00
```

```
Current State: Active
```

```
Number of iterations: 43
```

```
Number of VD completed: 0
```

```
Excluded VDs          : None
```

```
Exit Code: 0x00
```

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

```
$ sudo megacli -AdpCcSched -Info -aALL
```

```
Adapter #0
```

```
Operation Mode: Concurrent
```

```
Execution Delay: 168
```

```
Next start time: 02/20/2016, 03:00:00
```

```
Current State: Active
```

```
Number of iterations: 43
```

```
Number of VD completed: 0
```

```
Excluded VDs          : None
```

```
Exit Code: 0x00
```

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

```
$ sudo megacli -AdpCcSched -Info -aALL
```

```
Adapter #0
```

```
Operation Mode: Concurrent
```

```
Execution Delay: 168
```

```
Next start time: 02/20/2016, 03:00:00
```

```
Current State: Active
```

```
Number of iterations: 43
```

```
Number of VD completed: 0
```

```
Excluded VDs          : None
```

```
Exit Code: 0x00
```

## **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。