

TechNote na utilização alta do desempenho do disco

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Introdução

Este documento descreve um procedimento quando você experimenta a utilização 100% de alcance do desempenho do disco e a necessidade verificar se seja uma edição do aplicativo ou um problema de hardware, você é exigido para executar diversos comandos analisar a situação.

Pré-requisitos

Requisitos

Não existem requisitos específicos para este documento.

Componentes Utilizados

As informações neste documento são baseadas nestas versões de software e hardware:

- Série do Cisco Unified Computing System (UCS)
- Server de Hewlett-Packard (HP)

As informações neste documento foram criadas a partir de dispositivos em um ambiente de laboratório específico. Todos os dispositivos utilizados neste documento foram iniciados com uma configuração (padrão) inicial. Se a sua rede estiver ativa, certifique-se de que entende o impacto potencial de qualquer comando.

Problema: Utilização alta do desempenho do disco

O sistema trabalha lento e não é estável. Você experimenta a utilização 100% de alcance do desempenho do disco.

Troubleshooting

O rápido e a maneira fácil são alcançar a interface da WEB do Gerenciamento e examinar o status de hardware do armazenamento.

Quando não há nenhum acesso ao Gerenciamento remoto do controlador do gerenciamento integrado de Cisco (CIMC) para a série do sistema de Unified Computing (UCS) ou as luzes-Para fora integradas (ILO) em server HP, você pode obter a informação sobre o RAID e os discos usando este método:

Para server do Cisco Unified Computing System (UCS):

As distribuições de Debian usam um pacote nomeado "megacli".

Mais informação sobre esta ferramenta - <http://hwraid.le-vert.net/wiki/LSIMegaRAIDSAS>

Exemplos como usar o comando - <http://www.mostlychris.com/blog/2009/07/29/check-raid-status-with-megacli/>

O pacote para debian pode [ser transferido](#) e instalado.

Nota: É testada com megacli_8.07.14-1_amd64.deb

A fim verificar que controladores do hardware são usados, execute o comando: **lspci do sudo - vv | grep - i RAID**

por exemplo.

Controlador do barramento de 82:00.0 RAID: [Thunderbolt] de **MegaRAID SAS 2208** da lógica LSI/lógica de Symbios (rev 05)

Driver de núcleo no uso: megaraid_sas

mais informação sobre este comando pode ser encontrada em:

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

Executando a como a raiz, execute o comando: **sudo /usr/bin/megacli**

Série do Cisco Unified Computing System (UCS)

Etapa 1. Encontre seus detalhes do controlador RAID, execute o comando: **lspci - vv | grep - i RAID**.

O controlador RAID é um dispositivo.

```
$ 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- TransPend-
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- CmplttAbrt- UnxCmpltt- RxOF- MalfTLP- ECRC- UnsupReq-
ACSViol-
UEmsk: DLP- SDES- TLP- FCP- CmplttO- CmplttAbrt- UnxCmpltt- RxOF- MalfTLP- ECRC- UnsupReq+
ACSViol-
UESvrt: DLP+ SDES+ TLP- FCP+ CmplttO- CmplttAbrt- UnxCmpltt- 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

```

Etapa 2. Verificando o exame e a unidade virtual da série do sistema de Unified Computing (UCS), execute o comando: `megacli do sudo -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: 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
```

Você precisa de verificar abaixo o valor - Política atual do esconderijo

WriteBack - APROVAÇÃO

WriteThrough - RUIM

Este é um exemplo para o mesmos:

```
$ 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$
```

Etapa 3. A verificação da bateria, executa o comando: megacli do sudo - AdpBbuCmd - GetBbuStatus - aALL - NoLog.

```
$ 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
```

Etapa 4. A informação do disco físico, executa o comando: megacli do sudo - 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       : 33Battery
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
000000000000000005    000000000000000006    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

```

Etapa 5. A verificação consistente, executa o comando: megacli do sudo - 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

```

Etapa 6. As configurações de intervalo da verificação consistente, executam o comando: megacli do sudo - AdpCcSched - Informação - aALL.

O controlador RAID executa uma verificação consistente do RAID os dias cada 7. O atraso 168 do valor mostrado dentro está aqui nas horas.

```

$ 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

```

Etapa 7. Obtenha o log de eventos RAID, execute o comando: megacli do sudo - AdpEventLog - GetEvents - f events.log - gato events.log do && do aALL | mais.

```

$ 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>

```

Edições como visto na interface da WEB do gerenciamento integrado de Cisco que olha o controlador do armazenamento:

Verificação da bateria

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

Você pode salvar o log para a análise posterior.

Cisco Integrated Management Controller

Overall Server Status: **Moderate Fault**

Utilities

Actions

- Export Technical Support Data to Remote Server
- Download Technical Support Data to Local File**
- Export Cisco IMC Configuration
- Import Cisco IMC Configuration
- Reset Cisco IMC to Factory Default Configuration
- Reboot Cisco IMC
- Generate NMI to Host

Last Technical Support Data Export

Status: **Completed (100%)**

Cisco IMC Configuration Import/Export

Action: **N/A**
Status: **N/A**
Diagnostic Message: **NONE**

Select location for download by 127.0.0.1

Save in: Downloads

Name	Date modified	Type
C240-FCH1902V2HC-20160223-184634.tar.gz	2/23/2016 6:47 PM	GZ File
FirefoxSetup	9/16/2015 12:03 AM	Applicatic
flashplayer20_ga_install	1/27/2016 12:11 AM	Applicatic
megacli_8.07.14-1_amd64.deb	2/22/2016 9:40 PM	DEB File
platform_event.csv	2/23/2016 3:41 PM	CSV File
VMware-viclient	10/1/2015 9:21 PM	Applicatic
WindowsActivationUpdate	11/2/2015 1:37 PM	Applicatic
winscp576setup	2/4/2016 2:49 AM	Applicatic

File name: C240-FCH1902V2HC-20160223-2031491a

Save as type: All Files (*.*)

Warning: This file may be an executable program or contain malicious content, use caution before saving or opening.

Hardware de Hewlett-Packard (HP)

Para o HP há um pacote especial para Debian que necessitates de ser instalado a fim aceder ao controlador e aos discos físicos RAID. O pacote é nomeado [hpacucli_9.40.1-1_amd64.deb](http://downloads.linux.hpe.com/SDR/repo/mcp/debian/pool/non-free/hpacucli_9.40.1-1_amd64.deb)

Etapa 1. A instalação:

- Entre a seu sistema Linux com sua conta privada.
- Transfira o pacote a seu sistema

Linux: wget http://downloads.linux.hpe.com/SDR/repo/mcp/debian/pool/non-free/hpacucli_9.40.1-1_amd64.deb

- execute o comando: `dpkg --get-selections | sed -i s/mim/hpacucli_9.40.1-1_amd64.deb`

Quando a instalação é terminada, você pode trabalhar com a manipulação RAID usando a seguinte ferramenta CLI: `hpacucli`

A ferramenta reserva buscar a informação apropriada do controlador RAID assim como mudar a configuração com os componentes RAID.

Etapa 2. Os detalhes da configuração de controle do indicador, executam o comando: `o hpacucli CTRL todo mostra o detalhe da configuração.`

```
# 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
```

Etapa 3. Mostre o status de controle, execute o comando: `o hpacucli CTRL todo mostra o estado.`

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

Etapa 4. O estado do show physical, executa o comando: `o paládio todo do hpacucli CTRL`

slot=0 mostra o estado.

```
# 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
```

Etapa 5. Mostre o estado lógico, execute o comando: **o hpacucli CTRL slot=0 ld todo mostra o estado.**

```
# 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
```

Solução

Às vezes uma bateria ruim em um dos server pode ser a razão para ela. Você deve substituí-la.

Isto resolve o problema e reduz a utilização alta do desempenho do disco.