LSI ✳ SCS Package Release: Internal Web Posting Package

ReleaseOrderPkg ID: SCGCQ00477717 Open In CQWeb Download
Headline: SAS3 C0 Phase 2 - GCA SW Package
Package_Type: Internal Web Posting Package
Package_Version: 1.0
Date Generated: Aug 14, 2013

- SCGCQ00474477 - GCA Release: SAS3FW_C0_GCA_Phase2.0 - 02.00.00.00 Firmware IT/IR Release
- SCGCQ00473048 - SAS3IRCU_Phase2: Release of version 03.00.00.00
- SCGCQ00473020 - SAS3FLASH_Phase2: Release of version 03.00.00.00
- SCGCQ00468972 - GCA FreeBSD SAS3 C0 Phase2.0 driver v03.00.00.00
- SCGCQ00468393 - UEFI BSD HII SAS3 C0 Phase2.0 GCA release - 03.00.00.00
- SCGCQ00468390 - GCA Release: BIOS_MPT_GEN3_C0_Phase2.0 - 8.05.00.00
- SCGCQ00468083 - Linux mpt3sas Ph2 GCA release v3.00.00.00-1
- SCGCQ00461957 - GCA: LSI_SAS3 v2.50.70.00 Phase 2 Windows Driver
- SCGCQ00179278 - SAS2 NVDATA Parser Tool Version 09.00.00.00

GCA Release (SCGCQ00474477) - Firmware - 02.00.00.00   ^

ReleaseOrderID: SCGCQ00474477 Open In CQWeb Download
Headline: GCA Release: SAS3FW_C0_GCA_Phase2.0 - 02.00.00.00 Firmware IT/IR Release
Release Version: 02.00.00.00
Product Org: SCS
Product Gen: SAS3
Product Family: SAS3_Controller_FW
UCM Project: SAS3FW_C0_GCA_Phase2.0
Release Type: GCA
UCM Stream: SAS3FW_C0_GCA_Phase2.0_Rel
Owner: buildsvc
Release Baseline: SAS3FW_C0_GCA_Phase2.0-2013-08-05-02.00.00.00_REL_1375722240@\SAS_CTRL_FW
Release Date / Time: 06-AUG-13
Release Type: GCA

GCA Release (SCGCQ00473048) - SAS3IRCU - 03.00.00.00   ^

ReleaseOrderID: SCGCQ00473048 Open In CQWeb Download
Headline: SAS3IRCU_Phase2: Release of version 03.00.00.00
Release Version: 03.00.00.00
Product Org: SCS
Product Gen: SAS3
Product Family: SAS3_Applications
UCM Project: IRCU_MPT_GEN3_C0_Phase2.0
Release Type: GCA
UCM Stream: IRCU_MPT_GEN3_C0_Phase2.0_Rel
Owner: rswarank
Release Baseline: IRCU_MPT_GEN3_C0_Phase2.0_Rel_2013-08-01@\SAS2
Release Date / Time: 01-AUG-13
Release Type: GCA

GCA Release (SCGCQ00473020) - SAS3FLASH - 03.00.00.00   ^

ReleaseOrderID: SCGCQ00473020 Open In CQWeb Download
Headline: SAS3FLASH_Phase2: Release of version 03.00.00.00
Release Version: 03.00.00.00
Product Org: SCS
Product Gen: SAS3
Product Family: SAS3_Applications
UCM Project: FLASH_MPT_GEN3_C0_Phase2.0
Release Type: GCA
UCM Stream: FLASH_MPT_GEN3_C0_Phase2.0_Rel
Owner: suparnas
Release Baseline: FLASH_MPT_GEN3_C0_Phase2.0_Rel_2013-08-01@\SAS2
Release Date / Time: 01-AUG-13
Release Type: GCA

GCA Release (SCGCQ00468972) - Free BSD Driver - 03.00.00.00   ^

ReleaseOrderID: SCGCQ00468972 Open In CQWeb Download
Headline: GCA FreeBSD SAS3 C0 Phase2.0 driver v03.00.00.00
Release Version: 03.00.00.00
Product Org: SCS
Product Gen: SAS3
Product Family: SAS3_Drivers
UCM Project: FreeBSD_MPT_GEN3_C0_Phase2.0
Release Type: GCA
UCM Stream: FreeBSD_MPT_GEN3_C0_Phase2.0_Dev
Owner: smcconnell
Release Baseline: FreeBSD_MPT_GEN3_C0_Phase2.0_v03.00.00.00_7_19_2013@\SAS2
Release Date / Time: 19-JUL-13
Release Type: GCA

Free BSD Driver Defects Fixed (2):

Defect ID: SCGCQ00457354
Headline: Sync Gen2 and Gen3 code for defect SCGCQ00457352
Description Of Change: Decrement the SSU_refcount before the cm_reply == NULL check because there could possibly be a reply frame if the command had an error for some reason. But, it doesn't matter if there is a reply frame or not. Just decrement the SSU_refcount when the SSU SCSI reply comes back, which will allow a reboot or poweroff to take place as soon as the reply comes back from the IOC.
Issue Description: The SCGCQ00457352 defect is to fix a problem in the Gen2 driver regarding SSU commands timing out to SATA devices, which causes a delay in a reboot or poweroff. This problem is not in the Gen3 driver because the code was done differently. However, the fix for that defect in Gen2 is better than the current code in Gen3. The reason is that an SSU SCSI reply will only be processed in the Gen3 driver if the command is successful. If the command fails for some reason, the SCSI Error Descriptor will not count towards an SSU reply, hence there will still be a timeout problem in that case. To fix this, check for SSU replies even if there is a reply frame describing an error. The error can be ignored, but there will not be a delay in a reboot or power down.
Steps To Reproduce: N/A

Defect ID:	SCGCQ00457318
Headline:	FreeBSD: I/O's during Diag Reset intervals depletes command queue
Description Of Change:	In the action_scsiio function, if a Diag Reset is in progress, the command is aborted after it has been allocated, but the command is not freed before it is aborted. So, added the free of the command in case a Diag Reset is in progress.
	Also, separately, the io_cmds_active value needs to be decremented in the complete_all_commands function, otherwise it will be incorrect after a Diag Reset.
Issue Description:	When Diag Resets are issued during I/O's, the command queue will eventually become empty so that no more commands can be sent to the IOC.
Steps To Reproduce:	1) Connect some drives to a Gen3 HBA

2) Create a filesystem on each drive by (for example)
   a) newfs /dev/da0
   b) mkdir /da0
   c) mount /dev/da0 /da0
3) Start I/O's to the drives by (for example): fileop -s 100K -f 13 -l 30 -u 100 -t 112 &
4) Issue Diag Reset every 30 or 60 seconds
5) after several hours, errors will begin to be displayed showing that commands are failing.

GCA Release (SCGCQ00468393) - UEFI BSD - 03.00.00.00   ^

ReleaseOrderID:	SCGCQ00468393 Open In CQWeb Download
Headline:	UEFI BSD HII SAS3 C0 Phase2.0 GCA release - 03.00.00.00
Release Version:	03.00.00.00
Product Org:	SCS
Product Gen:	SAS3
Product Family:	SAS3_BIOS
UCM Project:	UEFIBSDHII_MPT_GEN3_C0_Phase2.0
Release Type:	GCA
UCM Stream:	UEFIBSDHII_MPT_GEN3_C0_Phase2.0_Rel
Owner:	mchikkan
Release Baseline:	UEFIBSDHII_MPT_GEN3_C0_Phase2.0_Rel_2013-07-23@\SAS2
Release Date / Time:	24-JUL-13
Release Type:	GCA

GCA Release (SCGCQ00468390) - BIOS - 8.05.00.00   ^

ReleaseOrderID:	SCGCQ00468390 Open In CQWeb Download
Headline:	GCA Release: BIOS_MPT_GEN3_C0_Phase2.0 - 8.05.00.00
Release Version:	8.05.00.00
Product Org:	SCS
Product Gen:	SAS3
Product Family:	SAS3_BIOS
UCM Project:	BIOS_MPT_GEN3_C0_Phase2.0
Release Type:	GCA
UCM Stream:	BIOS_MPT_GEN3_C0_Phase2.0_Main_Dev
Owner:	buildsvc
Release Baseline:	BIOS_MPT_GEN3_C0_Phase2.0-2013-07-18-8.05.00.00_REL_1374148162@\SAS2
Release Date / Time:	19-JUL-13
Release Type:	GCA

GCA Release (SCGCQ00468083) - Linux Driver - RHEL5-6_SLES10-11 - 3.00.00.00-1   ^

ReleaseOrderID:	SCGCQ00468083 Open In CQWeb Download
Headline:	Linux mpt3sas Ph2 GCA release v3.00.00.00-1
Release Version:	3.00.00.00-1
Product Org:	SCS
Product Gen:	SAS3
Product Family:	SAS3_Drivers
UCM Project:	LINUX_RH_SL_OEL_CTX_MPT_GEN3_C0_Phase2.0
Release Type:	GCA
UCM Stream:	LINUX_RH_SL_OEL_CTX_MPT_GEN3_C0_Phase2.0_Dev
Owner:	skagathi
Release Baseline:	LINUX_RH_SL_OEL_CTX_MPT_GEN3_C0_Phase2.0_Dev_2013-07-18@\SAS2
Release Date / Time:	18-JUL-13
Release Type:	GCA

GCA Release (SCGCQ00461957) - Windows Driver - 2.50.70.00   ^

ReleaseOrderID:	SCGCQ00461957 Open In CQWeb Download
Headline:	GCA: LSI_SAS3 v2.50.70.00 Phase 2 Windows Driver
Release Version:	2.50.70.00
Product Org:	SCS
Product Gen:	SAS3
Product Family:	SAS3_Drivers
UCM Project:	WINDOWS_MPT_GEN3_C0_Phase2.0
Release Type:	GCA
UCM Stream:	WINDOWS_MPT_GEN3_C0_Phase2.0_MainDev
Owner:	ssamant
Release Baseline:	WINDOWS_MPT_GEN3_C0_Phase2.0_Int_v2507000_2013-07-02@\SAS2
Release Date / Time:	07-AUG-13
Release Type:	GCA

Alpha Release (SCGCQ00179278) - SAS2PARSER - 09.00.00.00   ^

ReleaseOrderID:	SCGCQ00179278 Open In CQWeb Download
Headline:	SAS2 NVDATA Parser Tool Version 09.00.00.00
Release Version:	09.00.00.00
Product Org:	SCS
Product Gen:	SAS2
Product Family:	SAS2_Applications
UCM Project:	SAS2PARSER
Release Type:	Alpha
UCM Stream:	SAS2PARSER_Rel
Owner:	sbakthav
Release Baseline:	SAS2PARSER_2_18_2011_v9.00.00.00_REL@\SAS2
Release Date / Time:	18-FEB-11
Release Type:	Alpha