

ReleaseOrder ID:	SCGCQ01038796
Headline:	FreeBSD IT/IR: Phase 12 GCA release for v13.00.00
Release Version:	13.00.00.00
UCM Project:	FREEBSD_MPT_GEN3_PHASE12.0
UCM Stream:	FREEBSD_MPT_GEN3_PHASE12.0_Rel
Release Type:	GCA
State:	Deployed
Release Baseline:	FREEBSD_MPT_GEN3_PHASE12.0_Rel_2016-03-01_v13.00.00.00@ \\SAS2
Release Date:	01-APR-16
Date Generated:	Apr 15, 2016

Release History

- SCGCQ01019169 - FreeBSD IT/IR: Phase 12 Alpha release for v12.255
- SCGCQ01015956 - FreeBSD IT/IR: Phase 12 Alpha release for v12.255
- SCGCQ01013225 - FreeBSD IT/IR: Phase 12 Alpha release for v12.255

ReleaseOrder ID:	SCGCQ01019169 Open In CQWeb
Headline:	FreeBSD IT/IR: Phase 12 Alpha release for v12.255
Release Version:	12.255.03.00
UCM Project:	FREEBSD_MPT_GEN3_PHASE12.0
UCM Stream:	FREEBSD_MPT_GEN3_PHASE12.0_Rel
Release Type:	Beta
State:	Superseded
Release Baseline:	FREEBSD_MPT_GEN3_PHASE12.0_Rel_v12.255.03.00_2016-01-27@ \\SAS2
Release Date:	16-FEB-16
Date Generated:	Apr 15, 2016

ReleaseOrder ID:	SCGCQ01015956 Open In CQWeb
Headline:	FreeBSD IT/IR: Phase 12 Alpha release for v12.255
Release Version:	12.255.02.00
UCM Project:	FREEBSD_MPT_GEN3_PHASE12.0
UCM Stream:	FREEBSD_MPT_GEN3_PHASE12.0_Rel
Release Type:	Alpha
State:	Superseded
Release Baseline:	FREEBSD_MPT_GEN3_PHASE12.0_Rel_v12.255.02.00_2016-01-21@ \\SAS2
Release Date:	16-FEB-16
Date Generated:	Apr 15, 2016

Defects Fixed (2):

ID:	SCGCQ01015381
Headline:	FreeBSD IT/IR: chains are depleted during I/O
Description Of Change:	Changed driver to not compare IOCFacts.MaxChainDepth to the driver's max_chains value. MaxChainDepth is per I/O and max_chains is per adapter, so don't reduce max_chains to MaxChainDepth value.
Issue Description:	When running I/O to several disks, chains are depleted so I/O's are paused until a chain is freed from use.
Steps To Reproduce:	Run I/O to several disks using 'fileops' command from IOZONE package. After a while, these messages will be displayed on console: Jan 19 15:23:28 SLM10 kernel: mpr0: Out of chain frames, consider increasing hw.mpr.max_chains. Jan 19 15:23:28 SLM10 kernel: mpr0: Error sending command, freezing SIM queue Also, when issuing this command: sysctl -a grep mpr, chain_free_lowwater is 0, meaning that chains have been depleted at some point.

ID:	SCGCQ01015957
Headline:	Add compiler conditional to allow FreeBSD 9.x drivers to compile without error
Description Of Change:	Compile the newer version of the callout_reset function only if the FreeBSD version is greater than or equal to 1100048. Otherwise compile the older version of the function.
Issue Description:	The FreeBSD 9.x drivers won't compile after merging the mpr upstream driver with the Avago driver due to a change that was made in the 10.x version of the driver. To fix this, use a compiler conditional so that older versions of the OS (9.x) will compile the driver.
Steps To Reproduce:	Try to compile the driver in version 9.x of FreeBSD. The callout_reset_sbt function is not defined yet. It is defined starting in FreeBSD 10.x.

Enhancements Implemented (1):

ID:	SCGCQ01014901
Headline:	Change SAS3 FreeBSD driver to use same names as community driver
Description Of Change:	Merged the FreeBSD mpr upstream driver with the current Phase 12 Avago FreeBSD mpсли3 Gen3 driver. All function names, variable name, and the driver name will use 'mpr' instead of 'mps'.

ReleaseOrder ID:	SCGCQ01013225 Open In CQWeb
Headline:	FreeBSD IT/IR: Phase 12 Alpha release for v12.255
Release Version:	12.255.01.00
UCM Project:	FREEBSD_MPT_GEN3_PHASE12.0
UCM Stream:	FREEBSD_MPT_GEN3_PHASE12.0_Rel
Release Type:	Alpha
State:	Superseded
Release Baseline:	FREEBSD_MPT_GEN3_PHASE12.0_Rel_v12.255.01.00_2016-01-18@ \\SAS2
Release Date:	01-MAR-16
Date Generated:	Apr 15, 2016

Enhancements Implemented (2):

ID:	SCGCQ01010363
Headline:	FreeBSD SAS3 Phase12: Updated the mpi headers to v2.00.39.
Description Of Change:	Updated the mpi headers to v2.00.39.

ID: SCGCQ01010410

Headline: FreeBSD SAS3 Phase12: Handle new Active Cable Exception Event

Description Of Change: In-Order to handle MPI2_EVENT_ACTIVE_CABLE_EXCEPTION' event, driver has done below changes,

- * Unmask the 'MPI2_EVENT_ACTIVE_CABLE_EXCEPTION' event, so that FW can notify this event to host driver.
 - * After receiving this event, add this event to AEN event queue, for notifying this event to applications,
 - * Then Print below message in kernel logs, if the event data's reason code is zero,
"Currently an active cable with ReceptacleID X cannot be powered and devices connected to this active cable will not be seen. This active cable requires Y mW of power".
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