

ChangeLog. arcmsr. txt

** History

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REV#	DATE	NAME	DESCRIPTION
1.00.00.00	3/31/2004	Erich Chen	First release
1.10.00.04	7/28/2004	Erich Chen	modify for ioctl
1.10.00.06	8/28/2004	Erich Chen	modify for 2.6.x
1.10.00.08	9/28/2004	Erich Chen	modify for x86_64
1.10.00.10	10/10/2004	Erich Chen	bug fix for SMP & ioctl
1.20.00.00	11/29/2004	Erich Chen	bug fix with arcmsr_bus_reset
when PHY error			
1.20.00.02	12/09/2004	Erich Chen	bug fix with over 2T bytes RAID
Volume			
1.20.00.04	1/09/2005	Erich Chen	fits for Debian linux kernel
version 2.2.xx			
1.20.00.05	2/20/2005	Erich Chen	cleanly as look like a Linux
driver at 2.6.x			
			thanks for peoples kindness
comment			
			Kornel Wieliczek
			Christoph Hellwig
			Adrian Bunk
			Andrew Morton
			Christoph Hellwig
			James Bottomley
			Arjan van de Ven
1.20.00.06	3/12/2005	Erich Chen	fix with arcmsr_pci_unmap_dma
"unsigned long" cast,			
"dma_alloc_coherent"			modify PCCB POOL allocated by
			(Kornel Wieliczek's comment)
1.20.00.07	3/23/2005	Erich Chen	bug fix with
arcmsr_scsi_host_template_init			
			occur segmentation fault,
			if RAID adapter does not on PCI
slot			
			and modprobe/rmmod this driver
twice.			
			bug fix enormous stack usage
(Adrian Bunk's comment)			
1.20.00.08	6/23/2005	Erich Chen	bug fix with abort command,
			in case of heavy loading when
sata cable			
			working on low quality
connection			
1.20.00.09	9/12/2005	Erich Chen	bug fix with abort command
handling, firmware version check			
			and firmware update notify for
hardware bug fix			
1.20.00.10	9/23/2005	Erich Chen	enhance sysfs function for
change driver's max tag Q number.			
			add DMA_64BIT_MASK for backward
compatible with all 2.6.x			
			add some useful message for
abort command			
			add ioctl code

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' ARCMSR_IOCTL_FLUSH_ADAPTER_CACHE'

**		customer can send this command
for sync raid volume data		
** 1.20.00.11	9/29/2005	Erich Chen
fix incorrect msleep redefine		by comment of Arjan van de Ven
**		cast off sizeof(dma_addr_t)
condition for 64bit pci_set_dma_mask		
** 1.20.00.12	9/30/2005	Erich Chen
ccbs using if over 4G system memory		bug fix with 64bit platform's
**		change 64bit
pci_set_consistent_dma_mask into 32bit		
**		increcct adapter count if
adapter initialize fail.		
**		miss edit at
arcmsr_build_ccb....		
**		psge += sizeof(struct _SG64ENTRY
*) =>		
**		psge += sizeof(struct
_SG64ENTRY)		
**		64 bits sg entry would be
incorrectly calculated		
**		thanks Kornel Wieliczek give me
kindly notify		
**		and detail description
** 1.20.00.13	11/15/2005	Erich Chen
**		scheduling pending ccb with FIFO
arcmsr command queue list		change the architecture of
**		for linux standard list
**		enable usage of pci message
signal interrupt		
**		follow Randy.Danlup kindness
suggestion cleanup this code		
** 1.20.00.14	05/02/2007	Erich Chen & Nick Cheng
**		1.implement PCI-Express error
recovery function and AER capability		
**		2.implement the selection of
ARCMSR_MAX_XFER_SECTORS_B=4096		
**		if firmware version is newer
than 1.42		
**		3.modify arcmsr_iop_reset to
improve the ability		
**		4.modify the ISR,
arcmsr_interrupt routine,to prevent the		inconsistency with sg_mod driver
**		
if application directly calls		the arcmsr driver w/o passing
**		
through scsi mid layer		specially thanks to Yanmin
**		
Zhang's openhanded help about AER		
** 1.20.00.15	08/30/2007	Erich Chen & Nick Cheng
**		1. support ARC1200/1201/1202
SATA RAID adapter, which is named		
**		ACB_ADAPTER_TYPE_B
**		2. modify the
arcmsr_pci_slot_reset function		
**		3. modify the

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arcmsr_pci_ers_disconnect_forepart function
**                                     4. modify the
arcmsr_pci_ers_need_reset_forepart function
** 1.20.00.15    09/27/2007    Erich Chen & Nick Cheng
**                                     1. add arcmsr_enable_eoi_mode()
on adapter Type B
**                                     2. add
readl(reg->iop2drv_doorbell_reg) in arcmsr_handle_hbb_isr()
**                                     in case of the doorbell
interrupt clearance is cached
** 1.20.00.15    10/01/2007    Erich Chen & Nick Cheng
**                                     1. modify acb->devstate[i][j]
**                                     as ARECA_RAID_GOOD instead of
**                                     ARECA_RAID_GONE in
arcmsr_alloc_ccb_pool
** 1.20.00.15    11/06/2007    Erich Chen & Nick Cheng
**                                     1. add conditional declaration
for
**                                     arcmsr_pci_error_detected() and
**                                     arcmsr_pci_slot_reset
** 1.20.00.15    11/23/2007    Erich Chen & Nick Cheng
**                                     1. check if the sg list member
number
**                                     exceeds arcmsr default limit in
arcmsr_build_ccb()
**                                     2. change the returned value type
of arcmsr_build_ccb()
**                                     from "void" to "int"
**                                     3. add the conditional check if
arcmsr_build_ccb()
**                                     returns FAILED
** 1.20.00.15    12/04/2007    Erich Chen & Nick Cheng
**                                     1. modify
arcmsr_drain_donequeue() to ignore unknown
**                                     command and let kernel process
command timeout.
**                                     This could handle IO request
violating max. segments
**                                     while Linux XFS over DM-CRYPT.
**                                     Thanks to Milan Broz's comments
<mbroz@redhat.com>
** 1.20.00.15    12/24/2007    Erich Chen & Nick Cheng
**                                     1. fix the portability problems
**                                     2. fix type B where we should
_not_ iounmap() acb->pmu;
**                                     it's not ioremapped.
**                                     3. add return -ENOMEM if
ioremap() fails
**                                     4. transfer IS_SG64_ADDR w/
cpu_to_le32()
**                                     in arcmsr_build_ccb
**                                     5. modify acb->devstate[i][j] as
ARECA_RAID_GONE instead of
**                                     ARECA_RAID_GOOD in
arcmsr_alloc_ccb_pool()
**                                     6. fix arcmsr_cdb->Context as

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```
(unsigned long)arcmsr_cdb
**
**
ARCMSR_MU_OUTBOUND_HANDLE_INT) == 0
**
**
pci_alloc_consistent()/pci_free_consistent() with kmalloc()/kfree() in
arcmsr_iop_message_xfer()
**
for type B in arcmsr_free_ccb_pool()
**
arcmsr_polling_hbb_ccbdone()
** 1.20.00.15 02/27/2008 Erich Chen & Nick Cheng
**
called from atomic context under the
**
handler. James Bottomley pointed out
**
GFP_KERNEL|GFP_DMA flags are wrong: firstly we are in
**
memory is not used for DMA.
**
casts. Thanks to Daniel Drake <dsd@gentoo.org>
*****
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