

(1/2)

	0	1	2	3	4	5	6	7
40	Causal Key code							
41	Causal Format/Message							
42	Causal Module ID							
43	Causal Routine ID							
44	VDEV and slot number							
45								
46								
47								
48	Slot status							
49								
4A								
4B								
4C	Staging bit map/dirty bit map							
4D								
4E								
4F								
50	Current subblock number							
51	EXIT flag (Note 1)							
52	Slot failure information (Note 2)							
53	Obtained information flag (Note 3)							
54	Head subblock number for HIT/MISS decision							
55	Remain subblock count							
56	Not used							
7F								

(Note 1) EXIT flag

- ```

x'08' : CHL I/F CHK2 timeover
x'0D' : EOP
x'0E' : DSB=0E requested
x'0F' : Logical error
x'1E' : Make sense only
x'1F' : Logical error (make sense only)
x'30' : Selective reset requested
x'40' : 'Staging' requested
x'41' : 'Waiting free segment' requested
x'42' : 'Timeover of waiting for staging' requested
x'43' : 'Staging for PA unmatched' requested
x'45' : 'Destaging' requested
x'46' : 'High priority destaging' requested
x'47' : 'Pseud-through process' requested
x'4B' : 'DSB = 4E retry' requested (data transfer)
x'4E' : 'DSB = 4E retry' requested (DSB = 4E retry)
x'4F' : STG requested (Read or STG in progress)

```

(Note 2) Slot failure information

- x'80' : Sector write error  
x'40' : Sector read error  
x'20' : ECC/LRC error  
x'10' : Incomplete data  
x'08' : No decision

## Byte27=89 (Host Adaptor CHK2) Byte40-7F Detail

(3) Subcode (byte28) = 01/02

(2/2)

(Note 3) Obtained information flag

bit0-1 : Block type  
00 : Data block  
01 : HA/R0 block  
10 : Bit map block  
bit2-3 : Side  
00 : Cache write side  
01 : NVS write side  
10 : Cache read side  
bit4 : Segment  
0 : No segment  
1 : Segment exist  
bit5-7 : Reserved

Byte27=89, Byte10 Bit6=1 (SCSI Interface CHA CHK2)

|    | 0                                        | 1          | 2        | 3        | 4             | 5        | 6 | 7         |
|----|------------------------------------------|------------|----------|----------|---------------|----------|---|-----------|
| 00 | Time stamp                               |            |          |          |               |          |   |           |
| 05 |                                          |            |          |          |               |          |   |           |
| 06 | Log type                                 |            |          |          |               |          |   |           |
| 07 |                                          |            |          |          |               |          |   |           |
| 08 | Failure classification                   |            |          |          |               |          |   |           |
| 09 |                                          |            |          |          |               |          |   |           |
| 0A | System error code                        |            |          |          |               |          |   |           |
| 0B |                                          |            |          |          |               |          |   |           |
| 0C | JCB ID                                   |            |          |          |               |          |   |           |
| 0D |                                          |            |          |          |               |          |   |           |
| 0E | REQ ID                                   |            |          |          |               |          |   |           |
| 0F | 24CMPAT                                  | ECKD32     | HOST RSP | SVP RSP  | Processor ID  |          |   |           |
| 10 | LDEV#VLD                                 | PDEV#VLD   | SSB#VLD  | LOG#VLD  | SIM#VLD       | RSSB#VLD | 1 | Force log |
| 11 | VDEV number                              |            |          |          |               |          |   |           |
| 12 |                                          |            |          |          |               |          |   |           |
| 13 | CDEV number                              |            |          |          | RDEV number   |          |   |           |
| 14 | LDEV type                                |            |          |          |               |          |   |           |
| 15 | PDEV tyoe                                |            |          |          |               |          |   |           |
| 16 | SSB log number                           |            |          |          |               |          |   |           |
| 17 |                                          |            |          |          |               |          |   |           |
| 18 | Related failure log number               |            |          |          |               |          |   |           |
| 19 |                                          |            |          |          |               |          |   |           |
| 1A | Related SIM log number                   |            |          |          |               |          |   |           |
| 1B |                                          |            |          |          |               |          |   |           |
| 1C | Related SSB log number                   |            |          |          |               |          |   |           |
| 1D |                                          |            |          |          |               |          |   |           |
| 1E | (Reserved)                               |            |          |          |               |          |   |           |
| 1F | SCB                                      |            |          |          |               |          |   |           |
| 20 | Inf valid                                | Error code |          |          |               |          |   |           |
| 21 | Segment number                           |            |          |          |               |          |   |           |
| 22 | Filemark                                 | ECM        | ILI      | Reserved | Sense key     |          |   |           |
| 23 | Information bytes                        |            |          |          |               |          |   |           |
| 26 |                                          |            |          |          |               |          |   |           |
| 27 | Format(x'8')                             |            |          |          | message(x'9') |          |   |           |
| 28 | Subcode1(See followed pages)             |            |          |          |               |          |   |           |
| 29 | Hardware information(See followed pages) |            |          |          |               |          |   |           |
| 31 |                                          |            |          |          |               |          |   |           |
| 32 | Reserved                                 |            |          |          |               |          |   |           |
| 33 |                                          |            |          |          |               |          |   |           |
| 34 | Module ID 1                              |            |          |          |               |          |   |           |
| 35 | Routine ID 1                             |            |          |          |               |          |   |           |
| 36 | Module ID 2                              |            |          |          |               |          |   |           |
| 37 | Routine ID 2                             |            |          |          |               |          |   |           |
| 38 | SCP path number                          |            |          |          |               |          |   |           |
| 39 | SCSI initiator ID                        |            |          |          |               |          |   |           |
| 3A | SCSI target ID                           |            |          |          |               |          |   |           |
| 3B | Logical unit number                      |            |          |          |               |          |   |           |
| 3C | SCSI command code                        |            |          |          |               |          |   |           |
| 3D | Processor number                         |            |          |          |               |          |   |           |
| 3E | LDEV number                              |            |          |          |               |          |   |           |
| 3F |                                          |            |          |          |               |          |   |           |
| 40 | Hardware information(See followed pages) |            |          |          |               |          |   |           |
| 7F |                                          |            |          |          |               |          |   |           |

\*:This information is not fixed until DKC reports Sense data to HOST.

## Byte27=89 ,Byte10 Bit6=1 (SCSI Interface CHA CHK2) Byte28-31 Detail

## (1) Byte28=88

|    | 0                                      | 1        | 2        | 3        | 4        | 5        | 6        | 7        |
|----|----------------------------------------|----------|----------|----------|----------|----------|----------|----------|
| 28 | Subcode: x'88':CHS data transfer error |          |          |          |          |          |          |          |
| 29 |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 2A |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 2B |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 2C |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 2D |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 2E |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 2F |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 30 |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |
| 31 |                                        |          |          |          |          |          |          |          |
|    | Not used                               | Not used | Not used | Not used | Not used | Not used | Not used | Not used |



## Byte27=89 ,Byte10 Bit6=1 (SCSI Interface CHA CHK2) Byte28-31 Detail

## (2) Byte28=89

|    | 0                                 | 1                               | 2                                    | 3                          | 4                               | 5                            | 6                                   | 7                                 |
|----|-----------------------------------|---------------------------------|--------------------------------------|----------------------------|---------------------------------|------------------------------|-------------------------------------|-----------------------------------|
| 28 | Subcode: x'89':BSA0-1 CHK2D error |                                 |                                      |                            |                                 |                              |                                     |                                   |
| 29 | Not used                          | Not used                        | Not used                             | Not used                   | Not used                        | Not used                     | Not used                            | Not used                          |
| 2A | BSA XRBS009(b24-b31)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | Requester Sequencer Parity error  | Receive Grant Code Parity error | Req Inside Path Arbiter Parity error | Requester Protocol error   | Arbiter Count Over              | Arbiter Counter Parity error | Read / Write Sequencer parity error | Transfer Path Decode Parity error |
| 2B | BSA XRBS009(b16-b23)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | Arbiter Sequencer Parity error    | LIVE INS Counter Parity error   | Arbiter Time Over                    | Arbiter Timer Parity error | Arb Grant Code Gen Parity error | Not used                     | Not used                            | Not used                          |
| 2C | BSA XRBS00A(b16-b23)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | F bus open 0                      | F bus open 1                    | F bus open 2                         | F bus open 0,1             | F bus open 1,2                  | F bus open 0,2               | Not used                            | Not used                          |
| 2D | BSA XRBS00B(b16-b23)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | LIVE INS 0                        | LIVE INS 1                      | LIVE INS 2                           | LIVE INS 0,1               | LIVE INS 1,2                    | LIVE INS 0,2                 | Not used                            | Not used                          |
| 2E | BSA XRBS109(b24-b31)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | Requester Sequencer Parity error  | Receive Grant Code Parity error | Req Inside Path Arbiter Parity error | Requester Protocol error   | Arbiter Count Over              | Arbiter Counter Parity error | Read / Write Sequencer parity error | Transfer Path Decode Parity error |
| 2F | BSA XRBS109(b16-b23)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | Arbiter Sequencer Parity error    | LIVE INS Counter Parity error   | Arbiter Time Over                    | Arbiter Timer Parity error | Arb Grant Code Gen Parity error | Not used                     | Not used                            | Not used                          |
| 30 | BSA XRBS10A(b16-b23)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | F bus open 0                      | F bus open 1                    | F bus open 2                         | F bus open 0,1             | F bus open 1,2                  | F bus open 0,2               | Not used                            | Not used                          |
| 31 | BSA XRBS10B(b16-b23)              |                                 |                                      |                            |                                 |                              |                                     |                                   |
|    | LIVE INS 0                        | LIVE INS 1                      | LIVE INS 2                           | LIVE INS 0,1               | LIVE INS 1,2                    | LIVE INS 0,2                 | Not used                            | Not used                          |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(1) Byte28=88, Byte42=10

|    |                                  |                       |                               |                       |                               |                    |            |              |
|----|----------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--------------------|------------|--------------|
|    | 0                                | 1                     | 2                             | 3                     | 4                             | 5                  | 6          | 7            |
| 40 | Error Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 41 | Error Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 42 | SubCode 2                        |                       |                               |                       |                               |                    |            |              |
|    | 0x10                             |                       |                               |                       |                               |                    |            |              |
| 43 | DMA path                         |                       |                               |                       |                               |                    |            |              |
|    | 0: CHP -CACHE<br>1: PCI-CACHE    |                       |                               |                       | SCP#                          |                    |            |              |
| 44 | SCP Function Code                |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Function Code |                       |                               |                       |                               |                    |            |              |
| 45 | Sense Key                        |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Key                   |                       |                               |                       |                               |                    |            |              |
| 46 | Sense Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code                  |                       |                               |                       |                               |                    |            |              |
| 47 | Sense Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code Qualifier        |                       |                               |                       |                               |                    |            |              |
| 48 | Script Execute Status (b00-b07)  |                       |                               |                       |                               |                    |            |              |
|    | Script Function Code             |                       |                               |                       |                               |                    |            |              |
| 49 | Script Execute Status (b08-b15)  |                       |                               |                       |                               |                    |            |              |
|    | Script execute step              |                       |                               |                       |                               |                    |            |              |
| 4A | Script Execute Status (b16-b23)  |                       |                               |                       |                               |                    |            |              |
|    | Execute end                      | Execute               | Script Abort                  | Interrupt             | SCSI ATN asserted             | MSG 33byte over    | Reselected | DMA transfer |
| 4B | Script Execute Status (b24-b31)  |                       |                               |                       |                               |                    |            |              |
|    | TAG MSG received                 | Extended MSG received | Illegal Identify MSG received | Identify MSG received | Bus Device Reset MSG received | Other MSG received | (reserved) | (reserved)   |
| 4C | I-T-L-X (b00-b07)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI TAG Number                  |                       |                               |                       |                               |                    |            |              |
| 4D | I-T-L-X (b08-b15)                |                       |                               |                       |                               |                    |            |              |
|    | Logical Unit Number              |                       |                               |                       |                               |                    |            |              |
| 4E | I-T-L-X (b16-b23)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Target ID                   |                       |                               |                       |                               |                    |            |              |
| 4F | I-T-L-X (b24-b31)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Initiator ID                |                       |                               |                       |                               |                    |            |              |

|    | 0                                    | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                   |
|----|--------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|-------------------------------------|
| 50 | SCP ISTAT :: Interrupt Status        |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | Abort Operation                      | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending               |
| 51 | SCP DSTAT :: DMA Status              |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA FIFO empty                       | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                 |
| 52 | SCP SIST0 :: SCSI Interrupt Status 0 |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | SCSI Phase Mismatch                  | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                   |
| 53 | SCP SIST1 :: SCSI Interrupt Status 1 |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | (Reserved)                           | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake time Expired |
| 54 | SCP DSP (b00-b07)                    |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                     |
| 55 | SCP DSP (b08-b15)                    |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                     |
| 56 | SCP DSP (b16-b23)                    |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                     |
| 57 | SCP DSP (b24-b31)                    |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                     |
| 58 | SCP DSPS (b00-b07)                   |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                     |
| 59 | SCP DSPS (b08-b15)                   |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                     |
| 5A | SCP DSPS (b16-b23)                   |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                     |
| 5B | SCP DSPS (b24-b31)                   |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                     |
| 5C | SCP STATUS                           |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | Detected Parity Error (from Slave)   | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported                |
| 5D | SCP DBC (b00-07)                     |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                     |
| 5E | SCP DBC (b08-b15)                    |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                     |
| 5F | SCP DBC (b16-b23)                    |                          |                                     |                                     |                          |                                        |                               |                                     |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                     |

|    | 0                                              | 1             | 2                                                     | 3              | 4             | 5              | 6                                                   | 7                   |
|----|------------------------------------------------|---------------|-------------------------------------------------------|----------------|---------------|----------------|-----------------------------------------------------|---------------------|
| 60 | MIC RCVINT(b00-b07)                            |               |                                                       |                |               |                |                                                     |                     |
|    | (Reserved)                                     |               |                                                       |                |               |                |                                                     |                     |
| 61 | MIC RCVINT(b08-b15)                            |               |                                                       |                |               |                |                                                     |                     |
|    | SYSRST<br>INT                                  | SELRST<br>INT | CHK1A<br>INT                                          | CHK1B<br>INT   | SMP INT       | LAN/SIO<br>INT | CHK2A<br>INT                                        | PCI INT             |
| 62 | MIC RCVINT(b16-b23)                            |               |                                                       |                |               |                |                                                     |                     |
|    | (Not used)                                     | CHK3 INT      | (Not used)                                            | SCA1 INT       | SCA2 INT      | SCA3 INT       | SCA4 INT                                            | SCA5 INT            |
| 63 | MIC RCVINT(b24-b31)                            |               |                                                       |                |               |                |                                                     |                     |
|    | TIMER0<br>INT                                  | TIMER0<br>INT | TIMER0<br>INT                                         | TIMER0<br>INT  | TIMER0<br>INT | TIMER0<br>INT  | TIMER0<br>INT                                       | SYNC<br>STOP INT    |
| 64 | PBA XRPBA03(b24-b31)                           |               |                                                       |                |               |                |                                                     |                     |
|    | (Not used)                                     | (Not used)    | (Not used)                                            | (Not used)     | SCP#3 INT     | SCP#2 INT      | SCP#1 INT                                           | SCP#0 INT           |
| 65 | PBA XRPBA00(b24-31)                            |               |                                                       |                |               |                |                                                     |                     |
|    | DEV SEL(0x00-0x03: SCP#, 0x044-0xFF: Not used) |               |                                                       |                |               |                |                                                     |                     |
| 66 | PBA XRPBA04(b16-b23)                           |               |                                                       |                |               |                |                                                     |                     |
|    | MEM ADR (MSB)                                  |               |                                                       |                |               |                |                                                     |                     |
| 67 | PBA XRPBA04(b24-b31)                           |               |                                                       |                |               |                |                                                     |                     |
|    | MEM ADR (LSB)                                  |               |                                                       |                |               |                |                                                     |                     |
| 68 | PBA XRPBA10(b00-b07)                           |               |                                                       |                |               |                |                                                     |                     |
|    | SERR0                                          | SERR1         | PERR0                                                 | PERR1          | PERR2         | PERR3          | MEM ADR<br>ERR                                      | MEM<br>WRDT<br>PERR |
| 69 | PBA XRPBA10(b08-b15)                           |               |                                                       |                |               |                |                                                     |                     |
|    | MEM<br>RDDT<br>ERR                             | BSERR0        | BSERR1                                                | BSA XR<br>PERR | BPERR0        | BPERR1         | BCTL ERR                                            | TIME OUT            |
| 6A | PBA XRPBA10(b16-b23)                           |               |                                                       |                |               |                |                                                     |                     |
|    | (Reserved)                                     |               |                                                       |                |               |                |                                                     |                     |
| 6B | PBA XRPBA10(b24-b31)                           |               |                                                       |                |               |                |                                                     |                     |
|    | (Reserved)                                     |               |                                                       |                |               |                |                                                     |                     |
| 6C | PBA XRPBA69(PCI0) (b00-07)                     |               |                                                       |                |               |                |                                                     |                     |
|    | 00: XFC INIT<br>01: XFC STOP<br>02: XFC START  |               | (Not used)                                            | (Not used)     | (Not used)    | (Not used)     | (Not used)                                          | (Not used)          |
| 6D | PBA XRPBA69(PCI0) (b08-b15)                    |               |                                                       |                |               |                |                                                     |                     |
|    | (Not used)                                     | (Not used)    | (Not used)                                            | (Not used)     | (Not used)    | (Not used)     | 00: PCI device<br>01: PCI device(SKIP)              |                     |
| 6E | PBA XRPBA69(PCI0) (b16-b23)                    |               |                                                       |                |               |                |                                                     |                     |
|    | (Not used)                                     | (Not used)    | Sub-Block format<br>00: not AS400<br>01: AS400 format |                | (Not used)    | (Not used)     | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |                     |
| 6F | PBA XRPBA69(PCI0) (b24-b31)                    |               |                                                       |                |               |                |                                                     |                     |
|    | DMA Sub-Block Counter                          |               |                                                       |                |               |                |                                                     |                     |

|    | 0                                             | 1              | 2                                                     | 3              | 4              | 5               | 6                                                   | 7          |
|----|-----------------------------------------------|----------------|-------------------------------------------------------|----------------|----------------|-----------------|-----------------------------------------------------|------------|
| 70 | PBA_XRPBA69(PCI1) (b00-b07)                   |                |                                                       |                |                |                 |                                                     |            |
|    | 00: XFC INIT<br>01: XFC STOP<br>02: XFC START |                | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 71 | PBA_XRPBA69(PCI1) (b08-b15)                   |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | 00: PCI device<br>01: PCI device(SKIP)              |            |
| 72 | PBA_XRPBA69(PCI1) (b16-b23)                   |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | Sub-Block format<br>00: not AS400<br>01: AS400 format |                | (Not used)     | (Not used)      | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |            |
| 73 | PBA_XRPBA69(PCI1) (b24-b31)                   |                |                                                       |                |                |                 |                                                     |            |
|    | DMA Sub-Block Counter                         |                |                                                       |                |                |                 |                                                     |            |
| 74 | PBA_XRPBA69(PCI2) (b00-b07)                   |                |                                                       |                |                |                 |                                                     |            |
|    | 00: XFC INIT<br>01: XFC STOP<br>02: XFC START |                | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 75 | PBA_XRPBA69(PCI2) (b08-b15)                   |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | 00: PCI device<br>01: PCI device(SKIP)              |            |
| 76 | PBA_XRPBA69(PCI2) (b16-b23)                   |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | Sub-Block format<br>00: not AS400<br>01: AS400 format |                | (Not used)     | (Not used)      | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |            |
| 77 | PBA_XRPBA69(PCI2) (b24-b31)                   |                |                                                       |                |                |                 |                                                     |            |
|    | DMA Sub-Block Counter                         |                |                                                       |                |                |                 |                                                     |            |
| 78 | PBA_XRPBA69(PCI3) (b00-b07)                   |                |                                                       |                |                |                 |                                                     |            |
|    | 00: XFC INIT<br>01: XFC STOP<br>02: XFC START |                | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 79 | PBA_XRPBA69(PCI3) (b08-b15)                   |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | 00: PCI device<br>01: PCI device(SKIP)              |            |
| 7A | PBA_XRPBA69(PCI3) (b16-b23)                   |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | Sub-Block format<br>00: not AS400<br>01: AS400 format |                | (Not used)     | (Not used)      | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |            |
| 7B | PBA_XRPBA69(PCI3) (b24-b31)                   |                |                                                       |                |                |                 |                                                     |            |
|    | DMA Sub-Block Counter                         |                |                                                       |                |                |                 |                                                     |            |
| 7C | PBA_XRPBA65 (b16-b23)                         |                |                                                       |                |                |                 |                                                     |            |
|    | TRFCNT (LSB)                                  |                |                                                       |                |                |                 | 0                                                   | 1          |
| 7D | PBA_XRPBA65 (b24-b31)                         |                |                                                       |                |                |                 |                                                     |            |
|    | 1                                             | BM             |                                                       |                | TM             |                 |                                                     |            |
| 7E | PBA_XRPBA6A(b00-b07)                          |                |                                                       |                |                |                 |                                                     |            |
|    | XFR END                                       | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 7F | PBA_XRPBA6A(b08-b15)                          |                |                                                       |                |                |                 |                                                     |            |
|    | PCI INT                                       | CHK2A<br>error | CHK2B<br>error                                        | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning                                   | (Not used) |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(2) Byte28=88, Byte42=11

2) Byte28-88, Byte42-11

|    |                                  |                       |                               |                       |                               |                    |            |              |
|----|----------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--------------------|------------|--------------|
|    | 0                                | 1                     | 2                             | 3                     | 4                             | 5                  | 6          | 7            |
| 40 | Error Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 41 | Error Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 42 | SubCode 2                        |                       |                               |                       |                               |                    |            |              |
|    | 0x11                             |                       |                               |                       |                               |                    |            |              |
| 43 | DMA path                         |                       |                               |                       |                               |                    |            |              |
|    | 0: CHP-CACHE<br>1: SCP-CACHE     |                       |                               |                       | SCP path#(03)                 |                    |            |              |
| 44 | SCP Function Code                |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Function Code |                       |                               |                       |                               |                    |            |              |
| 45 | Sense Key                        |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Key                   |                       |                               |                       |                               |                    |            |              |
| 46 | Sense Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code                  |                       |                               |                       |                               |                    |            |              |
| 47 | Sense Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code Qualifier        |                       |                               |                       |                               |                    |            |              |
| 48 | Script Execute Status (b00-b07)  |                       |                               |                       |                               |                    |            |              |
|    | Script Function Code             |                       |                               |                       |                               |                    |            |              |
| 49 | Script Execute Status (b08-b15)  |                       |                               |                       |                               |                    |            |              |
|    | Script execute step              |                       |                               |                       |                               |                    |            |              |
| 4A | Script Execute Status (b16-b23)  |                       |                               |                       |                               |                    |            |              |
|    | Execute end                      | Execute               | Script Abort                  | Interrupt             | SCSI ATN asserted             | MSG 33byte over    | Reselected | DMA transfer |
| 4B | Script Execute Status (b24-b31)  |                       |                               |                       |                               |                    |            |              |
|    | TAG MSG received                 | Extended MSG received | Illegal Identify MSG received | Identify MSG received | Bus Device Reset MSG received | Other MSG received | (reserved) | (reserved)   |
| 4C | I-T-L-X (b00-b07)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI TAG Number                  |                       |                               |                       |                               |                    |            |              |
| 4D | I-T-L-X (b08-b15)                |                       |                               |                       |                               |                    |            |              |
|    | Logical Unit Number              |                       |                               |                       |                               |                    |            |              |
| 4E | I-T-L-X (b16-b23)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Target ID                   |                       |                               |                       |                               |                    |            |              |
| 4F | I-T-L-X (b24-b31)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Initiator ID                |                       |                               |                       |                               |                    |            |              |

|    | 0                                    | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                  |
|----|--------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|------------------------------------|
| 50 | SCP ISTAT :: Interrupt Status        |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Abort Operation                      | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending              |
| 51 | SCP DSTAT :: DMA Status              |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA FIFO empty                       | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                |
| 52 | SCP SIST0 :: SCSI Interrupt Status 0 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Phase Mismatch                  | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                  |
| 53 | SCP SIST1 :: SCSI Interrupt Status 1 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | (Reserved)                           | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake timeExpired |
| 54 | SCP DSP (b00-b07)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                    |
| 55 | SCP DSP (b08-b15)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                    |
| 56 | SCP DSP (b16-b23)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                    |
| 57 | SCP DSP (b24-b31)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer                  |                          |                                     |                                     |                          |                                        |                               |                                    |
| 58 | SCP DSPS (b00-b07)                   |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                    |
| 59 | SCP DSPS (b08-b15)                   |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5A | SCP DSPS (b16-b23)                   |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5B | SCP DSPS (b24-b31)                   |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA SCRIPTS Pointer Save             |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5C | SCP STATUS                           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Detected Parity Error (from Slave)   | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported               |
| 5D | SCP DBC (b00-b07)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5E | SCP DBC (b08-b15)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5F | SCP DBC (b16-b23)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                    |

|    | 0                                             | 1             | 2             | 3              | 4             | 5              | 6              | 7                   |
|----|-----------------------------------------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------------|
| 60 | MIC RCVINT(b00-b07)                           |               |               |                |               |                |                |                     |
|    | (Reserved)                                    |               |               |                |               |                |                |                     |
| 61 | MIC RCVINT (b08-b15)                          |               |               |                |               |                |                |                     |
|    | SYSRST<br>INT                                 | SELRST<br>INT | CHK1A<br>INT  | CHK1B<br>INT   | SMP INT       | LAN/SIO<br>INT | CHK2A<br>INT   | PCI INT             |
| 62 | MIC RCVINT(b16-b23)                           |               |               |                |               |                |                |                     |
|    | (Not used)                                    | CHK3 INT      | (Not used)    | SCA1 INT       | SCA2 INT      | SCA3 INT       | SCA4 INT       | SCA5 INT            |
| 63 | MIC RCVINT(b24-b31)                           |               |               |                |               |                |                |                     |
|    | TIMER0<br>INT                                 | TIMER1<br>INT | TIMER2<br>INT | TIMER3<br>INT  | TIMER4<br>INT | TIMER5<br>INT  | TIMER6<br>INT  | SYNC<br>STOP INT    |
| 64 | PBA XRPBA03(b24-b31)                          |               |               |                |               |                |                |                     |
|    | (Not used)                                    | (Not used)    | (Not used)    | (Not used)     | SCP#3 INT     | SCP#2 INT      | SCP#1 INT      | SCP#0 INT           |
| 65 | PBA XRPBA00(b24-b31)                          |               |               |                |               |                |                |                     |
|    | DEL SEL(0x00-0x03: SCP#, 0x44-0xFF: Not used) |               |               |                |               |                |                |                     |
| 66 | PBA XRPBA04(b16-b23)                          |               |               |                |               |                |                |                     |
|    | MEM ADR(MSB)                                  |               |               |                |               |                |                |                     |
| 67 | PBA XRPBA04(b24-b31)                          |               |               |                |               |                |                |                     |
|    | MEM ADR(LSB)                                  |               |               |                |               |                |                |                     |
| 68 | PBA XRPBA10(b00-b07)                          |               |               |                |               |                |                |                     |
|    | (Reserved)                                    |               |               |                |               |                |                |                     |
| 69 | PBA XRPBA10(b08-b15)                          |               |               |                |               |                |                |                     |
|    | (Reserved)                                    |               |               |                |               |                |                |                     |
| 6A | PBA XRPBA10(b16-b23)                          |               |               |                |               |                |                |                     |
|    | SERR0                                         | SERR1         | PERR0         | PERR1          | PERR2         | PERR3          | MEM ADR<br>ERR | MEM<br>WRDT<br>PERR |
| 6B | PBA XRPBA10(b24-b31)                          |               |               |                |               |                |                |                     |
|    | MEM<br>RDDT<br>ERR                            | BSERR0        | BSERR1        | BSA XR<br>PERR | BPERR0        | BPERR1         | BCTL ERR       | TIME OUT            |
| 6C | PBA XRPBA68(PCI0) (b00-b07)                   |               |               |                |               |                |                |                     |
|    | MSADR                                         |               |               |                |               |                |                |                     |
| 6D | PBA XRPBA68(PCI0) (b08-b15)                   |               |               |                |               |                |                |                     |
|    | MSADR                                         |               |               |                |               |                |                |                     |
| 6E | PBA XRPBA68(PCI0) (b16-b23)                   |               |               |                |               |                |                |                     |
|    | MSADR                                         |               |               |                |               |                |                |                     |
| 6F | PBA XRPBA68(PCI0) (b24-b31)                   |               |               |                |               |                |                |                     |
|    | MSADR                                         |               |               |                |               |                |                |                     |



|    | 0                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|-----------------------------|---|---|---|---|---|---|---|
| 70 | PBA_XRPBA68(PCI1) (b00-b07) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 71 | PBA_XRPBA68(PCI1) (b08-b15) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 72 | PBA_XRPBA68(PCI1) (b16-b23) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 73 | PBA_XRPBA68(PCI1) (b24-b31) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 74 | PBA_XRPBA68(PCI2) (b00-b07) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 75 | PBA_XRPBA68(PCI2) (b08-b15) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 76 | PBA_XRPBA68(PCI2) (b16-b23) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 77 | PBA_XRPBA68(PCI2) (b24-b31) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 78 | PBA_XRPBA68(PCI3) (b00-b07) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 79 | PBA_XRPBA68(PCI3) (b08-b15) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 7A | PBA_XRPBA68(PCI3) (b16-b23) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 7B | PBA_XRPBA68(PCI3) (b24-b31) |   |   |   |   |   |   |   |
|    | MSADR                       |   |   |   |   |   |   |   |
| 7C | Reserved                    |   |   |   |   |   |   |   |
|    |                             |   |   |   |   |   |   |   |
| 7D | Reserved                    |   |   |   |   |   |   |   |
|    |                             |   |   |   |   |   |   |   |
| 7E | Reserved                    |   |   |   |   |   |   |   |
|    |                             |   |   |   |   |   |   |   |
| 7F | Reserved                    |   |   |   |   |   |   |   |
|    |                             |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(3) Byte28=88, Byte42=12

|                                  |                                 |                       |                               |                       |                               |                    |            |              |
|----------------------------------|---------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--------------------|------------|--------------|
| 3) Byte28-38, Byte42-52          |                                 |                       |                               |                       |                               |                    |            |              |
| 0                                | 1                               | 2                     | 3                             | 4                     | 5                             | 6                  | 7          |              |
| 40                               | Error Code (b00-b07)            |                       |                               |                       |                               |                    |            |              |
| SCP Control Module Error Code    |                                 |                       |                               |                       |                               |                    |            |              |
| 41                               | Error Code (b08-b15)            |                       |                               |                       |                               |                    |            |              |
| SCP Control Module Error Code    |                                 |                       |                               |                       |                               |                    |            |              |
| 42                               | SubCode 2                       |                       |                               |                       |                               |                    |            |              |
| 0x12                             |                                 |                       |                               |                       |                               |                    |            |              |
| 43                               | DMA path#                       |                       |                               |                       |                               |                    |            |              |
| 0: CHP-CACHE                     |                                 |                       |                               | SCP path#(03)         |                               |                    |            |              |
| 1: SCP-CACHE                     |                                 |                       |                               |                       |                               |                    |            |              |
| 44                               | SCP Function Code               |                       |                               |                       |                               |                    |            |              |
| SCP Control Module Function Code |                                 |                       |                               |                       |                               |                    |            |              |
| 45                               | Sense Key                       |                       |                               |                       |                               |                    |            |              |
| SCSI Sense Key                   |                                 |                       |                               |                       |                               |                    |            |              |
| 46                               | Sense Code (b00-b07)            |                       |                               |                       |                               |                    |            |              |
| SCSI Sense Code                  |                                 |                       |                               |                       |                               |                    |            |              |
| 47                               | Sense Code (b08-b15)            |                       |                               |                       |                               |                    |            |              |
| SCSI Sense Code Qualifier        |                                 |                       |                               |                       |                               |                    |            |              |
| 48                               | Script Execute Status (b00-b07) |                       |                               |                       |                               |                    |            |              |
| Script Function Code             |                                 |                       |                               |                       |                               |                    |            |              |
| 49                               | Script Execute Status (b08-b15) |                       |                               |                       |                               |                    |            |              |
| Script execute step              |                                 |                       |                               |                       |                               |                    |            |              |
| 4A                               | Script Execute Status (b16-b23) |                       |                               |                       |                               |                    |            |              |
| Execute end                      |                                 | Execute               | Script Abort                  | Interrupt             | SCSI ATN asserted             | MSG 33byte over    | Reselected | DMA transfer |
| 4B                               | Script Execute Status (b24-b31) |                       |                               |                       |                               |                    |            |              |
| TAG MSG received                 |                                 | Extended MSG received | Illegal Identify MSG received | Identify MSG received | Bus Device Reset MSG received | Other MSG received | (reserved) | (reserved)   |
| 4C                               | I-T-L-X (b00-b07)               |                       |                               |                       |                               |                    |            |              |
| SCSI TAG Number                  |                                 |                       |                               |                       |                               |                    |            |              |
| 4D                               | I-T-L-X (b08-b15)               |                       |                               |                       |                               |                    |            |              |
| Logical Unit Number              |                                 |                       |                               |                       |                               |                    |            |              |
| 4E                               | I-T-L-X (b16-b23)               |                       |                               |                       |                               |                    |            |              |
| SCSI Target ID                   |                                 |                       |                               |                       |                               |                    |            |              |
| 4F                               | I-T-L-X (b24-b31)               |                       |                               |                       |                               |                    |            |              |
| SCSI Initiator ID                |                                 |                       |                               |                       |                               |                    |            |              |

|    | 0                                              | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                  |
|----|------------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|------------------------------------|
| 50 | SCP ISTAT :: Interrupt Status                  |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Abort Operation                                | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending              |
| 51 | SCP DSTAT :: DMA Status                        |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA FIFO empty                                 | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                |
| 52 | SCP SIST0 :: SCSI Interrupt Status 0           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Phase Mismatch                            | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                  |
| 53 | SCP SIST1 :: SCSI Interrupt Status 1           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | (Reserved)                                     | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake timeExpired |
| 54 | SCP DSP (b00-b07)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 55 | SCP DSP (b08-b15)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 56 | SCP DSP (b16-b23)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 57 | SCP DSP (b24-b31)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 58 | SCP DSPS (b00-07)<br>DMA SCRIPTS Pointer Save  |                          |                                     |                                     |                          |                                        |                               |                                    |
| 59 | SCP DSPS (b08-b15)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5A | SCP DSPS (b16-b23)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5B | SCP DSPS (b24-b31)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5C | SCP STATUS                                     |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Detected Parity Error (from Slave)             | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported               |
| 5D | SCP DBC (b00-b07)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5E | SCP DBC (b08-b15)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5F | SCP DBC (b16-b23)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |

|    | 0                                             | 1             | 2                                                     | 3              | 4             | 5              | 6                                                   | 7                  |
|----|-----------------------------------------------|---------------|-------------------------------------------------------|----------------|---------------|----------------|-----------------------------------------------------|--------------------|
| 60 | MIC RCVINT(b00-b07)                           |               |                                                       |                |               |                |                                                     |                    |
|    | (Reserved)                                    |               |                                                       |                |               |                |                                                     |                    |
| 61 | MIC RCVINT (b08-b15)                          |               |                                                       |                |               |                |                                                     |                    |
|    | SYSRST<br>INT                                 | SELRST<br>INT | CHK1A<br>INT                                          | CHK1B<br>INT   | SMP INT       | LAN/SIO<br>INT | CHK2A<br>INT                                        | PCI INT            |
| 62 | MIC RCVINT(b16-b23)                           |               |                                                       |                |               |                |                                                     |                    |
|    | (Not used)                                    | CHK3 INT      | (Not used)                                            | SCA1 INT       | SCA2 INT      | SCA3 INT       | SCA4 INT                                            | SCA5 INT           |
| 63 | MIC RCVINT(b24-b31)                           |               |                                                       |                |               |                |                                                     |                    |
|    | TIMER0<br>INT                                 | TIMER1<br>INT | TIMER2<br>INT                                         | TIMER3<br>INT  | TIMER4<br>INT | TIMER5<br>INT  | TIMER6<br>INT                                       | SYNC<br>STOP INT   |
| 64 | PBA XRPBA03(b24-b31)                          |               |                                                       |                |               |                |                                                     |                    |
|    | (Not used)                                    | (Not used)    | (Not used)                                            | (Not used)     | SCP#3 INT     | SCP#2 INT      | SCP#1 INT                                           | SCP#0 INT          |
| 65 | PBA XRPBA00(b24-b31)                          |               |                                                       |                |               |                |                                                     |                    |
|    | DEVSEL(0x00-0x03: SCP#, 0x04-0xFF: Not used)  |               |                                                       |                |               |                |                                                     |                    |
| 66 | PBA XRPBA04(b16-b23)                          |               |                                                       |                |               |                |                                                     |                    |
|    | MEM ADR(MSB)                                  |               |                                                       |                |               |                |                                                     |                    |
| 67 | PBA XRPBA04(b24-b31)                          |               |                                                       |                |               |                |                                                     |                    |
|    | MEM ADR(LSB)                                  |               |                                                       |                |               |                |                                                     |                    |
| 68 | PBA XRPBA28(b00-b07)                          |               |                                                       |                |               |                |                                                     |                    |
|    | SERR0                                         | SERR1         | PERR0                                                 | PERR1          | PERR2         | PERR3          | MEM<br>ADR<br>ERR                                   | MEM<br>WRDT<br>ERR |
| 69 | PBA XRPBA28(b08-b15)                          |               |                                                       |                |               |                |                                                     |                    |
|    | MEM<br>RDDT<br>ERR                            | BSERR0        | BSERR1                                                | BSA XR<br>PERR | BPERR0        | BPERR1         | BCTL ERR                                            | TIME OUT           |
| 6A | PBA XRPBA28(b16-b23)                          |               |                                                       |                |               |                |                                                     |                    |
|    | TRFCNT(LSB)                                   |               |                                                       |                |               |                | 0                                                   | 1                  |
| 6B | PBA XRPBA28(b24-b31)                          |               |                                                       |                |               |                |                                                     |                    |
|    | 1                                             | BM            |                                                       |                | TM            |                |                                                     |                    |
| 6C | PBA XRPBA2B (b00-b07)                         |               |                                                       |                |               |                |                                                     |                    |
|    | 00: XFC INIT<br>01: XFC STOP<br>11: XFC START |               | (Not used)                                            | (Not used)     | (Not used)    | (Not used)     | (Not used)                                          | (Not used)         |
| 6D | PBA XRPBA2B (b08-b15)                         |               |                                                       |                |               |                |                                                     |                    |
|    | (Not used)                                    | (Not used)    | (Not used)                                            | (Not used)     | (Not used)    | (Not used)     | 10: none<br>11: FBUS DATA                           |                    |
| 6E | PBA XRPBA2B (b16-b23)                         |               |                                                       |                |               |                |                                                     |                    |
|    | (Not used)                                    | (Not used)    | Sub-Block format<br>00: not AS400<br>01: AS400 format |                | (Not used)    | (Not used)     | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |                    |
| 6F | PBA XRPBA2B (b24-b31)                         |               |                                                       |                |               |                |                                                     |                    |
|    | DMA Sub-Block Counter                         |               |                                                       |                |               |                |                                                     |                    |

|    | 0                                             | 1              | 2                                                     | 3              | 4              | 5               | 6                                                   | 7          |
|----|-----------------------------------------------|----------------|-------------------------------------------------------|----------------|----------------|-----------------|-----------------------------------------------------|------------|
| 70 | PBA_XRPBA2C (b00-b07)                         |                |                                                       |                |                |                 |                                                     |            |
|    | XFR END                                       | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 71 | PBA_XRPBA2C (b08-b15)                         |                |                                                       |                |                |                 |                                                     |            |
|    | PCI INT                                       | CHK2A<br>error | CHK2B<br>error                                        | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning                                   | (Not used) |
| 72 | PBA_XRPBA2C (b16-b23)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                       |                |                |                 |                                                     |            |
| 73 | PBA_XRPBA2C (b24-b31)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                       |                |                |                 |                                                     |            |
| 74 | PBA_XRPBA65 (b00-b07)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                       |                |                |                 |                                                     |            |
| 75 | PBA_XRPBA65 (b08-b15)                         |                |                                                       |                |                |                 |                                                     |            |
|    | 0                                             | 1              | PLRC                                                  | SP MODE        | DIAG<br>MODE   | TRF CNT(MSB)    |                                                     |            |
| 76 | PBA_XRPBA65 (b16-b23)                         |                |                                                       |                |                |                 |                                                     |            |
|    | TRF CNT(LSB)                                  |                |                                                       |                |                |                 | 0                                                   | 1          |
| 77 | PBA_XRPBA65 (b24-b31)                         |                |                                                       |                |                |                 |                                                     |            |
|    | 1                                             | BM             |                                                       |                | TM             |                 |                                                     |            |
| 78 | PBA_XRPBA69 (b00-b07)                         |                |                                                       |                |                |                 |                                                     |            |
|    | 00: XFC INIT<br>01: XFC STOP<br>11: XFC START |                | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 79 | PBA_XRPBA69 (b08-b15)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | 00: PCI device<br>01: PCI device(SKIP)              |            |
| 7A | PBA_XRPBA69 (b16-b23)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | Sub-Block format<br>00: not AS400<br>01: AS400 format |                | (Not used)     | (Not used)      | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |            |
| 7B | PBA_XRPBA69 (b24-b31)                         |                |                                                       |                |                |                 |                                                     |            |
|    | DMA Sub-Block Counter                         |                |                                                       |                |                |                 |                                                     |            |
| 7C | PBA_XRPBA6A (b00-b07)                         |                |                                                       |                |                |                 |                                                     |            |
|    | XFR END                                       | (Not used)     | (Not used)                                            | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 7D | PBA_XRPBA6A (b08-b15)                         |                |                                                       |                |                |                 |                                                     |            |
|    | PCI INT                                       | CHK2A<br>error | CHK2B<br>error                                        | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning                                   | (Not used) |
| 7E | PBA_XRPBA6A (b16-b23)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                       |                |                |                 |                                                     |            |
| 7F | PBA_XRPBA6A (b24-b31)                         |                |                                                       |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                       |                |                |                 |                                                     |            |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(4) Byte28=88, Byte42=13

|    |                                  |                       |                               |                       |                               |                    |            |              |
|----|----------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--------------------|------------|--------------|
|    | 0                                | 1                     | 2                             | 3                     | 4                             | 5                  | 6          | 7            |
| 40 | Error Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 41 | Error Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 42 | SubCode 2                        |                       |                               |                       |                               |                    |            |              |
|    | 0x13                             |                       |                               |                       |                               |                    |            |              |
| 43 | DMA path                         |                       |                               |                       |                               |                    |            |              |
|    | 00: CHP-CACHE                    |                       |                               |                       | SCP path#(03)                 |                    |            |              |
|    | 01: SCP-CACHE                    |                       |                               |                       |                               |                    |            |              |
| 44 | SCP Function Code                |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Function Code |                       |                               |                       |                               |                    |            |              |
| 45 | Sense Key                        |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Key                   |                       |                               |                       |                               |                    |            |              |
| 46 | Sense Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code                  |                       |                               |                       |                               |                    |            |              |
| 47 | Sense Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code Qualifier        |                       |                               |                       |                               |                    |            |              |
| 48 | Script Execute Status (b00-b07)  |                       |                               |                       |                               |                    |            |              |
|    | Script Function Code             |                       |                               |                       |                               |                    |            |              |
| 49 | Script Execute Status (b08-b15)  |                       |                               |                       |                               |                    |            |              |
|    | Script execute step              |                       |                               |                       |                               |                    |            |              |
| 4A | Script Execute Status (b16-b23)  |                       |                               |                       |                               |                    |            |              |
|    | Execute end                      | Execute               | Script Abort                  | Interrupt             | SCSI ATN asserted             | MSG 33byte over    | Reselected | DMA transfer |
| 4B | Script Execute Status (b24-b31)  |                       |                               |                       |                               |                    |            |              |
|    | TAG MSG received                 | Extended MSG received | Illegal Identify MSG received | Identify MSG received | Bus Device Reset MSG received | Other MSG received | (reserved) | (reserved)   |
| 4C | I-T-L-X (b00-b07)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI TAG Number                  |                       |                               |                       |                               |                    |            |              |
| 4D | I-T-L-X (b08-b15)                |                       |                               |                       |                               |                    |            |              |
|    | Logical Unit Number              |                       |                               |                       |                               |                    |            |              |
| 4E | I-T-L-X (b16-b23)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Target ID                   |                       |                               |                       |                               |                    |            |              |
| 4F | I-T-L-X (b24-b31)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Initiator ID                |                       |                               |                       |                               |                    |            |              |

|    | 0                                              | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                  |
|----|------------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|------------------------------------|
| 50 | SCP ISTAT :: Interrupt Status                  |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Abort Operation                                | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending              |
| 51 | SCP DSTAT :: DMA Status                        |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA FIFO empty                                 | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                |
| 52 | SCP SIST0 :: SCSI Interrupt Status 0           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Phase Mismatch                            | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                  |
| 53 | SCP SIST1 :: SCSI Interrupt Status 1           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | (Reserved)                                     | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake timeExpired |
| 54 | SCP DSP (b00-b07)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 55 | SCP DSP (b08-b15)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 56 | SCP DSP (b16-b23)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 57 | SCP DSP (b24-b31)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 58 | SCP DSPS (b00-b07)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 59 | SCP DSPS (b08-b15)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5A | SCP DSPS (b16-b23)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5B | SCP DSPS (b24-b31)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5C | SCP STATUS                                     |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Detected Parity Error (from Slave)             | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported               |
| 5D | SCP DBC (b00-b07)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5E | SCP DBC (b08-b15)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5F | SCP DBC (b16-b23)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |

|    | 0                                              | 1             | 2                                                                   | 3             | 4             | 5              | 6                                                   | 7                |
|----|------------------------------------------------|---------------|---------------------------------------------------------------------|---------------|---------------|----------------|-----------------------------------------------------|------------------|
| 60 | MIC RCVINT(b00-b07)                            |               |                                                                     |               |               |                |                                                     |                  |
|    | (Reserved)                                     |               |                                                                     |               |               |                |                                                     |                  |
| 61 | MIC RCVINT (b08-b15)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | SYSRST<br>INT                                  | SELRST<br>INT | CHK1A<br>INT                                                        | CHK1B<br>INT  | SMP INT       | LAN/SIO<br>INT | CHK2A<br>INT                                        | PCI INT          |
| 62 | MIC RCVINT(b16-b23)                            |               |                                                                     |               |               |                |                                                     |                  |
|    | (Not used)                                     | CHK3 INT      | (Not used)                                                          | SCA1 INT      | SCA2 INT      | SCA3 INT       | SCA4 INT                                            | SCA5 INT         |
| 63 | MIC RCVINT(b24-b31)                            |               |                                                                     |               |               |                |                                                     |                  |
|    | TIMER0<br>INT                                  | TIMER1<br>INT | TIMER2<br>INT                                                       | TIMER3<br>INT | TIMER4<br>INT | TIMER5<br>INT  | TIMER6<br>INT                                       | SYNC<br>STOP INT |
| 64 | PBA XRPBA03(b24-b31)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | (Not used)                                     | (Not used)    | (Not used)                                                          | (Not used)    | SCP#3 INT     | SCP#2 INT      | SCP#1 INT                                           | SCP#0 INT        |
| 65 | PBA XRPBA00(b24-b31)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | DEV SEL (0x00-0x03: SCP#, 0x04-0xFF: Not used) |               |                                                                     |               |               |                |                                                     |                  |
| 66 | PBA XRPBA04(b16-b23)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | MEM ADR(MSB)                                   |               |                                                                     |               |               |                |                                                     |                  |
| 67 | PBA XRPBA04(b24-b31)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | MEM ADR(LSB)                                   |               |                                                                     |               |               |                |                                                     |                  |
| 68 | PBA XRPBA28(b00-b07)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | (Reserved)                                     |               |                                                                     |               |               |                |                                                     |                  |
| 69 | PBA XRPBA28(b08-b15)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | 0                                              | 1             | PLRC                                                                | SP MODE       | DIAG<br>MODE  | TRF CNT(MSB)   |                                                     |                  |
| 6A | PBA XRPBA28(b16-b23)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | TRF CNT(LSB)                                   |               |                                                                     |               |               |                | 0                                                   | 1                |
| 6B | PBA XRPBA28(b24-b31)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | 1                                              | BM            |                                                                     |               | TM            |                |                                                     |                  |
| 6C | PBA XRPBA2B (b00-07)                           |               |                                                                     |               |               |                |                                                     |                  |
|    | 00: XFC INIT<br>10: XFC STOP<br>11: XFC START  |               | (Not used)                                                          | (Not used)    | (Not used)    | (Not used)     | (Not used)                                          | (Not used)       |
| 6D | PBA XRPBA2B (b08-b15)                          |               |                                                                     |               |               |                |                                                     |                  |
|    | (Not used)                                     | (Not used)    | SCP#                                                                |               | (Not used)    | (Not used)     | 10: none<br>11: FBUS DATA                           |                  |
| 6E | PBA XRPBA2B (b16-b23)                          |               |                                                                     |               |               |                |                                                     |                  |
|    | (Not used)                                     | (Not used)    | Sub-Block format<br>00: not AS400<br>01: AS400<br>10: CACHE I/O.TOD |               | (Not used)    | (Not used)     | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |                  |
| 6F | PBA XRPBA2B (b24-b31)                          |               |                                                                     |               |               |                |                                                     |                  |
|    | DMA Sub-Block Counter                          |               |                                                                     |               |               |                |                                                     |                  |



|    | 0                                             | 1              | 2                                              | 3              | 4              | 5               | 6                                                   | 7          |
|----|-----------------------------------------------|----------------|------------------------------------------------|----------------|----------------|-----------------|-----------------------------------------------------|------------|
| 70 | PBA XRPBA2C (b00-b07)                         |                |                                                |                |                |                 |                                                     |            |
|    | XFR END                                       | (Not used)     | (Not used)                                     | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 71 | PBA XRPBA2C (b08-b15)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Not used)                                    | CHK2A<br>error | CHK2B<br>error                                 | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning                                   | (Not used) |
| 72 | PBA XRPBA2C (b16-b23)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                |                |                |                 |                                                     |            |
| 73 | PBA XRPBA2C (b24-b31)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                |                |                |                 |                                                     |            |
| 74 | PBA XRPBA65 (b00-b07)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                |                |                |                 |                                                     |            |
| 75 | PBA XRPBA65 (b08-b15)                         |                |                                                |                |                |                 |                                                     |            |
|    | 0                                             | 1              | PLRC                                           | SP MODE        | DIAG<br>MODE   | TRF CNT(MSB)    |                                                     |            |
| 76 | PBA XRPBA65 (b16-b23)                         |                |                                                |                |                |                 |                                                     |            |
|    | TRF CNT(LSB)                                  |                |                                                |                |                |                 | 0                                                   | 1          |
| 77 | PBA XRPBA65 (b24-b31)                         |                |                                                |                |                |                 |                                                     |            |
|    | 1                                             | BM             |                                                |                | TM             |                 |                                                     |            |
| 78 | PBA XRPBA69 (b00-b07)                         |                |                                                |                |                |                 |                                                     |            |
|    | 00: XFC INIT<br>10: XFC STOP<br>11: XFC START |                | (Not used)                                     | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 79 | PBA XRPBA69 (b08-b15)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | (Not used)                                     | (Not used)     | (Not used)     | (Not used)      | 00: PCI device<br>01: PCI device(SKIP)              |            |
| 7A | PBA XRPBA69 (b16-b23)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Not used)                                    | (Not used)     | Sub-Block format<br>00: not AS400<br>01: AS400 |                | (Not used)     | (Not used)      | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |            |
| 7B | PBA XRPBA69 (b24-b31)                         |                |                                                |                |                |                 |                                                     |            |
|    | DMA Sub-Block Counter                         |                |                                                |                |                |                 |                                                     |            |
| 7C | PBA XRPBA6A (b00-b07)                         |                |                                                |                |                |                 |                                                     |            |
|    | XFR END                                       | (Not used)     | (Not used)                                     | (Not used)     | (Not used)     | (Not used)      | (Not used)                                          | (Not used) |
| 7D | PBA XRPBA6A (b08-b15)                         |                |                                                |                |                |                 |                                                     |            |
|    | PCI INT                                       | CHK2A<br>error | CHK2B<br>error                                 | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning                                   | (Not used) |
| 7E | PBA XRPBA6A (b16-b23)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                |                |                |                 |                                                     |            |
| 7F | PBA XRPBA6A (b24-b31)                         |                |                                                |                |                |                 |                                                     |            |
|    | (Reserved)                                    |                |                                                |                |                |                 |                                                     |            |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(5) Byte28=88, Byte42=20

|                                  |                                 |                       |                               |                       |                               |                    |            |              |
|----------------------------------|---------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--------------------|------------|--------------|
| 3F) Byte28-38, Byte42-20         |                                 |                       |                               |                       |                               |                    |            |              |
| 40                               | 0                               | 1                     | 2                             | 3                     | 4                             | 5                  | 6          | 7            |
| Error Code (b00-b07)             |                                 |                       |                               |                       |                               |                    |            |              |
| SCP Control Module Error Code    |                                 |                       |                               |                       |                               |                    |            |              |
| 41                               | Error Code (b08-b15)            |                       |                               |                       |                               |                    |            |              |
| SCP Control Module Error Code    |                                 |                       |                               |                       |                               |                    |            |              |
| 42                               | SubCode 2                       |                       |                               |                       |                               |                    |            |              |
| 0x20                             |                                 |                       |                               |                       |                               |                    |            |              |
| 43                               | DMA path                        |                       |                               |                       |                               |                    |            |              |
| 00: CHP-CACHE                    |                                 |                       |                               |                       | SCP path#(03)                 |                    |            |              |
| 01: SCP-CAHCE                    |                                 |                       |                               |                       |                               |                    |            |              |
| 44                               | SCP Function Code               |                       |                               |                       |                               |                    |            |              |
| SCP Control Module Function Code |                                 |                       |                               |                       |                               |                    |            |              |
| 45                               | Sense Key                       |                       |                               |                       |                               |                    |            |              |
| SCSI Sense Key                   |                                 |                       |                               |                       |                               |                    |            |              |
| 46                               | Sense Code (b00-b07)            |                       |                               |                       |                               |                    |            |              |
| SCSI Sense Code                  |                                 |                       |                               |                       |                               |                    |            |              |
| 47                               | Sense Code (b08-b15)            |                       |                               |                       |                               |                    |            |              |
| SCSI Sense Code Qualifier        |                                 |                       |                               |                       |                               |                    |            |              |
| 48                               | Script Execute Status (b00-b07) |                       |                               |                       |                               |                    |            |              |
| Script Function Code             |                                 |                       |                               |                       |                               |                    |            |              |
| 49                               | Script Execute Status (b08-b15) |                       |                               |                       |                               |                    |            |              |
| Script execute step              |                                 |                       |                               |                       |                               |                    |            |              |
| 4A                               | Script Execute Status (b16-b23) |                       |                               |                       |                               |                    |            |              |
| Execute end                      |                                 | Execute               | Script Abort                  | Interrupt             | SCSI ATN asserted             | MSG 33byte over    | Reselected | DMA transfer |
| 4B                               | Script Execute Status (b24-b31) |                       |                               |                       |                               |                    |            |              |
| TAG MSG received                 |                                 | Extended MSG received | Illegal Identify MSG received | Identify MSG received | Bus Device Reset MSG received | Other MSG received | (reserved) | (reserved)   |
| 4C                               | I-T-L-X (b00-b07)               |                       |                               |                       |                               |                    |            |              |
| SCSI TAG Number                  |                                 |                       |                               |                       |                               |                    |            |              |
| 4D                               | I-T-L-X (b08-b15)               |                       |                               |                       |                               |                    |            |              |
| Logical Unit Number              |                                 |                       |                               |                       |                               |                    |            |              |
| 4E                               | I-T-L-X (b16-b23)               |                       |                               |                       |                               |                    |            |              |
| SCSI Target ID                   |                                 |                       |                               |                       |                               |                    |            |              |
| 4F                               | I-T-L-X (b24-b31)               |                       |                               |                       |                               |                    |            |              |
| SCSI Initiator ID                |                                 |                       |                               |                       |                               |                    |            |              |

|    | 0                                              | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                  |
|----|------------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|------------------------------------|
| 50 | SCP ISTAT :: Interrupt Status                  |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Abort Operation                                | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending              |
| 51 | SCP DSTAT :: DMA Status                        |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA FIFO empty                                 | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                |
| 52 | SCP SIST0 :: SCSI Interrupt Status 0           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Phase Mismatch                            | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                  |
| 53 | SCP SIST1 :: SCSI Interrupt Status 1           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | (Reserved)                                     | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake timeExpired |
| 54 | SCP DSP (b00-b07)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 55 | SCP DSP (b08-b15)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 56 | SCP DSP (b16-b23)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 57 | SCP DSP (b24-b31)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 58 | SCP DSPS (b00-07)<br>DMA SCRIPTS Pointer Save  |                          |                                     |                                     |                          |                                        |                               |                                    |
| 59 | SCP DSPS (b08-b15)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5A | SCP DSPS (b16-b23)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5B | SCP DSPS (b24-b31)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5C | SCP STATUS                                     |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Detected Parity Error (from Slave)             | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported               |
| 5D | SCP DBC (b00-b07)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5E | SCP DBC (b08-b15)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5F | SCP DBC (b16-b23)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |

|    | 0                                              | 1               | 2               | 3              | 4              | 5               | 6                 | 7          |
|----|------------------------------------------------|-----------------|-----------------|----------------|----------------|-----------------|-------------------|------------|
| 60 | PBA XRPBA03(b24-b31)                           |                 |                 |                |                |                 |                   |            |
|    | (Not used)                                     | (Not used)      | (Not used)      | (Not used)     | SCP#3 INT      | SCP#2 INT       | SCP#1 INT         | SCP#0 INT  |
| 61 | PBA XRPBA00(b24-b31)                           |                 |                 |                |                |                 |                   |            |
|    | DEV SEL (0x00-0x03: SCP#, 0x04-0xFF: Not used) |                 |                 |                |                |                 |                   |            |
| 62 | PBA XRPBA6A (b00-b07)                          |                 |                 |                |                |                 |                   |            |
|    | XFR END                                        | (Not used)      | (Not used)      | (Not used)     | (Not used)     | (Not used)      | (Not used)        | (Not used) |
| 63 | PBA XRPBA6A (b08-b15)                          |                 |                 |                |                |                 |                   |            |
|    | PCI INT                                        | CHK2A<br>error  | CHK2B<br>error  | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning | (Not used) |
| 64 | PBA XRPBA60 (b00-b07)                          |                 |                 |                |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                |                |                 |                   |            |
| 65 | PBA XRPBA60 (b08-b15)                          |                 |                 |                |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                |                |                 |                   |            |
| 66 | PBA XRPBA60(b16-b23)                           |                 |                 |                |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                |                |                 |                   |            |
| 67 | PBA XRPBA60(b24-b31)                           |                 |                 |                |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                |                |                 |                   |            |
| 68 | PBA XRPBA61(b24-b31)                           |                 |                 |                |                |                 |                   |            |
|    | FBUS ADR00                                     |                 |                 |                |                |                 |                   |            |
| 69 | PBA XRPBA63(b24-b31)                           |                 |                 |                |                |                 |                   |            |
|    | FBUS ADR10                                     |                 |                 |                |                |                 |                   |            |
| 6A | PBA XRPBA6B(b00-b07)                           |                 |                 |                |                |                 |                   |            |
|    | WPBF IP<br>PERR                                | RPBF IP<br>PERR | RPBF IP<br>PERR | DT OUT<br>PERR | LRC CMP<br>ERR | LA CMP<br>ERR   |                   |            |
| 6B | PBA XRPBA6B(b08-b15)                           |                 |                 |                |                |                 |                   |            |
|    | (Reserved)                                     |                 |                 |                |                |                 |                   |            |
| 6C | PBA XRPBA62 (b00-b07)                          |                 |                 |                |                |                 |                   |            |
|    | FBUS ADR01                                     |                 |                 |                |                |                 |                   |            |
| 6D | PBA XRPBA62 (b08-b15)                          |                 |                 |                |                |                 |                   |            |
|    | FBUS ADR02                                     |                 |                 |                |                |                 |                   |            |
| 6E | PBA XRPBA62 (b16-b23)                          |                 |                 |                |                |                 |                   |            |
|    | FBUS ADR03                                     |                 |                 |                |                |                 |                   |            |
| 6F | PBA XRPBA62 (b24-b31)                          |                 |                 |                |                |                 |                   |            |
|    | FBUS ADR04                                     |                 |                 |                |                |                 |                   |            |

|    | 0                                             | 1          | 2                                                     | 3             | 4             | 5             | 6                                                   | 7             |
|----|-----------------------------------------------|------------|-------------------------------------------------------|---------------|---------------|---------------|-----------------------------------------------------|---------------|
| 70 | PBA_XRPBA64 (b00-b07)                         |            |                                                       |               |               |               |                                                     |               |
|    | FBS ADR11                                     |            |                                                       |               |               |               |                                                     |               |
| 71 | PBA_XRPBA64 (b08-b15)                         |            |                                                       |               |               |               |                                                     |               |
|    | FBS ADR12                                     |            |                                                       |               |               |               |                                                     |               |
| 72 | PBA_XRPBA64 (b16-b23)                         |            |                                                       |               |               |               |                                                     |               |
|    | FBS ADR13                                     |            |                                                       |               |               |               |                                                     |               |
| 73 | PBA_XRPBA64 (b24-b31)                         |            |                                                       |               |               |               |                                                     |               |
|    | FBS ADR14                                     |            |                                                       |               |               |               |                                                     |               |
| 74 | PBA_XRPBA65 (b00-b07)                         |            |                                                       |               |               |               |                                                     |               |
|    | (Reserved)                                    |            |                                                       |               |               |               |                                                     |               |
| 75 | PBA_XRPBA65 (b08-b15)                         |            |                                                       |               |               |               |                                                     |               |
|    | 0                                             | 1          | PLRC                                                  | SP<br>MODE    | DIAG<br>MODE  | TRF CNT(MSB)  |                                                     |               |
| 76 | PBA_XRPBA65 (b16-b23)                         |            |                                                       |               |               |               |                                                     |               |
|    | TRF CNT(LSB)                                  |            |                                                       |               |               |               | 0                                                   | 1             |
| 77 | PBA_XRPBA65 (b24-b31)                         |            |                                                       |               |               |               |                                                     |               |
|    | 1                                             | BM         |                                                       |               | TM            |               |                                                     |               |
| 78 | PBA_XRPBA68 (b00-b07)                         |            |                                                       |               |               |               |                                                     |               |
|    | MSADR                                         |            |                                                       |               |               |               |                                                     |               |
| 79 | PBA_XRPBA68 (b08-b15)                         |            |                                                       |               |               |               |                                                     |               |
|    | MSADR                                         |            |                                                       |               |               |               |                                                     |               |
| 7A | PBA_XRPBA68 (b16-b23)                         |            |                                                       |               |               |               |                                                     |               |
|    | MSADR                                         |            |                                                       |               |               |               |                                                     |               |
| 7B | PBA_XRPBA68 (b24-b31)                         |            |                                                       |               |               |               |                                                     |               |
|    | MSADR                                         |            |                                                       |               |               |               |                                                     |               |
| 7C | PBA_XRPBA69 (b00-b07)                         |            |                                                       |               |               |               |                                                     |               |
|    | 00: XFC INIT<br>10: XFC STOP<br>11: XFC START |            | (Not used)                                            | (Not<br>used) | (Not<br>used) | (Not<br>used) | (Not<br>used)                                       | (Not<br>used) |
| 7D | PBA_XRPBA69 (b08-b15)                         |            |                                                       |               |               |               |                                                     |               |
|    | (Not used)                                    | (Not used) | (Not<br>used)                                         | (Not<br>used) | (Not<br>used) | (Not<br>used) | 00: PCI device<br>01: PCI device(SKIP)              |               |
| 7E | PBA_XRPBA69 (b16-b23)                         |            |                                                       |               |               |               |                                                     |               |
|    | (Not used)                                    | (Not used) | Sub-Block format<br>00: not AS400<br>01: AS400 format |               | (Not<br>used) | (Not<br>used) | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |               |
| 7F | PBA_XRPBA69 (b24-b31)                         |            |                                                       |               |               |               |                                                     |               |
|    | DMA Sub-Block Counter                         |            |                                                       |               |               |               |                                                     |               |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(6) Byte28=88, Byte42=21

|    |                                      |                          |                                     |                                     |                          |                                        |                               |                                    |
|----|--------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|------------------------------------|
|    | 0                                    | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                  |
| 40 | Error Code (b00-b07)                 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCP Control Module Error Code        |                          |                                     |                                     |                          |                                        |                               |                                    |
| 41 | Error Code (b08-b15)                 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCP Control Module Error Code        |                          |                                     |                                     |                          |                                        |                               |                                    |
| 42 | SubCode 2                            |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | 0x21                                 |                          |                                     |                                     |                          |                                        |                               |                                    |
| 43 | DMA path                             |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | 00: CHP-CACHE<br>01: SCP-CACHE       |                          |                                     |                                     | SCP path#(03)            |                                        |                               |                                    |
| 44 | SCP Function Code                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCP Control Module Function Code     |                          |                                     |                                     |                          |                                        |                               |                                    |
| 45 | Sense Key                            |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Sense Key                       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 46 | Sense Code (b00-b07)                 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Sense Code                      |                          |                                     |                                     |                          |                                        |                               |                                    |
| 47 | Sense Code (b08-b15)                 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Sense Code Qualifier            |                          |                                     |                                     |                          |                                        |                               |                                    |
| 48 | SCP ISTAT :: Interrupt Status        |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Abort Operation                      | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending              |
| 49 | SCP DSTAT :: DMA Status              |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA FIFO empty                       | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                |
| 4A | SCP SIST0 :: SCSI Interrupt Status 0 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Phase Mismatch                  | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                  |
| 4B | SCP SIST1 :: SCSI Interrupt Status 1 |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | (Reserved)                           | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake timeExpired |
| 4C | SCP STATUS                           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Detected Parity Error (from Slave)   | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported               |
| 4D | SCP DBC (b00-b07)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                    |
| 4E | SCP DBC (b08-b15)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                    |
| 4F | SCP DBC (b16-b23)                    |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA Byte Counter                     |                          |                                     |                                     |                          |                                        |                               |                                    |

|    | 0                                              | 1               | 2               | 3               | 4              | 5               | 6                 | 7          |
|----|------------------------------------------------|-----------------|-----------------|-----------------|----------------|-----------------|-------------------|------------|
| 50 | PBA_XRPBA03(b24-b31)                           |                 |                 |                 |                |                 |                   |            |
|    | (Not used)                                     | (Not used)      | (Not used)      | (Not used)      | SCP#3 INT      | SCP#2 INT       | SCP#1 INT         | SCP#0 INT  |
| 51 | PBA_XRPBA00(b24-b31)                           |                 |                 |                 |                |                 |                   |            |
|    | DEV SEL (0x00-0x03: SCP#, 0x04-0xFF: Not used) |                 |                 |                 |                |                 |                   |            |
| 52 | PBA_XRPBA6A(b00-b07)                           |                 |                 |                 |                |                 |                   |            |
|    | XFR END                                        | (Not used)      | (Not used)      | (Not used)      | (Not used)     | (Not used)      | (Not used)        | (Not used) |
| 53 | PBA_XRPBA6A(b08-b15)                           |                 |                 |                 |                |                 |                   |            |
|    | PCI INT                                        | CHK2A<br>error  | CHK2B<br>error  | CHK2C<br>error  | CHK2D<br>error | STATUS<br>error | STATUS<br>warning | (Not used) |
| 54 | PBA_XRPBA60(b00-b07)                           |                 |                 |                 |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                 |                |                 |                   |            |
| 55 | PBA_XRPBA60 (b08-b15)                          |                 |                 |                 |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                 |                |                 |                   |            |
| 56 | PBA_XRPBA60(b16-b23)                           |                 |                 |                 |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                 |                |                 |                   |            |
| 57 | PBA_XRPBA60(b24-b31)                           |                 |                 |                 |                |                 |                   |            |
|    | SKIP DATA                                      |                 |                 |                 |                |                 |                   |            |
| 58 | PBA_XRPBA61(b24-b31)                           |                 |                 |                 |                |                 |                   |            |
|    | FBS ADR00                                      |                 |                 |                 |                |                 |                   |            |
| 59 | PBA_XRPBA63(b24-b31)                           |                 |                 |                 |                |                 |                   |            |
|    | FBS ADR10                                      |                 |                 |                 |                |                 |                   |            |
| 5A | PBA_XRPBA6B(b00-07)                            |                 |                 |                 |                |                 |                   |            |
|    | WPBF IP<br>PERR                                | RPBF DT<br>PERR | RPBF IP<br>PERR | RPBF OP<br>PERR | DT OUT<br>PERR | LRC CMP<br>ERR  | LA CMP<br>ERR     | (Not used) |
| 5B | PBA_XRPBA6B(b08-b15)                           |                 |                 |                 |                |                 |                   |            |
|    | (Reserved)                                     |                 |                 |                 |                |                 |                   |            |
| 5C | PBA_XRPBA62 (b00-b07)                          |                 |                 |                 |                |                 |                   |            |
|    | FBS ADR01                                      |                 |                 |                 |                |                 |                   |            |
| 5D | PBA_XRPBA62 (b08-b15)                          |                 |                 |                 |                |                 |                   |            |
|    | FBS ADR02                                      |                 |                 |                 |                |                 |                   |            |
| 5E | PBA_XRPBA62 (b16-b23)                          |                 |                 |                 |                |                 |                   |            |
|    | FBUS ADR03                                     |                 |                 |                 |                |                 |                   |            |
| 5F | PBA_XRPBA62 (b24-b31)                          |                 |                 |                 |                |                 |                   |            |
|    | FBUS ADR04                                     |                 |                 |                 |                |                 |                   |            |

|    | 0                                             | 1          | 2                                                     | 3            | 4            | 5            | 6                                                   | 7            |
|----|-----------------------------------------------|------------|-------------------------------------------------------|--------------|--------------|--------------|-----------------------------------------------------|--------------|
| 60 | PBA_XRPBA64 (b00-b07)                         |            |                                                       |              |              |              |                                                     |              |
|    | FBS ADR11                                     |            |                                                       |              |              |              |                                                     |              |
| 61 | PBA_XRPBA64 (b08-b15)                         |            |                                                       |              |              |              |                                                     |              |
|    | FBS ADR12                                     |            |                                                       |              |              |              |                                                     |              |
| 62 | PBA_XRPBA64 (b16-b23)                         |            |                                                       |              |              |              |                                                     |              |
|    | FBS ADR13                                     |            |                                                       |              |              |              |                                                     |              |
| 63 | PBA_XRPBA64 (b24-b31)                         |            |                                                       |              |              |              |                                                     |              |
|    | FBS ADR14                                     |            |                                                       |              |              |              |                                                     |              |
| 64 | PBA_XRPBA65 (b00-07)                          |            |                                                       |              |              |              |                                                     |              |
|    | (Reserved)                                    |            |                                                       |              |              |              |                                                     |              |
| 65 | PBA_XRPBA65 (b08-b15)                         |            |                                                       |              |              |              |                                                     |              |
|    | 0                                             | 1          | PLRC                                                  | SP MODE      | DIAG<br>MODE | TRF CNT(MSB) |                                                     |              |
| 66 | PBA_XRPBA65 (b16-b23)                         |            |                                                       |              |              |              |                                                     |              |
|    | TRF CNT(LSB)                                  |            |                                                       |              |              |              | 0                                                   | 1            |
| 67 | PBA_XRPBA65 (b24-b31)                         |            |                                                       |              |              |              |                                                     |              |
|    | 1                                             | BM         |                                                       |              | TM           |              |                                                     |              |
| 68 | PBA_XRPBA69(b00-b07)                          |            |                                                       |              |              |              |                                                     |              |
|    | 00: XFC INIT<br>10: XFC STOP<br>11: XFC START |            | (Not used)                                            | (Not used)   | (Not used)   | (Not used)   | (Not used)                                          | (Not used)   |
| 69 | PBA_XRPBA69(b08-b15)                          |            |                                                       |              |              |              |                                                     |              |
|    | (Not used)                                    | (Not used) | (Not used)                                            | (Not used)   | (Not used)   | (Not used)   | 00: PCI device<br>01: PCI device(SKIP)              |              |
| 6A | PBA_XRPBA69 (b16-b23)                         |            |                                                       |              |              |              |                                                     |              |
|    | (Not used)                                    | (Not used) | Sub-Block format<br>00: not AS400<br>01: AS400 format |              | (Not used)   | (Not used)   | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |              |
| 6B | PBA_XRPBA69 (b24-b31)                         |            |                                                       |              |              |              |                                                     |              |
|    | DMA Sub-Block Counter                         |            |                                                       |              |              |              |                                                     |              |
| 6C | PBSA_XRBS000 (b8-b15)                         |            |                                                       |              |              |              |                                                     |              |
|    | (Not used)                                    | (Not used) | ABT EN                                                | REQ EN       | MP BMH       | MP BML       | MP BMT                                              | SET<br>BOPEN |
| 6D | PBSA_XRBS006 (b8-b15)                         |            |                                                       |              |              |              |                                                     |              |
|    | CUDG EN                                       | BSA LOOP   | REQ SET<br>END                                        | MY<br>GRANT0 | MY<br>GRANT1 | MY<br>GRANT2 | MY<br>GRANT3                                        | MY<br>GRANT4 |
| 6E | PBSA_XRBS100 (b8-b15)                         |            |                                                       |              |              |              |                                                     |              |
|    | (Not used)                                    | (Not used) | ABT EN                                                | REQ EN       | MP BMH       | MP BML       | MP BMT                                              | SET<br>BOPEN |
| 6F | PBSA_XRBS106 (b8-b15)                         |            |                                                       |              |              |              |                                                     |              |
|    | CUDG EN                                       | BSA LOOP   | REQ SET<br>END                                        | MY<br>GRANT0 | MY<br>GRANT1 | MY<br>GRANT2 | MY<br>GRANT3                                        | MY<br>GRANT4 |



|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 70 | PBSA XRBS020 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 71 | PBSA XRBS020 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 72 | PBSA XRBS020 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 73 | PBSA XRBS020 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 74 | PBSA XRBS021 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 75 | PBSA XRBS021 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND           |   |   |   |   |   |   |   |
| 76 | PBSA XRBS021 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND           |   |   |   |   |   |   |   |
| 77 | PBSA XRBS021 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 78 | PBSA XRBS120 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 79 | PBSA XRBS120 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 7A | PBSA XRBS120 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 7B | PBSA XRBS120 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 7C | PBSA XRBS121 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 7D | PBSA XRBS121 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 7E | PBSA XRBS121 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 7F | PBSA XRBS121 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail  
(7) Byte28=88, Byte42=22

|                         |                                             |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|-------------------------|---------------------------------------------|--------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------|-------------------------------------------------|----------------------------------------|-------------------------------------------------|
| 7) Byte28=88, Byte42=22 |                                             |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | 0                                           | 1                              | 2                                               | 3                                               | 4                              | 5                                               | 6                                      | 7                                               |
| 40                      | Error Code (b00-b07)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCP Control Module Error Code               |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 41                      | Error Code (b08-b15)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCP Control Module Error Code               |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 42                      | SubCode 2                                   |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | 0x22                                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 43                      | DMA path                                    |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | 00: CHP-CACHE<br>01: SCP-CACHE              |                                |                                                 |                                                 | SCP path#(03)                  |                                                 |                                        |                                                 |
| 44                      | SCP Function Code                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCP Control Module Function Code            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 45                      | Sense Key                                   |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCSI Sense Key                              |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 46                      | Sense Code (b00-b07)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCSI Sense Code                             |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 47                      | Sense Code (b08-b15)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCSI Sense Code Qualifier                   |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 48                      | SCP ISTAT :: Interrupt Status               |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | Abort<br>Operation                          | Software<br>reset              | Signal<br>process                               | Semaphore                                       | Connected                      | Interrupt<br>on the Fly                         | SCSI<br>Interrupt<br>pending           | DMA<br>interrupt<br>pending                     |
| 49                      | SCP DSTAT :: DMA Status                     |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | DMA<br>FIFO<br>empty                        | Master<br>Data Parity<br>Error | Bus Fault                                       | Aborted                                         | Single step<br>interrupt       | SCRIPTS<br>interrupt<br>instruction<br>received | (Reserved)                             | Illegal<br>instruction                          |
| 4A                      | SCP SIST0 :: SCSI Interrupt Status 0        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | SCSI Phase<br>Mismatch                      | Function<br>Complete           | Selected                                        | Reselected                                      | SCSI Gross<br>Error            | Unexpected<br>Disconnect                        | SCSI Reset<br>Condition                | SCSI Parity<br>Error                            |
| 4B                      | SCP SIST1 :: SCSI Interrupt Status 1        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | (Reserved)                                  | (Reserved)                     | (Reserved)                                      | (Reserved)                                      | (Reserved)                     | Selection or<br>Reselection<br>Time-out         | General<br>Purpose<br>Timer<br>Expired | Handshake<br>to<br>Handshake<br>timeExpire<br>d |
| 4C                      | SCP STATUS                                  |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | Detected<br>Parity<br>Error (from<br>Slave) | Singled<br>System<br>Error     | Received<br>Master<br>Abort<br>(from<br>Master) | Received<br>Target<br>Abort<br>(from<br>Master) | Reserved<br>(Not<br>Supported) | DESEL<br>timing 1                               | DESEL<br>timing 0                      | Data Parity<br>Reported                         |
| 4D                      | SCP DBC (b00-b07)                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | DMA Byte Counter                            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 4E                      | SCP DBC (b08-b15)                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | DMA Byte Counter                            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 4F                      | SCP DBC (b16-b23)                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|                         | DMA Byte Counter                            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |

|    | 0                                              | 1               | 2                | 3                   | 4               | 5                      | 6                   | 7                |
|----|------------------------------------------------|-----------------|------------------|---------------------|-----------------|------------------------|---------------------|------------------|
| 50 | PBA XRPBA03 (b24-b31)                          |                 |                  |                     |                 |                        |                     |                  |
|    | (Not used)                                     | (Not used)      | (Not used)       | (Not used)          | SCP#3 INT       | SCP#2 INT              | SCP#1 INT           | SCP#0 INT        |
| 51 | PBA XRPBA00 (b24-b31)                          |                 |                  |                     |                 |                        |                     |                  |
|    | DEV SEL (0x00-0x03: SCP#, 0x04-0xFF: Not used) |                 |                  |                     |                 |                        |                     |                  |
| 52 | PBA XRPBA6A (b00-b07)                          |                 |                  |                     |                 |                        |                     |                  |
|    | XFR END                                        | (Not used)      | (Not used)       | (Not used)          | (Not used)      | (Not used)             | (Not used)          | (Not used)       |
| 53 | PBA XRPBA6A (b08-b15)                          |                 |                  |                     |                 |                        |                     |                  |
|    | PCI INT                                        | CHK2A error     | CHK2B error      | CHK2C error         | CHK2D error     | STATUS error           | STATUS warning      | (Not used)       |
| 54 | PBSA XRBS000 (b16-b23)                         |                 |                  |                     |                 |                        |                     |                  |
|    | (Not used)                                     | (Not used)      | ABT EN           | REQ EN              | MP BMH          | MP BML                 | MP BMT              | SET BOPEN        |
| 55 | PBSA XRBS006 (b16-b23)                         |                 |                  |                     |                 |                        |                     |                  |
|    | Busy                                           | (Not used)      | (Not used)       | EX. ABTEN           | MY. ABTEN       | (Not used)             | MPRST20             | MPRST21          |
| 56 | PBSA XRBS100 (b16-b23)                         |                 |                  |                     |                 |                        |                     |                  |
|    | (Not used)                                     | (Not used)      | ABT EN           | REQ EN              | MP BMH          | MP BML                 | MP BMT              | SET BOPEN        |
| 57 | PBSA XRBS106 (b16-b23)                         |                 |                  |                     |                 |                        |                     |                  |
|    | Busy                                           | (Not used)      | (Not used)       | EX. ABTEN           | MY. ABTEN       | (Not used)             | MPRST20             | MPRST21          |
| 58 | PBSA XRBS027 (b00-b07)                         |                 |                  |                     |                 |                        |                     |                  |
|    | BBF DATA PERR0                                 | BBF DATA PERR1  | BBF DATA PERR2   | BBF DATA PERR3      | (Not used)      | FBS ADR/ FBS CMD error | BBF Pointer PERR    | (Not used)       |
| 59 | PBSA XRBS027 (b08-b15)                         |                 |                  |                     |                 |                        |                     |                  |
|    | (Reserved)                                     |                 |                  |                     |                 |                        |                     |                  |
| 5A | PBSA XRBS027 (b16-b23)                         |                 |                  |                     |                 |                        |                     |                  |
|    | FBUS TIME OUT                                  | FBUS TIMER PERR | PBF Pointer PERR | FBF INPUT DATA PERR | other BSA CHK2C | other BSA CHK2D        | MASTER Lost Execute | Path Quiet ERROR |
| 5B | PBSA XRBS027 (b24-b31)                         |                 |                  |                     |                 |                        |                     |                  |
|    | (Not used)                                     | (Not used)      | (Not used)       | (Not used)          | (Not used)      | (Not used)             | (Not used)          | Invalid Command  |
| 5C | PBSA XRBS127 (b00-b07)                         |                 |                  |                     |                 |                        |                     |                  |
|    | BBF DATA PERR0                                 | BBF DATA PERR1  | BBF DATA PERR2   | BBF DATA PERR3      | (Not used)      | FBS ADR/ FBS CMD error | BBF Pointer PERR    | (Not used)       |
| 5D | PBSA XRBS127 (b08-b15)                         |                 |                  |                     |                 |                        |                     |                  |
|    | (Reserved)                                     |                 |                  |                     |                 |                        |                     |                  |
| 5E | PBSA XRBS127 (b16-b23)                         |                 |                  |                     |                 |                        |                     |                  |
|    | FBUS TIME OUT                                  | FBUS TIMER PERR | PBF Pointer PERR | FBF INPUT DATA PERR | other BSA CHK2C | other BSA CHK2D        | MASTER Lost Execute | Path Quiet ERROR |
| 5F | PBSA XRBS127 (b24-b31)                         |                 |                  |                     |                 |                        |                     |                  |
|    | (Not used)                                     | (Not used)      | (Not used)       | (Not used)          | (Not used)      | (Not used)             | (Not used)          | Invalid Command  |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 60 | PBSA XRBS020 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 61 | PBSA XRBS020 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 62 | PBSA XRBS020 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 63 | PBSA XRBS020 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 64 | PBSA XRBS021 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 65 | PBSA XRBS021 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 66 | PBSA XRBS021 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 67 | PBSA XRBS021 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 68 | PBSA XRBS022 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 69 | PBSA XRBS022 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 6A | PBSA XRBS022 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 6B | PBSA XRBS022 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 6C | PBSA XRBS023 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 6D | PBSA XRBS023 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6E | PBSA XRBS023 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6F | PBSA XRBS023 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 70 | PBSA XRBS120 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 71 | PBSA XRBS120 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 72 | PBSA XRBS120 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 73 | PBSA XRBS120 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 74 | PBSA XRBS121 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 75 | PBSA XRBS121 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 76 | PBSA XRBS121 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 77 | PBSA XRBS121 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 78 | PBSA XRBS122 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 79 | PBSA XRBS122 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 7A | PBSA XRBS122 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 7B | PBSA XRBS122 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 7C | PBSA XRBS123 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 7D | PBSA XRBS123 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7E | PBSA XRBS123 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7F | PBSA XRBS123 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(8) Byte28=88, Byte42=23

|    |                                             |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|----|---------------------------------------------|--------------------------------|-------------------------------------------------|-------------------------------------------------|--------------------------------|-------------------------------------------------|----------------------------------------|-------------------------------------------------|
|    | 0                                           | 1                              | 2                                               | 3                                               | 4                              | 5                                               | 6                                      | 7                                               |
| 40 | Error Code (b00-b07)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCP Control Module Error Code               |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 41 | Error Code (b08-b15)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCP Control Module Error Code               |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 42 | SubCode 2                                   |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | 0x23                                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 43 | DMA path                                    |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | 00: CHP-CACHE<br>01: SCP-CACHE              |                                |                                                 |                                                 | SCP path#(03)                  |                                                 |                                        |                                                 |
| 44 | SCP Function Code                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCP Control Module Function Code            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 45 | Sense Key                                   |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCSI Sense Key                              |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 46 | Sense Code (b00-b07)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCSI Sense Code                             |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 47 | Sense Code (b08-b15)                        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCSI Sense Code Qualifier                   |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 48 | SCP ISTAT :: Interrupt Status               |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | Abort<br>Operation                          | Software<br>reset              | Signal<br>process                               | Semaphore                                       | Connected                      | Interrupt<br>on the Fly                         | SCSI<br>Interrupt<br>pending           | DMA<br>interrupt<br>pending                     |
| 49 | SCP DSTAT :: DMA Status                     |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | DMA<br>FIFO<br>empty                        | Master<br>Data Parity<br>Error | Bus Fault                                       | Aborted                                         | Single step<br>interrupt       | SCRIPTS<br>interrupt<br>instruction<br>received | (Reserved)                             | Illegal<br>instruction                          |
| 4A | SCP SIST0 :: SCSI Interrupt Status 0        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | SCSI Phase<br>Mismatch                      | Function<br>Complete           | Selected                                        | Reselected                                      | SCSI Gross<br>Error            | Unexpected<br>Disconnect                        | SCSI Reset<br>Condition                | SCSI Parity<br>Error                            |
| 4B | SCP SIST1 :: SCSI Interrupt Status 1        |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | (Reserved)                                  | (Reserved)                     | (Reserved)                                      | (Reserved)                                      | (Reserved)                     | Selection or<br>Reselection<br>Time-out         | General<br>Purpose<br>Timer<br>Expired | Handshake<br>to<br>Handshake<br>timeExpire<br>d |
| 4C | SCP STATUS                                  |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | Detected<br>Parity<br>Error (from<br>Slave) | Singled<br>System<br>Error     | Received<br>Master<br>Abort<br>(from<br>Master) | Received<br>Target<br>Abort<br>(from<br>Master) | Reserved<br>(Not<br>Supported) | DESEL<br>timing 1                               | DESEL<br>timing 0                      | Data Parity<br>Reported                         |
| 4D | SCP DBC (b00-b07)                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | DMA Byte Counter                            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 4E | SCP DBC (b08-b15)                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | DMA Byte Counter                            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
| 4F | SCP DBC (b16-b23)                           |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |
|    | DMA Byte Counter                            |                                |                                                 |                                                 |                                |                                                 |                                        |                                                 |

|    | 0                                              | 1                                  | 2                          | 3                        | 4                           | 5                      | 6                 | 7                                |
|----|------------------------------------------------|------------------------------------|----------------------------|--------------------------|-----------------------------|------------------------|-------------------|----------------------------------|
| 50 | PBA XRPBA03(b24-b31)                           |                                    |                            |                          |                             |                        |                   |                                  |
|    | (Not used)                                     | (Not used)                         | (Not used)                 | (Not used)               | SCP#3 INT                   | SCP#2 INT              | SCP#1 INT         | SCP#0 INT                        |
| 51 | PBA XRPBA00(b24-b31)                           |                                    |                            |                          |                             |                        |                   |                                  |
|    | DEV SEL (0x00-0x03: SCP#, 0x04-0xFF: Not used) |                                    |                            |                          |                             |                        |                   |                                  |
| 52 | PBA XRPBA6A (b00-b07)                          |                                    |                            |                          |                             |                        |                   |                                  |
|    | XFR END                                        | (Not used)                         | (Not used)                 | (Not used)               | (Not used)                  | (Not used)             | (Not used)        | (Not used)                       |
| 53 | PBA XRPBA6A (b08-b15)                          |                                    |                            |                          |                             |                        |                   |                                  |
|    | PCI INT                                        | CHK2A<br>error                     | CHK2B<br>error             | CHK2C<br>error           | CHK2D<br>error              | STATUS<br>error        | STATUS<br>warning | (Not used)                       |
| 54 | PBSA XRBS000 (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | (Not used)                                     | (Not used)                         | ABT EN                     | REQ EN                   | MP BMH                      | MP BML                 | MP BMT            | SET<br>BOPEN                     |
| 55 | PBSA XRBS006 (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | Busy                                           | (Not used)                         | (Not used)                 | EX.<br>ABTEN             | MY.<br>ABTEN                | (Not used)             | MPRST20           | MPRST21                          |
| 56 | PBSA XRBS100 (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | (Not used)                                     | (Not used)                         | ABT EN                     | REQ EN                   | MP BMH                      | MP BML                 | MP BMT            | SET<br>BOPEN                     |
| 57 | PBSA XRBS106 (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | Busy                                           | (Not used)                         | (Not used)                 | EX.<br>ABTEN             | MY.<br>ABTEN                | (Not used)             | MPRST20           | MPRST21                          |
| 58 | PBSA XRBS009 (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | ABT SEQ<br>PERR                                | ABT<br>LiveIns<br>Counter<br>PERR  | ABT Time<br>Over           | ABT Timer<br>PERR        | ABT GEN<br>GNT Code<br>PERR | (Not used)             | (Not used)        | (Not used)                       |
| 59 | PBSA XRBS009 (b24-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | REQ SEQ<br>PERR                                | REQ<br>Receive<br>GNT Code<br>PERR | REQ GEN<br>Exepath<br>PERR | REQ<br>Protocol<br>error | REQ<br>Count Over           | REQ<br>Counter<br>PERR | R/W SEQ<br>PERR   | R/W<br>Exepath<br>Decode<br>PERR |
| 5A | PBSA XRBS00A (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | FBUS<br>OPEN0                                  | FBUS<br>OPEN1                      | FBUS<br>OPEN2              | FBUS<br>OPEN0,1          | FBUS<br>OPEN1,2             | FBUS<br>OPEN2,3        | (Not used)        | (Not used)                       |
| 5B | PBSA XRBS00B (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | LiveIns0                                       | LiveIns1                           | LiveIns2                   | LiveIns 0,1              | LiveIns 1,2                 | LiveIns 2,3            | (Not used)        | (Not used)                       |
| 5C | PBSA XRBS109 (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | ABT SEQ<br>PERR                                | ABT<br>LiveIns<br>Counter<br>PERR  | ABT Time<br>Over           | ABT Timer<br>PERR        | ABT GEN<br>GNT Code<br>PERR | (Not used)             | (Not used)        | (Not used)                       |
| 5D | PBSA XRBS 109 (b24-b31)                        |                                    |                            |                          |                             |                        |                   |                                  |
|    | REQ SEQ<br>PERR                                | REQ<br>Receive<br>GNT Code<br>PERR | REQ GEN<br>Exepath<br>PERR | REQ<br>Protocol<br>error | REQ<br>Count Over           | REQ<br>Counter<br>PERR | R/W SEQ<br>PERR   | R/W<br>Exepath<br>Decode<br>PERR |
| 5E | PBSA XRBS10A (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | FBUS<br>OPEN0                                  | FBUS<br>OPEN1                      | FBUS<br>OPEN2              | FBUS<br>OPEN0,1          | FBUS<br>OPEN1,2             | FBUS<br>OPEN2,3        | (Not used)        | (Not used)                       |
| 5F | PBSA XRBS10B (b16-b23)                         |                                    |                            |                          |                             |                        |                   |                                  |
|    | LiveIns0                                       | LiveIns1                           | LiveIns2                   | LiveIns 0,1              | LiveIns 1,2                 | LiveIns 2,3            | (Not used)        | (Not used)                       |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 60 | PBSA XRBS020 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 61 | PBSA XRBS020 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 62 | PBSA XRBS020 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 63 | PBSA XRBS020 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 64 | PBSA XRBS021 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 65 | PBSA XRBS021 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 66 | PBSA XRBS021 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 67 | PBSA XRBS021 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 68 | PBSA XRBS022 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 69 | PBSA XRBS022 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 6A | PBSA XRBS022 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 6B | PBSA XRBS022 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 6C | PBSA XRBS023 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 6D | PBSA XRBS023 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6E | PBSA XRBS023 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6F | PBSA XRBS023 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |



|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 70 | PBSA XRBS120 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 71 | PBSA XRBS120 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 72 | PBSA XRBS120 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 73 | PBSA XRBS120 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 74 | PBSA XRBS121 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 75 | PBSA XRBS121 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 76 | PBSA XRBS121 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 77 | PBSA XRBS121 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 78 | PBSA XRBS122 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 79 | PBSA XRBS122 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 7A | PBSA XRBS122 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 7B | PBSA XRBS122 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 7C | PBSA XRBS123 (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 7D | PBSA XRBS123 (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7E | PBSA XRBS123 (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7F | PBSA XRBS123 (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(9) Byte28=88, Byte42=30

|                         |                                  |                |                |                 |                      |                      |                      |                      |
|-------------------------|----------------------------------|----------------|----------------|-----------------|----------------------|----------------------|----------------------|----------------------|
| 7) Byte28-33, Byte42-50 |                                  |                |                |                 |                      |                      |                      |                      |
|                         | 0                                | 1              | 2              | 3               | 4                    | 5                    | 6                    | 7                    |
| 40                      | Error Code (b00-b07)             |                |                |                 |                      |                      |                      |                      |
|                         | SCP Control Module Error Code    |                |                |                 |                      |                      |                      |                      |
| 41                      | Error Code (b08-b15)             |                |                |                 |                      |                      |                      |                      |
|                         | SCP Control Module Error Code    |                |                |                 |                      |                      |                      |                      |
| 42                      | SubCode 2                        |                |                |                 |                      |                      |                      |                      |
|                         | 0x30                             |                |                |                 |                      |                      |                      |                      |
| 43                      | DMA path                         |                |                |                 |                      |                      |                      |                      |
|                         | 00: CHP-CACHE                    |                |                |                 | SCP path#(03)        |                      |                      |                      |
|                         | 01: SCP-CACHE                    |                |                |                 |                      |                      |                      |                      |
| 44                      | SCP Function Code                |                |                |                 |                      |                      |                      |                      |
|                         | SCP Control Module Function Code |                |                |                 |                      |                      |                      |                      |
| 45                      | Sense Key                        |                |                |                 |                      |                      |                      |                      |
|                         | SCSI Sense Key                   |                |                |                 |                      |                      |                      |                      |
| 46                      | Sense Code (b00-b07)             |                |                |                 |                      |                      |                      |                      |
|                         | SCSI Sense Code                  |                |                |                 |                      |                      |                      |                      |
| 47                      | Sense Code (b08-b15)             |                |                |                 |                      |                      |                      |                      |
|                         | SCSI Sense Code Qualifier        |                |                |                 |                      |                      |                      |                      |
| 48                      | PBA XRPBA06 (b24-b31)            |                |                |                 |                      |                      |                      |                      |
|                         | (Not used)                       | (Not used)     | (Not used)     | (Not used)      | SCP#3<br>Path Lock   | SCP#2<br>Path Lock   | SCP#1<br>Path Lock   | SCP#0<br>Path Lock   |
| 49                      | PBA XRPBA07(b24-b31)             |                |                |                 |                      |                      |                      |                      |
|                         | (Not used)                       | (Not used)     | (Not used)     | (Not used)      | SCP#3<br>Lock Status | SCP#2<br>Lock Status | SCP#1<br>Lock Status | SCP#0<br>Lock Status |
| 4A                      | PBA XRPBA2C (b00-b07)            |                |                |                 |                      |                      |                      |                      |
|                         | XFR END                          | (Not used)     | (Not used)     | (Not used)      | (Not used)           | (Not used)           | (Not used)           | (Not used)           |
| 4B                      | PBA XRPBA2C (b08-b15)            |                |                |                 |                      |                      |                      |                      |
|                         | (Not used)                       | CHK2A<br>error | CHK2B<br>error | CHK2C<br>error  | CHK2D<br>error       | STATUS<br>error      | STATUS<br>warning    | (Not used)           |
| 4C                      | PBA XRPBA2D (b00-b07)            |                |                |                 |                      |                      |                      |                      |
|                         | (Not used)                       | (Not used)     | (Not used)     | SBL CNT<br>PERR | DT OUT<br>PERR       | (Not used)           | (Not used)           | (Not used)           |
| 4D                      | Reserve                          |                |                |                 |                      |                      |                      |                      |
|                         | (Reserved)                       |                |                |                 |                      |                      |                      |                      |
| 4E                      | PBA XRPBA24 (b24-b31)            |                |                |                 |                      |                      |                      |                      |
|                         | FBS ADR00                        |                |                |                 |                      |                      |                      |                      |
| 4F                      | PBA XRPBA26 (b24-b31)            |                |                |                 |                      |                      |                      |                      |
|                         | FBS ADR10                        |                |                |                 |                      |                      |                      |                      |

|    | 0                      | 1          | 2          | 3         | 4         | 5            | 6       | 7         |
|----|------------------------|------------|------------|-----------|-----------|--------------|---------|-----------|
| 50 | PBSA XRBS000 (b16-b23) |            |            |           |           |              |         |           |
|    | (Not used)             | (Not used) | ABT EN     | REQ EN    | MP BMH    | MP BML       | MP BMT  | SET BOPEN |
| 51 | PBSA XRBS006 (b16-b23) |            |            |           |           |              |         |           |
|    | Busy                   | (Not used) | (Not used) | EX. ABTEN | MY. ABTEN | (Not used)   | MPRST20 | MPRST21   |
| 52 | PBSA XRBS100 (b16-b23) |            |            |           |           |              |         |           |
|    | (Not used)             | (Not used) | ABT EN     | REQ EN    | MP BMH    | MP BML       | MP BMT  | SET BOPEN |
| 53 | PBSA XRBS106 (b16-b23) |            |            |           |           |              |         |           |
|    | Busy                   | (Not used) | (Not used) | EX. ABTEN | MY. ABTEN | (Not used)   | MPRST20 | MPRST21   |
| 54 | PBA XRPBA25 (b00-b07)  |            |            |           |           |              |         |           |
|    | FBS ADR01              |            |            |           |           |              |         |           |
| 55 | PBA XRPBA25 (b08-b15)  |            |            |           |           |              |         |           |
|    | FBS ADR02              |            |            |           |           |              |         |           |
| 56 | PBA XRPBA25 (b16-b23)  |            |            |           |           |              |         |           |
|    | FBS ADR03              |            |            |           |           |              |         |           |
| 57 | PBA XRPBA25 (b24-b31)  |            |            |           |           |              |         |           |
|    | FBS ADR04              |            |            |           |           |              |         |           |
| 58 | PBA XRPBA27 (b00-b07)  |            |            |           |           |              |         |           |
|    | FBS ADR11              |            |            |           |           |              |         |           |
| 59 | PBA XRPBA27 (b08-b15)  |            |            |           |           |              |         |           |
|    | FBS ADR12              |            |            |           |           |              |         |           |
| 5A | PBA XRPBA27 (b16-b23)  |            |            |           |           |              |         |           |
|    | FBS ADR13              |            |            |           |           |              |         |           |
| 5B | PBA XRPBA27 (b24-b31)  |            |            |           |           |              |         |           |
|    | FBS ADR14              |            |            |           |           |              |         |           |
| 5C | PBA XRPBA28 (b00-b07)  |            |            |           |           |              |         |           |
|    | (Reserved)             |            |            |           |           |              |         |           |
| 5D | PBA XRPBA28 (b08-b15)  |            |            |           |           |              |         |           |
|    | 0                      | 1          | PLRC       | SP MODE   | DIAG MODE | TRF CNT(MSB) |         |           |
| 5E | PBA XRPBA28 (b16-b23)  |            |            |           |           |              |         |           |
|    | TRF CNT(LSB)           |            |            |           |           |              | 0       | 1         |
| 5F | PBA XRPBA28 (b24-b31)  |            |            |           |           |              |         |           |
|    | 1                      | BM         |            |           | TM        |              |         |           |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 60 | PBSA XRBS00C (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 61 | PBSA XRBS00C (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 62 | PBSA XRBS00C (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 63 | PBSA XRBS00C (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 64 | PBSA XRBS00D (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 65 | PBSA XRBS00D (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 66 | PBSA XRBS00D (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 67 | PBSA XRBS00D (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 68 | PBSA XRBS00E (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 69 | PBSA XRBS00E (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 6A | PBSA XRBS00E (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 6B | PBSA XRBS00E (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 6C | PBSA XRBS00F (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 6D | PBSA XRBS00F (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6E | PBSA XRBS00F (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6F | PBSA XRBS00F (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 70 | PBSA XRBS10C (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 71 | PBSA XRBS10C (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 72 | PBSA XRBS10C (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 73 | PBSA XRBS10C (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 74 | PBSA XRBS10D (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 75 | PBSA XRBS10D (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 76 | PBSA XRBS10D (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 77 | PBSA XRBS10D (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 78 | PBSA XRBS10E (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 79 | PBSA XRBS10E (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 7A | PBSA XRBS10E (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 7B | PBSA XRBS10E (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 7C | PBSA XRBS10F (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 7D | PBSA XRBS10F (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7E | PBSA XRBS10F (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7F | PBSA XRBS10F (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(10) Byte28=88, Byte42=31

|                          |                                  |                |                |                |                      |                      |                      |                      |
|--------------------------|----------------------------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------------------|
| 10) Byte28-33, Byte42-51 |                                  |                |                |                |                      |                      |                      |                      |
|                          | 0                                | 1              | 2              | 3              | 4                    | 5                    | 6                    | 7                    |
| 40                       | Error Code (b00-b07)             |                |                |                |                      |                      |                      |                      |
|                          | SCP Control Module Error Code    |                |                |                |                      |                      |                      |                      |
| 41                       | Error Code (b08-b15)             |                |                |                |                      |                      |                      |                      |
|                          | SCP Control Module Error Code    |                |                |                |                      |                      |                      |                      |
| 42                       | SubCode 2                        |                |                |                |                      |                      |                      |                      |
|                          | 0x31                             |                |                |                |                      |                      |                      |                      |
| 43                       | DMA path                         |                |                |                |                      |                      |                      |                      |
|                          | 00: CHP-CACHE<br>01: SCP-CACHE   |                |                |                | SCP path#(03)        |                      |                      |                      |
| 44                       | SCP Function Code                |                |                |                |                      |                      |                      |                      |
|                          | SCP Control Module Function Code |                |                |                |                      |                      |                      |                      |
| 45                       | Sense Key                        |                |                |                |                      |                      |                      |                      |
|                          | SCSI Sense Key                   |                |                |                |                      |                      |                      |                      |
| 46                       | Sense Code (b00-b07)             |                |                |                |                      |                      |                      |                      |
|                          | SCSI Sense Code                  |                |                |                |                      |                      |                      |                      |
| 47                       | Sense Code (b08-b15)             |                |                |                |                      |                      |                      |                      |
|                          | SCSI Sense Code Qualifier        |                |                |                |                      |                      |                      |                      |
| 48                       | PBA_XRPBA06 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | (Not used)                       | (Not used)     | (Not used)     | (Not used)     | SCP#3<br>Path Lock   | SCP#2<br>Path Lock   | SCP#2<br>Path Lock   | SCP#1<br>Path Lock   |
| 49                       | PBA_XRPBA07 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | (Not used)                       | (Not used)     | (Not used)     | (Not used)     | SCP#3<br>Lock Status | SCP#2<br>Lock Status | SCP#2<br>Lock Status | SCP#1<br>Lock Status |
| 4A                       | PBA_XRPBA2C (b00-b07)            |                |                |                |                      |                      |                      |                      |
|                          | XFR END                          | (Not used)     | (Not used)     | (Not used)     | (Not used)           | (Not used)           | (Not used)           | (Not used)           |
| 4B                       | PBA_XRPBA2C (b08-b15)            |                |                |                |                      |                      |                      |                      |
|                          | (Not used)                       | CHK2A<br>error | CHK2B<br>error | CHK2C<br>error | CHK2D<br>error       | STATUS<br>error      | STATUS<br>warning    | (Not used)           |
| 4C                       | Reserve                          |                |                |                |                      |                      |                      |                      |
| 4D                       | Reserve                          |                |                |                |                      |                      |                      |                      |
| 4E                       | PBA_XRPBA24 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | FBS ADR00                        |                |                |                |                      |                      |                      |                      |
| 4F                       | PBA_XRPBA26 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | FBS ADR10                        |                |                |                |                      |                      |                      |                      |

|    | 0                                             | 1               | 2                                                                           | 3                   | 4               | 5                      | 6                                                   | 7                |
|----|-----------------------------------------------|-----------------|-----------------------------------------------------------------------------|---------------------|-----------------|------------------------|-----------------------------------------------------|------------------|
| 50 | PBSA XRBS000 (b16-b23)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | (Not used)                                    | (Not used)      | ABT EN                                                                      | REQ EN              | MP BMH          | MP BML                 | MP BMT                                              | SET BOPEN        |
| 51 | PBSA XRBS006 (b16-b23)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | Busy                                          | (Not used)      | (Not used)                                                                  | EX. ABTEN           | MY. ABTEN       | (Not used)             | MPRST20                                             | MPRST21          |
| 52 | PBSA XRBS100 (b16-b23)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | (Not used)                                    | (Not used)      | ABT EN                                                                      | REQ EN              | MP BMH          | MP BML                 | MP BMT                                              | SET BOPEN        |
| 53 | PBSA XRBS106 (b16-b23)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | Busy                                          | (Not used)      | (Not used)                                                                  | EX. ABTEN           | MY. ABTEN       | (Not used)             | MPRST20                                             | MPRST21          |
| 54 | PBSA XRBS013 (b00-b07)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | BBF DATA PERR0                                | BBF DATA PERR1  | BBF DATA PERR2                                                              | BBF DATA PERR3      | (Not used)      | FBS ADR/ FBS CMD error | BBF pointer PERR                                    | (Not used)       |
| 55 | PBSA XRBS013 (b16-b23)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | FBUS TIME OUT                                 | FBUS TIMER PERR | PBF pointer PERR                                                            | FBF input DATA PERR | other BSA CHK2C | other BSA CHK2D        | MASTER Lost Execute                                 | Path Quiet error |
| 56 | PBSA XRBS113 (b00-b07)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | BBF DATA PERR0                                | BBF DATA PERR1  | BBF DATA PERR2                                                              | BBF DATA PERR3      | (Not used)      | FBS ADR/ FBS CMD error | BBF pointer PERR                                    | (Not used)       |
| 57 | PBSA XRBS113 (b16-b23)                        |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | FBUS TIME OUT                                 | FBUS TIMER PERR | PBF pointer PERR                                                            | FBF input DATA PERR | other BSA CHK2C | other BSA CHK2D        | MASTER Lost Execute                                 | Path Quiet error |
| 58 | PBA XRPBA2B (b00-b07)                         |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | 00: XFC INIT<br>10: XFC STOP<br>11: XFC START |                 | (Not used)                                                                  | (Not used)          | (Not used)      | (Not used)             | (Not used)                                          | (Not used)       |
| 59 | PBA XRPBA2B (b08-b15)                         |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | (Not used)                                    | (Not used)      | SCP#                                                                        |                     | (Not used)      | (Not used)             | 10: none<br>11: FBUS DATA                           |                  |
| 5A | PBA XRPBA2B (b16-b23)                         |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | (Not used)                                    | (Not used)      | Sub-Block format:<br>00: not AS400<br>01: AS400 format<br>10: CACHE I/O,TOD |                     | (Not used)      | (Not used)             | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |                  |
| 5B | PBA XRPBA2B (b24-b31)                         |                 |                                                                             |                     |                 |                        |                                                     |                  |
|    | DMA Sub-Block Counter                         |                 |                                                                             |                     |                 |                        |                                                     |                  |
| 5C | Reserve                                       |                 |                                                                             |                     |                 |                        |                                                     |                  |
| 5D | Reserve                                       |                 |                                                                             |                     |                 |                        |                                                     |                  |
| 5E | Reserve                                       |                 |                                                                             |                     |                 |                        |                                                     |                  |
| 5F | Reserve                                       |                 |                                                                             |                     |                 |                        |                                                     |                  |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 60 | PBSA XRBS00C (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 61 | PBSA XRBS00C (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 62 | PBSA XRBS00C (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 63 | PBSA XRBS00C (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 64 | PBSA XRBS00D (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 65 | PBSA XRBS00D (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 66 | PBSA XRBS00D (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 67 | PBSA XRBS00D (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 68 | PBSA XRBS00E (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 69 | PBSA XRBS00E (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 6A | PBSA XRBS00E (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 6B | PBSA XRBS00E (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 6C | PBSA XRBS00F (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 6D | PBSA XRBS00F (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6E | PBSA XRBS00F (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6F | PBSA XRBS00F (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |



|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 70 | PBSA XRBS10C (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR00             |   |   |   |   |   |   |   |
| 71 | PBSA XRBS10C (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 72 | PBSA XRBS10C (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 73 | PBSA XRBS10C (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 74 | PBSA XRBS10D (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 75 | PBSA XRBS10D (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 76 | PBSA XRBS10D (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 77 | PBSA XRBS10D (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 78 | PBSA XRBS10E (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 79 | PBSA XRBS10E (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 7A | PBSA XRBS10E (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 7B | PBSA XRBS10E (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 7C | PBSA XRBS10F (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 7D | PBSA XRBS10F (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7E | PBSA XRBS10F (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7F | PBSA XRBS10F (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(11) Byte28=88, Byte42=32

|                          |                                  |                |                |                |                      |                      |                      |                      |
|--------------------------|----------------------------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------------------|
| 17) Byte28-38, Byte42-52 |                                  |                |                |                |                      |                      |                      |                      |
|                          | 0                                | 1              | 2              | 3              | 4                    | 5                    | 6                    | 7                    |
| 40                       | Error Code (b00-b07)             |                |                |                |                      |                      |                      |                      |
|                          | SCP Control Module Error Code    |                |                |                |                      |                      |                      |                      |
| 41                       | Error Code (b08-b15)             |                |                |                |                      |                      |                      |                      |
|                          | SCP Control Module Error Code    |                |                |                |                      |                      |                      |                      |
| 42                       | SubCode 2                        |                |                |                |                      |                      |                      |                      |
|                          | 0x32                             |                |                |                |                      |                      |                      |                      |
| 43                       | DMA path                         |                |                |                |                      |                      |                      |                      |
|                          | 00: CHP-CAHCE                    |                |                |                | SCP path#(03)        |                      |                      |                      |
|                          | 01: SCP-CACHE                    |                |                |                |                      |                      |                      |                      |
| 44                       | SCP Function Code                |                |                |                |                      |                      |                      |                      |
|                          | SCP Control Module Function Code |                |                |                |                      |                      |                      |                      |
| 45                       | Sense Key                        |                |                |                |                      |                      |                      |                      |
|                          | SCSI Sense Key                   |                |                |                |                      |                      |                      |                      |
| 46                       | Sense Code (b00-b07)             |                |                |                |                      |                      |                      |                      |
|                          | SCSI Sense Code                  |                |                |                |                      |                      |                      |                      |
| 47                       | Sense Code (b08-b15)             |                |                |                |                      |                      |                      |                      |
|                          | SCSI Sense Code Qualifier        |                |                |                |                      |                      |                      |                      |
| 48                       | PBA XRPBA06 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | (Not used)                       | (Not used)     | (Not used)     | (Not used)     | SCP#3<br>Path Lock   | SCP#2<br>Path Lock   | SCP#1<br>Path Lock   | SCP#0<br>Path Lock   |
| 49                       | PBA XRPBA07 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | (Not used)                       | (Not used)     | (Not used)     | (Not used)     | SCP#3<br>Lock Status | SCP#2<br>Lock Status | SCP#1<br>Lock Status | SCP#0<br>Lock Status |
| 4A                       | PBA XRPBA2C (b00-b07)            |                |                |                |                      |                      |                      |                      |
|                          | XFR END                          | (Not used)     | (Not used)     | (Not used)     | (Not used)           | (Not used)           | (Not used)           | (Not used)           |
| 4B                       | PBA XRPBA2C (b08-b15)            |                |                |                |                      |                      |                      |                      |
|                          | (Not used)                       | CHK2A<br>error | CHK2B<br>error | CHK2C<br>error | CHK2D<br>error       | STATUS<br>error      | STATUS<br>warning    | (Not used)           |
| 4C                       | Reserve                          |                |                |                |                      |                      |                      |                      |
| 4D                       | Reserve                          |                |                |                |                      |                      |                      |                      |
| 4E                       | PBA XRPBA24 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | FBUS ADR00                       |                |                |                |                      |                      |                      |                      |
| 4F                       | PBA XRPBA26 (b24-b31)            |                |                |                |                      |                      |                      |                      |
|                          | FBUS ADR10                       |                |                |                |                      |                      |                      |                      |

|    | 0                                             | 1                         | 2                                                                     | 3                  | 4                          | 5                            | 6                                                   | 7                       |
|----|-----------------------------------------------|---------------------------|-----------------------------------------------------------------------|--------------------|----------------------------|------------------------------|-----------------------------------------------------|-------------------------|
| 50 | PBSA XRBS000 (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | (Not used)                                    | (Not used)                | ABT EN                                                                | REQ EN             | MP BMH                     | MP BML                       | MP BMT                                              | SET BOPEN               |
| 51 | PBSA XRBS006 (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | Busy                                          | (Not used)                | (Not used)                                                            | EX. ABTEN          | MY. ABTEN                  | (Not used)                   | MPRST20                                             | MPRST21                 |
| 52 | PBSA XRBS100 (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | (Not used)                                    | (Not used)                | ABT EN                                                                | REQ EN             | MP BMH                     | MP BML                       | MP BMT                                              | SET BOPEN               |
| 53 | PBSA XRBS106 (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | Busy                                          | (Not used)                | (Not used)                                                            | EX. ABTEN          | MY. ABTEN                  | (Not used)                   | MPRST20                                             | MPRST21                 |
| 54 | PBSA XRBS009 (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | ABT SEQ PERR                                  | ABT LiveIns counter PERR  | ABT time over                                                         | ABT timer PERR     | ABT GEN GNT code PERR      | (Not used)                   | (Not used)                                          | (Not used)              |
| 55 | PBSA XRBS009 (b24-b31)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | REQ SEQ PERR                                  | REQ receive GNT code PERR | REQ GEN exepath PERR                                                  | REQ protocol error | REQ arbitration count over | REQ arbitration counter PERR | R/W SEQ PERR                                        | R/W exepath decode PERR |
| 56 | PBSA XRBS00A (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | FBUS OPEN0                                    | FBUS OPEN1                | FBUS OPEN2                                                            | FBUS OPEN0,1       | FBUS OPEN1,2               | FBUS OPEN0,2                 | (Not used)                                          | (Not used)              |
| 57 | PBSA XRBS00B (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | LiveIns0                                      | LiveIns1                  | LiveIns2                                                              | LiveIns 0,1        | LiveIns 1,2                | LiveIns 0,2                  | (Not used)                                          | (Not used)              |
| 58 | PBSA XRBS109 (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | ABT SEQ PERR                                  | ABT LiveIns counter PERR  | ABT time over                                                         | ABT timer PERR     | ABT GEN GNT code PERR      | (Not used)                   | (Not used)                                          | (Not used)              |
| 59 | PBSA XRBS109 (b24-b31)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | REQ SEQ PERR                                  | REQ receive GNT code PERR | REQ GEN exepath PERR                                                  | REQ protocol error | REQ arbitration count over | REQ arbitration counter PERR | R/W SEQ PERR                                        | R/W exepath decode PERR |
| 5A | PBSA XRBS10A (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | FBUS OPEN0                                    | FBUS OPEN1                | FBUS OPEN2                                                            | FBUS OPEN0,1       | FBUS OPEN1,2               | FBUS OPEN0,2                 | (Not used)                                          | (Not used)              |
| 5B | PBSA XRBS10B (b16-b23)                        |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | LiveIns0                                      | LiveIns1                  | LiveIns2                                                              | LiveIns 0,1        | LiveIns 1,2                | LiveIns 0,2                  | (Not used)                                          | (Not used)              |
| 5C | PBA XRPBA2B(b00-b07)                          |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | 00: XFC INIT<br>10: XFC STOP<br>11: XFC START |                           | (Not used)                                                            | (Not used)         | (Not used)                 | (Not used)                   | (Not used)                                          | (Not used)              |
| 5D | PBA XRPBA2B(b08-b15)                          |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | (Not used)                                    | (Not used)                | SCP#                                                                  |                    | (Not used)                 | (Not used)                   | 10: none<br>11: FBUS DATA                           |                         |
| 5E | PBA XRPBA2B(b16-b23)                          |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | (Not used)                                    | (Not used)                | Sub-Block format:<br>00: not AS400<br>01: AS400<br>10: CACHE I/O, DOT |                    | (Not used)                 | (Not used)                   | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |                         |
| 5F | PBA XRPBA2B (b24-b31)                         |                           |                                                                       |                    |                            |                              |                                                     |                         |
|    | DMA Sub-Block Counter                         |                           |                                                                       |                    |                            |                              |                                                     |                         |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 60 | PBSA XRBS00C (b00-b07) |   |   |   |   |   |   |   |
|    | LASR ADR00             |   |   |   |   |   |   |   |
| 61 | PBSA XRBS00C (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR01             |   |   |   |   |   |   |   |
| 62 | PBSA XRBS00C (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR02             |   |   |   |   |   |   |   |
| 63 | PBSA XRBS00C (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR03             |   |   |   |   |   |   |   |
| 64 | PBSA XRBS00D (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR04             |   |   |   |   |   |   |   |
| 65 | PBSA XRBS00D (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 66 | PBSA XRBS00D (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 67 | PBSA XRBS00D (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 68 | PBSA XRBS00E (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 69 | PBSA XRBS00E (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 6A | PBSA XRBS00E (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 6B | PBSA XRBS00E (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 6C | PBSA XRBS00F (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 6D | PBSA XRBS00F (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6E | PBSA XRBS00F (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 6F | PBSA XRBS00F (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

|    | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|----|------------------------|---|---|---|---|---|---|---|
| 70 | PBSA XRBS10C (b00-b07) |   |   |   |   |   |   |   |
|    | LASR ADR00             |   |   |   |   |   |   |   |
| 71 | PBSA XRBS10C (b08-b15) |   |   |   |   |   |   |   |
|    | LASR ADR01             |   |   |   |   |   |   |   |
| 72 | PBSA XRBS10C (b16-b23) |   |   |   |   |   |   |   |
|    | LASR ADR02             |   |   |   |   |   |   |   |
| 73 | PBSA XRBS10C (b24-b31) |   |   |   |   |   |   |   |
|    | LASR ADR03             |   |   |   |   |   |   |   |
| 74 | PBSA XRBS10D (b00-b07) |   |   |   |   |   |   |   |
|    | LASR ADR04             |   |   |   |   |   |   |   |
| 75 | PBSA XRBS10D (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 76 | PBSA XRBS10D (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 77 | PBSA XRBS10D (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND0          |   |   |   |   |   |   |   |
| 78 | PBSA XRBS10E (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR10             |   |   |   |   |   |   |   |
| 79 | PBSA XRBS10E (b08-b15) |   |   |   |   |   |   |   |
|    | LAST ADR11             |   |   |   |   |   |   |   |
| 7A | PBSA XRBS10E (b16-b23) |   |   |   |   |   |   |   |
|    | LAST ADR12             |   |   |   |   |   |   |   |
| 7B | PBSA XRBS10E (b24-b31) |   |   |   |   |   |   |   |
|    | LAST ADR13             |   |   |   |   |   |   |   |
| 7C | PBSA XRBS10F (b00-b07) |   |   |   |   |   |   |   |
|    | LAST ADR14             |   |   |   |   |   |   |   |
| 7D | PBSA XRBS10F (b08-b15) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7E | PBSA XRBS10F (b16-b23) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |
| 7F | PBSA XRBS10F (b24-b31) |   |   |   |   |   |   |   |
|    | LAST COMMAND1          |   |   |   |   |   |   |   |

byte27=89, Byte10 Bit6=1(SCSI Interface CHA CHK2) Byte40-7F Detail

(12) Byte28=88, Byte42=40

|    |                                  |                       |                               |                       |                               |                    |            |              |
|----|----------------------------------|-----------------------|-------------------------------|-----------------------|-------------------------------|--------------------|------------|--------------|
|    | 0                                | 1                     | 2                             | 3                     | 4                             | 5                  | 6          | 7            |
| 40 | Error Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 41 | Error Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Error Code    |                       |                               |                       |                               |                    |            |              |
| 42 | SubCode 2                        |                       |                               |                       |                               |                    |            |              |
|    | 0x40                             |                       |                               |                       |                               |                    |            |              |
| 43 | DMA path                         |                       |                               |                       |                               |                    |            |              |
|    | 00: CHP-CACHE                    |                       |                               |                       | SCP path#(03)                 |                    |            |              |
|    | 01: SCP-CACHE                    |                       |                               |                       |                               |                    |            |              |
| 44 | SCP Function Code                |                       |                               |                       |                               |                    |            |              |
|    | SCP Control Module Function Code |                       |                               |                       |                               |                    |            |              |
| 45 | Sense Key                        |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Key                   |                       |                               |                       |                               |                    |            |              |
| 46 | Sense Code (b00-b07)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code                  |                       |                               |                       |                               |                    |            |              |
| 47 | Sense Code (b08-b15)             |                       |                               |                       |                               |                    |            |              |
|    | SCSI Sense Code Qualifier        |                       |                               |                       |                               |                    |            |              |
| 48 | Script Execute Status (b00-b07)  |                       |                               |                       |                               |                    |            |              |
|    | Script Function Code             |                       |                               |                       |                               |                    |            |              |
| 49 | Script Execute Status (b08-b15)  |                       |                               |                       |                               |                    |            |              |
|    | Script execute step              |                       |                               |                       |                               |                    |            |              |
| 4A | Script Execute Status (b16-b23)  |                       |                               |                       |                               |                    |            |              |
|    | Execute end                      | Execute               | Script Abort                  | Interrupt             | SCSI ATN asserted             | MSG 33byte over    | Reselected | DMA transfer |
| 4B | Script Execute Status (b24-b31)  |                       |                               |                       |                               |                    |            |              |
|    | TAG MSG received                 | Extended MSG received | Illegal Identify MSG received | Identify MSG received | Bus Device Reset MSG received | Other MSG received | (reserved) | (reserved)   |
| 4C | I-T-L-X (b00-b07)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI TAG Number                  |                       |                               |                       |                               |                    |            |              |
| 4D | I-T-L-X (b08-b15)                |                       |                               |                       |                               |                    |            |              |
|    | Logical Unit Number              |                       |                               |                       |                               |                    |            |              |
| 4E | I-T-L-X (b16-b23)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Target ID                   |                       |                               |                       |                               |                    |            |              |
| 4F | I-T-L-X (b24-b31)                |                       |                               |                       |                               |                    |            |              |
|    | SCSI Initiator ID                |                       |                               |                       |                               |                    |            |              |

|    | 0                                              | 1                        | 2                                   | 3                                   | 4                        | 5                                      | 6                             | 7                                  |
|----|------------------------------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|----------------------------------------|-------------------------------|------------------------------------|
| 50 | SCP ISTAT :: Interrupt Status                  |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Abort Operation                                | Software reset           | Signal process                      | Semaphore                           | Connected                | Interrupt on the Fly                   | SCSI Interrupt pending        | DMA interrupt pending              |
| 51 | SCP DSTAT :: DMA Status                        |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | DMA FIFO empty                                 | Master Data Parity Error | Bus Fault                           | Aborted                             | Single step interrupt    | SCRIPTS interrupt instruction received | (Reserved)                    | Illegal instruction                |
| 52 | SCP SIST0 :: SCSI Interrupt Status 0           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | SCSI Phase Mismatch                            | Function Complete        | Selected                            | Reselected                          | SCSI Gross Error         | Unexpected Disconnect                  | SCSI Reset Condition          | SCSI Parity Error                  |
| 53 | SCP SIST1 :: SCSI Interrupt Status 1           |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | (Reserved)                                     | (Reserved)               | (Reserved)                          | (Reserved)                          | (Reserved)               | Selection or Reselection Time-out      | General Purpose Timer Expired | Handshake to Handshake timeExpired |
| 54 | SCP DSP (b00-b07)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 55 | SCP DSP (b08-b15)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 56 | SCP DSP (b16-b23)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 57 | SCP DSP (b24-b31)<br>DMA SCRIPTS Pointer       |                          |                                     |                                     |                          |                                        |                               |                                    |
| 58 | SCP DSPS (b00-b07)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 59 | SCP DSPS (b08-b15)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5A | SCP DSPS (b16-b23)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5B | SCP DSPS (b24-b31)<br>DMA SCRIPTS Pointer Save |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5C | SCP STATUS                                     |                          |                                     |                                     |                          |                                        |                               |                                    |
|    | Detected Parity Error (from Slave)             | Singled System Error     | Received Master Abort (from Master) | Received Target Abort (from Master) | Reserved (Not Supported) | DESEL timing 1                         | DESEL timing 0                | Data Parity Reported               |
| 5D | SCP DBC (b00-b07)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5E | SCP DBC (b08-b15)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |
| 5F | SCP DBC (b16-b23)<br>DMA Byte Counter          |                          |                                     |                                     |                          |                                        |                               |                                    |

|    | 0                                                                 | 1                   | 2          | 3          | 4          | 5          | 6          | 7          |
|----|-------------------------------------------------------------------|---------------------|------------|------------|------------|------------|------------|------------|
| 60 | SCP Control return Code (b00-b07)                                 |                     |            |            |            |            |            |            |
|    | SCP Control Module return code                                    |                     |            |            |            |            |            |            |
| 61 | SCP Control return Code (b08-b15)                                 |                     |            |            |            |            |            |            |
|    | SCP Control Module return code                                    |                     |            |            |            |            |            |            |
| 62 | SCP Control return Code (b16-b23)                                 |                     |            |            |            |            |            |            |
|    | SCP Control Module return code                                    |                     |            |            |            |            |            |            |
| 63 | SCP Control return Code (b24-b31)                                 |                     |            |            |            |            |            |            |
|    | SCP Control Module return code                                    |                     |            |            |            |            |            |            |
| 64 | Resources Management Information : User Flag SCP#0                |                     |            |            |            |            |            |            |
|    | SCSI Resources using                                              | BSA Resources using | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) |
| 65 | Resources Management Information : User Flag SCP#1                |                     |            |            |            |            |            |            |
|    | SCSI Resources using                                              | BSA Resources using | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) |
| 66 | Resources Management Information : User Flag SCP#2                |                     |            |            |            |            |            |            |
|    | SCSI Resources using                                              | BSA Resources using | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) |
| 67 | Resources Management Information : User Flag SCP#3                |                     |            |            |            |            |            |            |
|    | SCSI Resources using                                              | BSA Resources using | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) | (Reserved) |
| 68 | Resources Management Information : SCSI resources table (b00-07)  |                     |            |            |            |            |            |            |
|    | SCSI resources user JCB address                                   |                     |            |            |            |            |            |            |
| 69 | Resources Management Information : SCSI resources table (b08-b15) |                     |            |            |            |            |            |            |
|    | SCSI resources user JCB address                                   |                     |            |            |            |            |            |            |
| 6A | Resources Management Information : SCSI resources table (b16-b23) |                     |            |            |            |            |            |            |
|    | SCSI resources user JCB address                                   |                     |            |            |            |            |            |            |
| 6B | Resources Management Information : SCSI resources table (b24-b31) |                     |            |            |            |            |            |            |
|    | SCSI resources user JCB address                                   |                     |            |            |            |            |            |            |
| 6C | Resources Management Information : BSA resources table (b00-07)   |                     |            |            |            |            |            |            |
|    | BSA resources user JCB address                                    |                     |            |            |            |            |            |            |
| 6D | Resources Management Information : BSA resources table (b08-b15)  |                     |            |            |            |            |            |            |
|    | BSA resources user JCB address                                    |                     |            |            |            |            |            |            |
| 6E | Resources Management Information : BSA resources table (b16-b23)  |                     |            |            |            |            |            |            |
|    | BSA resources user JCB address                                    |                     |            |            |            |            |            |            |
| 6F | Resources Management Information : BSA resources table (b24-b31)  |                     |            |            |            |            |            |            |
|    | BSA resources user JCB address                                    |                     |            |            |            |            |            |            |



|    | 0                                              | 1                                               | 2                                                      | 3                                               | 4                            | 5                              | 6                                                   | 7                              |
|----|------------------------------------------------|-------------------------------------------------|--------------------------------------------------------|-------------------------------------------------|------------------------------|--------------------------------|-----------------------------------------------------|--------------------------------|
| 70 | SCP Blockade :: SCP#0                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Reserved)                                     | (Reserved)                                      | (Reserved)                                             | (Reserved)                                      | (Reserved)                   | (Reserved)                     | Blockade                                            | Blockade transition            |
| 71 | SCP Blockade :: SCP#1                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Reserved)                                     | (Reserved)                                      | (Reserved)                                             | (Reserved)                                      | (Reserved)                   | (Reserved)                     | Blockade                                            | Blockade transition            |
| 72 | SCP Blockade :: SCP#2                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Reserved)                                     | (Reserved)                                      | (Reserved)                                             | (Reserved)                                      | (Reserved)                   | (Reserved)                     | Blockade                                            | Blockade transition            |
| 73 | SCP Blockade :: SCP#3                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Reserved)                                     | (Reserved)                                      | (Reserved)                                             | (Reserved)                                      | (Reserved)                   | (Reserved)                     | Blockade                                            | Blockade transition            |
| 74 | SCP SCNTL3 :: SCSI Control 3                   |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Reserved)                                     | Synchrono<br>us Clock<br>Conversion<br>Factor 2 | Synchrono<br>us Clock<br>Conversion<br>Factor 1        | Synchrono<br>us Clock<br>Conversion<br>Factor 0 | Enable<br>Wide SCSI          | Clock<br>Conversion<br>factor2 | Clock<br>Conversion<br>factor1                      | Clock<br>Conversion<br>factor0 |
| 75 | SCP SXFER :: SCSI Transfer                     |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | SCSI<br>Synchrono<br>us Transfer<br>Period 2   | SCSI<br>Synchrono<br>us Transfer<br>Period 1    | SCSI<br>Synchrono<br>us Transfer<br>Period 0           | Max SCSI<br>sync offset<br>4                    | Max SCSI<br>sync offset<br>3 | Max SCSI<br>sync offset<br>2   | Max SCSI<br>sync offset<br>1                        | Max SCSI<br>sync offset<br>0   |
| 76 | SCP SBCL :: SCSI Bus Control Lines             |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | SCSI REQ<br>/ status                           | SCSI ACK<br>/ status                            | SCSI BSY /<br>status                                   | SCSI SEL /<br>status                            | SCSI ATN<br>/ status         | SCSI MSG<br>/ status           | SCSI C/D /<br>status                                | SCSI I/O /<br>status           |
| 77 | SCP DCMD ::<br>DMA Command                     |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
| 78 | PBA XRPBA69 (b00-b07)                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | 00: XFC INIT<br>01: XFC STOP<br>02: XFC START  |                                                 | (Not used)                                             | (Not used)                                      | (Not used)                   | (Not used)                     | (Not used)                                          | (Not used)                     |
| 79 | PBA XRPBA69 (b08-b15)                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Not used)                                     | (Not used)                                      | (Not used)                                             | (Not used)                                      | (Not used)                   | (Not used)                     | 00: PCI device<br>01: PCI device(SKIP)              |                                |
| 7A | PBA XRPBA69 (b16-b23)                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | (Not used)                                     | (Not used)                                      | Sub-Block format:<br>00: not AS400<br>01: AS400 format |                                                 | (Not used)                   | (Not used)                     | 00: 2BUS mode<br>10: FBUS/L mode<br>11: FBUS/H mode |                                |
| 7B | PBA XRPBA69 (b24-b31)<br>DMA Sub-Block Counter |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
| 7C | PBA XRPBA6A (b00-b07)                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | XFR END                                        | (Not used)                                      | (Not used)                                             | (Not used)                                      | (Not used)                   | (Not used)                     | (Not used)                                          | (Not used)                     |
| 7D | PBA XRPBA6A (b08-b15)                          |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
|    | PCI INT                                        | CHK2A<br>error                                  | CHK2B<br>error                                         | CHK2C<br>error                                  | CHK2D<br>error               | STATUS<br>error                | STATUS<br>warning                                   | (Not used)                     |
| 7E | PBA XRPBA6A (b16-b23)<br>(Reserved)            |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |
| 7F | PBA XRPBA6A (b24-b31)<br>(Reserved)            |                                                 |                                                        |                                                 |                              |                                |                                                     |                                |

## Byte27=89,Byte10 Bit6=1 (SCSI Interface CHA CHK2) Byte40-7F Detail

(13) Byte28=89

|    | 0                                  | 1                              | 2                              | 3                           | 4                              | 5                           | 6                             | 7                            |
|----|------------------------------------|--------------------------------|--------------------------------|-----------------------------|--------------------------------|-----------------------------|-------------------------------|------------------------------|
| 40 | RCHK ERSTS0                        |                                |                                |                             |                                |                             |                               |                              |
|    | i960 WR compare error              | Not used                       | MIC READYI timeout             | CHK1A                       | CHK1B                          | Scan LM,XR access error     | Not used                      | Not used                     |
| 41 | RCHK CHK1ASTS                      |                                |                                |                             |                                |                             |                               |                              |
|    | i960→LM access Uncorrectable error |                                | 1960 LM write protect          | 1960 LM out of area         | Not used                       | Not used                    | LANC→LM write protect         | LANC→LM out of area          |
|    | Bank0                              | Bank1                          |                                |                             |                                |                             |                               |                              |
| 42 | RCHK CHK1BSTS                      |                                |                                |                             |                                |                             |                               |                              |
|    | Refresh register parity error      | Not used                       | Not used                       | Not used                    | Not used                       | Not used                    | Not used                      | Not used                     |
| 43 | MIC CHK3STS+MICCHK1STS             |                                |                                |                             |                                |                             |                               |                              |
|    | MIC arbiter CHK3                   | CHK3 error in SMP              | Not used                       | Not used                    | MPU reset counter parity error | Hard timer parity error     | Wait timer parity error       | Hold timer parity error      |
| 44 | MIC MICCHK1STS                     |                                |                                |                             |                                |                             |                               |                              |
|    | LAN hold timeout                   | Wait timeout                   | XR decoder error (29A)         | XR decoder error (3B)       | Arbiter data parity error      | XR address parity error     | Local bus data parity error   | Data parity error            |
| 45 | SMP CHK1BERROR                     |                                |                                |                             |                                |                             |                               |                              |
|    | Address byte 0 parity error        | Address byte 1 parity error    | Address byte 2 parity error    | Address byte 3 parity error | Data byte 0 parity error       | Data byte 1 parity error    | Data byte 2 parity error      | Data byte 3 parity error     |
| 46 | SMP MSTERR                         |                                |                                |                             |                                |                             |                               |                              |
|    | Requester error (M bus)            | S-memory reduction error       | Bus mode setting error         | Address byte 0 parity error | Address byte 1 parity error    | Address byte 2 parity error | 1st read data bus code error  | 2nd read data bus code error |
| 47 | SMP MSTERR                         |                                |                                |                             |                                |                             |                               |                              |
|    | Read data compare error            | 1st error phase bus code error | 2nd error phase bus code error | Error phase warning         | Error phase any error          | F bus check error           | M bus check error             | Master timeout error         |
| 48 | SMP MSTERR                         |                                |                                |                             |                                |                             |                               |                              |
|    | Master timer parity error          | F bus Arbit error              | Address byte 3 parity error    | Data parity error in SMP    | Last data check error (0)      | F bus open detected         | M bus open detected           | Not used                     |
| 49 | SMP SLVERR                         |                                |                                |                             |                                |                             |                               |                              |
|    | Address bus code error             | Command bus code error         | Data bus code error            | Write bus parity error      | Transfer count error (Command) | Bus mode error (Command)    | Transfer mode error (Command) | Not used                     |
| 4A | PBA XRPBA2C(CHP)(b00-b07)          |                                |                                |                             |                                |                             |                               |                              |
|    | XFR END                            | Not used                       | Not used                       | Not used                    | Not used                       | Not used                    | Not used                      | Not used                     |
| 4B | PBA XRPBA2C(CHP)(b08-b15)          |                                |                                |                             |                                |                             |                               |                              |
|    | Not used                           | CHK2A error                    | CHK2B error                    | CHK2C error                 | CHK2D error                    | STATUS error                | STATUS warning                | Not used                     |
| 4C | PBA XRPBA6A(PCI0)(b00-b07)         |                                |                                |                             |                                |                             |                               |                              |
|    | XFR END                            | Not used                       | Not used                       | Not used                    | Not used                       | Not used                    | Not used                      | Not used                     |
| 4D | PBA XRPBA6A(PCI0)(b08-b15)         |                                |                                |                             |                                |                             |                               |                              |
|    | PCI INT                            | CHK2A error                    | CHK2B error                    | CHK2C error                 | CHK2D error                    | STATUS error                | STATUS warning                | Not used                     |
| 4E | PBA XRPBA6A(PCI1)(b00-b07)         |                                |                                |                             |                                |                             |                               |                              |
|    | XFR END                            | Not used                       | Not used                       | Not used                    | Not used                       | Not used                    | Not used                      | Not used                     |
| 4F | PBA XRPBA6A(PCI1)(b08-b15)         |                                |                                |                             |                                |                             |                               |                              |
|    | PCI INT                            | CHK2A error                    | CHK2B error                    | CHK2C error                 | CHK2D error                    | STATUS error                | STATUS warning                | Not used                     |

|    | 0                          | 1              | 2              | 3              | 4              | 5               | 6                 | 7        |
|----|----------------------------|----------------|----------------|----------------|----------------|-----------------|-------------------|----------|
| 50 | PBA XRPBA6A(PCI2)(b00-b07) |                |                |                |                |                 |                   |          |
|    | XFR<br>END                 | Not used       | Not used       | Not used       | Not used       | Not used        | Not used          | Not used |
| 51 | PBA XRPBA6A(PCI2)(b08-b15) |                |                |                |                |                 |                   |          |
|    | PCI INT                    | CHK2A<br>error | CHK2B<br>error | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning | Not used |
| 52 | PBA XRPBA6A(PCI3)(b00-b07) |                |                |                |                |                 |                   |          |
|    | XFR<br>END                 | Not used       | Not used       | Not used       | Not used       | Not used        | Not used          | Not used |
| 53 | PBA XRPBA6A(PCI3)(b08-b15) |                |                |                |                |                 |                   |          |
|    | PCI INT                    | CHK2A<br>error | CHK2B<br>error | CHK2C<br>error | CHK2D<br>error | STATUS<br>error | STATUS<br>warning | Not used |
| 54 | PBA XRPBA28(CHP)(b08-b15)  |                |                |                |                |                 |                   |          |
|    | 0                          | 1              | P-LRC          | SP ACC         | DIAG ACC       | TRF CNT         |                   |          |
| 55 | PBA XRPBA28(CHP)(b16-b23)  |                |                |                |                |                 |                   |          |
|    | TRF CNT                    |                |                |                |                |                 | 0                 | 1        |
| 56 | PBA XRPBA28(CHP)(b24-b31)  |                |                |                |                |                 |                   |          |
|    | 1                          | BM             |                |                | TM             |                 |                   |          |
| 57 | PBA XRPBA65(PCI0)(b08-b15) |                |                |                |                |                 |                   |          |
|    | 0                          | 1              | P-LRC          | SP ACC         | DIAG ACC       | TRF CNT         |                   |          |
| 58 | PBA XRPBA65(PCI0)(b16-b23) |                |                |                |                |                 |                   |          |
|    | TRF CNT                    |                |                |                |                |                 | 0                 | 1        |
| 59 | PBA XRPBA65(PCI0)(b24-b31) |                |                |                |                |                 |                   |          |
|    | 1                          | BM             |                |                | TM             |                 |                   |          |
| 5A | PBA XRPBA65(PCI1)(b08-b15) |                |                |                |                |                 |                   |          |
|    | 0                          | 1              | P-LRC          | SP ACC         | DIAG ACC       | TRF CNT         |                   |          |
| 5B | PBA XRPBA65(PCI1)(b16-b23) |                |                |                |                |                 |                   |          |
|    | TRF CNT                    |                |                |                |                |                 | 0                 | 1        |
| 5C | PBA XRPBA65(PCI1)(b24-b31) |                |                |                |                |                 |                   |          |
|    | 1                          | BM             |                |                | TM             |                 |                   |          |
| 5D | PBA XRPBA65(PCI2)(b08-b15) |                |                |                |                |                 |                   |          |
|    | 0                          | 1              | P-LRC          | SP ACC         | DIAG ACC       | TRF CNT         |                   |          |
| 5E | PBA XRPBA65(PCI2)(b16-b23) |                |                |                |                |                 |                   |          |
|    | TRF CNT                    |                |                |                |                |                 | 0                 | 1        |
| 5F | PBA XRPBA65(PCI2)(b24-b31) |                |                |                |                |                 |                   |          |
|    | 1                          | BM             |                |                | TM             |                 |                   |          |

|    | 0                           | 1                          | 2                           | 3                              | 4                 | 5                          | 6                           | 7                       |
|----|-----------------------------|----------------------------|-----------------------------|--------------------------------|-------------------|----------------------------|-----------------------------|-------------------------|
| 60 | PBA_XRPBA65(PCI3)(b08-b15)  |                            |                             |                                |                   |                            |                             |                         |
|    | 0                           | 1                          | P-LRC                       | SP_ACC                         | DIAG_ACC          | TRF_CNT                    |                             |                         |
| 61 | PBA_XRPBA65(PCI3)(b16-b23)  |                            |                             |                                |                   |                            |                             |                         |
|    | TRF_CNT                     |                            |                             |                                |                   |                            | 0                           | 1                       |
| 62 | PBA_XRPBA65(PCI3)(b24-b31)  |                            |                             |                                |                   |                            |                             |                         |
|    | 1                           | BM                         |                             |                                | TM                |                            |                             |                         |
| 63 | Not used                    |                            |                             |                                |                   |                            |                             |                         |
| 64 | BSA_XRBS000(b24-b31)        |                            |                             |                                |                   |                            |                             |                         |
|    | CUDG_Enabled                | BBF_Loop                   | Req_Set_End                 | My_Grant_0                     | My_Grant_1        | My_Grant_2                 | My_Grant_3                  | My_Grant_4              |
| 65 | BSA_XRBS000(b16-b23)        |                            |                             |                                |                   |                            |                             |                         |
|    | Not used                    | Not used                   | Abt_Enabled                 | Req_Enabled                    | MPBMH             | MPBML                      | MPBMT                       | Set_Bus_Open            |
| 66 | BSA_XRBS001(b24-b31)        |                            |                             |                                |                   |                            |                             |                         |
|    | Abort                       | Not used                   | MPEND                       | Arbiter_Counter_0              | Arbiter_Counter_1 | Arbiter_Counter_2          | Arbiter_Counter_3           | Arbiter_Counter_4       |
| 67 | BSA_XRBS001(b16-b23)        |                            |                             |                                |                   |                            |                             |                         |
|    | Force_Req_0                 | Force_Req_1                | Not used                    | Not used                       | ENT_EN            | LAMP0                      | LAMP1                       | MPRST00                 |
| 68 | BSA_XRBS002(b24-b31)        |                            |                             |                                |                   |                            |                             |                         |
|    | Arbiter_Timer_0             | Arbiter_Timer_1            | Arbiter_Timer_2             | Arbiter_Timer_3                | Arbiter_Timer_4   | Arbiter_Timer_5            | Arbiter_Timer_6             | Arbiter_Timer_7         |
| 69 | BSA_XRBS002(b16-b23)        |                            |                             |                                |                   |                            |                             |                         |
|    | F_bus_Timer_0               | F_bus_Timer_1              | F_bus_Timer_2               | F_bus_Timer_3                  | F_bus_Timer_4     | F_bus_Timer_5              | F_bus_Timer_6               | F_bus_Timer_8           |
| 6A | BSA_XRBS003(b24-b31)        |                            |                             |                                |                   |                            |                             |                         |
|    | Mask_10_LIVE_INS_Input_Mask | Mask_11_F_bus_Timer_Enable | Mask12_Arbiter_Timer_Enable | Mask_13_F_bus_Arbit_Counter_EN | Not used          | Mask15_ABT_Stop_mask_of_LI | Mask16_Check2D_Live_Ins     | Mask17_GntNo.Gen_PCK_EN |
| 6B | BSA_XRBS003(b16-b23)        |                            |                             |                                |                   |                            |                             |                         |
|    | Mask00_Check_1B             | Not used                   | Not used                    | Mask03_Check_2C                | Mask04_Check_2D   | Not used                   | Mask06_SbsaOriginal_Check2D | Not used                |
| 6C | BSA_XRBS004(b24-b31)        |                            |                             |                                |                   |                            |                             |                         |
|    | Mask_Req_08                 | Mask_Req_09                | Mask_Req_10                 | Mask_Req_11                    | Mask_Req_12       | Mask_Req_13                | Mask_Req_14                 | Mask_Req_15             |
| 6D | BSA_XRBS004(b16-b23)        |                            |                             |                                |                   |                            |                             |                         |
|    | Mask_Req_00                 | Mask_Req_01                | Mask_Req_02                 | Mask_Req_03                    | Mask_Req_04       | Mask_Req_05                | Mask_Req_06                 | Mask_Req_07             |
| 6E | BSA_XRBS006(b16-b23)        |                            |                             |                                |                   |                            |                             |                         |
|    | Busy                        | Not used                   | Not used                    | EX_ABTEN                       | MY_ABTEN          | Not used                   | MPRST20                     | MPRST21                 |
| 6F | BSA_XRBS007(b24-b31)        |                            |                             |                                |                   |                            |                             |                         |
|    | F_bus_Req_08                | F_bus_Req_09               | F_bus_Req_10                | F_bus_Req_11                   | F_bus_Req_12      | F_bus_Req_13               | F_bus_Req_14                | F_bus_Req_15            |

|    | 0                           | 1                          | 2                            | 3                              | 4                 | 5                           | 6                           | 7                         |
|----|-----------------------------|----------------------------|------------------------------|--------------------------------|-------------------|-----------------------------|-----------------------------|---------------------------|
| 70 | BSA XRBS007(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | F bus Req 00                | F bus Req 01               | F bus Req 02                 | F bus Req 03                   | F bus Req 04      | F bus Req 05                | F bus Req 06                | F bus Req 07              |
| 71 | BSA XRBS008(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Grant 0                     | Grant 1                    | Grant 2                      | Grant 3                        | Not used          | Not used                    | Not used                    | Not used                  |
| 72 | BSA XRBS100(b24-b31)        |                            |                              |                                |                   |                             |                             |                           |
|    | CUDG Enable                 | BBF Loop                   | Req Set End                  | My Grant 0                     | My Grant 1        | My Grant 2                  | My Grant 3                  | My Grant 4                |
| 73 | BSA XRBS100(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Not used                    | Not used                   | Abt Enable                   | Req Enable                     | MPBMH             | MPBML                       | MPBMT                       | Set Bus Open              |
| 74 | BSA XRBS101(b24-b31)        |                            |                              |                                |                   |                             |                             |                           |
|    | Abort                       | Not used                   | MPEND                        | Arbiter Counter 0              | Arbiter Counter 1 | Arbiter Counter 2           | Arbiter Counter 3           | Arbiter Counter 4         |
| 75 | BSA XRBS101(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Force Req 0                 | Force Req 1                | Not used                     | Not used                       | ENT EN            | LAMP0                       | LAMP1                       | MPRST00                   |
| 76 | BSA XRB102(b24-b31)         |                            |                              |                                |                   |                             |                             |                           |
|    | Arbiter Timer 0             | Arbiter Timer 1            | Arbiter Timer 2              | Arbiter Timer 3                | Arbiter Timer 4   | Arbiter Timer 5             | Arbiter Timer 6             | Arbiter Timer 7           |
| 77 | BSA XRBS102(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | F bus Timer 0               | F bus Timer 1              | F bus Timer 2                | F bus Timer 3                  | F bus Timer 4     | F bus Timer 5               | F bus Timer 6               | F bus Timer 8             |
| 78 | BSA XRBS103(b24-b31)        |                            |                              |                                |                   |                             |                             |                           |
|    | Mask 10 LIVE INS Input Mask | Mask 11 F bus Timer Enable | Mask 12 Arbiter Timer Enable | Mask 13 F bus Arbit Counter EN | Not used          | Mask 15 ABT Stop mask of LI | Mask 16 Check2D Live Ins    | Mask 17 GntNo.Gen. PCK EN |
| 79 | BSA XRBS103(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Mask00 Check 1B             | Not used                   | Not used                     | Mask03 Check 2C                | Mask04 Check 2D   | Not used                    | Mask06 SbsaOriginal Check2D | Not used                  |
| 7A | BSA XRBS104(b24-b31)        |                            |                              |                                |                   |                             |                             |                           |
|    | Mask Req 08                 | Mask Req 09                | Mask Req 10                  | Mask Req 11                    | Mask Req 12       | Mask Req 13                 | Mask Req 14                 | Mask Req 15               |
| 7B | BSA XRBS104(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Mask Req 00                 | Mask Req 01                | Mask Req 02                  | Mask Req 03                    | Mask Req 04       | Mask Req 05                 | Mask Req 06                 | Mask Req 07               |
| 7C | BSA XRBS106(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Busy                        | Not used                   | Not used                     | EX. ABTEN                      | MY. ABTEN         | Not used                    | MPRST20                     | MPRST21                   |
| 7D | BSA XRBS107(b24-b31)        |                            |                              |                                |                   |                             |                             |                           |
|    | F bus Req 08                | F bus Req 09               | F bus Req 10                 | F bus Req 11                   | F bus Req 12      | F bus Req 13                | F bus Req 14                | F bus Req 15              |
| 7E | BSA XRBS107(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | F bus Req 00                | F bus Req 01               | F bus Req 02                 | F bus Req 03                   | F bus Req 04      | F bus Req 05                | F bus Req 06                | F bus Req 07              |
| 7F | BSA XRBS108(b16-b23)        |                            |                              |                                |                   |                             |                             |                           |
|    | Grant 0                     | Grant 1                    | Grant 2                      | Grant 3                        | Not used          | Not used                    | Not used                    | Not used                  |

Byte27 = 8A (Disk Adapter CHK2)

|    | 0                                                                         | 1        | 2        | 3       | 4                   | 5        | 6 | 7         |
|----|---------------------------------------------------------------------------|----------|----------|---------|---------------------|----------|---|-----------|
| 00 | Time stamp                                                                |          |          |         |                     |          |   |           |
| 05 |                                                                           |          |          |         |                     |          |   |           |
| 06 | Log type                                                                  |          |          |         |                     |          |   |           |
| 07 |                                                                           |          |          |         |                     |          |   |           |
| 08 | Failure classification                                                    |          |          |         |                     |          |   |           |
| 09 |                                                                           |          |          |         |                     |          |   |           |
| 0A | System error code                                                         |          |          |         |                     |          |   |           |
| 0B |                                                                           |          |          |         |                     |          |   |           |
| 0C | JCB ID                                                                    |          |          |         |                     |          |   |           |
| 0D |                                                                           |          |          |         |                     |          |   |           |
| 0E | REQ ID                                                                    |          |          |         |                     |          |   |           |
| 0F | 24CMPAT                                                                   | ECKD32   | HOST RSP | SVP RSP | Processor ID        |          |   |           |
| 10 | VDEV#VLD                                                                  | PDEV#VLD | SSB#VLD  | LOG#VLD | SIM#VLD             | RSSB#VLD | 0 | Force log |
| 11 | VDEV number                                                               |          |          |         |                     |          |   |           |
| 12 |                                                                           |          |          |         |                     |          |   |           |
| 13 | CDEV number                                                               |          |          |         | RDEV number         |          |   |           |
| 14 | LDEV type                                                                 |          |          |         |                     |          |   |           |
| 15 | PDEV type                                                                 |          |          |         |                     |          |   |           |
| 16 | SSB log number                                                            |          |          |         |                     |          |   |           |
| 17 |                                                                           |          |          |         |                     |          |   |           |
| 18 | Related failure log number                                                |          |          |         |                     |          |   |           |
| 19 |                                                                           |          |          |         |                     |          |   |           |
| 1A | Related SIM log number                                                    |          |          |         |                     |          |   |           |
| 1B |                                                                           |          |          |         |                     |          |   |           |
| 1C | Related SSB log number                                                    |          |          |         |                     |          |   |           |
| 1D |                                                                           |          |          |         |                     |          |   |           |
| 1E | (Reserved)                                                                |          |          |         |                     |          |   |           |
| 1F | SCB                                                                       |          |          |         |                     |          |   |           |
| 20 | Basic SSB                                                                 |          |          |         |                     |          |   |           |
| 21 |                                                                           |          |          |         |                     |          |   |           |
| 22 |                                                                           |          |          |         |                     |          |   |           |
| 23 | Count                                                                     |          |          |         |                     |          |   |           |
| 24 | Device address                                                            |          |          |         |                     |          |   |           |
| 25 | Cylinder address (low)                                                    |          |          |         |                     |          |   |           |
| 26 | Cylinder address (high)                                                   |          |          |         | Head address        |          |   |           |
| 27 | Format (x'8')                                                             |          |          |         | Message (x'A')      |          |   |           |
| 28 | Subcode (See following pages)                                             |          |          |         |                     |          |   |           |
| 29 | Hardware information (See following pages)                                |          |          |         |                     |          |   |           |
| 2A |                                                                           |          |          |         |                     |          |   |           |
| 2B |                                                                           |          |          |         |                     |          |   |           |
| 2C |                                                                           |          |          |         |                     |          |   |           |
| 2D |                                                                           |          |          |         |                     |          |   |           |
| 2E |                                                                           |          |          |         |                     |          |   |           |
| 2F |                                                                           |          |          |         |                     |          |   |           |
| 30 |                                                                           |          |          |         |                     |          |   |           |
| 31 |                                                                           |          |          |         |                     |          |   |           |
| 32 | Module ID                                                                 |          |          |         |                     |          |   |           |
| 33 | Routine ID                                                                |          |          |         |                     |          |   |           |
| 34 | Processor number                                                          |          |          |         | Message code (x'0') |          |   |           |
| 35 | SSID (low) of self subsystem                                              |          |          |         |                     |          |   |           |
| 36 | Symptom Code (x'FF8A' : LDEV type = DKU87I/x'EF8A' : LDEV type = DKU86I)* |          |          |         |                     |          |   |           |
| 37 |                                                                           |          |          |         |                     |          |   |           |
| 38 | Log and message control (x'00')                                           |          |          |         |                     |          |   |           |
| 39 | Program action code (x'00')                                               |          |          |         |                     |          |   |           |
| 3A | Configuration information                                                 |          |          |         |                     |          |   |           |
| 3B |                                                                           |          |          |         |                     |          |   |           |
| 3C | Not used (x'00')                                                          |          |          |         |                     |          |   |           |
| 3D | Cylinder address                                                          |          |          |         |                     |          |   |           |
| 3E |                                                                           |          |          |         |                     |          |   |           |
| 3F | Head address                                                              |          |          |         |                     |          |   |           |
| 40 | Hardware information (See following pages)                                |          |          |         |                     |          |   |           |
| 7F |                                                                           |          |          |         |                     |          |   |           |

\* : This information is not fixed until DKC reports SSB to HOST.

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|       |          |          |          |          |          |  |
|-------|----------|----------|----------|----------|----------|--|
| REV.4 | May.1995 | Jun.1995 | Jul.1995 | Oct.1995 | Jun.1997 |  |
|-------|----------|----------|----------|----------|----------|--|

SSBLOG05-1500



## Byte27=8A (Disk Adapter CHK2) Byte40-7F Detail

(1/4)

(1) Subcode (byte28)=Fx

|    | 0                                | 1                                | 2                                | 3                       | 4                                    | 5                          | 6                                          | 7                            |
|----|----------------------------------|----------------------------------|----------------------------------|-------------------------|--------------------------------------|----------------------------|--------------------------------------------|------------------------------|
| 40 | Cache P/K#                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Slave 1 number                   |                                  |                                  |                         | Slave 2 number                       |                            |                                            |                              |
| 41 | MIC::RCVINT                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | SYSRST<br>interruption           | SELRST<br>interruption           | CHK1A<br>interruption            | CHK1B<br>interruption   | SMP<br>interruption                  | LAN/SIO<br>interruption    | CHA/DRR<br>interruption                    | ADP/SCA0<br>interruption     |
| 42 | MIC::RCVINT                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Not used                         | CHK3<br>interruption             | Not used                         | SCA1<br>interruption    | SCA2<br>interruption                 | SCA3<br>interruption       | SCA4<br>interruption                       | SCA5<br>interruption         |
| 43 | MIC::RCVINT                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Timer 0<br>interruption          | Timer 1<br>interruption          | Timer 2<br>interruption          | Timer 3<br>interruption | Timer 4<br>interruption              | Timer 5<br>interruption    | Timer 6<br>interruption                    | SYNC<br>STOP<br>interruption |
| 44 | Drive number                     |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | CDEV number                      |                                  |                                  |                         | RDEV number                          |                            |                                            |                              |
| 45 | SCSI command code                |                                  |                                  |                         |                                      |                            |                                            |                              |
|    |                                  |                                  |                                  |                         |                                      |                            |                                            |                              |
| 46 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 0)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 47 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 1)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 48 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 2)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 49 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 3)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 4A | SCA#n::INT                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | SCA data<br>transfer end         | SPC<br>interruption              | SCA failure                      | BSA0 failure            | BSA1 failure                         | Not used                   | Not used                                   | Not used                     |
| 4B | SCA#n::SCK2                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | BSA data<br>path parity<br>error | SPC data<br>path parity<br>error | SCA data<br>path parity<br>error | LA/LRC<br>error         | SCA<br>hardware<br>error             | SBUS<br>interface<br>error | MICRO<br>setting error                     | Not used                     |
| 4C | SCA#n::BCK2                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | BSA0<br>CHK2A/2B                 | BSA0 BSA<br>control error        | BSA0 arbiter<br>error            | Not used                | Not used                             | Not used                   | Not used                                   | Not used                     |
| 4D | SCA#n::BCK2                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | BSA1<br>CHK2A/2B                 | BSA1 BSA<br>control error        | BSA1 arbiter<br>error            | Not used                | Not used                             | Not used                   | Not used                                   | Not used                     |
| 4E | SCA#n::CXM                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Not used                         | Not used                         | Not used                         | Not used                | Not used                             | P-LRC add                  | SP access                                  | DIAG access                  |
| 4F | SCA#n::CXM                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | (Not used)                       | Bus mode                         |                                  |                         | Transrer mode                        |                            | 001X : Cache to Cache                      |                              |
|    |                                  | Bus width<br>0:8, 1:4B           | BSA0<br>enable                   | BSA1<br>enable          | 0000 : Normal WR<br>0001 : Normal RD |                            | 01XX : Double WR/RD<br>1000 : Broadcast WR |                              |

Byte27 = 8A (Disk Adapter CHK2) Byte40-7F Detail

(2/4)

(1) Subcode (byte28)=Fx

|    | 0                                   | 1                                   | 2                                   | 3                                   | 4                                      | 5                                   | 6                                   | 7                                   |                                     |                                |
|----|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------|
| 50 | SCA#n::XFC                          |                                     |                                     |                                     |                                        |                                     |                                     | Not used                            |                                     |                                |
|    | DMA force end bits                  |                                     |                                     |                                     |                                        |                                     |                                     |                                     |                                     |                                |
|    | XFR mode 1<br>SPC→CAC               | XFR mode 2<br>CAC→SPC               | XFR mode 3<br>SCB→CAC               | XFR mode 4<br>CAC→SCB               | XFR mode 5<br>SPC→SCB                  | XFR mode 6<br>SCB→SPC               | XFR mode 7<br>CAC→CAC               |                                     |                                     |                                |
| 51 | SPC3::IS (2nd read)                 |                                     |                                     |                                     |                                        |                                     |                                     | Not used                            |                                     |                                |
|    | DMA transfer start bits             |                                     |                                     |                                     |                                        |                                     |                                     |                                     |                                     |                                |
|    | XFR mode 1<br>SPC→CAC               | XFR mode 2<br>CAC→SPC               | XFR mode 3<br>SCB→CAC               | XFR mode 4<br>CAC→SCB               | XFR mode 5<br>SPC→SCB                  | XFR mode 6<br>SCB→SPC               | XFR mode 7<br>CAC→CAC               |                                     |                                     |                                |
| 52 | SCA#n::XFS0                         |                                     |                                     |                                     |                                        |                                     |                                     | Cache ADR<br>parameter A<br>set     | Cache ADR<br>parameter B<br>set     |                                |
|    | Not used                            | Not used                            | Not used                            | Not used                            | Not used                               | Not used                            |                                     |                                     |                                     |                                |
| 53 | SCA#0::XFS0                         |                                     |                                     |                                     |                                        |                                     |                                     | Not used                            |                                     |                                |
|    | DMA transfer bits                   |                                     |                                     |                                     |                                        |                                     |                                     |                                     |                                     |                                |
|    | XFR mode 1<br>SPC→CAC               | XFR mode 2<br>CAC→SPC               | XFR mode 3<br>SCB→CAC               | XFR mode 4<br>CAC→SCB               | XFR mode 5<br>SPC→SCB                  | XFR mode 6<br>SCB→SPC               | XFR mode 7<br>CAC→CAC               |                                     |                                     |                                |
| 54 | SCA#n::XFS1                         |                                     |                                     |                                     |                                        |                                     |                                     | Not used                            |                                     |                                |
|    | DMA normal end bits                 |                                     |                                     |                                     |                                        |                                     |                                     |                                     |                                     |                                |
|    | XFR mode 1<br>SPC→CAC               | XFR mode 2<br>CAC→SPC               | XFR mode 3<br>SCB→CAC               | XFR mode 4<br>CAC→SCB               | XFR mode 5<br>SPC→SCB                  | XFR mode 6<br>SCB→SPC               | XFR mode 7<br>CAC→CAC               |                                     |                                     |                                |
| 55 | SCA#n::XFS1                         |                                     |                                     |                                     |                                        |                                     |                                     | Pseudo<br>failure                   |                                     |                                |
|    | DMA abnormal end bits               |                                     |                                     |                                     |                                        |                                     |                                     |                                     |                                     |                                |
|    | XFR mode 1<br>SPC→CAC               | XFR mode 2<br>CAC→SPC               | XFR mode 3<br>SCB→CAC               | XFR mode 4<br>CAC→SCB               | XFR mode 5<br>SPC→SCB                  | XFR mode 6<br>SCB→SPC               | XFR mode 7<br>CAC→CAC               |                                     |                                     |                                |
| 56 | SCA#n::SCHK20                       |                                     |                                     |                                     |                                        |                                     |                                     | BIN data<br>parity<br>error 2       | BIN data<br>parity<br>error 3       |                                |
|    | AIN data<br>parity<br>error 0       | AIN data<br>parity<br>error 1       | AIN data<br>parity<br>error 2       | AIN data<br>parity<br>error 3       | BIN data<br>parity<br>error 0          | BIN data<br>parity<br>error 1       |                                     |                                     |                                     |                                |
| 57 | SCA#n::SCHK20                       |                                     |                                     |                                     |                                        |                                     |                                     | BSA write<br>data parity<br>error 2 | BSA write<br>data parity<br>error 3 |                                |
|    | SCB write<br>data parity<br>error 0 | SCB write<br>data parity<br>error 1 | SCB write<br>data parity<br>error 2 | SCB write<br>data parity<br>error 3 | BSA write<br>data parity<br>error 0    | BSA write<br>data parity<br>error 1 |                                     |                                     |                                     |                                |
| 58 | SCA#n::SCHK21                       |                                     |                                     |                                     |                                        |                                     |                                     | PKT DCNT<br>parity error            |                                     |                                |
|    | BUS GRT ID<br>parity error<br>ST    | CMD ID<br>parity error 0<br>ST      | CMD ID<br>parity error 1<br>ST      | DCNT 0<br>parity error              | DCNT 1<br>parity error                 | SPC write<br>data parity<br>error 0 | SPC write<br>data parity<br>error 1 |                                     |                                     |                                |
| 59 | SCA#n::SCHK21                       |                                     |                                     |                                     |                                        |                                     |                                     | SCB read<br>PKTL 0<br>parity error  | SCB read<br>PKTL 1<br>parity error  |                                |
|    | ATL CNT 0<br>parity error           | ATL CNT 1<br>parity error           | BTL CNT 0<br>parity error           | BLT CNT 1<br>parity error           | SCB write<br>PKTL 0<br>parity error    | SCB write<br>PKTL 1<br>parity error |                                     |                                     |                                     |                                |
| 5A | SCA#n::SCHK22                       |                                     |                                     |                                     |                                        |                                     |                                     | SYNCIN 0<br>FLG SET<br>PTR PER      | SYNCIN 0<br>FLG RST<br>PTR PER      | SYNCIN 1<br>FLG SET<br>PTR PER |
|    | CPKT CNT 0<br>parity error          | CPKT CNT 1<br>parity error          | LA parity<br>error                  | SCB LRC<br>error                    | SPC LRC<br>error                       |                                     |                                     |                                     |                                     |                                |
| 5B | SCA#n::SCHK22                       |                                     |                                     |                                     |                                        |                                     |                                     | CACHE RD<br>PTR A PER               | CACHE RD<br>PTR B PER               |                                |
|    | SYNCIN 1<br>FLG RST<br>PTR PER      | SBL CNT<br>parity error             | PL CNT<br>parity error              | TL CNT<br>parity error              | SDL CNT<br>parity error                | CACHE WT<br>AREG DT<br>PTR PER      |                                     |                                     |                                     |                                |
| 5C | SCA#n::SCHK23                       |                                     |                                     |                                     |                                        |                                     |                                     | SBL CNT<br>parity error             | STC CNT<br>parity error             |                                |
|    | CMD XFR 4<br>CNT parity<br>error    | CACHE<br>ADR & CMD<br>PER           | REGA DT<br>RDY 8 CNT<br>PER:SCA51   | REGA DT<br>RDY 8 CNT<br>PER:SCA56   | DSL CNT A<br>parity error              | DSL CNT B<br>parity error           |                                     |                                     |                                     |                                |
| 5D | SCA#n::SCHK23                       |                                     |                                     |                                     |                                        |                                     |                                     | LA error                            | LBA error                           |                                |
|    | WT REGB<br>3CNT PER                 | WT REGB<br>6CNT PER                 | RD REGB<br>6CNT PER                 | SPCRD<br>REGB 3CNT<br>parity error  | SCB WT/RD<br>CYCLE PTR<br>parity error | EXEU CNT<br>parity error            |                                     |                                     |                                     |                                |
| 5E | SCA#n::SCHK24                       |                                     |                                     |                                     |                                        |                                     |                                     | S-LRC error                         |                                     |                                |
|    | SCB ADR A<br>CNT parity<br>error    | SCB ADR B<br>CNT parity<br>error    | SCB ADR C<br>CNT parity<br>error    | SCB RD 0<br>POINT<br>(BSA0) PER     | SCB RD 1<br>POINT<br>(BSA0) PER        | SCB WT 0<br>POINT<br>(BSA0) PER     | SCB WT 1<br>POINT<br>(BSA0) PER     |                                     |                                     |                                |
| 5F | SCA#n::SCHK24                       |                                     |                                     |                                     |                                        |                                     |                                     | LBA 1/2/3<br>CNT parity<br>error    | LBA CNT<br>parity error             |                                |
|    | SCA invalid<br>transfer             | LA/LRC<br>GEN SDL<br>error          | 0                                   | 0                                   | 0                                      | 0                                   |                                     |                                     |                                     |                                |



## Byte27 = 8A (Disk Adapter CHK2) Byte40-7F Detail

(3/4)

(1) Subcode (byte28)≠Fx

|    | 0                              | 1                                | 2                              | 3                                | 4                              | 5                             | 6                              | 7                              |
|----|--------------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 60 | SCA#n::SCHK25                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | SBUS I/F sequencer state error | 11,12,15,16 SEQ state error      | SCA REG A →SCB SEQ state error | SCB→SCA REG B SEQ state error    | SCA REG B →SPC SEQ state error | SPC→SCA REG B SEQ state error | SCA REG B →SCB SEQ state error | SCB→SCA REG A SEQ state error  |
| 61 | SCA#n::SCHK25                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | SCA REG B →SPC SEQ state error | SPC→SCA REG B SEQ state error    | Not used                       | Not used                         | Not used                       | Not used                      | Not used                       | Not used                       |
| 62 | SCA#n::SCHK26                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | SCB ADR parity error (in SCA)  | SCB ADR parity error (out SCA)   | SCB read signal error          | SCB write signal error           | SCA ACB CS signal unmatch      |                               | SCB PLS counter A parity error | SCB PLS counter B parity error |
|    |                                |                                  |                                |                                  | BSA side                       | SPC side                      |                                |                                |
| 63 | SCA#n::SCHK26                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | Not used                       | Not used                         | Not used                       | Not used                         | Not used                       | Not used                      | Not used                       | Not used                       |
| 64 | SCA#n::AS0CSA0                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 65 | SCA#n::AS0CSA1                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 66 | SCA#n::BS0CSA0                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 67 | BSA#n::BS0CSA1                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 68 | BSA#0::STATUS1                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | CACHE transfer : CACHE RD      | CACHE transfer : CACHE WT        | Arbiter master enable          | Requester master enable          | F bus (H) valid                | F bus (L) valid               | Transaction mode               | F bus open set                 |
| 69 | BSA#0::ERR1                    |                                  |                                |                                  |                                |                               |                                |                                |
|    | CHK1B typical bit              | CHK2A typical bit                | CHK2B typical bit              | CHK2C typical bit                | CHK2D typical bit              | Not used                      | Not used                       | Not used                       |
| 6A | BSA#0::MONITOR1                |                                  |                                |                                  |                                |                               |                                |                                |
|    | WR data transfer (Side A)      | RD data transfer (Side A)        | F bus data XFR (Side A)        | DBF-F bus transfer (Side A)      | DBF-F bus transfer (Side B)    | Not used                      | Not used                       | Not used                       |
| 6B | BSA#0::MONITOR1                |                                  |                                |                                  |                                |                               |                                |                                |
|    | Command ID code (side A)       |                                  |                                | Command ID code (side B)         |                                |                               | ABORT complete                 | Not used                       |
| 6C | BSA#0::MONITOR2                |                                  |                                |                                  |                                |                               |                                |                                |
|    | Side A PLRC add                | F bus transfer bus mode (side A) |                                |                                  | F bus transfer mode (side A)   |                               |                                |                                |
| 6D | BSA#0::MONITOR2                |                                  |                                |                                  |                                |                               |                                |                                |
|    | Side B PLRC add                | F bus transfer bus mode (side B) |                                |                                  | F bus transfer mode (side B)   |                               |                                |                                |
| 6E | BSA#0::COPY                    |                                  |                                |                                  |                                |                               |                                |                                |
|    | Slave busy signal              | Cache RD transfer end            | Cache WT transfer end          | F bus ABT master in self section | F bus arbiter master           | Not used                      | Not used                       | Not used                       |
| 6F | BSA#0::CK2CST0                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | ADR/CMD parity error (side A)  | ADR/CMD parity error (side B)    | CMD data invalid (side A)      | CMD data invalid (side B)        | F bus access timeout           | Not used                      | WCHK1 assert                   | F bus timer parity error       |

Byte27 = 8A (Disk Adapter CHK2) Byte40-7F Detail

(4/4)

(1) Subcode (byte28)=Fx

|    | 0                             | 1                                | 2                            | 3                                | 4                            | 5                        | 6                            | 7                           |
|----|-------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|--------------------------|------------------------------|-----------------------------|
| 70 | BSA#0::CK2CST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | Not used                      | Request sequencer parity error   | Request counter parity error | MY GRANT parity error            | Arbit count over             | DBF ADR/CMD parity error | CHA invalid read             | Upper bus mode parity error |
| 71 | BSA#0::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WRS SEQ CNT/PTR parity error  | Not used                         | WR1 SEQ parity error         | WR1 SEQ CNT/PTR parity error     | Not used                     | WR2 SEQ parity error     | WR2 SEQ CNT/PTR parity error | Not used                    |
| 72 | BSA#0::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WR3 SEQ parity error          | WR3 SEQ CNT/PTR parity error     | DBF ADR CNT PTYER (A SIDE)   | DBF ADR CNT PTYER (B SIDE)       | Transfer count over          | Not used                 | CMD REG A/ST1 REG unmatched  | CMD REG B/ST1 REG unmatched |
| 73 | BSA#0::CK2BST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | HDB1 data parity error        | HDB3 data parity error           | HDB2 data parity error       | HDB4 data parity error           | LRC GEN data parity error    | Not used                 | Not used                     | Not used                    |
| 74 | BSA#1::STATUS1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | CACHE transfer : CACHE RD     | CACHE transfer : CACHE WT        | Arbiter master enable        | Requester master enable          | F bus (H) valid              | F bus (L) valid          | Transaction mode             | F bus open set              |
| 75 | BSA#1::ERR1                   |                                  |                              |                                  |                              |                          |                              |                             |
|    | CHK1B typical bit             | CHK2A typical bit                | CHK2B typical bit            | CHK2C typical bit                | CHK2D typical bit            | Not used                 | Not used                     | Not used                    |
| 76 | BSA#1::MONITOR1               |                                  |                              |                                  |                              |                          |                              |                             |
|    | WR data transfer (Side A)     | RD data transfer (Side A)        | F bus data transfer (Side A) | DBF-F bus transfer (Side A)      | DBF-F bus transfer (Side B)  | Not used                 | Not used                     | Not used                    |
| 77 | BSA#1::MONITOR1               |                                  |                              |                                  |                              |                          |                              |                             |
|    | Command ID code (side A)      |                                  |                              | Command ID code (side B)         |                              |                          | ABORT complete               | Not used                    |
| 78 | BSA#1::MONITOR2               |                                  |                              |                                  |                              |                          |                              |                             |
|    | Side A PLRC add               | F bus transfer bus mode (side A) |                              |                                  | F bus transfer mode (side A) |                          |                              |                             |
| 79 | BSA#1::MONITOR2               |                                  |                              |                                  |                              |                          |                              |                             |
|    | Side B PLRC add               | F bus transfer bus mode (side B) |                              |                                  | F bus transfer mode (side B) |                          |                              |                             |
| 7A | BSA#1::COPY                   |                                  |                              |                                  |                              |                          |                              |                             |
|    | Slave busy signal             | Cache RD transfer end            | Cache WT end transfer        | F bus ABT master in self section | F bus arbiter master         | Not used                 | Not used                     | Not used                    |
| 7B | BSA#1::CK2CST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | ADR/CMD parity error (side A) | ADR/CMD parity error (side B)    | CMD data invalid (side A)    | CMD data invalid (side B)        | F bus access timeout         | Not used                 | WCHK1 assert                 | F bus timer parity error    |
| 7C | BSA#1::CK2CST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | Not used                      | Request sequencer parity error   | Request counter parity error | MY GRANT parity error            | Arbit count over             | DBF ADR/CMD parity error | CHA invalid read             | Upper bus mode parity error |
| 7D | BSA#1::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WRS SEQ CNT/PTR parity error  | Not used                         | WR1 SEQ parity error         | WR1 SEQ CNT/PTR parity error     | Not used                     | WR2 SEQ parity error     | WR2 SEQ CNT/PRT parity error | Not used                    |
| 7E | BSA#1::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WR3 SEQ parity error          | WR3 SEQ CNT/PRT parity error     | DBF ADR CNT PTYER (A SIDE)   | DBF ADR CNT PTYER (B SIDE)       | Transfer count over          | Not used                 | CMD REG A/ST1 REG unmatched  | CMD REG B/ST1 REG unmatched |
| 7F | BSA#1::CK2BST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | HDB1 data parity error        | HDB3 data parity error           | HDB2 data parity error       | HDB4 data parity error           | LRC GEN data parity error    | Not used                 | Not used                     | Not used                    |

## Byte27=8A (Disk Adapter CHK2) Byte40-7F Detail

(1/4)

(2) Subcode (byte28)=Fx

|    | 0                                | 1                                | 2                                | 3                       | 4                                    | 5                          | 6                                          | 7                            |
|----|----------------------------------|----------------------------------|----------------------------------|-------------------------|--------------------------------------|----------------------------|--------------------------------------------|------------------------------|
| 40 | Cache P/K#                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Slave 1 number                   |                                  |                                  |                         | Slave 2 number                       |                            |                                            |                              |
| 41 | MIC::RCVINT                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | SYSRST<br>interruption           | SELRST<br>interruption           | CHK1A<br>interruption            | CHK1B<br>interruption   | SMP<br>interruption                  | LAN/SIO<br>interruption    | CHA/DRR<br>interruption                    | ADP/SCA0<br>interruption     |
| 42 | MIC::RCVINT                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Not used                         | CHK3<br>interruption             | Not used                         | SCA1<br>interruption    | SCA2<br>interruption                 | SCA3<br>interruption       | SCA4<br>interruption                       | SCA5<br>interruption         |
| 43 | MIC::RCVINT                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Timer 0<br>interruption          | Timer 1<br>interruption          | Timer 2<br>interruption          | Timer 3<br>interruption | Timer 4<br>interruption              | Timer 5<br>interruption    | Timer 6<br>interruption                    | SYNC<br>STOP<br>interruption |
| 44 | Drive number                     |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | CDEV number                      |                                  |                                  |                         | RDEV number                          |                            |                                            |                              |
| 45 | SCSI command code                |                                  |                                  |                         |                                      |                            |                                            |                              |
|    |                                  |                                  |                                  |                         |                                      |                            |                                            |                              |
| 46 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 0)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 47 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 1)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 48 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 2)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 49 | LBA                              |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | LBA(byte 3)                      |                                  |                                  |                         |                                      |                            |                                            |                              |
| 4A | SCA#n::INT                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | SCA data<br>transfer end         | SPC<br>interruption              | SCA failure                      | BSA0 failure            | BSA1 failure                         | Not used                   | Not used                                   | Not used                     |
| 4B | SCA#n::SCK2                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | BSA data<br>path parity<br>error | SPC data<br>path parity<br>error | SCA data<br>path parity<br>error | LA/LRC<br>error         | SCA<br>hardware<br>error             | SBUS<br>interface<br>error | MICRO<br>setting error                     | Not used                     |
| 4C | SCA#n::BCK2                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | BSA0<br>CHK2A/2B                 | BSA0 BSA<br>control error        | BSA0 arbiter<br>error            | Not used                | Not used                             | Not used                   | Not used                                   | Not used                     |
| 4D | SCA#n::BCK2                      |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | BSA1<br>CHK2A/2B                 | BSA1 BSA<br>control error        | BSA1 arbiter<br>error            | Not used                | Not used                             | Not used                   | Not used                                   | Not used                     |
| 4E | SCA#n::CXM                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | Not used                         | Not used                         | Not used                         | Not used                | Not used                             | P-LRC add                  | SP access                                  | DIAG access                  |
| 4F | SCA#n::CXM                       |                                  |                                  |                         |                                      |                            |                                            |                              |
|    | (Not used)                       | Bus mode                         |                                  |                         | Transrer mode                        |                            | 001X : Cache to Cache                      |                              |
|    |                                  | Bus width<br>0:8, 1:4B           | BSA0<br>enable                   | BSA1<br>enable          | 0000 : Normal WR<br>0001 : Normal RD |                            | 01XX : Double WR/RD<br>1000 : Broadcast WR |                              |

Byte27 = 8A (Disk Adapter CHK2) Byte40-7F Detail

(2/4)

(2) Subcode (byte28)=Fx

|    | 0                       | 1                     | 2                     | 3                     | 4                     | 5                     | 6                     | 7         |
|----|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------|
| 50 | SCA#n::XFC              |                       |                       |                       |                       |                       |                       |           |
|    | DMA force end bits      |                       |                       |                       |                       |                       |                       | Not used  |
|    | XFR mode 1<br>SPC→CAC   | XFR mode 2<br>CAC→SPC | XFR mode 3<br>SCB→CAC | XFR mode 4<br>CAC→SCB | XFR mode 5<br>SPC→SCB | XFR mode 6<br>SCB→SPC | XFR mode 7<br>CAC→CAC |           |
| 51 | SCA#n::XFC              |                       |                       |                       |                       |                       |                       |           |
|    | DMA transfer start bits |                       |                       |                       |                       |                       |                       | Not used  |
|    | XFR mode 1<br>SPC→CAC   | XFR mode 2<br>CAC→SPC | XFR mode 3<br>SCB→CAC | XFR mode 4<br>CAC→SCB | XFR mode 5<br>SPC→SCB | XFR mode 6<br>SCB→SPC | XFR mode 7<br>CAC→CAC |           |
| 52 | SCA#n::SQ0B0            |                       |                       |                       |                       |                       |                       |           |
|    | SQ0B0 00                | SQ0B0 01              | SQ0B0 02              | SQ0B0 03              | SQ0B0 04              | SQ0B0 05              | SQ0B0 06              | SQ0B0 07  |
| 53 | SCA#n::SQ0B0            |                       |                       |                       |                       |                       |                       |           |
|    | SQ0B0 08                | SQ0B0 09              | SQ0B0 10              | SQ0B0 11              | SQ0B0 12              | SQ0B0 13              | SQ0B0 14              | SQ0B0 20  |
| 54 | SCA#n::SQ0B1            |                       |                       |                       |                       |                       |                       |           |
|    | SQ0B1 15                | SQ0B1 30              | SQ0B1 31              | Not used              | Not used              | Not used              | Not used              | Not used  |
| 55 | SCA#n::SQ1B             |                       |                       |                       |                       |                       |                       |           |
|    | SQ1B 00                 | SQ1B 01               | SQ1B 02               | SQ1B 03               | SQ1B 04               | SQ1B 05               | SQ1B 06               | SQ1B 07   |
| 56 | SCA#n::SQ1B             |                       |                       |                       |                       |                       |                       |           |
|    | SQ1B 08                 | SQ1B 09               | SQ1B 10               | SQ1B 11               | SQ1B 12               | SQ1B 13               | SQ1B 14               | Not used  |
| 57 | SCA#n::SQ2B             |                       |                       |                       |                       |                       |                       |           |
|    | SQ2B 00                 | SQ2B 01               | SQ2B 02               | SQ2B 03               | SQ2B 04               | SQ2B 05               | SQ2B 06               | SQ2B 20   |
| 58 | SCA#n::SQ2B             |                       |                       |                       |                       |                       |                       |           |
|    | SQ2B 07                 | SQ2B 08               | SQ2B 09               | SQ2B 10               | SQ2B 11               | SQ2B 12               | Not used              | Not used  |
| 59 | SCA#n::SQ13B0           |                       |                       |                       |                       |                       |                       |           |
|    | SQ13B0 00               | SQ13B0 01             | SQ13B0 02             | SQ13B0 03             | SQ13B0 04             | SQ13B0 05             | SQ13B0 06             | SQ13B0 07 |
| 5A | SCA#n::SQ13B0           |                       |                       |                       |                       |                       |                       |           |
|    | SQ13B0 10               | SQ13B0 11             | SQ13B0 12             | SQ13B0 13             | SQ13B0 14             | SQ13B0 15             | SQ13B0 16             | SQ13B0 17 |
| 5B | SCA#n::SQ13B1           |                       |                       |                       |                       |                       |                       |           |
|    | SQ13B1 00               | SQ13B1 01             | SQ13B1 02             | SQ13B1 03             | SQ13B1 04             | SQ13B1 05             | Not used              | Not used  |
| 5C | SCA#n::SQ14B0           |                       |                       |                       |                       |                       |                       |           |
|    | SQ14B0 00               | SQ14B0 01             | SQ14B0 02             | SQ14B0 03             | SQ14B0 04             | SQ14B0 05             | SQ14B0 06             | SQ14B0 07 |
| 5D | SCA#n::SQ14B0           |                       |                       |                       |                       |                       |                       |           |
|    | SQ14B0 10               | SQ14B0 11             | SQ14B0 12             | SQ14B0 13             | SQ14B0 14             | SQ14B0 15             | SQ14B0 16             | SQ14B0 17 |
| 5E | SCA#n::SQ14B1           |                       |                       |                       |                       |                       |                       |           |
|    | SQ14B1 00               | SQ14B1 01             | SQ14B1 02             | SQ14B1 03             | SQ14B1 04             | SQ14B1 05             | SQ14B1 06             | SQ14B1 07 |
| 5F | SCA#n::SQ14B1           |                       |                       |                       |                       |                       |                       |           |
|    | SQ14B1 10               | SQ14B1 11             | SQ14B1 12             | SQ14B1 13             | SQ14B1 14             | SQ14B1 15             | Not used              | Not used  |

## Byte27 = 8A (Disk Adapter CHK2) Byte40-7F Detail

(3/4)

(2) Subcode (byte28)=Fx

|    | 0                              | 1                                | 2                              | 3                                | 4                              | 5                             | 6                              | 7                              |
|----|--------------------------------|----------------------------------|--------------------------------|----------------------------------|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 60 | SCA#n::SCHK25                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | SBUS I/F sequencer state error | 11,12,15,16 SEQ state error      | SCA REG A →SCB SEQ state error | SCB→SCA REG B SEQ state error    | SCA REG B →SPC SEQ state error | SPC→SCA REG B SEQ state error | SCA REG B →SCB SEQ state error | SCB→SCA REG A SEQ state error  |
| 61 | SCA#n::SCHK25                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | SCA REG B →SPC SEQ state error | SPC→SCA REG B SEQ state error    | Not used                       | Not used                         | Not used                       | Not used                      | Not used                       | Not used                       |
| 62 | SCA#n::SCHK26                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | SCB ADR parity error (in SCA)  | SCB ADR parity error (out SCA)   | SCB read signal error          | SCB write signal error           | SCA ACB CS signal unmatch      |                               | SCB PLS counter A parity error | SCB PLS counter B parity error |
|    |                                |                                  |                                |                                  | BSA side                       | SPC side                      |                                |                                |
| 63 | SCA#n::SCHK26                  |                                  |                                |                                  |                                |                               |                                |                                |
|    | Not used                       | Not used                         | Not used                       | Not used                         | Not used                       | Not used                      | Not used                       | Not used                       |
| 64 | SCA#n::AS0CSA0                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 65 | SCA#n::AS0CSA1                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 66 | SCA#n::BS0CSA0                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 67 | BSA#n::BS0CSA1                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | Cache head address             |                                  |                                |                                  |                                |                               |                                |                                |
| 68 | BSA#0::STATUS1                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | CACHE transfer : CACHE RD      | CACHE transfer : CACHE WT        | Arbiter master enable          | Requester master enable          | F bus (H) valid                | F bus (L) valid               | Transaction mode               | F bus open set                 |
| 69 | BSA#0::ERR1                    |                                  |                                |                                  |                                |                               |                                |                                |
|    | CHK1B typical bit              | CHK2A typical bit                | CHK2B typical bit              | CHK2C typical bit                | CHK2D typical bit              | Not used                      | Not used                       | Not used                       |
| 6A | BSA#0::MONITOR1                |                                  |                                |                                  |                                |                               |                                |                                |
|    | WR data transfer (Side A)      | RD data transfer (Side A)        | F bus data XFR (Side A)        | DBF-F bus transfer (Side A)      | DBF-F bus transfer (Side B)    | Not used                      | Not used                       | Not used                       |
| 6B | BSA#0::MONITOR1                |                                  |                                |                                  |                                |                               |                                |                                |
|    | Command ID code (side A)       |                                  |                                | Command ID code (side B)         |                                |                               | ABORT complete                 | Not used                       |
| 6C | BSA#0::MONITOR2                |                                  |                                |                                  |                                |                               |                                |                                |
|    | Side A PLRC add                | F bus transfer bus mode (side A) |                                |                                  | F bus transfer mode (side A)   |                               |                                |                                |
| 6D | BSA#0::MONITOR2                |                                  |                                |                                  |                                |                               |                                |                                |
|    | Side B PLRC add                | F bus transfer bus mode (side B) |                                |                                  | F bus transfer mode (side B)   |                               |                                |                                |
| 6E | BSA#0::COPY                    |                                  |                                |                                  |                                |                               |                                |                                |
|    | Slave busy signal              | Cache RD transfer end            | Cache WT transfer end          | F bus ABT master in self section | F bus arbiter master           | Not used                      | Not used                       | Not used                       |
| 6F | BSA#0::CK2CST0                 |                                  |                                |                                  |                                |                               |                                |                                |
|    | ADR/CMD parity error (side A)  | ADR/CMD parity error (side B)    | CMD data invalid (side A)      | CMD data invalid (side B)        | F bus access timeout           | Not used                      | WCHK1 assert                   | F bus timer parity error       |

Byte27 = 8A (Disk Adapter CHK2) Byte40-7F Detail

(4/4)

(2) Subcode (byte28)=Fx

|    | 0                             | 1                                | 2                            | 3                                | 4                            | 5                        | 6                            | 7                           |
|----|-------------------------------|----------------------------------|------------------------------|----------------------------------|------------------------------|--------------------------|------------------------------|-----------------------------|
| 70 | BSA#0::CK2CST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | Not used                      | Request sequencer parity error   | Request counter parity error | MY GRANT parity error            | Arbit count over             | DBF ADR/CMD parity error | CHA invalid read             | Upper bus mode parity error |
| 71 | BSA#0::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WRS SEQ CNT/PTR parity error  | Not used                         | WR1 SEQ parity error         | WR1 SEQ CNT/PTR parity error     | Not used                     | WR2 SEQ parity error     | WR2 SEQ CNT/PTR parity error | Not used                    |
| 72 | BSA#0::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WR3 SEQ parity error          | WR3 SEQ CNT/PTR parity error     | DBF ADR CNT PTYER (A SIDE)   | DBF ADR CNT PTYER (B SIDE)       | Transfer count over          | Not used                 | CMD REG A/ST1 REG unmatched  | CMD REG B/ST1 REG unmatched |
| 73 | BSA#0::CK2BST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | HDB1 data parity error        | HDB3 data parity error           | HDB2 data parity error       | HDB4 data parity error           | LRC GEN data parity error    | Not used                 | Not used                     | Not used                    |
| 74 | BSA#1::STATUS1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | CACHE transfer : CACHE RD     | CACHE transfer : CACHE WT        | Arbiter master enable        | Requester master enable          | F bus (H) valid              | F bus (L) valid          | Transaction mode             | F bus open set              |
| 75 | BSA#1::ERR1                   |                                  |                              |                                  |                              |                          |                              |                             |
|    | CHK1B typical bit             | CHK2A typical bit                | CHK2B typical bit            | CHK2C typical bit                | CHK2D typical bit            | Not used                 | Not used                     | Not used                    |
| 76 | BSA#1::MONITOR1               |                                  |                              |                                  |                              |                          |                              |                             |
|    | WR data transfer (Side A)     | RD data transfer (Side A)        | F bus data transfer (Side A) | DBF-F bus transfer (Side A)      | DBF-F bus transfer (Side B)  | Not used                 | Not used                     | Not used                    |
| 77 | BSA#1::MONITOR1               |                                  |                              |                                  |                              |                          |                              |                             |
|    | Command ID code (side A)      |                                  |                              | Command ID code (side B)         |                              |                          | ABORT complete               | Not used                    |
| 78 | BSA#1::MONITOR2               |                                  |                              |                                  |                              |                          |                              |                             |
|    | Side A PLRC add               | F bus transfer bus mode (side A) |                              |                                  | F bus transfer mode (side A) |                          |                              |                             |
| 79 | BSA#1::MONITOR2               |                                  |                              |                                  |                              |                          |                              |                             |
|    | Side B PLRC add               | F bus transfer bus mode (side B) |                              |                                  | F bus transfer mode (side B) |                          |                              |                             |
| 7A | BSA#1::COPY                   |                                  |                              |                                  |                              |                          |                              |                             |
|    | Slave busy signal             | Cache RD transfer end            | Cache WT end transfer        | F bus ABT master in self section | F bus arbiter master         | Not used                 | Not used                     | Not used                    |
| 7B | BSA#1::CK2CST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | ADR/CMD parity error (side A) | ADR/CMD parity error (side B)    | CMD data invalid (side A)    | CMD data invalid (side B)        | F bus access timeout         | Not used                 | WCHK1 assert                 | F bus timer parity error    |
| 7C | BSA#1::CK2CST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | Not used                      | Request sequencer parity error   | Request counter parity error | MY GRANT parity error            | Arbit count over             | DBF ADR/CMD parity error | CHA invalid read             | Upper bus mode parity error |
| 7D | BSA#1::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WRS SEQ CNT/PTR parity error  | Not used                         | WR1 SEQ parity error         | WR1 SEQ CNT/PTR parity error     | Not used                     | WR2 SEQ parity error     | WR2 SEQ CNT/PRT parity error | Not used                    |
| 7E | BSA#1::CK2CST1                |                                  |                              |                                  |                              |                          |                              |                             |
|    | WR3 SEQ parity error          | WR3 SEQ CNT/PRT parity error     | DBF ADR CNT PTYER (A SIDE)   | DBF ADR CNT PTYER (B SIDE)       | Transfer count over          | Not used                 | CMD REG A/ST1 REG unmatched  | CMD REG B/ST1 REG unmatched |
| 7F | BSA#1::CK2BST0                |                                  |                              |                                  |                              |                          |                              |                             |
|    | HDB1 data parity error        | HDB3 data parity error           | HDB2 data parity error       | HDB4 data parity error           | LRC GEN data parity error    | Not used                 | Not used                     | Not used                    |



Byte27=8A (Disk Adapter CHK2) Byte28-31

(1) Byte28=00:SPC#0 error/Drive failure

|            | 0                                        | 1           | 2           | 3                      | 4 | 5 | 6 | 7 |
|------------|------------------------------------------|-------------|-------------|------------------------|---|---|---|---|
| 28         | Subcode: x'00':SPC#0 error/Drive failure |             |             |                        |   |   |   |   |
| 29         | SPC#0::IS (First read)                   |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 2A         | SPC#0::IS (Second read)                  |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 2B         | SPC#0::IS (Third read)                   |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 2C         | SPC#0::IS (Fourth read)                  |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 2D         | SPC#0::IS (Fifth read)                   |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 2E         | SPC#0::IS (Sixth read)                   |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 2F         | SPC#0::IS (Seventh read)                 |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 30         | SPC#0::IS (Eighth read)                  |             |             |                        |   |   |   |   |
|            |                                          |             |             |                        |   |   |   |   |
| 31         | SCA#0::CXM                               |             |             |                        |   |   |   |   |
| (Not used) | Bus mode                                 |             |             | Transfer mode          |   |   |   |   |
|            | Bus width                                | BSA0 enable | BSA1 enable |                        |   |   |   |   |
|            | 0:8B                                     |             |             | 0000:Normal write      |   |   |   |   |
|            | 1:4B                                     |             |             | 0001:Normal read       |   |   |   |   |
|            |                                          |             |             | 001x:CACHE to CACHE    |   |   |   |   |
|            |                                          |             |             | 01xx:Double write/read |   |   |   |   |
|            |                                          |             |             | 1000:Broadcast write   |   |   |   |   |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(2) Byte28=08:SPC#1 error/Drive failure

|            | 0                                        | 1           | 2           | 3                                                                                                                               | 4 | 5 | 6 | 7 |
|------------|------------------------------------------|-------------|-------------|---------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|
| 28         | Subcode: x'08':SPC#1 error/Drive failure |             |             |                                                                                                                                 |   |   |   |   |
| 29         | SPC#1::IS (First read)                   |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 2A         | SPC#1::IS (Second read)                  |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 2B         | SPC#1::IS (Third read)                   |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 2C         | SPC#1::IS (Fourth read)                  |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 2D         | SPC#1::IS (Fifth read)                   |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 2E         | SPC#1::IS (Sixth read)                   |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 2F         | SPC#1::IS (Seventh read)                 |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 30         | SPC#1::IS (Eighth read)                  |             |             |                                                                                                                                 |   |   |   |   |
|            |                                          |             |             |                                                                                                                                 |   |   |   |   |
| 31         | SCA#1::CXM                               |             |             |                                                                                                                                 |   |   |   |   |
| (Not used) | Bus mode                                 |             |             | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |   |   |   |   |
|            | Bus width<br>0:8B<br>1:4B                | BSA0 enable | BSA1 enable |                                                                                                                                 |   |   |   |   |



Byte27=8A (Disk Adapter CHK2) Byte28-31

(3) Byte28=10:SPC#2 error/Drive failure

|            | 0                                        | 1           | 2           | 3                                                                                                              | 4 | 5 | 6 | 7 |
|------------|------------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------------------------------|---|---|---|---|
| 28         | Subcode: x'10':SPC#2 error/Drive faliure |             |             |                                                                                                                |   |   |   |   |
| 29         | SPC#2::IS (First read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2A         | SPC#2::IS (Second read)                  |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2B         | SPC#2::IS (Third read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2C         | SPC#2::IS (Fourth read)                  |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2D         | SPC#2::IS (Fifth read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2E         | SPC#2::IS (Sixth read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2F         | SPC#2::IS (Seventh read)                 |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 30         | SPC#2::IS (Eighth read)                  |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 31         | SCA#2::CXM                               |             |             |                                                                                                                |   |   |   |   |
| (Not used) | Bus mode                                 |             |             | Transfer mode                                                                                                  |   |   |   |   |
|            | Bus width<br>0:8B<br>1:4B                | BSA0 enable | BSA1 enable | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |   |   |   |   |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(4) Byte28=18:SPC#3 error/Drive failure

|            | 0                                        | 1           | 2           | 3                                                                                                              | 4 | 5 | 6 | 7 |
|------------|------------------------------------------|-------------|-------------|----------------------------------------------------------------------------------------------------------------|---|---|---|---|
| 28         | Subcode: x'18':SPC#3 error/Drive failure |             |             |                                                                                                                |   |   |   |   |
| 29         | SPC#3::IS (First read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2A         | SPC#3::IS (Second read)                  |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2B         | SPC#3::IS (Third read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2C         | SPC#3::IS (Fourth read)                  |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2D         | SPC#3::IS (Fifth read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2E         | SPC#3::IS (Sixth read)                   |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 2F         | SPC#3::IS (Seventh read)                 |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 30         | SPC#3::IS (Eighth read)                  |             |             |                                                                                                                |   |   |   |   |
|            |                                          |             |             |                                                                                                                |   |   |   |   |
| 31         | SCA#2::CXM                               |             |             |                                                                                                                |   |   |   |   |
| (Not used) | Bus mode                                 |             |             | Transfer mode                                                                                                  |   |   |   |   |
|            | Bus width<br>0:8B<br>1:4B                | BSA0 enable | BSA1 enable | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |   |   |   |   |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(5) Byte28=20:SCA#0 data error

|    | 0                                    | 1                                     | 2                                  | 3                                   | 4                                                                                                                               | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'20':SCA#0 data error      |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
| 29 | SCA#0::SCK20                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | AIN data parity error 0              | AIN data parity error 1               | AIN data parity error 2            | AIN data parity error 3             | BIN data parity error 0                                                                                                         | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#0::SCK20                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | SCB write data parity error 0        | SCB write data parity error 1         | SCB write data parity error 2      | SCB write data parity error 3       | BSA write data parity error 0                                                                                                   | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#0::SCK21                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | ATL counter 0 parity error           | ATL counter 1 parity error            | BTL counter 0 parity error         | BTL counter 1 parity error          | SCB WT PKTL 0 parity error                                                                                                      | SCB WT PKTL 1 parity error            | SCB RD PKTL 0 parity error              | SCB RD PKTL 1 parity error            |
| 2C | SCA#0::SCK22                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | CPKT counter 0 parity error          | CPKT counter 1 parity error           | LA parity error                    | SCB LRC error                       | SPC LRC error                                                                                                                   | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#0::SCK23                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error       | WT REGB 6 counter parity error        | RD REGB 6 counter parity error     | SPCRD REGB 3 counter parity error   | SCB W/R cycle pointer parity error                                                                                              | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#0::SCK24                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | SCB address A counter parity error   | SCB address B counter parity error    | SCB address C counter parity error | SCB RD0 pointer (BSA0) parity error | SCB RD1 pointer (BSA1) parity error                                                                                             | SCB WT0 pointer (BSA0) parity error   | SCB WT1 pointer (BSA1) parity error     | S-LRC error                           |
| 2F | SCA#0::SCK24                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | SCA invalid multi-transfer activated | SDL setting failed at LA/LRC generate | 0                                  | 0                                   | 0                                                                                                                               | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 30 | SCA#0::SCK26                         |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | SCB address parity error (in SCA)    | SCB address parity error (out SCA)    | SCB read signal error              | SCB write signal error              | SCB CS signals unmatched: BSA side                                                                                              | SCB CS signals unmatched: SPC side    | SCB puls counter A parity error         | SCB puls counter B parity error       |
| 31 | SCA#0::CXM                           |                                       |                                    |                                     |                                                                                                                                 |                                       |                                         |                                       |
|    | (Not used)                           | Bus mode                              |                                    |                                     | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                       |                                         |                                       |
|    |                                      | Bus width<br>0:8B<br>1:4B             | BSA0 enable                        | BSA1 enable                         |                                                                                                                                 |                                       |                                         |                                       |

Byte27 = 8A (Disk Adapter CHK2) Byte28-31

(6) Byte28 = 21:SCA#0 control error

|    | 0                                                | 1                                              | 2                                           | 3                                            | 4                                                                                                              | 5                                                  | 6                                                | 7                                              |
|----|--------------------------------------------------|------------------------------------------------|---------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------|
| 28 | Subcode: x'21':SCA#0 control error               |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
| 29 | SCA#0::SCK21                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | BUS GRT ID<br>parity error<br>ST                 | CMD ID<br>parity error 0<br>ST                 | CMD ID<br>parity error 1<br>ST              | DCNT 0<br>parity error                       | DCNT 1<br>parity error                                                                                         | SPC write<br>data parity<br>error 0                | SPC write<br>data parity<br>error 1              | PKT DCNT<br>parity error                       |
| 2A | SCA#0::SCK21                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | ATL<br>counter 0<br>parity error                 | ATL<br>counter 1<br>parity error               | BTL<br>counter 0<br>parity error            | BTL<br>counter 1<br>parity error             | SCB WT<br>PKTL 0<br>parity error                                                                               | SCB WT<br>PKTL 1<br>parity error                   | SCB RD<br>PKTL 0<br>parity error                 | SCB RD<br>PKTL 1<br>parity error               |
| 2B | SCA#0::SCK22                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | CPKT<br>counter 0<br>parity error                | CPKT<br>counter 1<br>parity error              | LA parity<br>error                          | SCB LRC<br>error                             | SPC LRC<br>error                                                                                               | SYNCIN0<br>flag set<br>pointer parity<br>error     | SYNCIN0<br>flag reset<br>pointer parity<br>error | SYNCIN1<br>flag set<br>pointer<br>parity error |
| 2C | SCA#0::SCK22                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | SYNCIN1<br>flag reset<br>pointer parity<br>error | SBL counter<br>parity error                    | PL counter<br>parity error                  | TL counter<br>parity error<br>(1)            | SDL counter<br>parity error                                                                                    | CACHE WT<br>AREG DT<br>RDY pointer<br>parity error | CACHE RD<br>pointer A<br>parity error            | CACHE RD<br>pointer B<br>parity error          |
| 2D | SCA#0::SCK23                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | CMD XFR4<br>counter<br>parity error              | CACHE<br>address &<br>command                  | REGA<br>DTRDY 8<br>CNT PER<br>(SCA51)       | REGA<br>DTRDY 8<br>CNT PER<br>(SCA56)        | DSL counter<br>A parity<br>error                                                                               | DSL counter<br>B parity error                      | SBL counter<br>parity error                      | STC counter<br>parity error                    |
| 2E | SCA#0::SCK23                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | WT REGB 3<br>counter<br>parity error             | WT REGB 6<br>counter<br>parity error           | RD REGB 6<br>counter<br>parity error        | SPCRD<br>REGB 3<br>counter<br>parity error   | SCB W/R<br>cycle pointer<br>parity error                                                                       | EXEU<br>counter<br>parity error                    | LA error                                         | LBA error                                      |
| 2F | SCA#0::SCK24                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | SCB<br>address A<br>counter<br>parity error      | SCB<br>address B<br>counter<br>parity error    | SCB<br>address C<br>counter<br>parity error | SCB RD0<br>pointer<br>(BSA0)<br>parity error | SCB RD1<br>pointer<br>(BSA1)<br>parity error                                                                   | SCB WT0<br>pointer<br>(BSA0)<br>parity error       | SCB WT1<br>pointer<br>(BSA1)<br>parity error     | S-LRC error                                    |
| 30 | SCA#0::SCK24                                     |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | SCA invalid<br>multi-<br>transfer<br>activated   | SDL setting<br>failed at<br>LA/LRC<br>generate | 0                                           | 0                                            | 0                                                                                                              | 0                                                  | LBA1/2/3<br>counter<br>parity error              | LBA<br>counter<br>parity error                 |
| 31 | SCA#0::CXM                                       |                                                |                                             |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | (Not used)                                       | Bus mode                                       |                                             |                                              | Transfer mode                                                                                                  |                                                    |                                                  |                                                |
|    |                                                  | Bus width<br>0:8D<br>1:4B                      | BSA0 enable                                 | BSA1 enable                                  | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                                    |                                                  |                                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(7) Byte28=28:SCA#1 data error

|    | 0                                    | 1                                     | 2                              | 3                                   | 4                                                                                                              | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------|---------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'28':SCA#1 data error      |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
| 29 | SCA#1::SCK20                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | AIN data parity error 0              | AIN data parity error 1               | AIN data parity error 2        | Ain data parity error 3             | BIN data parity error 0                                                                                        | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#1::SCK20                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCB write data parity error 0        | SCB write data parity error 1         | SCB write data parity error 2  | SCB write data parity error 3       | BSA write data parity error 0                                                                                  | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#1::SCK21                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | ATL counter 0 parity error           | ATL counter 1 parity error            | BTL counter 0 parity error     | BTL counter 1 parity error          | SCB WT PKTL 0 parity error                                                                                     | SCB WT PKTL 1 parity error            | SCB RD PKTL 0 parity error              | SCB RD PKTL 1 parity error            |
| 2C | SCA#1::SCK22                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | CPKT counter 0 parity error          | CPKT counter 1 parity error           | LA parity error                | SCB LRC error                       | SPC LRC error                                                                                                  | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#1::SCK23                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error       | WT REGB 6 counter parity error        | RD REGB 6 counter parity error | SPCRD REGB 3 counter parity error   | SCB W/R cycle pointer parity error                                                                             | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#1::SCK24                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCB address A parity error           | SCB address B parity error            | SCB address C parity error     | SCB RD0 pointer (BSA0) parity error | SCB RD1 pointer (BSA1) parity error                                                                            | SCB WT0 pointer (BSA0) parity error   | SCB WT1 pointer (BSA1) parity error     | S-LRC error                           |
| 2F | SCA#1::SCK24                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCA invalid multi-transfer activated | SDL setting failed at LA/LRC generate | 0                              | 0                                   | 0                                                                                                              | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 30 | SCA#1::SCK26                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCB address parity error (in SCA)    | SCB address parity error (out SCA)    | SCB read signal error          | SCB write signal error              | SCB CS signals unmatched: BSA side                                                                             | SCB CS signals unmatched: SPC side    | SCB puls counter A parity error         | SCB puls counter A parity error       |
| 31 | SCA#1::CXM                           |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | (Not used)                           | Bus mode                              |                                |                                     | Transfer mode                                                                                                  |                                       |                                         |                                       |
|    |                                      | Bus width<br>0:8D<br>1:4B             | BSA0 enable                    | BSA1 enable                         | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                       |                                         |                                       |

Byte27 = 8A (Disk Adapter CHK2) Byte28-31

(8) Byte28 = 29:SCA#1 control error

|    | 0                                       | 1                                     | 2                                  | 3                                   | 4                                                                                                              | 5                                         | 6                                       | 7                                     |
|----|-----------------------------------------|---------------------------------------|------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'29':SCA#1 control error      |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
| 29 | SCA#1::SCK21                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | BUS GRT ID parity error ST              | CMD ID parity error 0 ST              | CMD ID parity error 1 ST           | DCNT 0 parity error                 | DCNT 1 parity error                                                                                            | SPC write data parity error               | SPC write data parity error             | PKT DCNT parity error                 |
| 2A | SCA#1::SCK21                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | ATL counter 0 parity error              | ATL counter 1 parity error            | BTL counter 0 parity error         | BTL counter 1 parity error          | SCB WT PKTL 0 parity error                                                                                     | SCB WT PKTL 1 parity error                | SCB RD PKTL 0 parity error              | SCB RD PKTL 1 parity error            |
| 2B | SCA#1::SCK22                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | CPKT counter 0 parity error             | CPKT counter 1 parity error           | LA parity error                    | SCB LRC error                       | SPC LRC error                                                                                                  | SYNCIN0 flag set pointer parity error     | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2C | SCA#1::SCK22                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | SYNCIN1 flag reset pointer parity error | SBL counter parity error              | PL counter parity error            | TL counter parity error (1)         | SDL counter parity error                                                                                       | Cache WT AREG DT RDY pointer parity error | Cache RD pointer A parity error         | Cache RD pointer B parity error       |
| 2D | SCA#1::SCK23                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | CMD XFR 4 counter parity                | CACHE address & command parity error  | REGA DTRDYA 8 CNT PER (SCA51)      | REGA DTRDYA 8 CNT PER (SCA56)       | DSL counter A parity error                                                                                     | DSL counter B parity error                | SBL counter parity error                | STC counter parity error              |
| 2E | SCA#1::SCK23                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | WT REGB 3 counter parity error          | WT REGB 6 counter parity error        | RD REGB 6 counter parity error     | SPCRD REGB 3 counter parity error   | SCB W/R cycle pointer parity error                                                                             | EXEU counter parity error                 | LA error                                | LBA error                             |
| 2F | SCA#1::SCK24                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | SCB address A counter parity error      | SCB address B counter parity error    | SCB address C counter parity error | SCB RD0 pointer (BSA0) parity error | SCB RD1 pointer (BSA1) parity error                                                                            | SCB WT0 pointer (BSA0) parity error       | SCB WT1 pointer (BSA1) parity error     | S-LRC error                           |
| 30 | SCA#1::SCK24                            |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | SCA invalid multi-transfer activated    | SDL setting failed at LA/LRC generate | 0                                  | 0                                   | 0                                                                                                              | 0                                         | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 31 | SCA#1::CXM                              |                                       |                                    |                                     |                                                                                                                |                                           |                                         |                                       |
|    | (Not used)                              | Bus mode                              |                                    |                                     | Transfer mode                                                                                                  |                                           |                                         |                                       |
|    |                                         | Bus width<br>0:8D<br>1:4B             | BSA0 enable                        | BSA1 enable                         | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                           |                                         |                                       |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(9) Byte28=30:SCA#2 data error

|    | 0                                    | 1                                     | 2                                  | 3                                     | 4                                                                                                              | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------|---------------------------------------|------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'30':SCA#2 data error      |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
| 29 | SCA#2::SCK20                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | AIN data parity error 0              | AIN data parity error 1               | AIN data parity error 2            | AIN data parity error 3               | BIN data parity error 0                                                                                        | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#2::SCK20                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | SCB write data parity error 0        | SCB write data parity error 1         | SCB write data parity error 2      | SCB write data parity error 3         | BSA write data parity error 0                                                                                  | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#2::SCK21                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | ATL counter 0 parity error           | ATL counter 1 parity error            | BTL counter 0 parity error         | BTL counter 1 parity error            | SCB WT PKTL 0 parity error                                                                                     | SCB WT PKTL 1 parity error            | SCB RD PKTL 0 parity error              | SCB RD PKTL 1 parity error            |
| 2C | SCA#2::SCK22                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | CPKT counter 0 parity error          | CPKT counter 1 parity error           | LA parity error                    | SCB LRC error                         | SPC LRC error                                                                                                  | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#2::SCK23                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error       | WT REGB 6 counter parity error        | RD REGB 6 counter parity error     | SPCRD REGB 3 counter parity error     | SCB W/R cycle pointer parity error                                                                             | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#2::SCK24                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | SCB address A counter parity error   | SCB address B counter parity error    | SCB address C counter parity error | SCB RD0 pointer (BSA0) counter parity | SCB RD1 pointer (BSA1) counter parity                                                                          | SCB WT0 pointer (BSA0) parity error   | SCB WT1 pointer (BSA1)                  | S-LRC error                           |
| 2F | SCA#2::SCK24                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | SCA invalid multi-transfer activated | SDL setting failed at LA/LRC generate | 0                                  | 0                                     | 0                                                                                                              | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 30 | SCA#2::SCK26                         |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | SCB address parity error (in SCA)    | SCB address parity error (out SCA)    | SCB read signal error              | SCB write signal error                | SCB CS signals unmatch: BSA side                                                                               | SCB CS signals unmatch: SPC side      | SCB puls counter A parity error         | SCB puls counter B parity error       |
| 31 | SCA#2::CXM                           |                                       |                                    |                                       |                                                                                                                |                                       |                                         |                                       |
|    | (Not used)                           | Bus mode                              |                                    |                                       | Transfer mode                                                                                                  |                                       |                                         |                                       |
|    |                                      | Bus width<br>0:8D<br>1:4B             | BSA0 enable                        | BSA1 enable                           | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                       |                                         |                                       |

Byte27 = 8A (Disk Adapter CHK2) Byte28-31

(10) Byte28=31:SCA#2 control error

|    | 0                                                | 1                                              | 2                                     | 3                                            | 4                                                                                                              | 5                                                  | 6                                                | 7                                              |
|----|--------------------------------------------------|------------------------------------------------|---------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------|------------------------------------------------|
| 28 | Subcode: x'31':SCA#2 control error               |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
| 29 | SCA#2::SCK21                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | BUS GRT ID<br>parity error<br>ST                 | CMD ID<br>parity error 0<br>ST                 | CMD ID<br>parity error 1<br>ST        | DCNT 0<br>parity error                       | DCNT 1<br>parity error                                                                                         | SPC write<br>data parity<br>error 0                | SPC write<br>data parity<br>error 1              | PKT DCNT<br>parity error                       |
| 2A | SCA#2::SCK21                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | ATL<br>counter 0<br>parity error                 | ATL<br>counter 1<br>parity error               | BTL<br>counter 0<br>parity error      | BTL<br>counter 1<br>parity error             | SCB WT<br>PKTL 0<br>parity error                                                                               | SCB WT<br>PKTL 1<br>parity error                   | SCB RD<br>PKTL 0<br>parity error                 | SCB RD<br>PKTL 1<br>parity error               |
| 2B | SCA#2::SCK22                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | CPKT<br>counter 0<br>parity error                | CPKT<br>counter 1<br>parity error              | LA parity<br>error                    | SCB LRC<br>error                             | SPC LRC<br>error                                                                                               | SYNCIN0<br>flag set<br>pointer parity<br>error     | SYNCIN0<br>flag reset<br>pointer parity<br>error | SYNCIN1<br>flag set<br>pointer<br>parity error |
| 2C | SCA#2::SCK22                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | SYNCIN1<br>flag reset<br>pointer parity<br>error | SBL counter<br>parity error                    | PL counter<br>parity error            | TL counter<br>parity error                   | SDL counter<br>parity error<br>(1)                                                                             | CACHE WT<br>AREG DT<br>RDY pointer<br>parity error | CACHE RD<br>pointer A<br>parity error            | CACHE RD<br>pointer B<br>parity error          |
| 2D | SCA#2::SCK23                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | CMD XFR 4<br>counter<br>parity error             | CACHE<br>address &<br>command<br>parity        | REGA<br>DTRDY 8<br>CTN PER<br>(SCA51) | REGA<br>DTRDY 8<br>CNT PER<br>(SCA56)        | DSL counter<br>A parity<br>error                                                                               | DSL counter<br>B parity error                      | SBL counter<br>parity error                      | STC counter<br>parity error                    |
| 2E | SCA#2::SCK23                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | WT REGB 3<br>counter<br>parity error             | WT REGB 6<br>counter<br>parity error           | RD REGB 6<br>counter<br>parity error  | SPCRD<br>REGB 3<br>counter<br>parity error   | SCB W/R<br>cycle pointer<br>parity error                                                                       | EXEU<br>counter<br>parity error                    | LA error                                         | LBA error                                      |
| 2F | SCA#2::SCK24                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | SCB A<br>counter<br>parity error                 | SCB B<br>counter<br>parity error               | SCB C<br>counter<br>parity error      | SCB RD0<br>pointer<br>(BSA0)<br>parity error | SCB RD1<br>pointer<br>(BSA1)<br>parity error                                                                   | SCB WT0<br>pointer<br>(BSA0)<br>parity error       | SCB WT1<br>pointer<br>(BSA1)<br>parity error     | S-LRC error                                    |
| 30 | SCA#2::SCK24                                     |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | SCA invalid<br>multi-<br>transfer<br>activate    | SDL setting<br>failed at<br>LA/LRC<br>generate | 0                                     | 0                                            | 0                                                                                                              | 0                                                  | LBA1/2/3<br>counter<br>parity                    | LBA<br>counter<br>parity                       |
| 31 | SCA#2::CXM                                       |                                                |                                       |                                              |                                                                                                                |                                                    |                                                  |                                                |
|    | (Not used)                                       | Bus mode                                       |                                       |                                              | Transfer mode                                                                                                  |                                                    |                                                  |                                                |
|    |                                                  | Bus width<br>0:8D<br>1:4B                      | BSA0 enable                           | BSA1 enable                                  | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                                    |                                                  |                                                |



Byte27=8A (Disk Adapter CHK2) Byte28-31

(11) Byte28=38:SCA#3 data error

|    | 0                                    | 1                                     | 2                              | 3                                   | 4                                                                                                              | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------|---------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'38':SCA#3 data error      |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
| 29 | SCA#3::SCK20                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | AIN data parity error 0              | AIN data parity error 1               | AIN data parity error 2        | AIN data parity error 3             | BIN data parity error 0                                                                                        | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#3::SCK20                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCB write data parity error 0        | SCB write data parity error 1         | SCB write data parity error 2  | SCB write data parity error 3       | BSA write data parity error 0                                                                                  | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#3::SCK21                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | ATL counter 0 parity error 0         | ATL counter 1 parity error 1          | BTL counter 0 parity error 2   | BTL counter 1 parity error 3        | SCB WT PKTL 0 parity error 0                                                                                   | SCB WT PKTL 1 parity error 1          | SCB RD PKTL 0 parity error 2            | SCB RD PKTL 1 parity error 3          |
| 2C | SCA#3::SCK22                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | CPKT counter 0 parity error          | CPKT counter 1 parity error           | LA parity error                | SCB LRC error                       | SPC LRC error                                                                                                  | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#3::SCK23                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error       | WT REGB 6 counter parity error        | RD REGB 6 counter parity error | SPCRD REGB 3 counter parity error   | SCB W/R cycle pointer parity error                                                                             | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#3::SCK24                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCB A counter parity error           | SCB B counter parity error            | SCB C counter parity error     | SCB RD0 pointer (BSA0) parity error | SCB RD1 pointer (BSA1) parity error                                                                            | SCB WT0 pointer (BSA0) parity error   | SCB WT1 pointer (BSA1) parity error     | S-LRC error                           |
| 2F | SCA#3::SCK24                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCA invalid multi-transfer activated | SDL setting failed at LA/LRC generate | 0                              | 0                                   | 0                                                                                                              | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 30 | SCA#3::SCK26                         |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | SCB address parity error (in SCA)    | SCB address parity error (out SCA)    | SCB read signal error          | SCB write signal error              | SCB CS signals unmatched: BSA side                                                                             | SCB CS signals unmatched: SPC side    | SCB puls counter A parity error         | SCB puls counter B parity error       |
| 31 | SCA#3::CXM                           |                                       |                                |                                     |                                                                                                                |                                       |                                         |                                       |
|    | (Not used)                           | Bus mode                              |                                |                                     | Transfer mode                                                                                                  |                                       |                                         |                                       |
|    |                                      | Bus width<br>0:8B<br>1:4B             | BSA0 enable                    | BSA1 enable                         | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                       |                                         |                                       |

Byte27 = 8A (Disk Adapter CHK2) Byte28-31

(12) Byte28 = 39:SCA#3 control error

|    | 0                                       | 1                                    | 2                                  | 3                                   | 4                                                                                                                               | 5                                         | 6                                       | 7                                     |
|----|-----------------------------------------|--------------------------------------|------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'39':SCA#3 control error      |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
| 29 | SCA#3::SCK21                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | BUS GRT ID parity error ST              | CMD ID parity error 0 ST             | CMD ID parity error 1 ST           | DCNT 0 parity error                 | DCNT 1 parity error                                                                                                             | SPC write data parity error 0             | SPC write data parity error 1           | PKT DCNT parity error                 |
| 2A | SCA#3::SCK21                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | ATL counter 0 parity error              | ATL counter 1 parity error           | BTL counter 0 parity error         | BTL counter 1 parity error          | SCB WT PKTL 0 parity error                                                                                                      | SCB WT PKTL 1 parity error                | SCB RD PKTL 0 parity error              | SCB RD PKTL 1 parity error            |
| 2B | SCA#3::SCK22                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | CPKT counter 0 parity error             | CPKT counter 1 parity error          | LA parity error                    | SCB LRC error                       | SPC LRC error                                                                                                                   | SYNCIN0 flag set pointer parity error     | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2C | SCA#3::SCK22                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | SYNCIN1 flag reset pointer parity error | SBL counter parity error             | PL counter parity error            | TL counter parity error (1)         | SDL counter parity error                                                                                                        | CACHE WT AREG DT RDY pointer parity error | CACHE RD pointer A parity error         | CACHE RD pointer B parity error       |
| 2D | SCA#3::SCK23                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | CMD XFR 4 counter parity error          | CACHE address & command parity error | REGA DTRDY 8 CTN PER (SCA51)       | REGA DTRDY 8 CTN PER (SCA56)        | DSL counter A parity error                                                                                                      | DSL counter B parity error                | SBL counter parity error                | STC counter parity error              |
| 2E | SCA#3::SCK23                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | WT REGB 3 counter parity error          | WT REGB 6 counter parity error       | RD REGB 6 counter parity error     | SPCRD REGB 3 counter parity error   | SCB W/R cycle pointer parity error                                                                                              | EXEU counter parity error                 | LA error                                | LBA error                             |
| 2F | SCA#3::SCK24                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | SCB address A counter parity error      | SCB address B counter parity error   | SCB address C counter parity error | SCB RD0 pointer (BSA0) parity error | SCB RD1 pointer (BSA1) parity error                                                                                             | SCB WT0 pointer (BSA0) parity error       | SCB WT1 pointer (BSA1) parity error     | S-LRC error                           |
| 30 | SCA#3::SCK24                            |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | SCA invalid multi-transfer activated    | SDL setting failed LA/LRC generate   | 0                                  | 0                                   | 0                                                                                                                               | 0                                         | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 31 | SCA#3::CXM :3600 0014 (b10-17)          |                                      |                                    |                                     |                                                                                                                                 |                                           |                                         |                                       |
|    | (Not used)                              | Bus mode                             |                                    |                                     | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                           |                                         |                                       |
|    |                                         | Bus width<br>0:8B<br>1:4B            | BSA0 enable                        | BSA1 enable                         |                                                                                                                                 |                                           |                                         |                                       |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(13) Byte28=40:BSA#0 error (by SCA#0)

|    | 0                                     | 1                                | 2                                      | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|----------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'40':BSA#0 error (by SCA#0) |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                   | Slave 2 parity error             | Slave ID parity error            | F bus data error                 | F bus P-LRC error                | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                          | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                     | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                   | Side-B invalid error             | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter / pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid read                 | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error       | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent          | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                     | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                        |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error     | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(14) Byte28=41:BSA#0 error (by SCA#1)

|    | 0                                     | 1                                | 2                                  | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'41':BSA#0 error (by SCA#1) |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error               | Slave 2 parity error             | Slave ID parity error            | F bus read data error            | F bus read P-LRC error           | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                      | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                 | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error               | Side-B invalid error             | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/parity error       | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid read                 | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error   | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent      | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                 | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                    |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(15) Byte28=42:BSA#0 error (by SCA#2)

|    | 0                                     | 1                                | 2                                    | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'42':BSA#0 error (by SCA#2) |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                 | Slave 2 parity error             | Slave ID parity error            | F bus read data error            | F bus read P-LRC error           | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                        | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                   | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                 | Side-B invalid errorq            | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK 2C information)  |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid read                 | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error     | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count over              | Command/status A inconsistent        | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                   | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error   | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(16) Byte28=43:BSA#0 error (by SCA#3)

|    | 0                                     | 1                                | 2                                    | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'43':BSA#0 error (by SCA#3) |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                 | Slave 2 parity error             | Slave ID parity error            | F bus read data error            | F bus read P-LRC error           | FBD parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                        | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                   | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                 | Side-B invalid error             | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid error                | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error     | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent        | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                   | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error   | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(17) Byte28=44:BSA#1 error (by SCA#0)

|    | 0                                     | 1                                | 2                                    | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'44':BSA#1 error (by SCA#0) |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                 | Slave 2 parity error             | Slave ID parity error            | F bus read data error            | F bus read P-LRC error           | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                        | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                   | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                 | Side-B invalid error             | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid read                 | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error     | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent        | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                   | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error   | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(18) Byte28=45:BSA#1 error (by SCA#1)

|    | 0                                     | 1                                | 2                                    | 3                                | 4                                | 5                                 | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'45':BSA#1 error (by SCA#1) |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                 | Slave 2 parity error             | Slave ID parity error            | F bus read data error             | Fbus read P-LRC error            | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                        | Slave 2 warning                  | (RSV)                            | (RSV)                             | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                   | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error         | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                 | Side-B invalid error             | F bus timeout                    | (RSV)                             | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error           | CHA invalid read                 | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error     | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error                | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent        | Command/status B inconsistent    | RD1 sequence error               | RD1 @counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                   | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error  | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                      |                                  |                                  |                                   |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error   | LI counter parity error          | Arbitration timeout              | Arbitration parity error          | Request protocol error           | (RSV)                                |



Byte27=8A (Disk Adapter CHK2) Byte28-31

(19) Byte28=46:BSA#1 error (by SCA#2)

|    | 0                                     | 1                                | 2                                    | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'46':BSA#1 error (by SCA#2) |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                 | Slave 2 parity error             | Slave ID parity error            | F bus read data error            | F bus read P-LRC error           | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                        | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                   | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                 | Side-B invalid error             | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid read                 | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error     | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent        | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                   | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error   | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(20) Byte28=47:BSA#1 error (by SCA#3)

|    | 0                                     | 1                                | 2                                    | 3                                | 4                                | 5                                | 6                                | 7                                    |
|----|---------------------------------------|----------------------------------|--------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|
| 28 | Subcode: x'47':BSA#1 error (by SCA#3) |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
| 29 | BSA::BSASSB #00 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | CHK error                             | Last cycle error                 | Slave 1 parity error                 | Slave 2 parity error             | Slave ID parity error            | F bus read data error            | F bus read P-LRC error           | FDB parity error                     |
| 2A | BSA::BSASSB #01 (CHK2A information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Slave 1 error                         | Slave 1 warning                  | Slave 2 error                        | Slave 2 warning                  | (RSV)                            | (RSV)                            | (RSV)                            | (RSV)                                |
| 2B | BSA::BSASSB #03 (CHK2B information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | HDB 1 parity error                    | HDB 3 parity error               | HDB 2 parity error                   | HDB 4 parity error               | LRC GEN parity error             | HDB 1/2 data parity error        | HDB 3/4 data parity error        | (RSV)                                |
| 2C | BSA::BSASSB #04 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | Side-A access parity error            | Side-B access parity error       | Side-A invalid error                 | Side-B invalid error             | F bus timeout                    | (RSV)                            | WCHK1 assert                     | F bus timer parity error             |
| 2D | BSA::BSASSB #05 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | (RSV)                                 | Request sequencer parity error   | Request counter/pointer parity error | MYGRANT parity error             | Arbitration count over           | DBF access parity error          | CHA invalid error                | Bus mode error                       |
| 2E | BSA::BSASSB #06 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | WRS counter/pointer parity error      | WR1 sequence error               | WR1 counter/pointer parity error     | WR2 sequence error               | WR2 counter/pointer parity error | WR3 sequence error               | WR3 counter/pointer parity error | DBF address counter (A) parity error |
| 2F | BSA::BSASSB #07 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | DBF address counter (B) parity error  | Transfer count error             | Command/status A inconsistent        | Command/status B inconsistent    | RD1 sequence error               | RD1 counter/pointer parity error | RD2 sequence error               | RD2 counter/pointer parity error     |
| 30 | BSA::BSASSB #08 (CHK2C information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | RD3 sequence error                    | RD3 counter/pointer parity error | RD4 sequence error                   | RD4 counter/pointer parity error | DKA sequence error               | DKA counter/pointer parity error | (RSV)                            | (RSV)                                |
| 31 | BSA::BSASSB #11 (CHK2D information)   |                                  |                                      |                                  |                                  |                                  |                                  |                                      |
|    | LIVE INS                              | F bus open                       | Arbitration sequencer parity error   | LI counter parity error          | Arbitration timeout              | Arbitration parity error         | Request protocol error           | (RSV)                                |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(21) Byte28=48:BSA#0 &amp; BSA#1 error (by SCA#0)

|    | 0                                             | 1                         | 2                                  | 3                                | 4                                                                                                              | 5                              | 6                        | 7                      |
|----|-----------------------------------------------|---------------------------|------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------------|
| 28 | Subcode: x'48':BSA#0 & BSA#1 error (by SCA#0) |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
| 29 | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                          | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2A | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                  | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2B | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                           | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 2C | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                            | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 2D | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                          | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2E | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                  | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2F | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                           | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 30 | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                            | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 31 | SCA#0::CXM                                    |                           |                                    |                                  |                                                                                                                |                                |                          |                        |
|    | (Not used)                                    | Bus mode                  |                                    |                                  | Transfer mode                                                                                                  |                                |                          |                        |
|    |                                               | Bus width<br>0:8B<br>1:4B | BSA0 enable                        | BSA1 enable                      | 0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                |                          |                        |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(22) Byte28=49:BSA#0 &amp; BSA#1 error (by SCA#1)

|    | 0                                             | 1                         | 2                                  | 3                                | 4                                                                                                                               | 5                              | 6                        | 7                      |
|----|-----------------------------------------------|---------------------------|------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------------|
| 28 | Subcode: x'49':BSA#0 & BSA#1 error (by SCA#1) |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
| 29 | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                           | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2A | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                                   | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2B | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                            | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 2C | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                             | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 2D | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                           | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2E | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                                   | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2F | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                            | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 30 | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                             | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 31 | SCA#0::CXM                                    |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | (Not used)                                    | Bus mode                  |                                    |                                  | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                |                          |                        |
|    |                                               | Bus width<br>0:8B<br>1:4B | BSA0 enable                        | BSA1 enable                      |                                                                                                                                 |                                |                          |                        |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(23) Byte28=4A:BSA#0 &amp; BSA#1 error (by SCA#2)

|    | 0                                             | 1                         | 2                                  | 3                                | 4                                                                                                                               | 5                              | 6                        | 7                      |
|----|-----------------------------------------------|---------------------------|------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------------|
| 28 | Subcode: x'4A':BSA#0 & BSA#1 error (by SCA#2) |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
| 29 | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                           | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2A | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                                   | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2B | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                            | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 2C | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                             | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 2D | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                           | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2E | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                                   | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2F | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                            | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 30 | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                             | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 31 | SCA#0::CXM                                    |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | (Not used)                                    | Bus mode                  |                                    |                                  | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                |                          |                        |
|    |                                               | Bus width<br>0:8B<br>1:4B | BSA0 enable                        | BSA1 enable                      |                                                                                                                                 |                                |                          |                        |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(24) Byte28=4B:BSA#0 &amp; BSA#1 error (by SCA#3)

|    | 0                                             | 1                         | 2                                  | 3                                | 4                                                                                                                               | 5                              | 6                        | 7                      |
|----|-----------------------------------------------|---------------------------|------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------|------------------------|
| 28 | Subcode: x'4B':BSA#0 & BSA#1 error (by SCA#3) |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
| 29 | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                           | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2A | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                                   | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2B | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                            | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 2C | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                             | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 2D | BSA::BSASSB #02 (CHK2A information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | CHK error                                     | Last cycle error          | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                           | FDB parity error               | Slave 1 error            | Slave 2 error          |
| 2E | BSA::BSASSB #09 (CHK2B & CHK2C information)   |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | HDB parity error                              | LRC GEN parity error      | Access parity error                | Invalid command                  | F bus timeout                                                                                                                   | WCHK1 assert                   | F bus timer parity error | Request sequence error |
| 2F | BSA::BSASSB #10 (CHK2C information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | Request error                                 | Control parity error      | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                            | WR2/WR3 parity error           | RD1/RD2 parity error     | RD3/RD4 parity error   |
| 30 | BSA::BSASSB #11 (CHK2D information)           |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | LIVE INS                                      | F bus open                | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                             | Arbitration timer parity error | Request protocol error   | (RSV)                  |
| 31 | SCA#0::CXM                                    |                           |                                    |                                  |                                                                                                                                 |                                |                          |                        |
|    | (Not used)                                    | Bus mode                  |                                    |                                  | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                |                          |                        |
|    |                                               | Bus width<br>0:8B<br>1:4B | BSA0 enable                        | BSA1 enable                      |                                                                                                                                 |                                |                          |                        |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(25) Byte28=50:SCA#0 error &amp; drive failure

|    | 0                                          | 1                              | 2                              | 3                              | 4                                                                                                                               | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'50':SCA#0 error & drive failure |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
| 29 | SCA#0::SCK20                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | AIN data parity error 0                    | AIN data parity error 1        | AIN data parity error 2        | AIN data parity error 3        | BIN data parity error 0                                                                                                         | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#0::SCK20                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | SCB write data parity error 0              | SCB write data parity error 1  | SCB write data parity error 2  | SCB write data parity error 3  | BSA write data parity error 0                                                                                                   | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#0::SCK21                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | BUS GRT ID PER ST                          | CMD ID PER 0 ST                | CMD ID PER 1 ST                | DCNT 0 parity error            | DCNT 1 parity error                                                                                                             | SPC write data parity error 0         | SPC write data parity error 1           | PKT DCNT parity error                 |
| 2C | SCA#0::SCK22                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | CPNT counter 0 parity error                | CPKT counter 1 parity error    | LA parity error                | SCB LRC error                  | SPC LRC error                                                                                                                   | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#0::SCK23                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error             | WT REGB 6 counter parity error | RD REGB 6 counter parity error | SPCRD RG3 counter parity error | SCB W/R cycle pointer parity error                                                                                              | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#0::SCK24                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | SCA invalid multi transfer                 | SDR LA/LRC generation error    | 0                              | 0                              | 0                                                                                                                               | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 2F | SCA#0::IS (First read)                     |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
| 30 | SCA#0::IS (Second read)                    |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
| 31 | SCA#0::CXM                                 |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | (Not used)                                 | Bus mode                       |                                |                                | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                       |                                         |                                       |
|    |                                            | Bus width<br>0:8B<br>1:4B      | BSA0 enable                    | BSA1 enable                    |                                                                                                                                 |                                       |                                         |                                       |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(26) Byte28=60:SCA#1 error &amp; drive failure

|    | 0                                          | 1                              | 2                              | 3                              | 4                                                                                                                               | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'60':SCA#1 error & drive failure |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
| 29 | SCA#1::SCK20                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | AIN data parity error 0                    | AIN data parity error 1        | AIN data parity error 2        | AIN data parity error 3        | BIN data parity error 0                                                                                                         | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#1::SCK20                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | SCB write data parity error 0              | SCB write data parity error 1  | SCB write data parity error 2  | SCB write data parity error 3  | BSA write data parity error 0                                                                                                   | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#1::SCK21                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | BUS GRT ID PER ST                          | CMD ID PER 0 ST                | CMD ID PER 1 ST                | DCNT 0 parity error            | DCNT 1 parity error                                                                                                             | SPC write data parity error 0         | SPC write data parity error 1           | PKT DCNT parity error                 |
| 2C | SCA#1::SCK22                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | CPKT counter 0 parity error                | CPKT counter 1 parity error    | LA parity error                | SCB LRC error                  | SPC LRC error                                                                                                                   | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#1::SCK23                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error             | WT REGB 6 counter parity error | RD REGB 6 counter parity error | SPCRD RG3 counter parity error | SCB W/R cycle pointer parity error                                                                                              | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#1::SCK24                               |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | SCA invalid multi transfer                 | SDR LA/LRC generation error    | 0                              | 0                              | 0                                                                                                                               | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 2F | SCA#1::IS (First read)                     |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
| 30 | SCA#1::IS (Second read)                    |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
| 31 | SCA#1::CXM :3200 0014 (b10-17)             |                                |                                |                                |                                                                                                                                 |                                       |                                         |                                       |
|    | (Not used)                                 | Bus mode                       |                                |                                | Transfer mode<br>0000:Normal write<br>0001:Normal read<br>001x:CACHE to CACHE<br>01xx:Double write/read<br>1000:Broadcast write |                                       |                                         |                                       |
|    |                                            | Bus width<br>0:8B<br>1:4B      | BSA0 enable                    | BSA1 enable                    |                                                                                                                                 |                                       |                                         |                                       |



Byte27=8A (Disk Adapter CHK2) Byte28-31

(27) Byte28=70:SCA#2 error &amp; drive failure

|    | 0                                          | 1                              | 2                              | 3                              | 4                                                                                                                        | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'70':SCA#2 error & drive failure |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
| 29 | SCA#2::SCK20                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | AIN data parity error 0                    | AIN data parity error 1        | AIN data parity error 2        | AIN data parity error 3        | BIN data parity error 0                                                                                                  | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#2::SCK20                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | SCB write data parity error 0              | SCB write data parity error 1  | SCB write data parity error 2  | SCB write data parity error 3  | BSA write data parity error 0                                                                                            | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#2::SCK21                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | BUS GRT ID PER ST                          | CMD ID PER 0 ST                | CMD ID PER 1 ST                | DCNT 0 parity error            | DCNT 1 parity error                                                                                                      | SPC write data parity error 0         | SPC write data parity error 1           | PKT DCNT parity error                 |
| 2C | SCA#2::SCK22                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | CPKT counter 0 parity error                | CPKT counter 1 parity error    | LA parity error                | SCB LRC error                  | SPC LRC error                                                                                                            | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#2::SCK23                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error             | WT REGB 6 counter parity error | RD REGB 6 counter parity error | SPCRD RG3 counter parity error | SCB W/R cycle pointer parity error                                                                                       | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#2::SCK24                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | SCA invalid multi transfer                 | SDR LA/LRC generation error    | 0                              | 0                              | 0                                                                                                                        | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 2F | SCA#2::IS (First read)                     |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
| 30 | SCA#2::IS (Second read)                    |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
| 31 | SCA#2::CXM                                 |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | (Not used)                                 | Bus mode                       |                                |                                | Transfer mode                                                                                                            |                                       |                                         |                                       |
|    |                                            | Bus width<br>0: 8B<br>1: 4B    | BSA0 enable                    | BSA1 enable                    | 0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                                       |                                         |                                       |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(28) Byte28=80:SCA#3 error &amp; Drive failure

|    | 0                                          | 1                              | 2                              | 3                              | 4                                                                                                                        | 5                                     | 6                                       | 7                                     |
|----|--------------------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| 28 | Subcode: x'80':SCA#3 error & Drive failure |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
| 29 | SCA#3::SCK20                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | AIN data parity error 0                    | AIN data parity error 1        | AIN data parity error 2        | AIN data parity error 3        | BIN data parity error 0                                                                                                  | BIN data parity error 1               | BIN data parity error 2                 | BIN data parity error 3               |
| 2A | SCA#3::SCK20                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | SCB write data parity error 0              | SCB write data parity error 1  | SCB write data parity error 2  | SCB write data parity error 3  | BSA write data parity error 0                                                                                            | BSA write data parity error 1         | BSA write data parity error 2           | BSA write data parity error 3         |
| 2B | SCA#3::SCK21                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | BUS GRT ID PER ST                          | CMD ID PER 0 ST                | CMD ID PER 1 ST                | DCNT 0 parity error            | DCNT 1 parity error                                                                                                      | SPC write data parity error 0         | SPC write data parity error 1           | PKT DCNT parity error                 |
| 2C | SCA#3::SCK22                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | CPKT counter 0 parity error                | CPKT counter 1 parity error    | LA parity error                | SCB LRC error                  | SPC LRC error                                                                                                            | SYNCIN0 flag set pointer parity error | SYNCIN0 flag reset pointer parity error | SYNCIN1 flag set pointer parity error |
| 2D | SCA#3::SCK23                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | WT REGB 3 counter parity error             | WT REGB 6 counter parity error | RD REGB 6 counter parity error | SPCRD RG3 counter parity error | SCB W/R cycle pointer parity error                                                                                       | EXEU counter parity error             | LA error                                | LBA error                             |
| 2E | SCA#3::SCK24                               |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | SCA invalid multi transfer                 | SDR LA/LRC generation error    | 0                              | 0                              | 0                                                                                                                        | 0                                     | LBA1/2/3 counter parity error           | LBA counter parity error              |
| 2F | SCA#3::IS (First read)                     |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
| 30 | SCA#3::IS (Second read)                    |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    |                                            |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
| 31 | SCA#3::CXM                                 |                                |                                |                                |                                                                                                                          |                                       |                                         |                                       |
|    | (Not used)                                 | Bus mode                       |                                |                                | Transfer mode                                                                                                            |                                       |                                         |                                       |
|    |                                            | Bus width<br>0: 8B<br>1: 4B    | BSA0 enable                    | BSA1 enable                    | 0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                                       |                                         |                                       |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(29) Byte28=94:SCA#0 error &amp; BSA#1 error

|    | 0                                           | 1                             | 2                                  | 3                                | 4                                                                                                                                         | 5                              | 6                             | 7                             |
|----|---------------------------------------------|-------------------------------|------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-------------------------------|
| 28 | Subcode: x'94':SCA#0 error & BSA#1 error    |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
| 29 | SCA#0::SCHK2                                |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | BSA data bus parity error                   | SPC data bus parity error     | SCA data bus parity error          | LA/LRC error                     | SCA hardware error                                                                                                                        | SBUS I/F error                 | MICRO access error            | Not used                      |
| 2A | SCA#0::BCHK2                                |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | BSA1 CHK2A/B                                | BSA1 CHK2C (control error)    | BSA1 CHK2D (arbiter error)         | Not used                         | Not used                                                                                                                                  | Not used                       | Not used                      | Not used                      |
| 2B | SCA#0::CXM                                  |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | (Not used)                                  | Bus mode                      |                                    |                                  | Transfer mode<br>0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                                |                               |                               |
|    |                                             | Bus width<br>0: 8B<br>1: 4B   | BSA0 enable                        | BSA1 enable                      |                                                                                                                                           |                                |                               |                               |
| 2C | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | AIN data parity error 0                     | AIN data parity error 1       | AIN data parity error 2            | AIN data parity error 3          | BIN data parity error 0                                                                                                                   | BIN data parity error 1        | BIN data parity error 2       | BIN data parity error 3       |
| 2D | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | SCB write data parity error 0               | SCB write data parity error 1 | SCB write data parity error 2      | SCB write data parity error 3    | BSA write data parity error 0                                                                                                             | BSA write data parity error 1  | BSA write data parity error 2 | BSA write data parity error 3 |
| 2E | BSA::BSASSB #02 (CHK2A information)         |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | CHK error                                   | Last cycle error              | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                                     | FDB parity error               | Slave 1 error                 | Slave 2 error                 |
| 2F | BSA::BSASSB #09 (CHK2B & CHK2C information) |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | HDB parity error                            | LRC GEN parity error          | Access parity error                | Invalid command                  | F bus timeout                                                                                                                             | WCHK1 assert                   | F bus timer parity error      | Request sequence error        |
| 30 | BSA::BSASSB #10 (CHK2C information)         |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | Request error                               | Control parity error          | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                                      | WR2/WR3 parity error           | RD1/RD2 parity error          | RD3/RD4 parity error          |
| 31 | BSA::BSASSB #11 (CHK2D information)         |                               |                                    |                                  |                                                                                                                                           |                                |                               |                               |
|    | LIVE INS                                    | F bus open                    | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                                       | Arbitration timer parity error | Request protocol error        | (RSV)                         |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(30) Byte28=98:SCA#0 error &amp; BSA#0 error

|    |                                             |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|----|---------------------------------------------|-------------------------------|------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-------------------------------|
|    | 0                                           | 1                             | 2                                  | 3                                | 4                                                                                                                        | 5                              | 6                             | 7                             |
| 28 | Subcode: x'98':SCA#0 error & BSA#0 error    |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
| 29 | SCA#0::SCHK2                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | BSA data bus parity error                   | SPC data bus parity error     | SCA data bus parity error          | LA/LRC error                     | SCA hardware error                                                                                                       | SBUS I/F error                 | MICRO access error            | Not used                      |
| 2A | SCA#0::BCHK2                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | BSA1 CHK2A/B                                | BSA1 CHK2C (control error)    | BSA1 CHK2D (arbiter error)         | Not used                         | Not used                                                                                                                 | Not used                       | Not used                      | Not used                      |
| 2B | SCA#0::CXM                                  |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | (Not used)                                  | Bus mode                      |                                    | Transfer mode                    |                                                                                                                          |                                |                               |                               |
|    |                                             | Bus width<br>0: 8B<br>1: 4B   | BSA0 enable                        | BSA1 enable                      | 0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                                |                               |                               |
| 2C | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | AIN data parity error 0                     | AIN data parity error 1       | AIN data parity error 2            | AIN data parity error 3          | BIN data parity error 0                                                                                                  | BIN data parity error 1        | BIN data parity error 2       | BIN data parity error 3       |
| 2D | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | SCB write data parity error 0               | SCB write data parity error 1 | SCB write data parity error 2      | SCB write data parity error 3    | BSA write data parity error 0                                                                                            | BSA write data parity error 1  | BSA write data parity error 2 | BSA write data parity error 3 |
| 2E | BSA::BSASSB #02 (CHK2A information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | CHK error                                   | Last cycle error              | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                    | FDB parity error               | Slave 1 error                 | Slave 2 error                 |
| 2F | BSA::BSASSB #09 (CHK2B & CHK2C information) |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | HDB parity error                            | LRC GEN parity error          | Access parity error                | Invalid command                  | F bus timeout                                                                                                            | WCHK1 assert                   | F bus timer parity error      | Request sequence error        |
| 30 | BSA::BSASSB #10 (CHK2C information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | Request error                               | Control parity error          | Transfer count over                | DBF address counter parity error | WRS/WR1 parity error                                                                                                     | WR2/WR3 parity error           | RD1/RD2 parity error          | RD3/RD4 parity error          |
| 31 | BSA::BSASSB #11 (CHK2D information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | LIVE INS                                    | F bus open                    | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                      | Arbitration timer parity error | Request protocol error        | (RSV)                         |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(31) Byte28=9C:SCA#0 error &amp; BSA#0 error &amp; BSA#1 error

|    |                                                        |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|----|--------------------------------------------------------|-----------------------------|----------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-----------------------|
|    | 0                                                      | 1                           | 2                          | 3                      | 4                                                                                                                                         | 5                             | 6                             | 7                     |
| 28 | Subcode: x'9C':SCA#0 error & BSA#0 error & BSA#1 error |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
| 29 | SCA#0::SCHK2                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA data bus parity error                              | SPC data bus parity error   | SCA data bus parity error  | LA/LRC error           | SCA hardware error                                                                                                                        | SBUS I/F error                | MICRO access error            | Not used              |
| 2A | SCA#0::BCHK2                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA0 CHK2A/B                                           | BSA0 CHK2C (control error)  | BSA0 CHK2D (arbiter error) | Not used               | Not used                                                                                                                                  | Not used                      | Not used                      | Not used              |
| 2B | SCA#0::BCHK2                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA1 CHK2A/B                                           | BSA1 CHK2C (control error)  | BSA1 CHK2D (arbiter error) | Not used               | Not used                                                                                                                                  | Not used                      | Not used                      | Not used              |
| 2C | SCA#0::CXM                                             |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | (Not used)                                             | Bus mode                    |                            |                        | Transfer mode<br>0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                               |                               |                       |
|    |                                                        | Bus width<br>0: 8B<br>1: 4B | BSA0 enable                | BSA1 enable            |                                                                                                                                           |                               |                               |                       |
| 2D | SCA#0::SCK21                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BUS GRT ID PER ST                                      | CMD ID PER 0 ST             | CMD ID PER 1 ST            | DCNT 0 parity error    | DCNT 1 parity error                                                                                                                       | SPC write data parity error 0 | SPC write data parity error 1 | PKT DCNT parity error |
| 2E | BSA::BSASSB #12 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | CHK error                                              | FDB parity error            | F bus bus error            | Slave error            | CHK2B                                                                                                                                     | Invalid command/sequence      | F bus timeout                 | WCHK1 assert          |
| 2F | BSA::BSASSB #13 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA data parity error                                  | BSA counter parity error    | Request error              | Sequencer parity error | LIVE INS                                                                                                                                  | F bus open                    | Arbitration error             | Arbitration timeout   |
| 30 | BSA::BSASSB #12 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | CHK error                                              | FDB parity error            | F bus bus error            | Slave error            | CHK2B                                                                                                                                     | Invalid command/sequence      | F bus timeout                 | WCHK1 assert          |
| 31 | BSA::BSASSB #13 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA data parity error                                  | BSA counter parity error    | Request error              | Sequencer parity error | LIVE INS                                                                                                                                  | F bus ope                     | Arbitration error             | Arbitration timeout   |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(32) Byte28=A4:SCA#1 error &amp; BSA#1 error

|    | 0                                           | 1                             | 2                                  | 3                                | 4                                                                                                                        | 5                              | 6                             | 7                             |
|----|---------------------------------------------|-------------------------------|------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-------------------------------|
| 28 | Subcode: x'A4':SCA#1 error & BSA#1 error    |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
| 29 | SCA#0::SCHK2                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | BSA data bus parity error                   | SPC data bus parity error     | SCA data bus parity error          | LA/LRC error                     | SCA hardware error                                                                                                       | SBUS I/F error                 | MICRO access error            | Not used                      |
| 2A | SCA#0::BCHK2                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | BSA1 CHK2A/B                                | BSA1 CHK2C (control error)    | BSA1 CHK2D (arbiter error)         | Not used                         | Not used                                                                                                                 | Not used                       | Not used                      | Not used                      |
| 2B | SCA#0::CXM                                  |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | (Not used)                                  | Bus mode                      |                                    |                                  | Transfer mode                                                                                                            |                                |                               |                               |
|    |                                             | Bus width<br>0: 8B<br>1: 4B   | BSA0 enable                        | BSA1 enable                      | 0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                                |                               |                               |
| 2C | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | AIN data parity error 0                     | AIN data parity error 1       | AIN data parity error 2            | AIN data parity error 3          | BIN data parity error 0                                                                                                  | BIN data parity error 1        | BIN data parity error 2       | BIN data parity error 3       |
| 2D | parity::SCK20                               |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | SCB write data parity error 0               | SCB write data parity error 1 | SCB write data parity error 2      | SCB write data parity error 3    | BSA write data parity error 0                                                                                            | BSA write data parity error 1  | BSA write data parity error 2 | BSA write data parity error 3 |
| 2E | BSA::BSASSB #02 (CHK2A information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | CHK error                                   | Last cycle error              | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                    | FDB parity error               | Slave 1 error                 | Slave 2 error                 |
| 2F | BSA::BSASSB #09 (CHK2B & CHK2C information) |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | HDB parity error                            | LRC GEN parity error          | Access parity error                | Invalid command                  | F bus timeout                                                                                                            | WCHK1 assert                   | F bus timer parity error      | Request sequence error        |
| 30 | BSA::BSASSB #10 (CHK2C information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | Request error                               | Control parity error          | Transfer over                      | DBF address counter parity error | WRS/WR1 parity error                                                                                                     | WR2/WR3 parity error           | RD1/RD2 parity error          | RD3/RD4 parity error          |
| 31 | BSA::BSASSB #11 (CHK2D information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | LIVE INS                                    | F bus open                    | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                      | Arbitration timer parity error | Request protocol error        | (RSV)                         |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(33) Byte28=A8:SCA#1 error &amp; BSA#0 error

|    | 0                                           | 1                             | 2                                  | 3                                | 4                                                                                                                        | 5                              | 6                             | 7                             |
|----|---------------------------------------------|-------------------------------|------------------------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|-------------------------------|
| 28 | Subcode: x'A8':SCA#1 error & BSA#0 error    |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
| 29 | SCA#0::SCHK2                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | BSA data bus parity error                   | SPC data bus parity error     | SCA data bus parity error          | LA/LRC error                     | SCA hardware error                                                                                                       | SBUS I/F error                 | MICRO access error            | Not used                      |
| 2A | SCA#0::BCHK2                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | BSA0 CHK2A/B                                | BSA0 CHK2C (control error)    | BSA0 CHK2D (arbiter error)         | Not used                         | Not used                                                                                                                 | Not used                       | Not used                      | Not used                      |
| 2B | SCA#0::CXM                                  |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | (Not used)                                  | Bus mode                      |                                    |                                  | Transfer mode                                                                                                            |                                |                               |                               |
|    |                                             | Bus width<br>0: 8B<br>1: 4B   | BSA0 enable                        | BSA1 enable                      | 0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                                |                               |                               |
| 2C | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | AIN data parity error 0                     | AIN data parity error 1       | AIN data parity error 2            | AIN data parity error 3          | BIN data parity error 0                                                                                                  | BIN data parity error 1        | BIN data parity error 2       | BIN data parity error 3       |
| 2D | SCA#0::SCK20                                |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | SCB write data parity error 0               | SCB write data parity error 1 | SCB write data parity error 2      | SCB write data parity error 3    | BSA write data parity error 0                                                                                            | BSA write data parity error 1  | BSA write data parity error 2 | BSA write data parity error 3 |
| 2E | BSA::BSASSB #02 (CHK2A information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | CHK error                                   | Last cycle error              | Error phase parity error           | Slave ID error                   | F bus read data error                                                                                                    | FDB parity error               | Slave 1 error                 | Slave 2 error                 |
| 2F | BSA::BSASSB #09 (CHK2B & CHK2C information) |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | HDB parity error                            | LRC GEN parity error          | Access parity error                | Invalid command                  | F bus timeout                                                                                                            | WCHK1 assert                   | F bus timer parity error      | Request sequence error        |
| 30 | BSA::BSASSB #10 (CHK2C information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | Request error                               | Control parity error          | Transfer over                      | DBF address counter parity error | WRS/WR1 parity error                                                                                                     | WR2/WR3 parity error           | RD1/RD2 parity error          | RD3/RD4 parity error          |
| 31 | BSA::BSASSB #11 (CHK2D information)         |                               |                                    |                                  |                                                                                                                          |                                |                               |                               |
|    | LIVE INS                                    | F bus open                    | Arbitration sequencer parity error | LI counter parity error          | Arbitration timeout                                                                                                      | Arbitration timer parity error | Request protocol error        | (RSV)                         |

Byte27=8A (Disk Adapter CHK2) Byte28-31

(34) Byte28=AC:SCA#1 error &amp; BSA#0 error &amp; BSA#1 error

|    |                                                        |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|----|--------------------------------------------------------|-----------------------------|----------------------------|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|-----------------------|
|    | 0                                                      | 1                           | 2                          | 3                      | 4                                                                                                                                         | 5                             | 6                             | 7                     |
| 28 | Subcode: x'AC':SCA#1 error & BSA#0 error & BSA#1 error |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
| 29 | SCA#0::SCHK2                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA data bus parity error                              | SPC data bus parity error   | SCA data bus parity error  | LA/LRC error           | SCA hardware error                                                                                                                        | SBUS I/F error                | MICRO access error            | Not used              |
| 2A | SCA#0::BCHK2                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA0 CHK2A/B                                           | BSA0 CHK2C (control error)  | BSA0 CHK2D (arbiter error) | Not used               | Not used                                                                                                                                  | Not used                      | Not used                      | Not used              |
| 2B | SCA#0::BCHK2                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA1 CHK2A/B                                           | BSA1 CHK2C (control error)  | BSA1 CHK2D (arbiter error) | Not used               | Not used                                                                                                                                  | Not used                      | Not used                      | Not used              |
| 2C | SCA#0::CXM                                             |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | (Not used)                                             | Bus mode                    |                            |                        | Transfer mode<br>0000 : Normal write<br>0001 : Normal read<br>001x : Cache to Cache<br>01xx : Double write/read<br>1000 : Broadcast write |                               |                               |                       |
|    |                                                        | Bus width<br>0: 8B<br>1: 4B | BSA0 enable                | BSA1 enable            |                                                                                                                                           |                               |                               |                       |
| 2D | SCA#0::SCK21                                           |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BUS GRT ID PER ST                                      | CMD ID PER 0 ST             | CMD ID PER 1 ST            | DCNT 0 parity error    | DCNT 1 parity error                                                                                                                       | SPC write data parity error 0 | SPC write data parity error 1 | PKT DCNT parity error |
| 2E | BSA::BSASSB #12 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | CHK error                                              | FDB parity error            | F bus bus error            | Slave error            | CHK2B                                                                                                                                     | Invalid command/sequence      | F bus timeout                 | WCHK1 assert          |
| 2F | BSA::BSASSB #13 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA data parity error                                  | BSA counter parity error    | Request error              | Sequencer parity error | LIVE INS                                                                                                                                  | F bus open                    | Arbitration error             | Arbitration timeout   |
| 30 | BSA::BSASSB #12 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | CHK error                                              | FDB parity error            | F bus bus error            | Slave error            | CHK2B                                                                                                                                     | Invalid command/sequence      | F bus timeout                 | WCHK1 assert          |
| 31 | BSA::BSASSB #13 (CHK2 information)                     |                             |                            |                        |                                                                                                                                           |                               |                               |                       |
|    | BSA data parity error                                  | BSA counter parity error    | Request error              | Sequencer parity error | LIVE INS                                                                                                                                  | F bus open                    | Arbitration error             | Arbitration timeout   |