

To:  
 cc:  
 From: Gerry Houlder  
 Date: 11/02/93 05:29:37 PM  
 Subject: MESSAGE PROCESSING

Message \ Phase	Sel	ID	Mout	Cmd	M-in	Resel	Disc	Data	Stat	Cpt
ABORT (06)	2	2	2	2	2	2	2	2	2	2
ABORT TAG (0D)	4	4	2	2	2	2	2	2	2	2
BUS DEVICE RESET (0C)	2	2	2	2	2	2	2	2	2	2
BUS DEV RST OTHER PORTS (14)	4	1	1	1	1	1	9,1	1	1	9,1
CLEAR QUEUE (0E)	2	2	2	2	2	2	2	2	2	2
CONTINUE I/O PROCESS (12)	4	1	1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
DISCONNECT (04)	4	3,1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
INITIATOR DETECTED ERR (05)	4	5	7	6	5	5	5	7	6	5
INITIATE RECOVERY (0F)	4	3,1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
IDENTIFY (Invalid)	3,7	4	4	4	4	4	4	4	4	4
IDENTIFY (Valid)	1	1	1	1	1	1	9,1	1	1	9,1
MESSAGE PARITY ERROR (09)	4	4	4	4	5	5	5	4	4	5
MESSAGE REJECT (07)	4	3,1	3,1	3,1	A	3,1	8	3,1	3,1	9,1
NO OP (08)	4	1	1	1	1	1	9,1	1	1	9,1
QUEUE - SIMPLE (20)	4	1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
QUEUE - ORDERED (22)	4	1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
QUEUE - HEAD (21)	4	1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
RELEASE RECOVERY (10)	4	3,1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
SYNCHRONOUS TRANSFER REQ	4	1	1	1	1	1	9,1	1	1	9,1
TARGET TRANS DIS (13)	4	1	1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
TERMINATE I/O PROCESS (11)	4	3,1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1
WIDE TRANSFER REQUEST	4	1	1	1	1	1	9,1	1	1	9,1
Invalid or reserved messages	4	3,1	3,1	3,1	3,1	3,1	3,9,1	3,1	3,1	3,9,1

NOTES:

- The responses for the Bus Device Reset Other Port message assume that the drive will implement this message. When the message isn't implemented (i.e. on drives which do not support dual-port SCSI), the responses will be as stated in the "invalid or reserved messages" row.
- When a parity error is detected on a byte received in a Message Out phase, the target will perform one retry of the Message Out transfer. If the retry is not successful, the target will perform an unexpected Bus Free.

PHASEABBREVIATIONS

SELECTION	Sel
IDENTIFY (AFTER SELECTION)	Id
MSG OUT	Mout
COMMAND	Cmd
MSG IN (NOT CPLT OR DISC)	M-in
RESELECT (AFTER IDENTIFY)	Resel
MSG IN (DISCONNECT)	Disc
DATA IN/OUT	Data
STATUS	Stat
MSG IN (COMMAND COMPLETE)	Cplt

RESPONSES BY NUMBER

- 1) Continue
- 2) Go Bus Free
- 3) Send Message Reject
- 4) "Unexpected Bus Free"
- 5) Retry Message Phase
- 6) Send Restore Pointers, Retry Phase
- 7) Go to Status with Check Condition
- 8) Continue with no disconnect for that I/O process.
- 9) Re-send message in (Disconnect or Command Complete).
- A) If M-in is Save Data Pointer, do response 8. Otherwise, do response 1.