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Subject: NCITS T10 - Project 1302D - SCSI Parallel Interface-3

Attached is the IBM public review comment on the SCSI Parallel Interface-3 (SPI-3) standard. It is BSR 336 (T10 project 1302D). The public review period for this standard ends 4/24/00.

There is a conflict in spi3r13a. In section 16.5.2 (page 168) it states:

In addition to the requirements in the SCSI Architecture Model-2 standard the target shall go to the BUS FREE phase following the successful receipt of the ABORT TASK message.

However, in section 10.8.3.3.3 (page 110) is states:

If the initiator receives a SPI L\_Q information unit with a type code that is not defined in table 39 that initiator shall create an attention condition after negating the ACK for the last byte of the iuCRC in the SPI L\_Q information unit and before negating the ACK for the last byte of the last iuCRC in the information unit that follows the SPI L\_Q information unit. When the target switches to a MESSAGE OUT phase the initiator shall send an ABORT TASK message (see 16.5.2) to the target. The target shall send a SPI L\_Q/SPI status information unit pair to the initiator with a CHECK CONDITION status and a sense key set to ABORTED COMMAND for the task associated with the received ABORT TASK message.

How can the target send a SPI L\_Q/SPI status information unit pair to the initiator after the command has been aborted?

In sam2r13 section 7.7.3 (page 70) states:

A task abort event shall cause the task to unconditionally enter the Ended state.

Further more, sam2r13 section 7.5.4 (page 68) states:

A task in the Ended state is removed from the task set.

Since an aborted task is moved unconditionally to the ended state, which removes it from the task set, it is impossible to respond to the Abort Task message with a SPI L\_Q/SPI status information unit pair (the target has gone to bus free and the task no longer exists). In all other cases an aborted command goes to bus free and is never heard from again (this is an expected bus free condition).

SPI-3 should be changed to require the target to go bus free a receipt of the above Abort Task Message.

Best regards,  
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