TO: X3T9.2 Committee

Nov 1, 91

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Subject: Addition of a new Message to SCSI-3 Message set

Proposal :

There are two recommended SCSI terminators in the SCSI-2 standard. The standard committee for SCSI-3(single ended) is now facing two more proposals to deal with one of which is active negation. Further, if a SCSI chip is driving an unknown bus, it could adjust its drivers to match the bus characteristics closer.
There is a need to identify the type of driver that each SCSI device can have on the bus. For example an Initiator can send a Message to each device on the bus and find out that device #2 has active negation, where device #3 and #5 are open drain only. If an Initiator decides to tell Target #2 to turn off its active negation, it could do so.

7.x.x.x. Identify/Set   drivers

This is an extended message designed to identify and set drivers in any Target that has connected to the SCSI bus.
The message is issued to a Target by an Initiator. Target shall receive the message bytes and respond to it by sending a message accepted or message reject (07h). The following table explains how the byte order is defined.

Byte	Value	Description
0	01h	Extended Message
1	03	Extended Message length
2	nnh	Identify & set drivers
3	x	Turn on/off active negation driver
4	x	detect terminator type

This Message protocol will be similar to SDTR (Synchronous Data Transfer Request).