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Mori-san,

This letter is in response to your letter of September 5, 1991. First I will give a brief status of SCSI-2. X3T9 voted to forward SCSI-2 revision 10h at their December, 1991 meeting. The document will go out for it's second public review during the first half of 1992. I will provide camera ready copy to ANSI for publication. A copy of revision 10h is enclosed for your review and comment. Please contact me if there are any questions.

In answer to your specific questions:

1) Section 7.3.2 par14: "The value of the ETC bit is the same for cumulative and threshold parameters." Enabling threshold comparison causes the cumulative values to be compared to the threshold value whenever the cumulative gets updated.

   The statement is not worded the best, but was intended to clarify that the ETC bit is not applied to one or the other sets of parameters. Do so is not logical given an understanding of log parameter functions.

   I have included a copy of X3T9.2/90-120 Revision 3. This document is the proposed text for a Technical Information Bulletin on implementation of log parameters.

2) Section 14.3.3.1, Table 14-23: "What is the size of a point?" Yes the assumption is that a point is 1/72 of an inch.

   There is another committee, IT8, that works with scanner devices. I am not very familiar with them, and as such section 14 is not as well written as it should be. The SCSI-3 version of the scanner command set will hopefully address these issues.

3) Section 4.7, Table 4-7: "Why has the arbitration delay been changed to 2.4 microseconds?" John Lohmeyer prepared a model of the arbitration logic in a spreadsheet. The result of the model indicated that 2.2 microseconds was an insufficient arbitration delay at maximum cable length.

   A copy of the spreadsheet file in 'wks' (Lotus 123) format is available if you want to play with the model. Let me know if you are interested.

4) SCSI-3: the SCSI-3 project has been approved. The road map is shown in Figure 1. Note that SCSI-3 is really several projects.
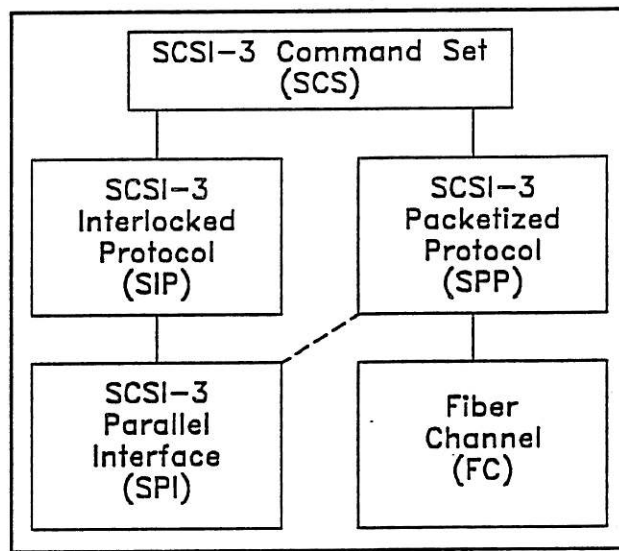
   There is one project for the SCSI-3 Physical which defines a 16-bit single connector version of wide SCSI, better cable requirements, and additional improvements to the physical interface. There may be other physical layer documents.

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There is one project for the SCSI-3 Interlocked Protocol which defines the current SCSI-2 method of doing phases and messages. It may also contain a Nexus Transfer option that would use only arbitration, selection and data transfer phases to improve performance on the bus. There will be other protocol documents, notably one on Packetized Protocol.

There is one project for the SCSI-3 Command Set. This will most likely get divided up into three projects, one for block devices, one for stream devices, and one for other devices. However there is very little work taking place on the command sets, so it is to early to tell what the final outcome will be.

The SCSI-3 Physical and Interlocked Protocol documents should complete the technical development by the end of 1992. At that point I expect a stable draft document, and the beginning of the process to become a standard.

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+-------------------------------------------------+
|              SCSI-3  Command  Set               |
|                    (SCS)                         |
|                                                  |
|   +--------------+         +--------------+      |
|   |   SCSI-3     |         |   SCSI-3     |      |
|   | Interlocked  |         | Packetized   |      |
|   |  Protocol    |         |  Protocol    |      |
|   |   (SIP)      |         |   (SPP)      |      |
|   +--------------+    /    +--------------+      |
|   +--------------+ /       +--------------+      |
|   |   SCSI-3     |         |              |      |
|   |  Parallel    |         |   Fiber      |      |
|   |  Interface   |         |  Channel     |      |
|   |   (SPI)      |         |    (FC)      |      |
|   +--------------+         +--------------+      |
+-------------------------------------------------+
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Best Regards,

Lawrence J. Lamers