

Accredited Standards Committee*
X3, Information Processing Systems

Doc. No. X3T10/95-150r0
Date: January 26, 1995
Project:
Ref. Doc.:
Reply to: G. Milligan

To: Membership of X3T10

From: Milligan

Subject: Minutes of X3T10 ATA Working Group - January 26, 1995

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1. Opening Remarks

Gene Milligan convened the meeting at 9:30 am. He thanked Jim McGrath of Quantum for hosting the meeting. Unfortunately Jim was ill and could not attend. He requested a volunteer to take the minutes and grumbled when no one volunteered.

As is customary, the people attending introduced themselves. A copy of the attendance list was circulated for attendance and corrections.

It was stated that the meeting had been authorized by X3T10 and would be conducted under the X3 rules. Ad hoc meetings take no final actions, but prepare recommendations for approval by the X3T10 task group. The voting rules for the meeting are those of the parent committee, X3T10. For the ad hoc, other than straw votes, the voting rules are: one vote per participating company.

The minutes of this meeting will be posted to the X3T10 BBS and the ATA Reflector and will be included in the next X3T10 committee mailing.

2. Attendance and Membership, Introductions

Attendance at working group meetings does not count toward minimum attendance requirements for X3T10 membership. Working group meetings are open to any person or company to attend and to express their opinion on the subjects being discussed.

The following people attended the meeting.

NAME	ORGANIZATION	EMAIL
Mr. Lawrence J. Lamers	Adaptec, Inc.	ljlammers@aol.com
Mr. Joe Chen	Cirrus Logic Inc.	chen@cirrus.com
Mr. Marc Noblitt	Conner	marcnoblitt2conner.com
Mr. Jeff Epstein	Future Domain	jeffe@fdc.mhs.compuserve.com
Mr. Pete McLean	Maxtor Corp.	pete_mclean@maxtor.com
Mr. Gene Milligan	Seagate Technology	gene_milligan@notes.seagate.com
Mr. Devon Worrell	Western Digital Corporation	worrell@dt.wdc.com
Mr. Tom Hanan	Western Digital Corporation	hanan_t@a1.wdc.com

3. Document Distribution

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4. Arbitration

Devin Worrell reviewed the revisions he had made to the arbitration proposal. The key change was the addition of a proxy interrupt function based upon usage of the PDIAG line between the devices. John @@@ observed that the Quantum hardware would abort upon receipt of the A2 command. He concludes based upon this that all three of the proposals shown to date would require silicon changes. He is not opposed to silicon cahnges per se, but wants full definition of both the overlap and queuing functions for one grand change rather than several changes.

The primary purpose of the A2 command is to give the device notice to reconstruct the Task File Register.

Les @@@ requested two bits be added with one indicating overlap, another indicating proxy, and the other bit indicating queuing.

PCI uses two specific operation codes for DMA requests.

When selected the device should not device PDIAG.

It is intended that proposed PCI DMA bit be mandatory if the operation is overlapped. Devicers should enable the PCI DMA bit.

It is assumed that bridge chips will swallow extraneous interrupts.

5. Call for Patents

Gene Milligan requested that anyone aware of andy patents required for the proposals be disclosed early in accordance with the ANSI patent policy. Refer to the minutes of prior meetings for items already identified.

6. Action Items

- 1) Devin Worrell to rename the A2 command to avoid the confusion with the DEV bit by 2/15/95.
- 2) @@@ to check to see if Intel will release for open control the definitions presently published in SFF 8??? by 2/15/95.
- 3) Devin Worrell to add appropriate specificity to the interaction of command overlap and power modes by 2/15/95.
- 3) Devin Worrel to adjust the overlap and queuing proposal according to the results of this meeting and in particular to recast it in specification format suitable for detailed technical review and, if accepted, to have portions or the entire proposal integrated into the ATA Working Draft 2/15/95.

7. Meeting Schedule

February 15-16, 1995 in Milpitas, CA starting at 9:30 am 2/15 and 9:00 am 2/16: Hosted by Quantum.

March 8-9, 1995 in Orange County hosted by Q Logic

April 12-13, 1995

Jun 21-22, 1995

8. Adjournment

The meeting adjourned when all the business was completed.