

Minutes of T11.1 Plenary meeting #4
February 11, 1998
San Diego, CA

1. Opening remarks and introductions

The acting Chairman, Don Tolmie of Los Alamos National Laboratory, opened this meeting at 6:00 PM and thanked Skip Jones and QLogic for hosting this meeting. Don lead a round of introductions. The list of attendees is at the end of these minutes.

These minutes are separate from the HIPPI working group, and HIPPI-6400 Optical working meeting, minutes. Don volunteered to produce the minutes.

2. Review / modify the draft agenda

Draft agendas were distributed via e-mail before the meeting and hard copies were distributed at the meeting. No changes were made at the meeting.

3. Attendance and membership

The membership and voting rules were reviewed. (See the web page at <http://www.x3.org/>, look under Standing Documents, then SD2, for our operating procedures including a detailed explanation of the membership rules).

The following member organizations were in jeopardy for failure to attend meetings:

- Berg (present so do not lose membership)
- Boeing (not present, lost membership)

New members include:

- Tensolite with Al Kelley as the Principal and Bill Kuypers as the Alternate.

No other membership changes were made. With a gain of 1, and a loss of 1, the T11.1 membership is 10 member organizations.

Genroco will lose their membership if they are not present at the April T11 Plenary meeting.

4. Document distribution

Don described the HIPPI web page at <http://www.cic-5.lanl.gov/~det/>, stating that the appropriate documents would be placed there, and encouraged people to pick up the documents before the meeting as extra documents would not be available at the meeting.

5. Review minutes of previous meeting

The minutes of the December 10, 1997, T11.1 Plenary in Orlando were reviewed.

Roger Cummings moved, and Jeff Young seconded, to approve the December 10, 1997, T11.1 minutes as written. Motion passed unanimously.

6. Review old action items

1. Don Tolmie to take the necessary actions to get HIPPI-FP Rev 4.8 through T11 and into first public review. (Done, PR closes 3/17/98)

7. Liaison reports

7.1 T11

Roger Cummings, T11 Chairman, gave a detailed report, parts of which are included here.

100 people attended the December T11 Plenary. Membership of T11 now is 83 organizations (total attendance of 134 people for the week).

Notification has been received that X3.218:1993, HIPPI-LE, needs to be reaffirmed in 1998.

The dpANS for HIPPI-FP passed its OMC compliance review. First public review closes March 17.

Requests to form T11.3 & T11.4 were recommended for approval by OMC. NCITS LB closes 3/14.

The enhancements to the T11 web page to supporting automatic document numbering etc. are now in place: Ergonomics very rough, but functional. Cannot yet edit representative names, or meetings. Try it and see - all feedback welcomed !

Draft T11 procedures for usage of the online facilities mailed last night to the reflector Please submit all documents and drafts for the next mailing by 1159pm 2/19

7.2 HNF

No formal HNF report was received. The article in PC Week about HIPPI-6400 was felt to be very good. The author was unknown, but it was assumed that it came out of the HNF Marketing Committee.

7.3 ISO report

The following HIPPI documents have been published as ISO standards:

HIPPI-PH	ISO/IEC 11518-1:1995
HIPPI-FP	ISO/IEC 11518-2:1996
HIPPI-LE	ISO/IEC 11518-3:1996
HIPPI-SC	ISO/IEC 11518-6:1996

HIPPI-ATM and HIPPI-Serial are being processed in the ISO Fast Track procedure. USA votes (through the US TAG), are due March 20, 1998, for the ISO Draft International Standard (DIS) letter ballots which close April 16, 1998. T11 instructed the T11 International Representative that the votes should be "for approval". These documents will be:

HIPPI-ATM	ISO/IEC 11518-8:199x
HIPPI-Serial	ISO/IEC 11518-9:199x

7.4 Other liaison reports

None

8. Patent issues

8.1 Hewlett-Packard patents against HIPPI-6400-PH and ST

The HP patent claims against ST are being worked on by Hewlett-Packard and SGI.

8.2 Call for other patents

A call was issued for disclosure of the existence of patents required to implement any and all HIPPI standards. It is necessary for the patent holders to agree to license those patents in conformance with the ANSI patent policy if the project on which they apply is to proceed. T11 and its Task Groups are not involved in this process at all other than to issue the call and forward paperwork.

The contact at ANSI is the General Counsel, Ms. Amy Marasco - (212) 642-4954 or amarasco@ansi.org. A patent policy description is at www.ansi.org/proctbl.html, section 1.2.11.

No new patent claims were made at this meeting.

9. Review and act on projects in ANSI development phase

9.1 Scheduled Transfer Protocol

9.1.1 Working Group activity

Rev 1.4 was reviewed at the February meeting. Changes to correct and refine the document continue. Recent changes include expanding some of the parameter fields, and shuffling the fields in the header, to prevent aliasing. State tables for an informative annex are being developed and reviewed.

9.2 HIPPI-6400-OPT

9.2.1 T11.2 (Physical Variant) activity

Text was reviewed for Loss_of_Signal and Transmit_Disable. It was agreed that Loss_of_Signal should be mandatory, and Transmit_Disable optional. Side-load, and other issues for MTP connector were presented. It was agreed that the connector figure in Rev 0.3 would be replaced with one showing a module side since that is what we are standardizing. A presentation on ribbon cable properties was well received, and showed that fibers with bandwidth*distance products supporting longer distances were available, albeit at higher prices. Least common denominator cable with 160 MHz*Km would probably support 200 meter spans.

10. Review projects in approval phase

10.1 HIPPI-6400-PH

HIPPI-6400-PH Rev 1.9 passed its T11 Letter Ballot on November 21 and the comments resolved. The document had been held to allow further testing of the SuMAC and cables. Testing to date has been positive, and not shown any document problems. A ball-grid connector attachment is under consideration, but is not precluded by the present document text. Changes to a note clarifying bit and byte order was made at the February meeting, reviewed, and accepted.

Don Tolmie moved, and Jeff Young seconded, that T11.1 forward HIPPI-6400-PH Rev 2.2 to T11 for further processing (OMC compliance review and 1st public review). A roll-call vote was tabulated as:

- Berg Yes
- Digital Yes
- DPT Yes
- Genroco..... Not voting
- Hewlett-Packard Yes
- Los Alamos..... Yes
- Optivision..... Not voting
- Raytheon E-Systems ... Yes
- SGI / Cray Yes
- Tensolite..... Yes

The motion passed, 8 for, 0 opposed, and 2 not voting. This meets the 2/3 rule.

10.2 HIPPI-6400-SC

HIPPI-6400-SC Rev 1.7 passed its T11 Letter Ballot on November 21 and the comments resolved. The document had been held so that it could be forwarded at the same time as HIPPI-6400-PH.

Roger Ronald moved, and Don Tolmie seconded, that T11.1 forward HIPPI-6400-SC Rev 1.9 to T11 for further processing (OMC compliance review and 1st public review). A roll-call vote was tabulated as:

- Berg Yes
- Digital Yes
- DPT Yes
- Genroco..... Not voting
- Hewlett-Packard Yes
- Los Alamos..... Yes
- Optivision..... Not voting

- Raytheon E-Systems.... Yes
- SGI / Cray..... Yes
- Tensolite Yes

The motion passed, 8 for, 0 opposed, and 2 not voting. This meets the 2/3 rule.

10.3 HIPPI-FP Revision

HIPPI-FP Rev 4.7 has been forwarded by T11 for an OMC compliance review and NCITS 1st public review. The compliance review completed successfully. The first public review closes March 17; to date no comments have been received. It was agreed that forwarding for ISO processing should wait for the ANSI standard to be completed and we could use the ISO Fast Track procedures.

11. Review other HIPPI-related items

There were no actions required by T11.1, or any action taken, on any of the following activities:

- ARP over HIPPI-800
- HIPPI end-point MIB
- HIPPI switch MIB
- HIPPI-6400 MIB
- HIPPI-6400 ARP and IP RFC
- IEEE Tutorial for HIPPI-6400 ULA usage

12. New business and new technical items

12.1 HIPPI-LE sunset date

HIPPI-LE became an approved ANSI standard in 1993. With a 5-year sunset on standards, T11.1 needs to either (1) reaffirm the standard without changes, or (2) revise the standard, or (3) withdraw the standard.

Don showed a current list of possible changes to the document. These four changes are editorial in nature and were requested by the ISO editor when HIPPI-LE became an ISO standard. It was felt that revising the ANSI standard to include just these changes was not worth the effort.

A call was issued for other proposed changes to HIPPI-LE. The call will be open for four months. T11.1 will vote on the course of action (e.g, revise or reaffirm), at the June T11.1 Plenary in St. Petersburg Beach, FL.

12.2 HIPPI-SC revision to ISO

The revision to HIPPI-SC was recently approved as an ANSI standard. The ISO version of HIPPI-SC is now out of date.

Don Tolmie moved, and Bob Willard seconded, that T11.1 submit ANSI X3.222:1997, HIPPI-SC revised, to T11 for ISO Fast Track processing. A roll-call vote was tabulated as:

- Berg Yes
- Digital Yes
- DPT Yes
- Genroco..... Not voting
- Hewlett-Packard Yes
- Los Alamos..... Yes
- Optivision..... Not voting
- Raytheon E-Systems ... Yes
- SGI / Cray Yes
- Tensolite..... Yes

The motion passed, 8 for, 0 opposed, and 2 not voting. This meets the 2/3 rule.

12.3 HIPPI-FP revision to ISO

The revision to HIPPI-FP is in the ANSI approval process. Don suggested that rather than submitting it to ISO now (as a New Work Item), that we wait until it is an approved ANSI standard and then submit it for Fast Track processing. This plan was approved.

13. Administrative matters

Don noted that he is submitting a complete set of the 1997 HIPPI-6400-PH, HIPPI-6400-SC, and ST documents to Dal Allan for inclusion in the CD-Access system. Those who signed up for CD-Access instead of T11 paper mailing, or the basic CD-ROM, will then have all the complete sets.

14. Future meeting schedule

14.1 Interim meeting, March 10-11, 1998

The next interim working meeting will be hosted by Jeff Young and Cray Research in Minneapolis/St. Paul, MN. The meeting will be held at the Cray Research facility. A block of hotel rooms has been set aside at the Hampton Inn in Eagen, MN, phone 612-688-3343, group name = T11. Other venue details, including driving instructions, are available on the HIPPI Standards Activities web page at <http://www.cic-5.lanl.gov/~det/>.

We had initially planned for a 3-day meeting based on the projected work load. At the January meeting it was cut back to two days.

- Tuesday - March 10 : 2 PM - 9 PM
- Wednesday - March 11 : 8 AM - 9 PM

14.2 Plenary week, April 21-22, Palm Springs, CA

The next Plenary meeting will be on Wednesday, April 22, from 6 PM to 8 PM. The location is the Hyatt Regency Suites Palm Springs, 285 North Palm Canyon Drive, Palm Springs, CA 92262, phone 760-322-9000 or 800-233-1234. Jeff Stai and Brocade Communications Systems are the host. The group name for reservations is "Brocade", and the group room rate is \$122 per night including tax and parking. The reservation cutoff date is March 20, 1998. (See the meeting announcement on the web page at <http://www.cic-5.lanl.gov/~det/> for further details.)

14.3 Future meeting dates and locations

The T11.1 (i.e., HIPPI), Plenary meeting will be on Wednesday evening of the T11 Plenary week, following the HIPPI working meetings. As a result of forming the T11.3 and T11.4 Task Groups, T11 may move their Plenary meeting to Thursday afternoon. Roger Ronald suggested that we slide our meetings closer to the T11 Plenary. The April meeting will be on our original schedule, future meetings may take this into account.

The 1998 schedule is firm. Note that T11 schedules the plenary meetings. Hopefully HIPPI-6400 will be far enough along that we will not continue to need interim working meetings after May. Recent additions and changes are underlined and bold.

1998 -

May 12-13	Interim	Mt. View, CA	SGI
Jun 9-10	Plenary	St. Petersburg Beach, FL	AMP
Aug 11-12	Plenary	Portsmouth, UK	Xyratex
Oct 6-7	Plenary	Ft. Lauderdale, FL	Adaptec
Dec 14-18	Plenary	Tucson	FSI

All of the 1999 and 2000 schedules are new, and just includes the Plenary weeks; no interim working meetings are scheduled yet. Meeting locations and hosts marked with (?) are tentative at this time. The meetings in bold underline without a (?) have been firmed up. Note that the HIPPI and T11.1 meeting days are not specified; they will be somewhere within the Plenary week.

1999 -

Feb 8-12	Plenary	San Diego, CA	Qlogic
Apr 5-9	Plenary	Palm Springs, CA	Brocade
Jun 7-11	Plenary	Minneapolis, MN (?)	Ancor
Aug 2-6	Plenary	<u>Minneapolis, MN</u>	ENDL
Oct 4-8	Plenary	Ft. Lauderdale, FL	Adaptec
Dec 6-10	Plenary	Reno, NV (?)	Solution

2000 Proposed dates -

Feb 7-11	Plenary	San Diego, CA (?)	QLogic
Apr 3-7	Plenary	Palm Springs, CA (?)	Brocade
Jun 5-9	Plenary	(?)	(?)
Aug 7-11	Plenary	(?)	(?)
Oct 2-6	Plenary	San Diego, CA (?)	QLogic
Dec 6-10	Plenary	(?)	(?)

14.4 Meeting authorization

The T11.1 Chairman, Don Tolmie, authorized the following T11.1 interim working meetings. Don will chair these meetings.

March 10-11	Minneapolis, MN
April 21-22	Palm Springs, CA
May 12-13	Mountain View, CA
June 9-10	St. Petersburg Beach, FL

15. Review action items

1. Don Tolmie to present HIPPI-6400-PH Rev 2.2 to T11 with a request that it be forwarded for OMC compliance review and first public review.
2. Don Tolmie to present HIPPI-6400-SC Rev 1.9 to T11 with a request that it be forwarded for OMC compliance review and first public review.

3. Roger Ronald to provide a clean copy of HIPPI-6400-SC Rev 1.9 for forwarding.
4. Don Tolmie to request that T11 take the necessary actions to start the ISO Fast Track processing of ANSI X3.222:1997, HIPPI-SC revised.

16. Adjournment

Jeff Young moved, and Ed Cady seconded to adjourn. The meeting adjourned at 6:45 PM.

Notes from February T11 Plenary

The T11 Plenary met the next day, i.e., February 12. HIPPI related items are reported here for your convenience, the definitive record is the T11 minutes.

The HIPPI-ATM and HIPPI-Serial ANSI standards are being processed in the ISO Fast Track procedures. By a roll-call vote of 59 for, 0 opposed, and 19 not voting, T11 recommend positive votes to the US TAG. The ISO Draft International Standard (DIS) votes close 4/16/98.

By a roll-call vote of 59 for, 0 opposed, and 19 not voting, T11 forwarded ANSI X3.222:1997, HIPPI-SC Revised, for ISO Fast Track processing.

By roll-call votes of 63 for, 0 opposed, and 17 not voting, T11 forwarded HIPPI-6400-PH Rev 2.2, and HIPPI-6400-SC Rev 1.9, for OMC compliance reviews and first public reviews.

Rich Taborek of G2 Networks proposed a project for mappint the VIA protocol directly on top of Fibre Channel. Several of us met with Rich off-line and suggested that it may be appropriate to include Scheduled Transfer between VIA and FC. Rich presented the project proposal to T11, but deferred action on it until the April meeting. T11.4 has requested a ST presentation at the April meeting, and Greg Chesson has agreed to do it (most likely on 4/20, Monday evening). The FC-AV (Fibre Channel - Audio Video group) also requested a presentation on ST at their April meeting, and Don has agreed to do it on 4/24, Friday morning.

T11.1 Plenary meeting minutes - February 11, 1998

T11 is going to a one-character revision digit on documents. Hence, our documents as they change will be numbered 0-9, then A-Z (e.g., Rev 0, Rev 1, ...

Rev 9, Rev A, Rev B, etc.) rather than Rev 1, Rev 1.1, Rev 1.2, ... Rev 2.0, etc.

Attendance

Ed Cady	P	Berg	503-359-4556	edcady@aol.com
Jeff Young	A	Cray Research Inc.	612-683-5536	jsy@cray.com
Gordon Boyd	A	Digital Equipment Corp.	603-884-1309	boyd@solvit.enet.dec.com
Bob Willard	P	Digital Equipment Corp.	978-493-5482	bob.willard@digital.com
Roger Cummings	P	DPT	407-830-5322 x348	cummings_roger@dpt.com
Greg Huff	P	Hewlett-Packard	972-497-4530	huff@convex.hp.com
Don Tolmie	P	Los Alamos National Lab	505-667-5502	det@lanl.gov
Roger Ronald	P	Raytheon E-Systems	972-205-8043	rronald@esy.com
Greg Chesson	P	Silicon Graphics	650-933-3496	greg@sgi.com
James Pinkerton	O	Silicon Graphics	650-933-4943	jimp@sgi.com
Al Kelley	P	Tensolite Co.	904-829-5600 x281	akelley@tensolite.com

P = Principal, A = Alternate, O = Observer