

**IEEE P1800 SystemVerilog Working Group
UNAPPROVED MINUTES
17 December 2004
9:00 a.m. – 5:00 p.m. IST
Mentor Graphics
Wilsonville, OR USA**

1 CALL TO ORDER

Chair Srouji called the meeting to order 9:13 am.

Introductions were made and attendance was taken of the participants. DR/DRA status, affiliations, guest and staff status was determined and recorded.

Key: DR= Designated Representative
DRA= Designated Representative Alternate
O=Observer
S=Staff

Present	Entity Name	Representative Name	Representative Designation	IEEE-SA Member	Voting Member
X	Intel	Johny Srouji	DR	Yes	Yes
X	Accellera	Vassilios Gerousis	DR	Yes	Yes
X	Bluespec	Rishiyur Nikhil	DR	Yes	Yes
X	Cadence Design Systems	Victor Berman	DR	Yes	Yes
X	Fintronic USA	Alec Stanculescu	DR	Yes	Yes
X	IBM	Yossi Lichtenstein	DRA	Yes	Yes
	Infineon	Wolfgang Ecker	DR	Yes	Yes
X	Mentor Graphics	Dennis Brophy	DR	Yes	Yes
X		Tom Fitzpatrick	DRA		
X	Sun Microsystems	Neil Korpusik	DRA	Yes	Yes
X	Sunburst Design	Cliff Cummings	DR	Yes	Yes
X	Sutherland HDL	Stu Sutherland	DR	Yes	Yes
X	Synopsys	Oz Levia	DR	Yes	Yes
X		Karen Pieper	DRA		
Observers					
Staff					
X	IEEE-SA	Noelle Humenick	S	No	No
X	IEEE-SA	Andrew Ikowitz	S	No	No

The full IEEE P1800 SystemVerilog Working Group Roster with attendance history including this meeting can be found on eda.org.

[Download Roster](#)

2 APPROVAL OF AGENDA

A motion (Alec Stanculescu, Oz Levia) was made to approve the agenda. The motion was unanimously approved.

3 CALL FOR PATENTS

IEEE Patent slides were read and presented to the team by Secretary Brophy. The patent slides can be found at the IEEE-SA PatCom website.

[Download Patent Slide set \(PowerPoint\)](#)

4 APPROVAL OF 22 NOVEMBER 2004 MEETING MINUTES

Modifications proposed to the 22 November 2004 were made to the meeting minutes that had been emailed prior to the meeting.

A motion (Vassilios Gerousis, Dennis Brophy) was made to approve the 22 November 2004 meeting minutes as amended. The motion was unanimously approved.

5 ACTION ITEM REVIEW AND FOLLOW-UP

Chair Srouji reviewed the action items that had been collected prior to the start of the meeting that were not closed. The status of the open items was updated in the action list spreadsheet and any documentation on the discussion during this process can be found in the updated action item list. (See download hyperlinks below.)

[Download Pre-Meeting Action Item List](#)

[Download Action Item List](#)

6 DISCUSSION AND REVIEW OF THE PATENTS FORM AND OUTCOME OF PATCOM MEETING ON 6 DECEMBER 2004

PATCOM reviewed our request and they added the checkbox for a new LOA form that we had requested. The form itself is not yet available, but in principle it is available.

There is an issue with the current P1800 P&Ps. Noelle suggests we make the following change. “The working group shall require assurance from patent holders in the form of subclause 6(a) of the IEEE-SA Standards Board Bylaws.” to “The working group shall require adherence to clause 6, Patents, of the IEEE SA Board Bylaws.”

A motion was made (Oz Levia, Victor Berman) to modify the P&Ps to delete the third sentence and add “The working group shall require adherence to clause 6, Patents, of the IEEE SA Board Bylaws.” The motion passed unanimously.

8 P1800 FINANCIAL REPORT UPDATE

Noelle gave a financial report to the group and also a list of risks for the P1800 project. Risks to the project will be discussed in other agenda items. Due to the confidential nature of the financial report, the information is available upon request to working group members. Contact Secretary Brophy for a copy.

Action Request: [Vassilios Gerousis] Accellera to put IEEE P1800 and P1364 behind a password protected area.

9 STATUS UPDATE ON MEMBERS FEES COLLECTIN AND NEXT PAYMENTS TO IEEE-SA

A report on paid and purchase order fee payments along with unpaid fees was given. Those who have failed to pay the fee are IBM, Infineon and Verisity. Assignments will be made to contact each of these companies to understand their desire to participate. In the meantime, the group will cut discretionary travel for the editor and marketing expenses.

Action Request: [Johny Srouji] Contact Verisity and IBM and share information with Victor Berman & Oz Levia.

Action Request: [Dennis Brophy] Contact Infineon and share information with Victor Berman and Oz Levia.

Action Request: [Oz Levia and Victor Berman] Keep Noelle current with payment information.

Action Request: [Noelle Humenick] In the short-term, determine if we can split Stu's contract in to parts to keep him moving forward.

A motion was made (Oz Levia, Victor Berman) to increase the 2005 dues for companies with revenue over \$1B to \$7K, and companies with revenue between \$100M-\$1B to \$5K and for companies with revenue between \$10M-\$100M to \$1K. The motion was unanimously approved.

Action Request: [Victor Berman and Oz Levia] Publish new spreadsheet with updated increased fees to determine if the increased fees cover the costs.

10 STATUS UPDATE ON 1364 ERRATA – OPEN ISSUES; APPROVED AND PENDING WG RATIFICATION

Tom and Neil presented the 1364 status update.

The presentation recapitulated the deprecation of PLI 1.0. Fintronic (Alec Stanculescu) objected to the deprecation of PLI 1.0. He believes this is a serious issue for Verilog and believes the action is totally irresponsible. PLI 1.0 should not be deprecated as it is currently being used. Only when it is not being used should it be considered for deprecation.

There was an issue raised that there could be legal issue with product exports that contain encryption technology. It was noted that the group in considering this feature did not directly address this. The encryption committee did not include the standard list of 1364 WG participants that we normally see in it – and now those participants want to discuss this export issue.

[Download 1364 Report](#)

11 STATUS UPDATE OF IEEE SYSTEMVERILOG LRM AND ISSUES THAT WERE INCORPORATED INTO DRAFT 2.0

[Download Karen Report](#)

Download Karen's slides for complete details on the status of individual items.

The CC met today and there were some modifications to the status on Karen's slides. In the CC committee today, 50 passed, 53 passed with one against, 55 was not discussed, 56 consensus was not reached and 332 passed and 333 passed today. 62 was not discussed and 77 was not discussed. The committee did not determine what to do next with those issues that were not addressed.

The group discussed project timing and determined that if the errata technical sub-committee can close on open issues by the end of the week they can be considered in the ballot, otherwise they cannot.

Keywords is still an open issue in the BC committee. It needs direction from the P1800 working group some thought. Specifically, direction should be given as to if it should be a compiler directive or a command line option. If the option is command line, this could open a new line of standardization and Stu thinks this could be beneficial. The other option is to ignore it. Stu thinks it should be both command line and compiler directives. This has been discussed without reaching consensus. The group could deal with it in the next revision of the specification. Perhaps there was also a pragma option. To move it forward, it should be sent back to the BC on the 20th for consideration and for approval by the champions on the 21st. Stu will move forward with a new proposal and ask to present it at the BC.

The issues were presented and resolved as follows.

A motion was made (Stu Sutherland, Victor Berman) to approve V-640 (BTF). The motion passed unanimously.

A motion was made (Oz Levia, Stu Sutherland) to approve V-609 (ETF). The motion passed unanimously.

A motion was made (Oz Levia, Victor Berman) to approve 312 (V-PTF). The motion passed unanimously.

A motion was made (Stu Sutherland, Cliff Cummings) to postpone the review of issue V-282 (ETF). The motion passed unanimously.

A motion was made (Dennis Brophy, Victor Berman) to approve V-637 (ETF). The motion passed unanimously.

A motion was made (Cliff Cummings, Dennis Brophy) to approve V-547 (BTF). The motion passed unanimously.

A motion was made (Dennis Brophy, Oz Levia) V-288 (ETF) to approve. The motion was approved. (Fintronic abstained) [For complete information, Stu has opposed this in the past due to backward compatibility issues continues to voice this concern but voted in favor.]

A motion was made (Victor Berman, Cliff Cummings) to delay consideration of 314 until 5 January 2005 meeting (Encryption). The motion passed unanimously.

A motion was made (Alec Stanculescu, Cliff Cummings) to put a note in the LRM which says the PLI 1.0 will be deprecated meaning that future versions of the language will not upgrade this portion to be in sync with the new constructs being added and not to remove the current documentation from the LRM. The motion failed. (Against: Accellera, Bluespec, Cadence, Fintronic, IBM, Mentor Sun, Sunburst, Sutherland, Synopsys)

A motion was made (Stu Sutherland, Cliff Cummings) to approve 303 (V-TPF). The motion passed. (Against: Fintronic)

A motion was made (Victor Berman, Stu Sutherland) to approve 168 (SV-BC). The motion passed. (Against: Sunburst Design)

A motion was made (Stu Sutherland, Victor Berman) to delay consideration of 320 until 5 January 2005 meeting. The motion passed unanimously.

A motion was made (Stu Sutherland, Oz Levia) to delay consideration of 50 until 5 January 2005 meeting. The motion passed unanimously.

A motion was made (Stu Sutherland, Cliff Cummings) to approve 110 (SV-BC). The motion passed unanimously.

A motion was made (Cliff Cummings, Stu Sutherland) to approve 214 (SV-BC). The motion passed unanimously.

The champions committee and the technical subcommittees have, unanimously approved issues from line 15-144 with the exception of line 111.

A motion was made (Victor Berman, Stu Sutherland) to approve aforementioned issues. The motion passed unanimously.

A motion was made (Stu Sutherland, Cliff Cummings) to approve Tom Fitzpatrick and Neil Korpusik as members of the champion committee and Tom be co-chair of the champion committee. The motion passed unanimously.

Action Request: [Karen Pieper and Johny Srouji] To work with Stu to review intro clauses for LRM.

Clause 26 has some items for consideration for removal from the 1364 specification. Does this belong any longer in the LRM?

Action Request: [Neil Korpusik] To add an issue to track the inclusion of clause 26 in the specification.

15 REVIEW, MODIFICATION & TRACKING OF P1800 WG SCHEDULE

Noelle presented on the P1800 and P1364 schedule

[Download Schedule Spreadsheet](#)

Andrew reviewed the ballot invitation with the group. The chair must review the ballot invitation text and that text will go out with the invitation. The title and scope are pulled from the PAR. If Johny has issues, he needs to iterate on it with Andrew.

Action Request: [Dennis Brophy] Send email addresses to send the ballot invitation to Andrew and copy Johny on this email.

For those other entities, a notice in the SA corporate publication will also be included. We should send the invitation out 15-days into the general public SA members.

16 NEW BUSINESS

None.

17 NEXT MEETING

Date: 5 January 2005

Telecon

Date: 26 January 2005

Host: JEITA

Location: Tokyo, Japan

Date: 17 February 2005

Host: Synopsys

Location: Mountain View, CA USA

Date: 11 March 2005

Host: Hotel

Location: Munich, GE

Date: 19 April 2005

Host: TBD

Location: TBD

18 Adjournment

A motion (Oz Levia, Victor Berman) made to adjourn the meeting. The meeting adjourned at 2:50 pm PST.