



IEEE DASC P1076.1 Working Group

<http://www.eda.org/vhdl-ams/>

Working Group Meeting December 7, 2010

Ernst Christen
WG Chair

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Administrative Issues 1

- ◆ **Approval of minutes of WG meeting**
 - Meeting of November 9, 2010
- ◆ **Publicity**
 - No activity
- ◆ **Financial Plan for 2011**
 - Received proposal from Peter Ashenden for LRM work
 - 47 h for predictable items, but most projects are not far enough ahead to make a good prediction
 - Chair will need to work out arrangement, directly or through IEEE
- ◆ **Review of IEEE patent policy**
 - <http://standards.ieee.org/board/pat/pat-slideset.pdf>



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Agenda

- ◆ **Call to order**
- ◆ **Approval of agenda**
- ◆ **Administrative issues**
 - Minutes of November 9 meeting
 - 1076.1.1, 1076.1 and 1076 updates
 - Review of IEEE patent policy
- ◆ **Project status and updates**
- ◆ **Next meeting**
- ◆ **AOB**
- ◆ **Adjourn**



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Administrative Issues 2: Standard Revisions

- ◆ **1076.1.1 revision**
 - Currently being balloted
 - Ballot start November 19 (after yet another delay)
 - Ballot end December 19
- ◆ **1076.1 revision**
 - Draft PAR approved by WG with 13 affirmative votes, of which 5 were eligible to vote. No objections.
 - Draft PAR is currently being voted on by DASC
 - [1076.1 PAR draft](#)
- ◆ **1076 Study Group formed**
 - Jim Lewis, chair, Chuck Swart, vice-chair
 - Study group had first meeting on December 1
 - Next meeting will be December 16



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Project Updates

- ◆ **VHPI-AMS:** David Smith
- ◆ **1076.1.1 integration:** David Smith
- ◆ **Other mandatory changes:** Ernst Christen
- ◆ **Frequency domain modeling:** Ernst Christen
- ◆ **Mixed netlists:** Ernst Christen
- ◆ **Table-driven modeling:** Joachim Haase
- ◆ **Vector/matrix operations:** Zhichao Deng
- ◆ **PDE support:** John Willis
- ◆ **Uniform use of SPICE models:** John Willis



1076.1.1 Integration

- ◆ **2 members regular (David Smith, Ernst Christen)**
- ◆ **No Progress.**
- ◆ **Next steps are:**
 - Peter to partition and include existing 1076.1.1 when working on new LRM.
 - David to develop requirements for Dimension support.
 - Review against SI language once the material is in the new LRM.



VHPI-AMS

- ◆ **4 members regular**
 - David Smith (champion), Ernst Christen, Yaseen Zaidi, Peter Ashenden
- ◆ **Reviewed Peter's object analysis with some good questions raised**
- ◆ **Received VHPI-AMS related material from Cadence**
 - Available in protected area of WG twiki
- ◆ **Next steps**
 - Review functions (David)
 - Review Verilog VPI presentation created by Yaseen
 - Review Cadence VHPI-AMS material



Other Mandatory Changes

- ◆ **Preparing for first meeting, planned for next week**
- ◆ **Proposing to combine with Genericity**



Frequency Domain Modeling

- ◆ **4 regular members, 7 total**
 - Ernst Christen (champion), Joachim Haase, David Smith, Zhichao Deng, Subramanian Sivaramakrishnan, Brian Mulvaney, Thuy Tran
- ◆ **White paper describing all aspects related to support frequency domain modeling ready for review and approval by WG**
- ◆ **No meetings planned**



Vector/Matrix Operations

- ◆ **4 regular members of subcommittee**
 - Zhichao Deng (champion), David Bishop, Subramanian Sivaramakrishnan, Ernst Christen
- ◆ **Work is also of interest to 1076 study group**
- ◆ **Requirements submitted to WG for approval**
- ◆ **Early draft of matrix_real package currently under review by subcommittee**
- ◆ **Next meeting December 14, 9 am PST**



Table-Driven Modeling

- ◆ **Members of TDM subcommittee:**
 - Joachim Haase (champion), Ernst Christen, Arpad Muranyi, Alain Vachoux
- ◆ **Work is also of interest to 1076 study group**
- ◆ **Last meeting December 6, 2010**
 - Reviewed draft for 1st order real and complex interpolation
 - Identified issue that for complex values a pure mathematical treatment is not sufficient. Need ability to enforce causality.
- ◆ **Next steps**
 - Causality considerations for complex interpolation
 - Higher order interpolation
- ◆ **Next phone conference of TDM subcommittee**
Monday, January 10, 2011 – 8am PST
To join the conference please call: +49 6151 155-9711 PIN: 1677



Next Steps

- ◆ **Publicity**
 - Publication in Simulation News in Europe (spring 2011)
- ◆ **1076.1.1 revision**
 - Review ballot response
- ◆ **1076.1 revision**
 - PAR approval by DASC
 - Submit PAR to NesCom
- ◆ **Other**
 - Complete financial plan
 - Fund raising
 - Determine contractual issues for LRM writing
- ◆ **Next meetings (announced at www.eda.org/vhdl-ams/):**
 - Tuesday, January 11, 2011, 8am PST (16:00 UTC)
 - Tuesday, February 8, 2011, 8am PST (16:00 UTC)
 - Tuesday, March 8, 2011, 8am PST (16:00 UTC)

