



Working Group Meeting August 10, 2010

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WG Chair

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Administrative Issues 1

- ◆ Approval of minutes of WG meeting held July 13, 2010
- ◆ Publicity
 - Planning publication in fall edition of Simulation News in Europe
 - Deadline August 2010
 - No progress about CFP in IEEE D&T, Automotive Engineering, EE Times
- ◆ Review of IEEE patent policy
 - <http://standards.ieee.org/board/pat/pat-slideset.pdf>



Agenda

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

Administrative Issues 2: Standard Revisions

- ◆ 1076.1.1 revision
 - Before ballot LRM must go through Mandatory Editorial Coordination
 - May require some updates to LRM
- ◆ 1076.1 revision
 - [1076.1 PAR draft](#)
 - Held up by questions regarding copyrights
 - Do we have to get Copyright permission from organizations that gave it to 1076.1
 - Donations to 1076.1
 - Cadence: VHPI-AMS
 - Tom Kazmiersky: PDEs
 - David Bishop: vector/matrix package?



Project Updates

- ◆ **VHPI-AMS:** David Smith
- ◆ **Genericity:** John Willis
- ◆ **Other mandatory changes:** Ernst Christen
- ◆ **1076.1.1 integration:** David Smith
- ◆ **Mixed netlists:** Ernst Christen
- ◆ **Frequency domain modeling:** Ernst Christen
- ◆ **PDE support:** John Willis
- ◆ **Table-driven modeling:** Joachim Haase
- ◆ **Vector/matrix operations:** Zhichao Deng
- ◆ **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, Ernst Christen, Yaseen Zaidi, Peter Ashenden).**
- ◆ **Reviewed Peter's object analysis with some good questions raised.**
- ◆ **Cadence still indicates that they are putting together their material. Until something is received we have to assume that it is not coming.**
- ◆ **Next steps are to review functions (David) and Verilog VPI presentation created by Yaseen**



Frequency Domain Modeling

- ◆ **Held third meeting on August 4**
 - Attendees: Ernst Christen (champion), David Smith, Zhichao Deng
- ◆ **Status**
 - Properties/limitations small-signal algorithms understood
 - Mathematical background
 - Implications of changing equations for frequency domain
 - Algorithmic changes in an implementation are minor
 - Changes to LRM minor
 - Guidelines for writing models with frequency-dependent behavior understood
 - Reviewed issues related to convolution, need more detail
- ◆ **Next steps**
 - Write-up of all aspects of frequency domain modeling support
- ◆ **Next meeting early September**



PDE Support

- ◆ No update from Tom Kazmierski about his proposal



Next Steps

- ◆ **Publicity**
 - Publication in Simulation News in Europe, due August
- ◆ **1076.1.1 revision**
 - Mandatory Editorial Coordination
 - Start balloting ASAP
- ◆ **1076.1 revision**
 - Complete PAR draft
 - PAR approval by WG and DASC
 - Resolve copyright issues with IEEE



Table-Driven Modeling

- ◆ **Members of TDM subcommittee:**
 - Ernst Christen
 - Joachim Haase
 - Arpad Muranyi
 - Alain Vachoux
- ◆ **Last meeting August 9, 2010**
 - Current work on „Requirements for Table-driven Modeling“ v0.4
http://www.eda.org/twiki/pub/P10761/ProjectTableDrivenModeling/TDM_Requirements.txt
- ◆ **Next steps**
 - Finish the requirements documents
 - Present the results at next 1076.1 WG meeting in September
- ◆ **Next phone conference of TDM subcommittee**
Monday, September 13, 2010 – 8am PDT
To join the conference please call: +49 6151 155-9711 PIN: 1677



Next Meeting

- ◆ **Meeting schedule**
 - Meeting schedule once per month, mostly web
 - Always announced at www.eda.org/vhdl-ams
 - Next meetings:
 - Tuesday, September 14, 2010, 10am PDT (7pm CEST) at FDL
- ◆ **Topics for FDL F2F meeting**
 - For each project, overview + status slides

