



OSCI Technical Symposium

DAC and NASCUG 2007
Mike Meredith, OSCI President
Room 33 A-C, San Diego Convention Center
June 4, 2007

AGENDA

- 11:45 – 12:10 Lunch Service
- 12:10 – 12:30 Welcome and SystemC Update
Mike Meredith, President, OSCI
- 12:30 – 12:50 Collaborating to Unify Standards
for System-Level Design
Chris Lennard, The SPIRIT Consortium
- 12:50 – 1:50 Panel: Virtual Platform and ESL IP Exchange:
Real World Challenges and What's Expected from
OSCI TLM 2.0
- 1:50 – 2:00 Prize Drawing
- 2:15 – 6:00 NASCUG Meeting

PANEL DISCUSSION

- **Moderator :**

- **Gabe Moretti**

- Editor in Chief, Gabe on EDA and Editor, EDA DesignLine, EETimes

- **Panelists :**

- **Tauseef Kazi**

- Principal Engineer/Manager, Qualcomm

- **Eric P. Lish**

- UMG ESL Modeling and Development Manager, Intel Mobility Group

- **Grant Martin**

- Chief Scientist, Tensilica

- **Nizar Romdhane**

- Product Marketing Manager, System Design Division, ARM

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SystemC Community Update

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OSCI Membership

Corporate Members



Associate Members



35 member companies total
Includes 6 new members since DAC 2006

What's New at DAC 2007



- *OSCI Open Source Proof of Concept Library v2.2 (IEEE 1666 LRM compatible)*
- *SystemC User Group Trends Report*
- *TLM WG Status Report*

The SystemC Language is IEEE 1666™-2005

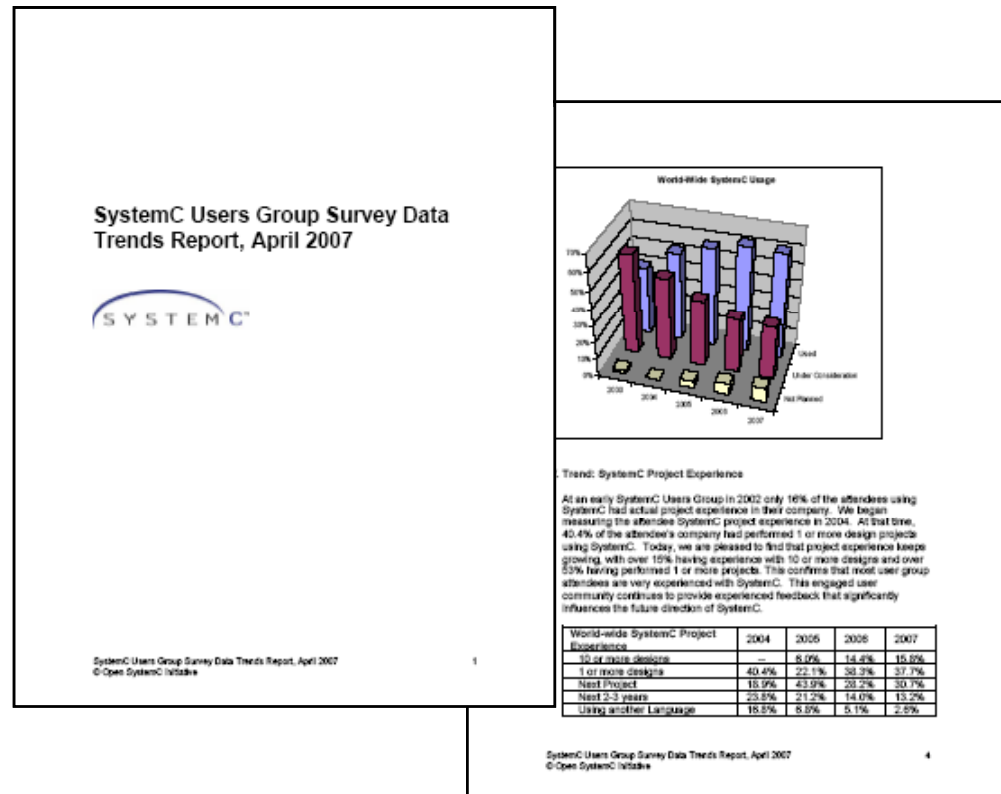
Free download of the IEEE LRM is available at
<http://standards.ieee.org/getieee/1666/index.html>



SystemC User Group Survey Trends

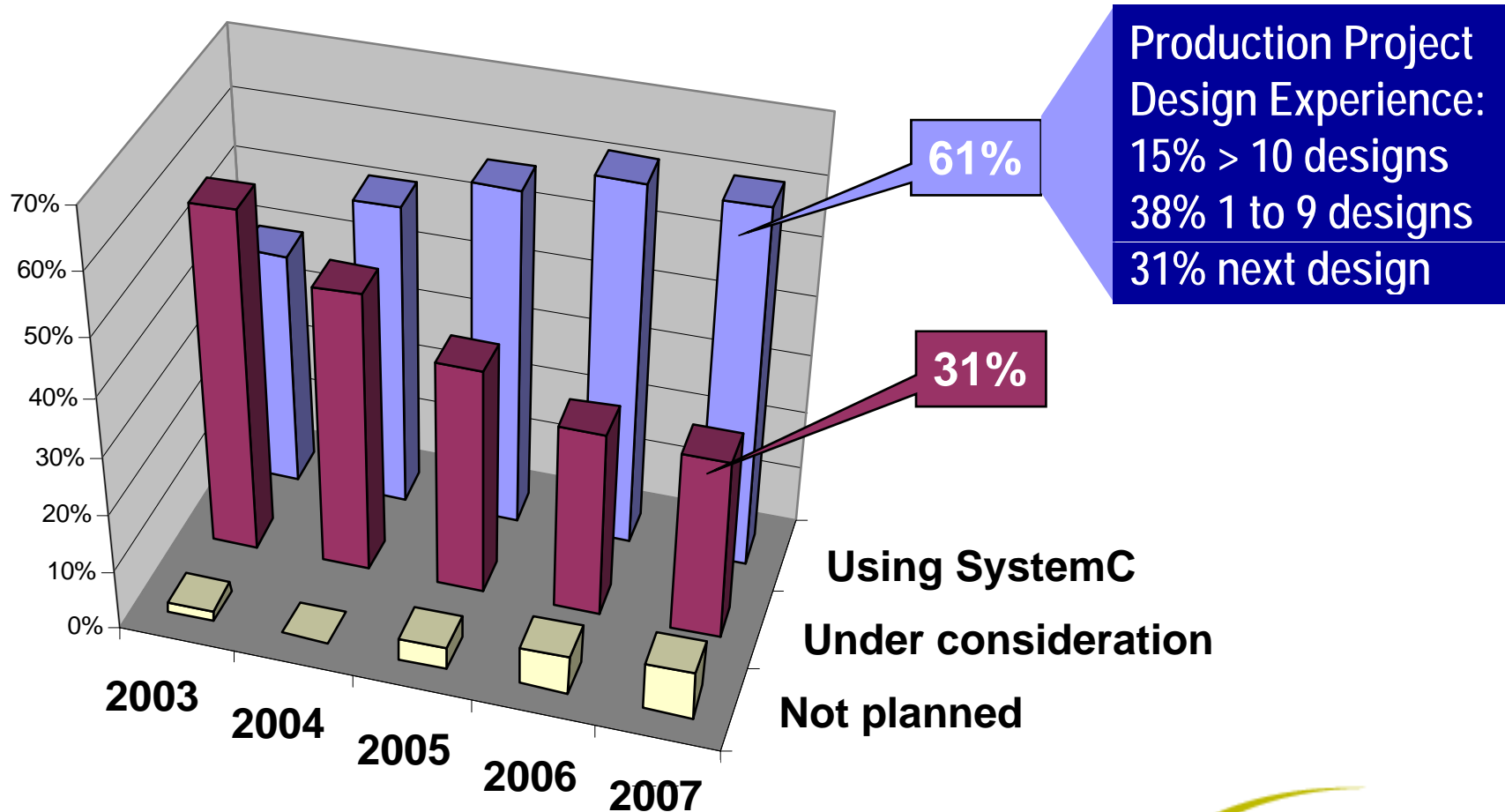
- World-wide Analysis
- Based on SystemC User Group surveys
 - Europe
 - North America
 - Japan
 - India
 - Latin America

Report available at:
www.systemc.org



SystemC User Group Survey Trends

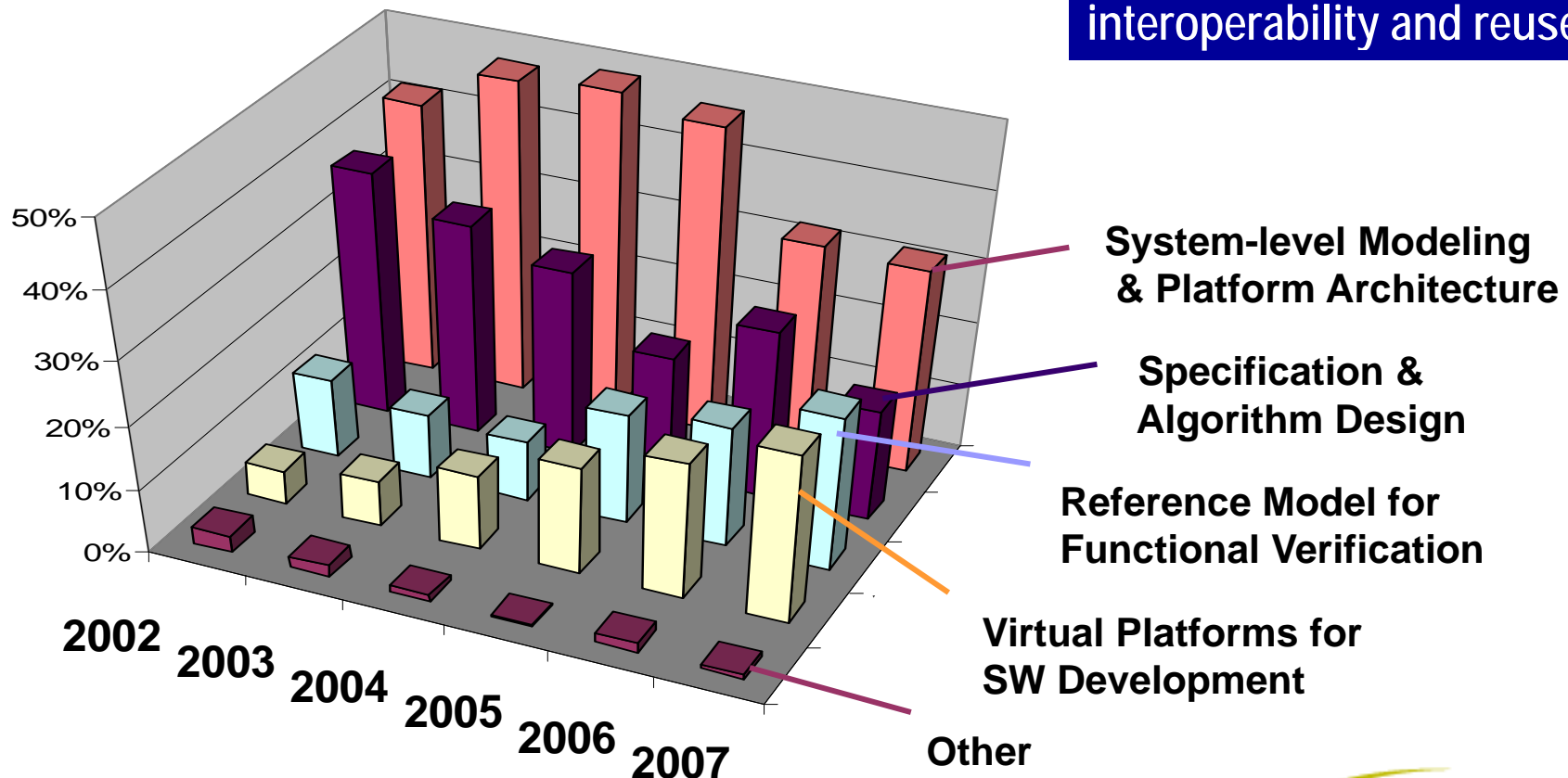
■ World-wide SystemC Usage Growth



SystemC User Group Survey Trends

■ World-wide SystemC Use-Models

Balanced mix is fueling demand for SystemC TLM interoperability and reuse





TLM WG Update

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Status

- Trevor Wieman (Intel) was elected Chair and Stuart Swan (Cadence) the Vice-Chair in February
 - Thanks to Frank Ghenassia (ST), Mike Meredith (Forte) for their tenure!
- Public review of the TLM 2.0 Draft Kit was completed in February
 - The feedback has been very useful and is greatly appreciated
- Participation in the WG is increasing
 - Bluespec, ESLX, and STARC have joined (18 organizations total)
- Detailed requirements spec is approved by WG for public review
 - Incorporates draft kit feedback, perspective from new participants
 - Accompanied by an overview whitepaper and supporting glossary
 - Please review and provide feedback!

TLM 2.0 Plans

■ TLM 2.0 draft #2

– Contents:

- ◆ Untimed TLM interoperability (“PV”)
- ◆ Preliminary approximate-timed TLM interoperability (“PVT” or “AV”)
 - Sufficiently developed to ensure no rework of the untimed TLM
- ◆ Analysis ports
- ◆ Examples and documentation

– Schedule: release for public review October 31, 2007

- ◆ OSCI has approved funding for contract development assistance

■ TLM 2.0 approval

– Scheduled for December/January

- ◆ Includes feedback from public review plus additional examples and documentation

Roadmap

- TLM 2.1 will finalize approximate-timed TLM interoperability
- OSCI will pursue IEEE TLM standardization based on TLM 2.1
- Additional releases to include
 - Configuration
 - Cycle-accurate TLM interoperability
 - Debug
 - Hardware watchpoints
 - Profiling
 - Registers/memories

The New OSCI Website

Coming Soon



- Complete redesign of the SystemC.org website
 - Now in progress!
- Easy access to website facilities from the front page
 - Up-to-date, high-quality information
 - ◆ Featured news and events
 - ◆ Discussion groups
 - ◆ Working group facilities
 - ◆ Downloads
 - ◆ Membership
 - And More!



Thank You

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