



Restarting P1666

The IEEE SystemC WG

August 2009

Updating the P1666 SystemC Standard

- The IEEE approved the P1666 SystemC standard in December 2005
- The approaching five year anniversary is significant
 - “Sponsors are required to undertake a maintenance action on a standard within five years of its IEEE-SA Standards Board approval date. ” (from IEEE-SA Op. Manual)
 - This “maintenance” may be anything from a reaffirmation with no changes to a major overhaul
- The OSCI Board has decided that P1666-2010 should be a combination of the current P1666-2005 plus the OSCI TLM 2.0 standard
 - The TLM 2.0 LRM has already been written in “IEEE style”
 - ◆ Should ease incorporation into P1666 LRM
 - Errata to the existing P1666-2005 can be made were appropriate



The P1666 Working Group

- WG is “entity based”
 - Entities, i.e., organizations, that are Corporate members of the IEEE SA are eligible to be voting members of the WG
 - ◆ Such entities name a DR (designated representative) to represent them in the WG
 - Membership dues for the IEEE-SA is based on an Entity's revenue or “status”
 - ◆ Less than \$5 million annual revenue, academic institutions, associations, nonprofits, government agencies: dues \$3,500
 - ◆ \$5 million to less than 100 million annual revenue: dues \$5,000
 - ◆ \$100 million to less than \$500 million annual revenue: dues \$7,500
 - ◆ More than US \$500 million annual revenue: dues \$10,000
 - Anyone may participate in the WG's deliberations
 - ◆ Only restrictions will be voting rights
 - OSCI may (subject to Board approval) join the IEEE-SA as a Corporate member
- OSCI is willing to fund the Technical Writing costs, so there should be no additional fees for WG members.

What Needs To Be Done In The Short Term

- P1666 WG needs to reconvene
 - Never was dissolved, so no need to restart with a Study Group
 - Current Project Authorization Request (PAR) is still active
- New officers should be elected
 - Victor Berman is current chair, but will be resigning
 - Chair, Vice-chair and secretary should be elected
 - ◆ The Chair and Vice-chair
 - Shall be IEEE members of any grade and must also be a Designated Representative (DR) of an entity that is a corporate IEEE-SA member
 - ◆ The Secretary
 - Must be a DR of an entity that is a corporate IEEE-SA member
 - ◆ If OSCI joins the IEEE-SA its DR can be an officer
- Revised PAR must be drafted to capture new scope (TLM)
 - Will be reviewed and approved by DASC and then sent to IEEE NesCom and the SA-Board for final approval.
- OSCI must contribute rights to the TLM copyright to the IEEE

Backup



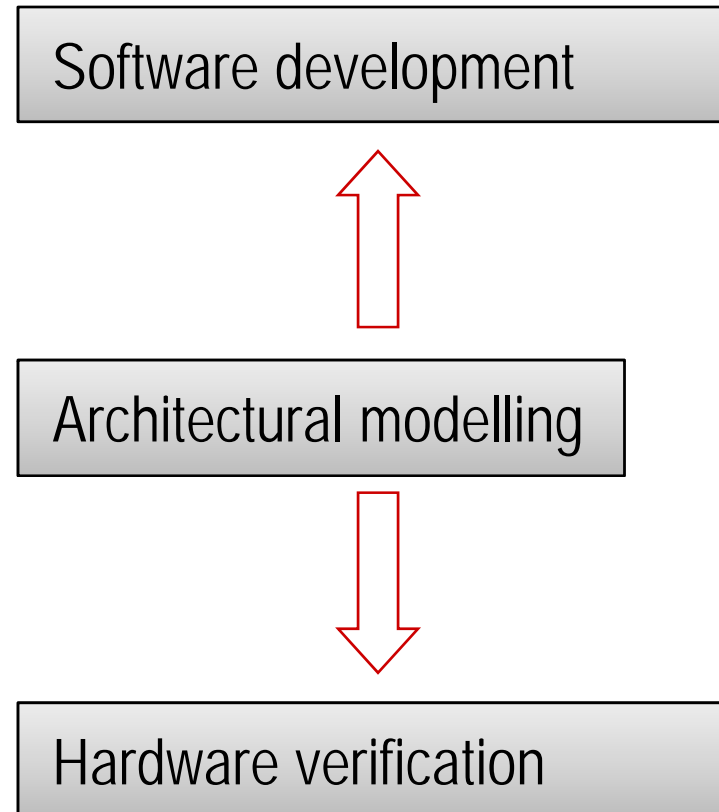
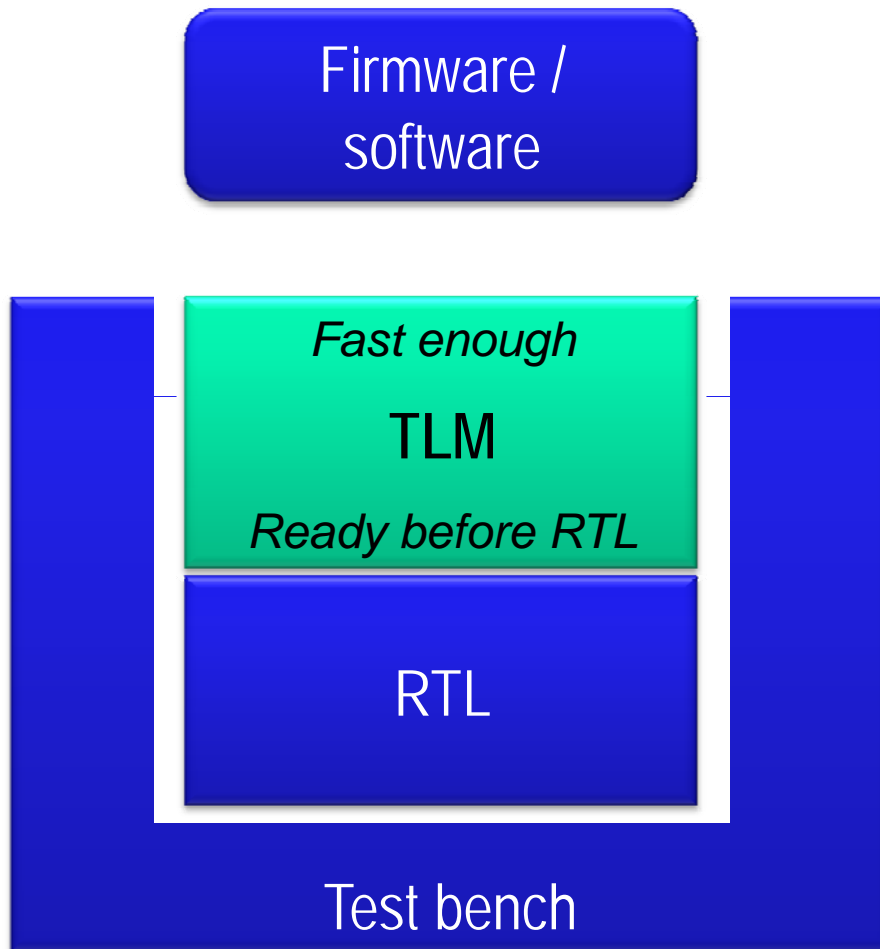
Announcing the New SystemC TLM-2.0 Standard!

- Essential framework for standards-based ESL design
- Incorporates feedback from SystemC users worldwide
- Official release June 9, 2008
 - Available for download at www.systemc.org



Reasons for Using TLM

Accelerates product release schedule



What is SystemC TLM-2.0?

- Defines the interoperability standard that allows model reuse for
 - SW development and performance analysis
 - Architecture analysis
- Supports following features
 - Generic transaction payload for memory mapped busses with payload extension mechanism
 - Minimizes the need for bridges or adaptors to connect models together
 - Support for multiple, compatible abstraction levels
 - High simulation speed
 - Debug and analysis
 - Interoperable with TLM-1.0
- Documentation, training and examples are available