The IBIS Model Review Committee

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The IBIS Model Review Committee

- Process
- Current members
- Review of a typical model
- Relationship to IBIS Quality Document

The IBIS Model Review Process



Current Committee Members

- Chair: Lynne Green, Green Streak Programs
- EDA Reviewers
 - John Angulo, HyperLynx/Mentor Graphics
 - Lance Wang, Cadence Design Systems
 - Michael Schraeder, Zuken
 - Robert Haller, SiSoft
 - Weston Beal, Mentor Graphics
- EDA companies test models with their products/tools.
- Reviewers keep models confidential.

Review of a Typical IBIS Model

- Start with IBIS parser
- Check components & pins
- Check selected models in the IBIS file
- Optional: check component and models against data sheet



Review of a Typical Buffer Model

- Graphical check of data tables
 - Monotonicity
 - Separation of clamp tables
 - V-t table settles and ends
- Check data
 - Driver: Vmeas, Cref, Rref, Vref
 - Receiver: Vinh, Vinl
 - Temperature: Typ > 25 C.



Review of a Typical Model: Waveforms



Review of a Typical Model: Waveforms



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Review of a Typical Model

- Run other checks as time permits
 - Example: [Driver Schedule]
 - Items from IBIS Quality checklist
- Translate
 - Example: Cadence DML
 - Check error/warning messages
- Simulate !!!
 - Input mode
 - Output mode
 - Sanity check simulation waveforms

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Review of a Typical Model: Simulation



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Relationship to IBIS Quality Document

- Input from reviewers on the Quality Committee
- Problems seen in models
 - Reviewed models
 - Released models
- Quality checks used by reviewers
 - Feedback from reviewers to Quality Committee
 - Recommendations to model originators

Relationship to IBIS Quality Document

Quality checklist has proven helpful for model review

Many thanks to both Committees ③