



Introducing IBIS

Michael Mirmak
Intel Corporation
Chair, IBIS Open Forum

Asian IBIS Summit Taipei
November 12, 2010

馬夢寬
英特爾公司
IBIS 委員會主席

台北 **IBIS** 技術研討會
2010 年 11 月 12 日

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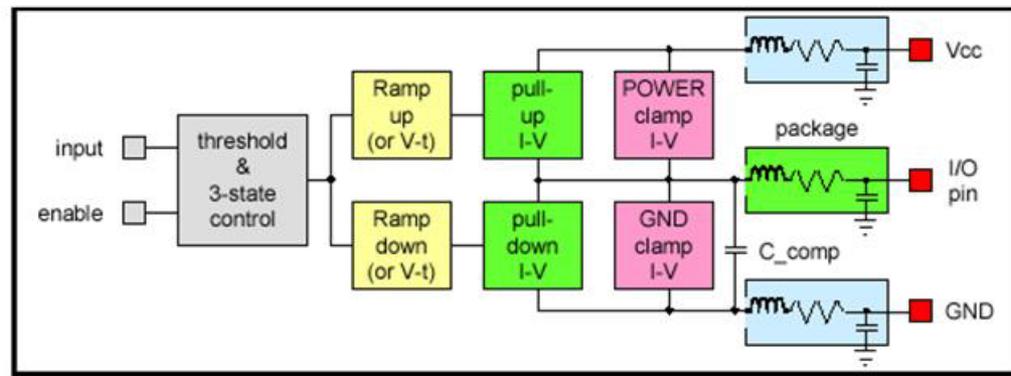
Agenda



- IBIS – A Review
- Specifications and Technologies
- How Changes Are Made
- How to Get Involved
- References

IBIS – A Review

- IBIS – I/O Buffer Information Specification, Ver. 5.0
 - Standardized as ANSI/EIA* 656-B, IEC* 62014
 - Managed by the IBIS Open Forum
 - Originally analog: resistance, transition speed, capacitance
 - Package modeling included in early revisions



- Extended in recent years
 - AMS: Verilog-A, Verilog-AMS, VHDL-AMS support
 - AMI: Algorithmic Modeling Interface for advanced SerDes

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Specifications and Technologies

- IBISCHK5: Free IBIS Syntax Checker and Parser
 - www.eda.org/ibis/ibischk5/
- IBIS Quality Specification
 - Defines a structured rating system for IBIS models
- Touchstone 2.0
 - Network parameter descriptions (e.g., S-parameters)
- IBIS Interconnect Modeling (ICM) Specification
 - Generic transmission line modeling format
 - Also links to S-parameters through Touchstone

How Changes Are Made

- BIRDs: Buffer Issue Resolution Documents
 - Change proposals for the IBIS specification
 - Submitted by individuals or Task Groups
 - If approved by IBIS Open Forum, included in future IBIS specification versions
- BUGs: IBIS Parser issues
 - Violations of the specification, unexpected behaviors or requests for improvement
 - Usually submitted by individuals
- TSIRDs: Touchstone Issue Resolution Documents
 - Similar to BIRDs, but for Touchstone 2.0

How to Get Involved

- E-mail Reflectors – Discussion welcome!
 - ibis@eda.org for administration and change updates
 - ibis-users@eda.org for usage questions
 - To subscribe, write to ibis-info@eda.org
- IBIS Open Forum teleconferences every 3 weeks
- Task Groups
 - Advanced Technology Modeling
 - Model Review (EDA vendors)
 - Interconnect
 - Quality

Your participation helps IBIS provide the standard, unified solutions needed by industry!

References

- IBIS Web site: www.eda.org/ibis/
 - Links to Task Groups available there
- Specifications
 - IBIS 5.0: www.eda.org/ibis/ver5.0/
 - Touchstone: www.eda.org/ibis/touchstone_ver2.0/
 - ICM: www.eda.org/ibis/icm_ver1.1/
- BIRDS
 - www.eda.org/ibis/birds/
- IBIS 4.0 Cookbook
 - www.eda.org/ibis/cookbook/
- Training
 - www.eda.org/ibis/training/