IBIS Chair’s Report and Roadmap

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IBIS Summit
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http://www.eigroup.org/ibis/
http://www.eda.org/ibis/
Agenda

- Key Recent Events
- Organizational Health
- Short-term Direction
- IBIS Timeline
- Future Versions
- Questions
Key Recent Events

- ICM 1.1 is now a GEIA standard
  - GEIA-STD-0001

- Asian IBIS Summit a success
  - Over 150 registrants from 30 institutions
  - Very high quality of presentations
Organizational Health

✱ Membership
  – IBIS Open Forum closed 2005 with 32 members
  – 2006 renewals are already being received
  – At least two new members expected

✱ ICM and IBIS Parsers
  – ICM parser licensees: Cisco, Intel, Mentor Graphics

✱ Finances
  – Closed the 2005 year “breaking even”

Membership trends are healthy for 2006!
Short Term Direction

Over the next six months…

– Approve and release IBIS 4.2
  ★ Drive toward GEIA, ANSI standardization!

– Complete IBIS 4.2 parser
  ★ No cost, with minor bug fixes & enhancements

– Complete 3 of the 4 remaining IBIS 5.0 BIRDs
– Begin (delayed) work on ICM 1.1 Cookbook
IBIS Timeline

Not Shown
- July, 2002: IBIS 4.0 approved
- Sep., 2003: ICM 1.0 approved
- Jan., 2004: IBIS 4.1 approved

Spec Activities
- IBIS 4.1 Parser
- ICM 1.1 Parser
- ICM 1.1 Proposal
- IBIS 3.2 EIA Affirm
- IBIS 3.2 Approval
- IBIS 4.0 Cookbook
- ICM 1.1 Approval
- Draft ICM Cookbook
- IBIS 4.2 Proposal
- IBIS 4.2 Approval

Summits
- IBIS Summit Asia
- DAC
- DATE
- DesignCon
- DesignCon East
- JEITA IBIS Conference

Regular events in Asia continuing in ’06!

2006 IBIS Summit at DesignCon
Future Versions

IBIS 4.2 – close with BIRD 102!

- BIRD102 – File Name Limit Extension
- BIRD101 – Section 6b, Figure 12 Example Note
- BIRD100.2 – Allow Pure Analog -*-AMS Models
- BIRD99.1 – AMS Language Versions
- BIRD96 – [Model Spec] and [Receiver Thresholds] Ordering
- BIRD94.2 – Clarifications on [Diff Pin] parameters
- BIRD93.1 – Model and Signal Name Limit Extension
- BIRD92.1 – Model Termination and Series Elements under [Model]
- BIRD91.3 – Multi-lingual Logic States Clarification
- BIRD90.2 – Multiple A_to_D Subparameters Clarification
- BIRD89.1 – Keyword Hierarchy Tree
- BIRD88.3 – Driver Schedule Initialization
- BIRD87 – Series Pin Mapping Clarifications

IBIS 5.0

- BIRD74.6 – EMI Parameters
- BIRD95.6 – Power Integrity Analysis using IBIS
- BIRD97.2/98 – Gate Modulation Effect
- BIRD1xx – [External Model] under [Circuit Call]
- BIRD1xx – ICM-IBIS Linking
- BIRD1xx – User-Defined Measurements

Parser change required
Not yet approved
Key Messages

🌟 Small Steps Before Big Leaps

- IBIS 4.2: Standardizing IBIS + AMS
- IBIS 5.0: A complete SI modeling solution
  - Integrated buffer, package and power delivery
  - Support through AMS for latest technologies
  - Flexible for authors, standard for tools and users

Let’s maintain IBIS as the industry’s “solution of choice” for system-level SI behavioral modeling
QUESTIONS?