IBIS Chair’s Report and Roadmap

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Chair, EIA IBIS Open Forum

IBIS Summit
at DAC 2008
June 10, 2008

http://www.eigroup.org/ibis/
http://www.eda-stds.org/ibis/
Agenda

- Organizational Status
- BIRD Queue
- Special Thanks
- A Call to Action!
- Backup
  - Task Groups
  - The IBIS Board
Organizational Status

* GEIA and ITAA merger completed in April 2008
  - Information Technology Association of America (itaa.org)
  - Impact to IBIS operations minimal
  - Update planned for February 2009 IBIS Summit

* 2008 Events
  - Successful summits in Santa Clara and Munich
  - Planning for Shanghai and Tokyo (and Taipei?)

* Finances and Membership
  - Closed 2007 with positive budget and membership of 34
**BIRD Queue**

**BIRDS for IBIS 5.0**

- BIRD74.6 – EMI Parameters
- BIRD95.6 – Power Integrity Analysis using IBIS
- BIRD97.2/98.1 – Gate Modulation Effect
- BIRD103.1 – [Model Spec] DDR2 Over/Undershoot
- BIRD104.1 – Algorithmic Modeling API
- BIRD107.2 – Update to Algorithmic Modeling API
- BIRD108 – Fixing Algorithmic Modeling API Impulse_Matrix Nomenclature
- BIRD109 – S_overshoot_high/S_overshoot_low Clarification

IBIS 5.0 draft now in review
Thanks to Our Board Staff

- Syed Huq – Vice-Chair & Webmaster
  - especially for US summit logistics
- Randy Wolff – Secretary
  - handling minutes, other official documents plus GEIA and ANSI relations
- Lance Wang – Model Librarian
  - keeping our external IBIS model library up-to-date
- Bob Ross – Postmaster
  - maintaining reflectors and arranging international summits

... and of course to you, the IBIS Community!
Thanks for another great year!
A Call to Action

- Two advanced standards are in development
  - PCI Express* 3.0 (www.pci-sig.com): 8 Gt/s
  - USB 3.0 (www.usb.org): 4.8 Gt/s

- Both are opportunities to demonstrate IBIS
  - Both are industry-wide, requiring interoperability
  - Both likely to be highly popular and long-lived

- Both would “stretch” IBIS and related standards
  - Require eye diagrams and advanced measurements
  - Equalization, advanced package modeling, etc. expected

To keep IBIS relevant and ahead of the curve, we must get involved now in demonstrating and updating IBIS to support these standards!
A Call to Action

• “Getting involved” can take many forms…
  – IC Vendors
    • Try to make IBIS models, using today’s keywords, for your USB 3.0 or PCI Express* designs
  – System Vendors
    • Check your analysis flows to ensure that the measurements you need for these standards are available in today’s IBIS
  – EDA Tool Vendors
    • Check the IBIS-related feature set you offer against the requirements of these standards
  – All
    • If IBIS “comes up short” in any of these areas, propose the IBIS changes required to fully support both standards

Keeping IBIS vital means supporting standards early!
IBIS Task Groups

IBM Committee
(“IBIS Open Forum”)

Task Groups

Ad Hoc - Interconnect
Michael Mirmak, Intel

Advanced Technology
Modeling Group
Arpad Muranyi, Intel

Model Review
Lynne Green,
Green Streak Programs

Quality
Mike LaBonte, Cisco

Notes
• The Cookbook Task Group has been suspended until critical mass of needed changes is achieved
• The Futures and Macromodeling Library groups have been combined into the Advanced Technology Modeling Group
• EDA vendors comprise Model Review, independently reviewing received models and providing feedback to model authors; no specification changes are recommended by this group and it does not hold meetings

• Participation in the IBIS Task Groups is open to IBIS members and the general public alike

• Task Groups are created and Chairs appointed by the IBIS Chair
• Some issues are handled by Ad Hoc teams for BIRD development
IBIS Board

Chair
- Is final approver of specification ballots
- Appoints Task Groups
- Tracks Finances
- Manages meetings and summits

Vice-Chair
- Manages meetings and summits in Chair’s absence
- Usually acts as US summit registration contact

Secretary
- Tracks balloting, membership and GEIA relations
- Responsible for meeting and summit minutes

Model Librarian
- Maintains on-line model reference library

Webmaster
- Responsible for all web content
- Primary focus on events, specifications, roster and tools

Postmaster
- Responsible for IBIS reflectors (IBIS, IBIS-Users)
- Usually “first responder” to non-list participant questions