

# State of IBIS Report

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## Today's Meeting

- State of IBIS Report
- Report from the Quality Committee
- ICM Specification Report
- Behavioral Modeling using VHDL-AMS
- IBIS Models at Gigahertz Speeds
- Report on IBIS 4.1
- IBIS Algorithms
- Brief View of IBIS Model Overclocking
- In-depth Look at On-die Termination
- Ad Hoc Discussions





## Status Update

- **IBIS Open Forum - Entering Our Eleventh Year**
  - IBIS 3.2 is truly becoming an international standard
    - Strong European interest in EMC extensions
    - Continued interest in Japan regarding IBIS usage
  - Despite economic downturn, membership remains solid (25 paid members), with 350-400 on the reflector
  - Quality Committee remains active and productive
- **Significant Events of the Past Year**
  - IBIS 4.0 approved, parser development underway
  - Multi-lingual modeling is now an official part of IBIS
  - Draft 1.0 ICM Specification has been released for review

*The IBIS Open Forum is still leading the trend toward behavioral I/O buffer modeling*



## Challenges For The Future

- **Foster Wider Industry Acceptance of Behavioral I/O Modeling**
  - Approve IBIS 4.1, to enable EDA vendors and parser writers to support multi-lingual modeling extensions
  - Approve the Interconnect Modeling (ICM) Specification to address current package description needs
  - Update the IBIS 2.1 "Cookbook" with 4.0/4.1 features and techniques
- **Continue IBIS Model Quality Improvements**
  - Enable model developers to *create* quality models
  - Empower users to *recognize and demand* good models
- **Drive Greater Integration of the IBIS and Design Communities**
  - "Spread the word" on applying IBIS to today's design challenges
  - Ensure that the needs of *our entire* user base – automotive, consumer electronics, PC design, etc. – are met by IBIS
- **Continue to Support IBIS Technical Development**
  - Expand, where appropriate, IBIS to support EMC/EMI
  - Investigate the demand for XML-based parsers
- **Keep the Organization Strong**
  - Retain current members and find new ones
  - Maintain financial solvency





## Our Thanks to...

- **Stephen Peters**, for his service as Open Forum Chair
- **Bob Ross**, for his continued behind-the-scenes efforts to advance IBIS
- **Barry Katz** for leading the IBIS Quality sub-committee and for extensive IBIS Summit work
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- **Roy Leventhal**, **Syed Huq**, **Guy de Burgh**, **Randy Wolff** and **John Angulo** for their continuing efforts
- And finally...**YOU** – the EDA tool, model maker and model user communities, for your suggestions, participation and devotion to the work of the IBIS Open Forum

