

IBIS Open Forum Minutes

Meeting Date: **July 30, 2010**

Meeting Location: **Teleconference**

VOTING MEMBERS AND 2010 PARTICIPANTS

Agilent	Radek Biernacki*, Ming Yan, Fangyi Rao, Gilbert Berger, Amolak Badeasa, Jose Pino, Junaid Khan
AMD	Nam Nguyen*
Ansys (Ansoft Corporation)	Danil Kirsanov
Apple Computer	(Matt Herndon)
Applied Simulation Technology	(Fred Balistreri)
ARM	(Nirav Patel)
Cadence Design Systems	Terry Jernberg*, Wenliang Dai, Ambrish Varma
Cisco Systems	Syed Huq*, Mike LaBonte*, Tony Penaloza, Huyen Pham, Bill Chen, Ravindra Gali, Zhiping Yang
Ericsson	Anders Ekholm, Pete Tomaszewski
Freescale	Jon Burnett, Om Mandhana
Green Streak Programs	Lynne Green
Hitachi ULSI Systems	Yutaka Uematsu
Huawei Technologies	(Jinjun Li)
IBM	Adge Hawes*, Greg Edlund
Infineon Technologies AG	Christian Sporrer
Intel Corporation	Michael Mirmak*, Myoung (Joon) Choi, Vishram Pandit, Richard Mellitz
IO Methodology	Lance Wang*
LSI	Brian Burdick*
Mentor Graphics	Arpad Muranyi*, Neil Fernandes, Zhen Mu
Micron Technology	Randy Wolff
Nokia Siemens Networks GmbH	Eckhard Lenski*
Samtec	(Corey Kimble)
Signal Integrity Software	Walter Katz*, Mike Steinberger, Todd Westerhoff*, Barry Katz
Sigrity	Brad Brim, Kumar Keshavan, Srdjan Djordjevic, Ben Franklin
Synopsys	Ted Mido, Paul Lo, Geoffrey Ying, Frank Lee
Teraspeed Consulting Group	Bob Ross*, Tom Dagostino
Texas Instruments	Bonnie Baker
Toshiba	Yoshihiro Hamaji
Xilinx	Mike Jenkins
ZTE	(Huang Min)
Zuken	Michael Schaedler, Ralf Bruening

OTHER PARTICIPANTS IN 2010

Actel	(Prabhu Mohan)
AET, Inc.	Mikio Kiyono
Altera	John Oh, Hui Fu
Avago	Razi Kaw
Bosch Car Multimedia	Rene Steinberg, Patric Kessler
Broadcom	Mohammad Ali
Curtiss-Wright	John Phillips
ECL, Inc.	Tom Iddings
eSilicon	Hanza Rahmai
Exar Corp.	Helen Nguyen
ICT-Lanto	Steven Wong*
JEITA	Atsushi Ishikawa
Leading Edge	Pietro Vergine
Magna Design Automation	Anand Ramalingam
Mindspeed	Bobby Altaf
National Semiconductor	Hsinho Wu
NetLogic Microsystems	Eric Hsu, Edward Wu, Antonio Orphanou, Halil Civit
NXP Semiconductors	Gerald Krasemann
Politecnico di Torino	Igor Stievano, Stefano Grivet-Talocia, Piero Triverio, Flavio Canavero
Renesas Technology	Takuji Komeda
Siemens, AG.	Manfred Maurer, Michael Flint
Simberian	Yuriy Shlepnev
Span Systems Corporation	Vidya (Viddy) Amirapu
Summit Computer Systems	Bob Davis
Tabula	David Banas
TechAmerica	(Chris Denham)
Vitesse Semiconductor	Bob McDonough
Independent	AbdulRahman (Abbey) Rafiq, Robert Badal

In the list above, attendees at the meeting are indicated by *. Principal members or other active members who have not attended are in parentheses. Participants who no longer are in the organization are in square brackets.

UPCOMING MEETINGS

The bridge numbers for future IBIS teleconferences are as follows:

Date	Meeting Number	Meeting Password
August 20, 2010	204 715 935	IBIS

For teleconference dial-in information, use the password at the following website:

<https://cisco.webex.com/cisco/j.php?J=204715935>

All teleconference meetings are 8:00 AM to 9:55 AM US Pacific Time. Meeting agendas are typically distributed seven days before each Open Forum. Minutes are typically distributed within seven days of the corresponding meeting. When calling into the meeting, follow the prompts to enter the meeting ID. For new, local international dial-in numbers, please reference the bridge numbers provided by Cisco Systems at the following link:

http://www.cisco.com/web/about/doing_business/conferencing/index.html

NOTE: "AR" = Action Required.

INTRODUCTIONS AND MEETING QUORUM

No new participants.

CALL FOR PATENTS

Michael Mirmak called for any patents or pending patents related to the IBIS 3.2, IBIS 4.2, IBIS 5.0, Touchstone 2.0 or ICM 1.1 specifications. No patents were declared.

MEMBERSHIP UPDATE AND TREASURER'S REPORT

Bob Ross reported that we still have 31 members. We need confirmation on one payment. We will have enough funds to cover our regular expenses. TechAmerica may have mailer problems regarding the invoices, since some have not received invoices.

REVIEW OF MINUTES AND ARS

Michael Mirmak called for comments regarding the minutes of the July 9, 2010 IBIS Open Forum teleconference. Mike LaBonte reported for Randy Wolff that the minutes listed Bob Ross as Chair instead of Michael in the Notes section. The July 9 minutes were approved with the noted change.

WEB PAGE UPDATES

Syed Huq reported that the events page was updated to add China summits.

MAILING LIST ADMINISTRATION

Mike LaBonte reported that things had been normal lately until this morning, when a large number of email deliveries to st.com apparently failed. This could be related to the reputation of our SMTP server, but the error messages are too cryptic to be sure of that. Mike will contact someone at STMicroelectronics to investigate this. Bob Ross noted that every sender got a bounce reply back to the sender, and that this was in response to an email sent from ST. There previously was a similar problem with Mentor but that was cleared up.

MODEL LIBRARY UPDATE

No report.

MISCELLANY/ANNOUNCEMENTS

None.

OPENS FOR NEW ISSUES

Bob Ross asked to add BUG120 to the list.

INTERNATIONAL/EXTERNAL ACTIVITIES

- DASC

No update. The DASC file and e-mail archive may be found at:

<http://www.dasc.org/>

- P1735 Encryption

Syed Huq reported that there is a lot of email reflector activity but nothing really new to report. The IEEE Study Group on Encryption web reflector archives are found at:

<http://www.eda-stds.org/ip-encrypt/hm/>

-VHDL-AMS meeting

Arpad Muranyi reported that there have been no meetings since our last teleconference. This subcommittee is working on table-driven models.

-Conferences

Michael Mirmak noted that EPEP will be held in Texas this year.

-Press Update

None.

TECHAMERICA STATUS

Michael Mirmak reported that TechAmerica still exists. We are trying to get updates on their financial status.

IEC APPROVAL ACTIVITIES

Michael Mirmak reported that Randy Wolff has had no success contacting Victor Berman. He will try contacting Stan Krolikoski, the new DASC chair.

SUMMIT STATUS

-China Summit Planning

Bob Ross reported that the current location for the meeting is the Four Points by Sheraton hotel in Shenzhen on Tuesday, November 9. Lance Wang has paid the deposit. A minor issue is who to list for sponsors, considering uncertain payments statuses. There may be vendor tables in the conference room itself. Lance has asked the hotel to provide discount rates for travelers. They offered 700RMB including breakfast and Internet, a good deal. Those interested should contact Lance.

-Taiwan Summit Planning

Bob reported that it will be held Friday, November 12 at the Sherwood Hotel in Taipei near Intel. The room arrangement is better than the previously considered Westin Hotel. Sigrity will assist with the registration. Steven Wong noted that they can assist. Announcements will be prepared. We have 5 to 7 possible sponsors. This summit is not yet fully funded. Michael Mirmak said announcements should go out no later than the 3rd week of September. Bob asked Michael if he could find good hotels in the area since the Sherwood is expensive. Steven asked if it could be held near Taiwan University. Michael noted that people do not have to stay at the conference hotel.

-Japan Summit Planning

Bob reported this will be Monday, November 15 at the JEITA headquarters near Tokyo Station. Last year Shoji-san cosigned. Bob is trying to arrange for a new cosigner this year. No lunch will be provided.

Steven asked if the same presentations would be given at all locations. Michael Mirmak said we encourage local presentations. We also do not require English. We use different models for China and Japan, and the China model would be used for Taiwan. In China, Lance often helps with translations. English ability may be more prevalent in Taiwan, although Mandarin is the main language there. Time is a limitation. Michael noted that delivery in local languages is fine. Agendas should be out one week in advance, by September 2 for the China summit. Presentations must be submitted to the IBIS board for review. Marketing presentations are strongly discouraged. Lance agreed that the review should help filter that out. Late submissions may be excluded from the printed booklet. Bob had planned on October 12 as the China submission deadline. Ad hoc presentations will not be accepted.

Michael added that we should consider a press release since we are expanding our presence in Asia. Bob noted that we usually start announcements in August. We should announce all three in a China announcement next week. This will help companies plan for travel.

Sponsorship opportunities for all upcoming IBIS summits are available, with sponsors receiving free mentions in the minutes, agenda, and other announcements. Contact the IBIS Board for further details.

IBIS QUALITY TASK GROUP

Mike LaBonte reported that they are continuing to study the IEEE Feature Selective Validation specification and the FSV1D software that implements the method. An effort to review the outline of the in-progress IBIS Correlation document has also begun. The next meeting will be August 3.

The Quality Task Group checklist and other documentation can be found at:

http://www.eda.org/ibis/quality_wip/

IBIS MODEL REVIEW TASK GROUP

No update. Michael Mirmak said that those with models to review can contact Lynne Green. Lance Wang added that Lynne did receive a model for review recently.

ADVANCED TECHNOLOGY MODELING TASK GROUP

Arpad Muranyi reported that the group decided to submit Walter's AMI Flow BIRD. A second BIRD is needed to resolve a de-convolution issue. The BIRDs will be submitted after review of the second BIRD and a decision on whether to first merge them. Bob Ross would prefer to merge the two BIRDs. Michael Mirmak noted that fewer links between BIRDs is better than having to approve one conditionally.

Task group material can be found at:

http://www.eda-stds.org/ibis/macromodel_wip/

INTERCONNECT TASK GROUP

Michael Mirmak reported that the group continues to meet weekly on Wednesdays at 09:00 PT. They will hammer out a skeleton document next week for the Model Connection Protocol, which will include a number of features. Steven Wong asked who can be in the ad hoc group. Michael said anyone who has an interest can join. Bob considers the group to be permanent, not ad hoc, having existed for years.

Task group material can be found at:

<http://www.eda.org/ibis/adhoc/interconnect/>

NEW ISSUES

Michael Mirmak proposed the creation of permanent email addresses for summits and model review.

TSIRD2.1 – BINARY FORMAT SUPPORT

This topic was recently discussed in the Interconnect task group. The new example is difficult to read without additional spaces. It was decided to schedule this for a vote at the next Open Forum meeting. Bob Ross noted that the posted documents should include the Word documents since that format is what is used in the specification.

TSCHK2 BUG STATUS

No BUGs to report. Michael Mirmak noted that the source code is available for purchase.

IBISCHK5 BUG STATUS

Bob Ross described the new bug, BUG120, proposing that unused [Model Selector]s should be reported. This is categorized as a low priority enhancement, to become a CAUTION check in a future release. Lance Wang asked about the CAUTION category and Bob explained that they are lower level tests. Mike LaBonte noted that the [Model]s referenced by the [Model Selector]s would be flagged as unused if not referenced any other way.

IBISCHK5 PROJECT

Bob Ross reported that the developer is looking at BUG118 and BUG119. Warnings previously reported are no longer being reported beginning in ibischk version 4.2.1. Bob believes there may be some orphaned code. Release of version 5.0.4 is expected in 3 weeks. It will take a few weeks to evaluate.

There are 12 open BUGs currently. 9 BUGs (up to BUG114) are being fixed with a new parser development project. There are 5 SEVERE bugs after BUG114.

PULLUP/PULLDOWN RESISTOR DETECTION PROPOSAL

Michael Mirmak noted that Greg Edlund was unable to attend the meeting but would have a BIRD ready for review by the next teleconference.

IBIS-ISS – STATUS

Michael Mirmak reported that the specification is updated each week. It includes passive elements and some dependent sources and is on the IBIS website. It will be considered by the ATM group before submission to the Open Forum. There are issues like inconsistencies in how HSPICE line continuations are described. Bob Ross said we would have to decide whether rare forms such as backslash should become illegal in ISS or merely not recommended. Michael said it would remain so as to not invalidate existing models, but the usage rules need to be clarified. Arpad Muranyi asked if this would be an independent specification. Michael said that is open for debate. It could be a BIRD, although it was initially expected to be separate. Bob and Arpad preferred that it be a separate document. Mike LaBonte will upload revision 0.5 of the specification to the ibis-iss_wip page.

The work in progress document can be found in the following directory:

http://www.eda.org/ibis/ibis-iss_wip/

NEW ISSUES

None.

NEXT MEETING

The next IBIS Open Forum teleconference will be held August 20, 2010 from 8:00 to 10:00 AM US Pacific Standard Time. A vote is scheduled for TSIRD2.1.

NOTES

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This meeting was conducted in accordance with the GEIA Legal Guides and GEIA Manual of Organization and Procedure.

The following e-mail addresses are used:

majordomo@eda.org

In the body, for the IBIS Open Forum Reflector:
subscribe ibis <your e-mail address>

In the body, for the IBIS Users' Group Reflector:
subscribe ibis-users <your e-mail address>

Help and other commands:
help

ibis-request@eda.org

To join, change, or drop from either or both:
IBIS Open Forum Reflector (ibis@eda.org)
IBIS Users' Group Reflector (ibis-users@eda.org)
State your request.

ibis-info@eda.org

To obtain general information about IBIS, to ask specific questions for individual response, and to inquire about joining the EIA-IBIS Open Forum as a full Member.

ibis@eda.org

To send a message to the general IBIS Open Forum Reflector. This is used mostly for IBIS Standardization business and future IBIS technical enhancements. Job posting information is not permitted.

ibis-users@eda.org

To send a message to the IBIS Users' Group Reflector. This is used mostly for IBIS clarification, current modeling issues, and general user concerns. Job posting information is not permitted.

ibis-bug@eda.org

To report ibischk parser BUGs as well as tschk2 parser BUGs. The BUG Report Form for ibischk resides along with reported BUGs at:

<http://www.eda.org/ibis/bugs/ibischk/>
<http://www.eda.org/ibis/bugs/ibischk/bugform.txt>

The BUG Report Form for tschk2 resides along with reported BUGs at:

http://www.eda.org/ibis/tschk_bugs/
http://www.eda.org/ibis/tschk_bugs/bugform.txt

icm-bug@eda.org

To report icmchk1 parser BUGs. The BUG Report Form resides along with reported BUGs at:

http://www.eda.org/ibis/icm_bugs/
http://www.eda.org/ibis/icm_bugs/icm_bugform.txt

To report s2ibis, s2ibis2 and s2iplt bugs, use the Bug Report Forms which reside at:

<http://www.eda.org/ibis/bugs/s2ibis/bugs2i.txt>
<http://www.eda.org/ibis/bugs/s2ibis2/bugs2i2.txt>
<http://www.eda.org/ibis/bugs/s2iplt/bugsplt.txt>

Information on IBIS technical contents, IBIS participants and actual IBIS models are available on the IBIS Home page:

<http://www.eigroup.org/ibis/ibis.htm>

Check the IBIS file directory on eda.org for more information on previous discussions and results:

<http://www.eda.org/ibis/directory.html>

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IBIS CURRENT MEMBER VOTING STATUS

I/O Buffer Information Specification Committee (IBIS)

Organization	Interest Category	Standards Ballot Voting Status	June 11, 2010	June 15, 2010	July 9, 2010	July 30, 2010
Advanced Micro Devices	Producer	Active	-	-	X	X
Agilent Technologies	User	Active	X	X	X	X
Ansys	User	Inactive	-	-	-	-
Apple Computer	User	Inactive	-	-	-	-
Applied Simulation Technology	User	Inactive	-	-	-	-
ARM	Producer	Inactive	-	-	-	-
Cadence Design Systems	User	Inactive	-	X	-	X
Cisco Systems	User	Active	X	X	X	X
Ericsson	Producer	Active	X	X	X	-
Freescale	Producer	Inactive	-	-	-	-
Green Streak Programs	General Interest	Inactive	-	-	-	-
Huawei Technologies	Producer	Inactive	-	-	-	-
Hitachi ULSI Systems	Producer	Inactive	-	-	-	-
IBM	Producer	Active	X	X	X	X
Infineon Technologies AG	Producer	Inactive	-	-	-	-
Intel Corp.	Producer	Active	X	X	X	X
IO Methodology	User	Active	X	X	X	X
LSI	Producer	Active	X	-	X	X
Mentor Graphics	User	Active	X	X	X	X
Micron Technology	Producer	Active	X	-	X	-
Nokia Siemens Networks	Producer	Active	X	-	X	X
Samtec	Producer	Inactive	-	-	-	-
Signal Integrity Software	User	Active	X	X	X	X
Sigrity	User	Inactive	-	-	-	-
Synopsys	User	Inactive	-	X	-	-
Teraspeed Consulting	General Interest	Active	X	X	X	X
Texas Instruments	Producer	Inactive	-	-	-	-
Toshiba	Producer	Inactive	-	X	-	-
Xilinx	Producer	Inactive	-	-	-	-
ZTE	User	Inactive	-	-	-	-
Zuken	User	Inactive	-	-	-	-

CRITERIA FOR MEMBER IN GOOD STANDING:

- MUST ATTEND TWO CONSECUTIVE MEETINGS TO ESTABLISH VOTING MEMBERSHIP
- MEMBERSHIP DUES CURRENT
- MUST NOT MISS TWO CONSECUTIVE MEETINGS

INTEREST CATEGORIES ASSOCIATED WITH TECHAMERICA BALLOT VOTING ARE:

- USERS - MEMBERS THAT UTILIZE ELECTRONIC EQUIPMENT TO PROVIDE SERVICES TO AN END USER.
- PRODUCERS - MEMBERS THAT SUPPLY ELECTRONIC EQUIPMENT.
- GENERAL INTEREST - MEMBERS ARE NEITHER PRODUCERS NOR USERS. THIS CATEGORY INCLUDES, BUT IS NOT LIMITED TO, GOVERNMENT, REGULATORY AGENCIES (STATE AND FEDERAL), RESEARCHERS, OTHER ORGANIZATIONS AND ASSOCIATIONS, AND/OR CONSUMERS.