**IBIS Open Forum Minutes**

Meeting Date: **November 19, 2021**

Meeting Location: **Teleconference**

**VOTING MEMBERS AND 2021 PARTICIPANTS**

|  |  |
| --- | --- |
| Analog Devices (Maxim Integrated) | Tushar Pandey\*, Pawan Sai, Yan Liang, Glenn Amparo\*, Jermaine Lim\*, Rolynd Aquino\* |
| ANSYS | Curtis Clark\*, Wei-Hsing Huang, Miyo Kawata |
| Applied Simulation Technology | (Fred Balistreri) |
| Broadcom | (Yunong Gan) |
| Cadence Design Systems | Zhen Mu\*, Ryo Sato, Takuya Moriya, Tadaaki Yoshimura, Morihiro Nakazato, Masahiro Nakahara, Yitong Wen |
| Celestica | (Sophia Feng)  |
| Cisco Systems | (Stephen Scearce), Guobing Han |
| Dassault Systemes (CST) | Stefan Paret, David Duque, Longfei Bai |
| Ericsson | (Guohua Wang) |
| Google | Zhiping Yang\*, Songping Wu |
| Huawei Technologies | Hang (Paul) Yan, Kai Zhao, Liqing Guang, Peng Xiao, Wei Gao, Hai Wen, Xiaojun Zhou, Xusheng Liu, Xing Wang, Zhang Hui |
| Infineon Technologies AG  | (Christian Sporrer) |
| Instituto de Telecomunicações | (Abdelgader Abdalla) |
| Intel Corporation | Hsinho Wu\*, Michael Mirmak\* |
| Keysight Technologies | Radek Biernacki\*, Fangyi Rao, Pegah Alavi, Todd Bermensolo, Majid Ahadi Dolatsara\*, Xiuguo Jiang, Jiarui Wu |
| Keysight Technologies Japan K.K. | Toshinori Kageura, Yoshio Akashi, Satoshi Nakamizo |
| Luminous Computing | David Banas |
| Marvell | Steven Parker\* |
| MathWorks (SiSoft) | Mike LaBonte\*, Walter Katz |
| Micron Technology | Randy Wolff\*, Justin Butterfield, Aniello Viscardi, Akshay Shivaji Chaudhari, Dragos Dimitriu, Chunqiang Weng, Hongyan Li, Tree Li, Zhang Cheng |
| Micron Memory Japan, G.K. | Masayuki Honda, Mikio Sugawara |
| MST EMC Lab | Chulsoon Hwang, Anfeng Huang, Yifan Ding, Ling Zhang |
| NXP | Jon Burnett  |
| SerDesDesign.com | (John Baprawski) |
| Siemens EDA (Mentor) | Arpad Muranyi\*, Weston Beal\* |
| Siemens AG | Franz Pfleger, Sebastien Kollinger |
| Siemens Electronic Design Automation Japan K.K. | Kunimoto Mashino |
| STMicroelectronics | (Gerard Mas) |
| Synopsys | Ted Mido\*, Andy Tai, Claire Cao, Jinghua Huang, Kevin Li, Xuefeng Chen, Yuyang Wang, Zhishuan Ye |
| Teraspeed Labs | Bob Ross\* |
| Xilinx | (Romi Mayder) |
| ZTE Corporation | Bowen Shen, Changgang Yin, Dongdong Ye, Liqiang Meng, Xiaoxuan Liu, Hongbin Shi, Jian Huang, Jinlong Li |
| Zuken | Michael Schäder, Chithrupa Ramesh |
| Zuken USA | Lance Wang\* |
| Zuken Japan | Kensuke Yoshijima, Shiratori Takayuki |

**OTHER PARTICIPANTS IN 2021**

|  |  |
| --- | --- |
| A&D Print Engineering Co., Ltd. | Ryu Murota, Minoru Hasegawa |
| Achronix Semiconductor | Hansel Dsilva |
| AET, Inc. | Keisuke Tqahara |
| Alibaba, Inc. | Cassie Yan |
| AMD Japan | Tadashi Arai |
| Analog Devices | Patrick Deroy |
| Apollo Giken Co., Ltd. | Satoshi Endo |
| ATE Service Corporation | Yutaka Honda |
| Aurora System Inc. | Hitoshi Ishikawa |
| AVL Software and Functions | Wolfgang Röhrner |
| Blue Ocean Smart System | Junyong Deng |
| Canon Components Inc. | Takeshi Nagata |
| Canon Inc. | Syouji Matsumoto, Satoru Ishikawa |
| Ciena | Taha Kheyar, Kaisheng Hu |
| CMK Corporation | Motoshi Nakamura, Masaki Abe |
| Continental Automotive | Julnar Musmar, Stefanie Schatt |
| Cybernet Systems Co., Ltd. | Shiho Nagae, Takayuki Tsuzura |
| D-Clue Technologies Co., Ltd. | Kenzo Tan |
| De Montfort University (IEEE EMC)  | Alistair Duffy |
| Denso Corporation | Koji Ichikawa |
| Elite Material Co. | Nick Huang |
| Empyrean | Chenghan Jia, Jiajie Zhao, Yuting Yin, Tao Zhang |
| Eswin | Sitao Chen |
| Extreme Networks | Robert Haller |
| Faurecia Clarion Electronics Co., Ltd. | Yasui Takatsugu |
| Fujifilm Manufacturing Co., Ltd. | Rumi Maeda |
| Fujitsu Interconnect Technologies Limited | Manabu Fukuzawa |
| Fujitsu Limited | Takashi Kobayashi, Hideki Takauchi, Yoshio Nabeyama, Makoto Yoshino |
| Fujitsu Optical Components Limited | Masaki Kunii |
| Fujitsu Interconnect Technologies Limited, Japan | Masaki Kirinaka |
| Fulhan | Zhengyi Zhu |
| Furukawa Electric Co., Ltd. | Takumi Ohuchi |
| H3C | Xinyi Hu, Muwang Ye, Zixiao Yang |
| Hamamatsu Photonics K.K. | Akihiro Inoguchi |
| Hamburg University of Technology | Cheng Yang |
| Harbin Institute of Technology | Gang Zhang |
| Hitachi, Ltd. | Goro Hamamoto, Keisuke Yamamoto |
| HOEI Co., Ltd. | Tatsuya Chiba |
| Hoya Corporation | Masayuki Hagiwara |
| IB-Electronics | Makoto Matsumuro |
| Innotech Corporation | Shinobu Seki, Tasuku Kanomata |
| Integran Co., Ltd. | Norio Miyamoto |
| Interchip Corporation | Satoshi Fujita, Hiroaki Takahashi |
| IT-Beratung-Maurer | Manfred Maurer |
| Japan Aviation Electronics Industry Limited | Kentaro Toda |
| Japan Radio Co., Ltd. | Hiroto Katakura, Takashi Sato, Youichi Suzuki |
| JEDAT Inc. | Nobuto Ono |
| JEITA | Akihiko Kawasaki, Kyoji Yamazaki, Hisashi Saito |
| Jujube LLC | Taiji Hosaka |
| JVC Kenwood Corporation | Yasutoshi Ojima, Hidetoshi Suzuki, Takuo Fujimura |
| Kandou Bus | Sherman Chen |
| KEI Systems | Shinichi Maeda |
| Keita Smart Mirai Creations Co., Ltd. | Keita Miyasato |
| Keyence Corporation | Tomoh Uchida |
| Kioxia Corporation | Masato Kanie, Jyuichiro Noda,Takaya Yamamoto, Mohamedo Mansuru, Minori Yoshitomi, Takayuki Mizogami |
| Kioxia Systems Co., Ltd. | Jyun Shibasaki, Tomomichi Takahashi, Yukio Tanoue |
| Konica Minolta, Inc. | Takeshi Nomura |
| Kyocera Corporation | Aki Tanaka |
| MD Systems Co., Ltd. | Hidetoshi Ogawa |
| Megachips Corporation | Tomochika Kitamura |
| Mercury Systems | Vincent Tam  |
| Microchip Norway | Lars Snith |
| Mitsubishi Electric Corporation | Yusuke Suzuki, Masaki Watanabe |
|  Mitsubishi Electric Corporation | Yasuhiro Segawa |
| Mitsumine-Denshi Co., Ltd. | Ryouichi Nakahigashi |
| Modech Inc. | Tadashi Akio |
| Molex Japan LLC | Masashi Iwata |
| Murata Manufacturing Co., Ltd. | Hideki Miyazawa, Seiji Hidaka, Shigeaki Hashimoto |
| NTT Electronics Cross Technologies Corporation | Megumi Nagata |
| Panasonic Corporation | Shinichi Tanimoto, Shingo Enomoto, Atsushi Nakano |
| Politecnico di Torino | Stefano Grivet-Talocia, Paolo Manfredi, Alessandro Zanco, Felipe Treviso, Marco Destefano, Riccardo Trinchero, Tomasso Bradde |
| PWB Corporation | Toru Ohhisa |
| Renesas Electronics Corporation | Kazuyuki Sakata, Masato Suzuki, Kazuaki Tsuchiyama, Kazunori Yamada, Jyunichi Yamada, Billy Chen, Mengting Liao |
| Ricoh Company, Ltd.  | Toshihiko Makino, Hisao Kurosu, Nobuo Nakane, Miyoko Goto |
| Ricoh Electronic Devices Co., Ltd. | Takeshi Hara |
| Rohm Co., Ltd. | Nobuya Sumiyoshi, Kenichi Ozaki |
| RTC | Ken Whigham  |
| SAXA, Inc. | Takayuki Ito, Takayuki Sato |
| Schneider Electric Japan Holdings Ltd. | Hiroaki Fujita |
| Seiko Epson Corporation | Toshiyuki Nishiyama |
| Sihi Semiconductor | Ying He |
| Shimadzu Corporation  | Kazuo Nakajima |
| Silvaco Japan Co., Ltd | Yoshihiko Yamamoto |
| Simberian | Yuriy Shlepnev |
| Socionext Inc. | Shizue Kato, Hajime Ohmi, Motoaki Atsumura, Megumi Ohno, Ayako Kitamoto |
| Sohwa & Sophia Technologies | Tomoki Yamada |
| Sony Global Manufacturing & Operations Corporation  | Yuichi Ikeya, Atsushi Yoshimoto |
| Sony LSI Design Inc. | Kazuki Murata, Toru Fujii |
| Sony Semiconductor Manufacturing Corporation | Kengo Imazato |
| Technopro Design Company | Mai Fukuoka |
| Teikyo Heisei University | Kohtaro Hachiya |
| Tektronix & Fluke Corporation | Katsuhiko Suzuki |
| Tektronix Company | Takafumi Watanabe |
| Teradyne | Tao Wang, Tomoh Tashiro |
| Tokyo Drawing Ltd. | Masahiko Nakamura |
| Tomen Devices Corporation | Kinji Mitani |
| Toshiba Corporation | Yasuki Torigishi |
| Toshiba Development & Engineering Corporation | Nobuyuki Kasai, Nobuhiro Tsuruta |
| Toshiba Electronic Devices & Storage Corporation | Atsushi Tomishima, Toshihiro Tsujimura, Yoshinori Fukuba |
| University of Illinois, Urbana | Jose Shutt-Ainé, Xinying Wang |
| WADOW | Kazuhiko Kusunoki |
| Xpeedic | Bing Sun, Chengzhi Hu, Huashan Cui, Max Cang, Qiujie Zhang, Ruijie Zhao, Sophia Gui, Wei He, Yiwei Yang, Yunbing Xia, Zhouxiang (Zachary) Su, Wenliang Dai, Yan Liu |
| Yamaha Corporation | Hiroyuki Kai, Tetsuya Kakimoto |
| Yazaki Parts Co., Ltd. | Kenichi Fujisawa |
| Yokogawa Electric Corporation | Daisuke Kamezawa |

In the list above, attendees at the meeting are indicated by \*. Those submitting an email ballot for their member organization for a scheduled vote 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 connection information for future IBIS teleconferences is as follows:

Microsoft Teams meeting

**Join on your computer or mobile app**

[Click here to join the meeting](https://nam10.safelinks.protection.outlook.com/ap/t-59584e83/?url=https%3A%2F%2Fteams.microsoft.com%2Fl%2Fmeetup-join%2F19%253ameeting_MmIwNzhhNmItNzA1NC00ZTg1LWE0MDMtNGFiYzg1NDQ3MmE5%2540thread.v2%2F0%3Fcontext%3D%257b%2522Tid%2522%253a%2522fcbfc6fa-e20b-4a1d-b629-1b8e17697dbc%2522%252c%2522Oid%2522%253a%25227735c7ad-2577-4290-9e27-bce52c296030%2522%257d&data=04%7C01%7Ccurtis.clark%40ansys.com%7C31ef953a4d93460c286f08d90345d1fb%7C34c6ce6715b84eff80e952da8be89706%7C0%7C0%7C637544421277314270%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=zAeh7fCRElDR1NAQiiqHUfTwbTIg%2BkEQnkgGnEn65Kk%3D&reserved=0)

**Join with a video conferencing device**

106010980@teams.bjn.vc

Video Conference ID: 114 666 897 5

[Alternate VTC dialing instructions](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fsupport.bluejeans.com%2Fknowledge%2Fvtc-dial-in-options-for-teams&data=04%7C01%7Ccurtis.clark%40ansys.com%7C31ef953a4d93460c286f08d90345d1fb%7C34c6ce6715b84eff80e952da8be89706%7C0%7C0%7C637544421277324259%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=1kD4GmLd%2BbdzErQBSHS1UPBmh0y5G8PlDlZUtMSsxkQ%3D&reserved=0)

**Or call in (audio only)**

+1 267-768-8015,554664847#   United States, Philadelphia

Phone Conference ID: 554 664 847#

[Find a local number](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdialin.teams.microsoft.com%2Fd1ae197a-e3fc-4c53-90b6-39fdeba65bc1%3Fid%3D554664847&data=04%7C01%7Ccurtis.clark%40ansys.com%7C31ef953a4d93460c286f08d90345d1fb%7C34c6ce6715b84eff80e952da8be89706%7C0%7C0%7C637544421277324259%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=N5Ha2rFhHG%2FIXyLoSEfS%2B1XYjLP9c1I8%2B%2BKSMNVgqgM%3D&reserved=0) | [Reset PIN](https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmysettings.lync.com%2Fpstnconferencing&data=04%7C01%7Ccurtis.clark%40ansys.com%7C31ef953a4d93460c286f08d90345d1fb%7C34c6ce6715b84eff80e952da8be89706%7C0%7C0%7C637544421277334256%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=iKkTEbcyELtfgSacAxVtz%2BCU%2Fmsr5%2Bb04%2Bwg8PpOSH4%3D&reserved=0)

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All teleconference meetings are 8:00 a.m. to 9:55 a.m. 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.

NOTE: "AR" = Action Required.

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**INTRODUCTIONS AND MEETING QUORUM**

Glenn Amparo introduced himself as a system application manager at Analog Devices, mainly handling IBIS models. Jermaine Lim said she was Glenn’s manager. She created IBIS models for ADI parts. Rolynd Aquino said he was creating IBIS-AMI models for ADI parts. Mike LaBonte declared that a quorum had been reached.

**CALL FOR PATENTS**

Randy Wolff called for declaration of any patents or pending patents related to the IBIS, IBIS-ISS, ICM, or Touchstone 2.0 specifications. No patents were declared.

**REVIEW OF MINUTES AND ARS**

Randy Wolff called for comments on the minutes of the October 29, 2021, IBIS Open Forum teleconference. Lance Wang moved to approve the minutes. Radek Biernacki seconded the motion. There were no objections.

Randy reviewed ARs from the previous meeting.

* Michael Mirmak to inform JEITA “LPB” group about upcoming IBIS 7.1 version [AR]
Michael said (later in the meeting) this was done.
* Randy Wolff (and Steve Parker) to update BIRD215 status on the website [AR]
Randy said this was done.
* Bob Ross to update status of BUG225 on website [AR]
Bob said this was done.
* Bob Ross to update status of BUG226 on website [AR]
Bob said this was done.

**ANNOUNCEMENTS**, **CALL FOR ADDITIONAL AGENDA ITEMS**

None.

**MEMBERSHIP STATUS AND TREASURER'S REPORT**

Bob Ross reported that a $900 prepayment for 2022 dues had been received. Membership status was unchanged, with 29 members. Analog Devices (ADI) had acquired Maxim Integrated, so representatives from either could cast votes. Bob asked to receive the ADI logo with permission to use it for our web page. A full payment of $17,500.00 for ibischk7 version 7.1.0 was expected to be made by the end of the year.

**WEBSITE ADMINISTRATION**

Steven Parker reported that posted minutes were up to date, along with other changes. A home page banner for the latest IBIS 7.1 draft document had been added. Randy Wolff said the Japan and China summits could be moved to the bottom of the events page.

**MAILING LIST ADMINISTRATION**

Curtis Clark reported that everything was operating normally. There had been a few new subscribers. Bob Ross said we needed to ensure that subscriptions using mentor.com and sisoft.com email addresses were resubscribed using new addresses if service for the current ones would be ending soon. Mike LaBonte said he had done that, and Curtis had made changes for Walter Katz.

**LIBRARY UPDATE**

Zhiping Yang reported that there had been no contacts about the library page. Work on the GitHub model website had continued. Randy Wolff said he could put some example models there, with the new EMD keywords. Zhiping invited all to consider contributing models. The email address to reach Zhiping would be found on the Models page at <https://ibis.org/models/>.

**INTERNATIONAL/EXTERNAL ACTIVITIES**

- Conferences

Randy Wolff said we might begin discussing DesignCon, to be held in April of next year. Bob Ross asked how close the IEEE EMC+SIPI conference would be to that. The IEEE SPI conference would be closer to DesignCon. Bob suggested penciling in dates for possible summits. Randy Wolff to suggest dates for 3 potential 2022 summits [AR].

- Press Updates

None.

- Related standards

IEC 63055/IEEE 2401, JEITA “LPB”

Michael Mirmak reported that his AR had been completed, he had informed the JEITA LPB group about the upcoming IBIS 7.1 version release. He would let us know when a response from the JEITA LBP group was received. IEEE DASC and JEITA had held a joint meeting the previous night, but Michael could not attend. He would report once the meeting notes were issued.

**SUMMIT PLANNING AND REVIEW**

- Virtual Asian IBIS Summit (Japan), Friday, November 12, 2021, 08:30 to 12:00 JST

- Virtual Asian IBIS Summit (China), Friday, November 19, 2021, 09:00 to 13:00 CST

Randy said both summit meetings had been recorded, and links for the recordings would be working soon. Individual Japan presentations already had video links. There had been more than 130 Japan attendees. He said there was interest in an updated IBIS Cookbook, covering new features since IBIS 4.2. Randy felt we might be able to issue smaller cookbooks, not a large, comprehensive one. These would be listed as training materials on the website. Mike LaBonte and Randy said it was good to see the interest in moving IBIS forward. Bob Ross said there were about 64 attendees in the China summit.

Randy said he had been contacted by Informa Markets about the prospect for a summit co-located with DesignCon next year. The conference will be held April 5 to 7, Tuesday to Thursday. We would need to decide whether to meet in person. Randy would check on room availability and cost for either Monday or Friday [AR]. Randy said we could conduct a preference survey, but that need not be done immediately. Hsinho Wu said DesignCon would be held at the Santa Clara Convention Center next year. Bob Ross asked if DesignCon would have a combination of onsite and virtual presentations. Hsinho said no. Bob said travel restrictions might make a hybrid summit a good choice. He said that the quoted room and meals cost had been quite high for 2020. Randy was open to hybrid meeting logistics. Tushar Pandey said it would be good to have both options.

**QUALITY TASK GROUP**

Mike LaBonte said the group meets on Tuesdays at 9:00 a.m. PT. The group continues to oversee the next ibischk release, ibischk7.1.0. Details would be discussed later in the meeting.

Weston Beal asked if the IBIS Quality Checklist would be updated. Mike said there were no plans, suggesting that Weston might join the task group meeting to discuss that.

The Quality task group checklist and other documentation can be found at:

<http://www.ibis.org/quality_wip/>

**ADVANCED TECHNOLOGY MODELING TASK GROUP**

Arpad Muranyi reported that the group meets on Tuesdays at 12:00 a.m. PT. The group had decided that no new major discussions should be started until IBIS 7.1 was finalized. The group was suspending the next three meetings. Meetings would resume Jan 4, 2022. Upon resumption, PAMn would be discussed, along with Power Supply Induced Jitter (PSIJ), and GDDR6X issues. Randy Wolff said the IBIS-AMI repeater reference flow BIRD draft needed some updates. Arpad hoped to have IBIS 7.1 approved soon, so that existing BIRDs and drafts could be adjusted to be relative to IBIS 7.1, for IBIS 7.2 consideration.

Task group material can be found at:

<http://www.ibis.org/macromodel_wip/>

**INTERCONNECT TASK GROUP**

Michael Mirmak reported that the Interconnect task group remained suspended. Its former time slot was being used by the Editorial task group.

Task group material can be found at:

<http://www.ibis.org/interconnect_wip/>

**EDITORIAL TASK GROUP**

Michael Mirmak reported that the group had continued meeting on Wednesdays at 8:00 a.m. PT. He thanked Randy Wolff for organizing the most recent meeting. Michael said draft 20 of IBIS 7.1 would be released to the group that day. He thanked all who had reviewed the drafts, noting that some potential conflicts had been found. Michael added that IBIS 7.1 would contain a total of 103 keywords.

Task group material can be found at:

<http://www.ibis.org/editorial_wip/>

**NEW ADMINISTRATIVE ISSUES**

None

**BIRD211.3: IBIS AMI REFERENCE FLOW IMPROVEMENTS**

Discussion was tabled.

**BIRD213: EXTENDING IBIS-AMI FOR PAMn ANALYSIS**

Discussion was tabled.

**BIRD166.4: RESOLVING PROBLEMS WITH REDRIVER INIT FLOW**

Discussion was tabled.

**BIRD181.1: I-V TABLE CLARIFICATIONS**

Discussion was tabled.

**BIRD190: CLARIFICATION FOR REDRIVER FLOW**

Discussion was tabled.

**BIRD210: NEW REDRIVER AMI FLOW**

Discussion was tabled.

**REVIEW OF IBIS 7.1 DRAFT**

Randy Wolff shared the draft and noted that it was draft 19, whereas draft 20 would be available soon. He described a [C Comp Model] terminal line issue that had been found. It was intended that no two [C Comp Model] terminals could have the same terminal type, but that had not been stated. Michael Mirmak showed the new sentence, which would appear on page 86 in draft 20.

Randy said a sentence had also been removed. Michael showed the deleted sentence, which stated that A\_gnd was not required under File\_TS or File\_IBIS-ISS. Randy said the same line appeared in other areas such as EMD. Bob Ross clarified that a terminal type could appear zero or one times. Michael said draft 20 would also contain minor indentation and italicization changes.

Arpad Muranyi asked if there would be any changes to the voting schedule. Randy said it was not felt that a new BIRD was needed for the draft 20 changes. He said draft 20 would be posted as the final draft, and the December 10 vote date would be kept. Mike LaBonte and Michael Mirmak felt that that was consistent with previous practice.

Arpad moved to schedule a vote to approve the IBIS 7.1 draft. Michael seconded. Arpad added that people should continue reviewing. Randy said minor fixes could be incorporated into the upcoming motion to vote. Without objection, the motion was approved. Randy Wolff to send email ballot for IBIS 7.1 approval [AR].

Radek Biernacki asked for the latest draft link to be sent. Arpad said it would, once the draft was final.

**IBISCHK AND TSCHK PARSER AND BUG STATUS**

Bob Ross said the IBISCHK developer had found an error, and there would be a few more changes. He thanked those who had reviewed the source code and tested the executables. A new bug had been found, for something that had previously worked correctly. Bob had checked all the new QA tests. Randy Wolff said a minor issue had been found with IBIS-ISS subcircuit file lookup for EMD models. Bob said this would be the first time the parser would be available at the same time as the specification. Bob felt having the parser work happening at the same time as specification finalization had also helped produce a better specification.

Bob said we would need to accept the parser source code to authorize the payment. Randy said the Quality group had discussed holding an Open Forum acclamation vote to allow payment to be made potentially before the next Open Forum meeting.

Mike LaBonte moved to authorize the IBIS Quality Task Group to decide acceptance of the final source code for IBISCHK7.1.0, allowing the developer to be paid upon acceptance. Radek Biernacki seconded. Without objection the motion passed.

Arpad Muranyi asked if a roll call vote was required to approve the payment. Mike said that vote had already been held and passed. The new vote would be only to accept the final work of the developer, allowing payment to be made. He believed that previous acceptance votes had been by acclamation.

**NEW TECHNICAL ISSUES**

None

**NEXT MEETING**

The next IBIS Open Forum teleconference meeting would be held on December 10, 2021. The following teleconference meeting was tentatively scheduled for January 7, 2022.

Michael Mirmak moved to adjourn. Arpad Muranyi seconded the motion. The meeting adjourned.

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**NOTES**

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 Senior Engineer

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This meeting was conducted in accordance with SAE ITC guidelines.

All inquiries may be sent to info@ibis.org. Examples of inquiries are:

* To obtain general information about IBIS.
* To ask specific questions for individual response.
* To subscribe to or unsubscribe from the official ibis@freelists.org and/or ibis-users@freelists.org email lists (formerly ibis@eda.org and ibis-users@eda.org):
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* To inquire about joining the IBIS Open Forum as a voting Member.
* To purchase a license for the IBIS parser source code.
* To report bugs or request enhancements to the free software tools: ibischk6, tschk2, icmchk1, s2ibis, s2ibis2 and s2iplt.

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

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

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

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

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

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

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**SAE STANDARDS BALLOT VOTING STATUS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Organization** | **Interest Category** | **Standards Ballot Voting Status** | **October 29, 2021** | **(Summit)****November 12, 2021** | **(Summit) November 19, 2021** | **November 19, 2021** |
| Analog Devices (Maxim Integrated) | Producer | Inactive | X | - | - | X |
| ANSYS | User | Inactive | X | - | - | X |
| Applied Simulation Technology | User | Inactive | - | - | - | - |
| Broadcom Ltd. | Producer | Inactive | - | - | - | - |
| Cadence Design Systems | User | Active | X | X | X | X |
| Celestica | User | Inactive | - | - | - | - |
| Cisco Systems | User | Inactive | - | - | X | - |
| Dassault Systemes | User | Inactive | - | - | - | - |
| Ericsson | Producer | Inactive | - | - | - | - |
| Google | User | Inactive | X | - | - | X |
| Huawei Technologies | Producer | Inactive | - | - | X | - |
| Infineon Technologies AG | Producer | Inactive | - | - | - | - |
| Instituto de Telecomunicações | User | Inactive | - | - | - | - |
| Intel Corp. | Producer | Inactive | X | - | - | X |
| Keysight Technologies | User | Active | - | X | X | X |
| Luminous Computing | General Interest | Inactive | - | - | - | - |
| Marvell | Producer | Inactive | X | - | - | X |
| MathWorks (SiSoft)  | User | Active | X | X | X | X |
| Micron Technology | Producer | Active | X | X | X | X |
| MST EMC Lab | User | Inactive | - | - | X | - |
| NXP | Producer | Inactive | - | - | - | - |
| SerDesDesign.com | User | Inactive | - | - | - | - |
| Siemens EDA (Mentor) | User | Active | X | X | - | X |
| STMicroelectronics | Producer | Inactive | - | - | - | - |
| Synopsys | User | Active | X | X | X | X |
| Teraspeed Labs | General Interest | Active | X | X | X | X |
| Xilinx | Producer | Inactive | - | - |  | - |
| ZTE Corp. | User | Inactive | - | - | X | - |
| Zuken | User | Active | X | X | X | X |

Criteria for SAE member in good standing:

* Must attend two consecutive meetings to establish voting membership
* Membership dues current
* Must not miss two consecutive meetings (voting by email counts as attendance)

Interest categories associated with SAE standards 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.