Activities and Direction of IBIS

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

Agenda

- **IBIS Today**
  - Documents and Support Services

- **Upcoming Changes in IBIS**
  - Major Approved BIRDs

- **Work for the Future**
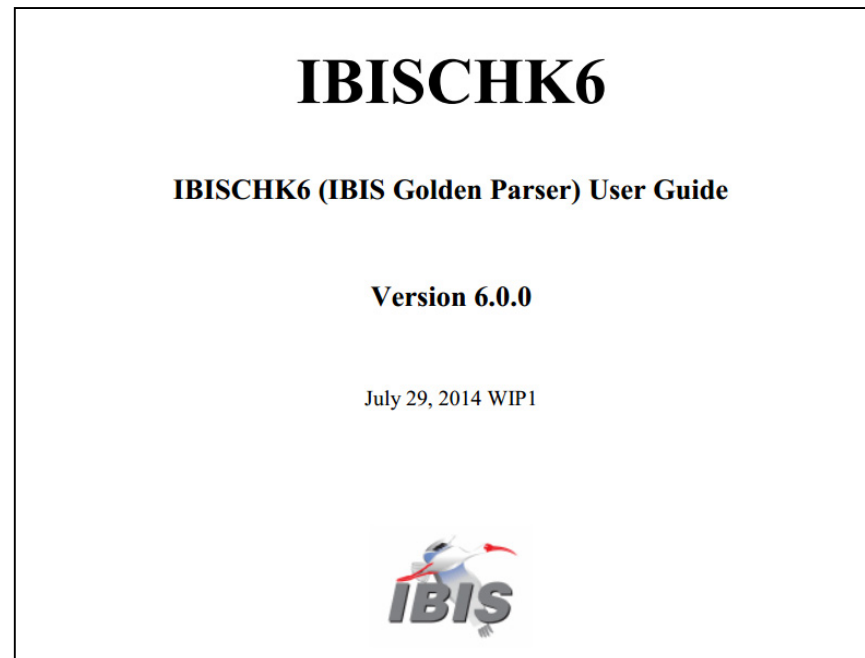
IBIS TODAY

IBIS Today

□ IBIS 6.0 was approved Sept. 2013

   – http://www.eda.org/ibis/ver6.0/

   – Expands IBIS-AMI jitter support

   – Adds IBIS-AMI repeater support

□ IBISCHK6 parser released June 2014

   – Available free: http://www.eda.org/ibis/ibischk6

   – Source code available for licensed purchase

   – Current "bugs" listed at
     http://www.eda.org/ibis/bugs/ibischk/
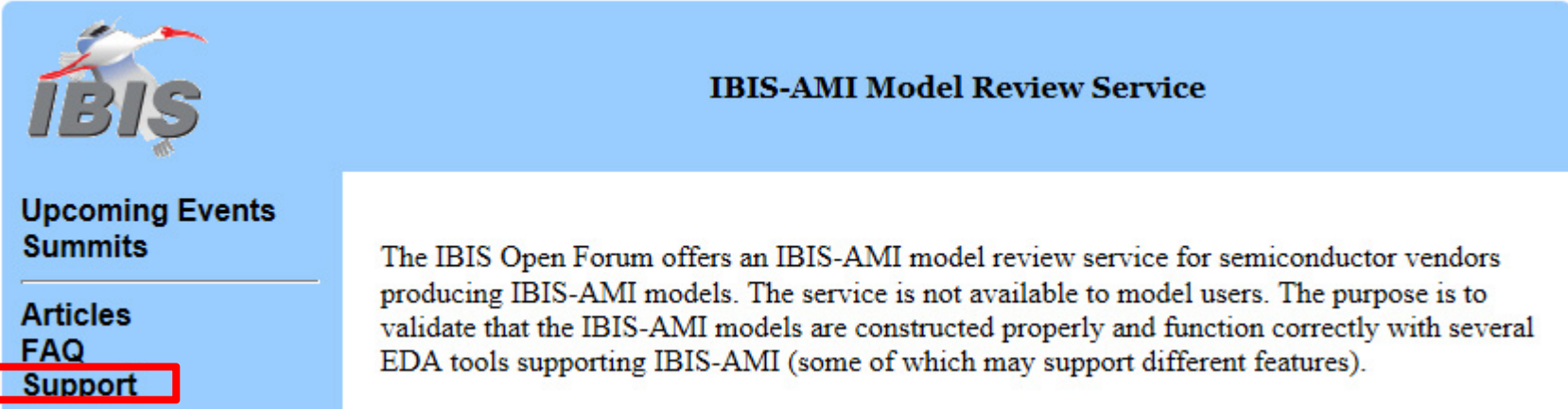
New Support Features

❑ IBISCHK6 Parser User's Guide

  – From the IBIS Quality Task Group

  – http://www.eda.org/ibis/ibischk6/ibischk_6.0.0_UserGuide_wip1.pdf

  – Lists usage, plus every Note, Caution, Error and Warning message

  – Explains the extent of the parser's checks

IBISCHK6

IBISCHK6 (IBIS Golden Parser) User Guide

Version 6.0.0

July 29, 2014 WIP1

Model Review Service

- The IBIS Open Forum has supported review of IBIS models for many years
  - Independent review by volunteer EDA experts, with separate reports provided individually to the submitter
- Recently expanded to cover IBIS-AMI
- Visit http://www.eda.org/ibis/support/ for details

IBIS

IBIS-AMI Model Review Service

Upcoming Events
Summits

Articles
FAQ
Support

The IBIS Open Forum offers an IBIS-AMI model review service for semiconductor vendors producing IBIS-AMI models. The service is not available to model users. The purpose is to validate that the IBIS-AMI models are constructed properly and function correctly with several EDA tools supporting IBIS-AMI (some of which may support different features).

UPCOMING CHANGES

Changes After IBIS 6.0

❑ BIRD: Buffer Issue Resolution Document

  – A change to the IBIS specification that is not yet part of an IBIS version

❑ Up to today, three approved BIRDs make major changes

❑ Five other approved BIRDs make clarifications or corrections

❑ See http://www.eda.org/ibis/birds/

Major Approved BIRDs

- BIRD155.2: AMI Dependent Parameters
  - Allows AMI parameters to depend on the state of other parameters

- BIRD168.1: …Overclocking Caused by Delay in Waveform Tables
  - Unifies amount of delay that can be removed from V-t and I-t tables

- BIRD173: Package RLC Matrix Diagonals
  - Increases package model data checking

WORK FOR THE FUTURE

BIRDs Under Development

- ❏ 11 BIRDs have been proposed but not approved
- ❏ Major areas covered include
  - Backchannel Adaptation for Equalization
  - Expanded Package Capabilities
  - Touchstone for AMI Analog Buffer Models
  - Parameter Passing for External Circuits
- ❏ The Advanced Technology Task Group and the Interconnect Task Group are discussing these

Visit http://www.eda.org/ibis/subcommittee/
to review BIRD development progress and contribute

Organizational Changes

❑ A major revision of the IBIS Open Forum basic policies and procedures is underway

❑ Changes to the IBIS Open Forum "Charter" will allow for greater involvement in votes and officer elections by Membership Companies <u>worldwide</u>

> The IBIS Open Forum would like to encourage more international participation and involvement, including those elected to IBIS Board offices

Request for Feedback

❑ How can IBIS standards be more useful?

– What features would help you most?

❑ How can the IBIS Open Forum keep you better informed?

– More frequent web updates?

– More frequent e-mail information?

– Increased use of social media?

– More Summits?

Your feedback is critical to the development and improvement of IBIS standards!

Q/A