



Recent **IBIS** Activities

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Asian IBIS Summit

Shanghai, China

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**TERASPEED
CONSULTING
GROUP**

New IBIS Logo



New IBIS Officers 2009 - 2010

- Chair: Bob Ross, Teraspeed Consulting Group, (past Chair 1996-2001)
 - Vice-Chair: Lance Wang, IO Methodology
 - Librarian: Anders Ekholm, Ericsson
 - Secretary: Randy Wolff, Micron Technology
 - Webmaster: Syed Huq, Cisco Systems
 - Postmaster: Mike LaBonte, Cisco Systems
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- Thank you Michael Mirmak, Intel Corporation for 6 successful years as Chair and host of previous Asian IBIS Summits



IBIS Active Since 1993

- Regular IBIS meetings
 - Teleconference/Web meetings every 3 weeks
 - Several standards and documents and parsers
- IBIS Summits (about 5 per year)
 - China, Japan, Europe, and USA (2)
- Active task groups with leading experts
 - **Advanced Technology Modeling** - AMI work
 - **Quality** - IBIS Quality Specification
 - **Interconnect** (ad hoc) - Touchstone Spec., ICM
 - **IBIS Model Review** – Free review service



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“ibischk5” Parser Released

- Ibischk5, Version 5.0.0 for IBIS Version 5.0
 - Free executables:
<http://www.eda.org/pub/ibis/ibischk5/>
 - Source code licenses available for purchase
 - Supports IBIS Version 5.0 (ratified 2008)
 - Algorithmic model interface for Serdes analysis
 - Power delivery system SSO and gate modulation
 - EMI parameters
 - Other – (area based thresholds)
- Checks all [IBIS Ver] versions of IBIS files



New Flags in ibischk5

```
Usage: ibischk5          <IBS filename>
      : ibischk5  -ebd <EBD filename>
      : ibischk5  -pkg <PKG filename>
      : ibischk5  -ami <AMI filename>
Usage: ibischk5  -caution -numbered          <IBS filename>
      : ibischk5  -caution -numbered -ebd <EBD filename>
      : ibischk5  -caution -numbered -pkg <PKG filename>
      : ibischk5  -caution -numbered -ami <AMI filename>
```

The flags prior to the file name can be in any order,
and the -caution and/or -numbered flags are optional.

- **-ami** for <file_name>.ami (algorithmic model interface control file)
- **-numbered** for numbered **E**rror, **W**arning, **N**otes and **C**autions messages

ibischk5 {-numbered} -ami file4.ami

Checking file4.ami for IBIS 5.0 Compatibility...

```
ERROR - Illegal Usage value A specified for Param1
ERROR - Illegal Type value B specified for Param1
ERROR - Illegal Format value C specified for Param1
ERROR - No Reserved_Parameters found
```

Errors : 4

File Failed

Checking file4.ami for IBIS 5.0 Compatibility...

```
E4627 - Illegal Usage value A specified for Param1
E4627 - Illegal Type value B specified for Param1
E4627 - Illegal Format value C specified for Param1
E4622 - No Reserved_Parameters found
```

Errors : 4

File Failed



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Released or Current Projects (Some covered in Agenda*)

- Touchstone Version 2.0 ratified in April 2009*
 - Public Touchstone parser “tschk2” by Agilent Technologies (2010)*
 - Future Version 2.1*
- IBIS Quality Specification Version 2.0 soon*
- Algorithmic model interface improvements*
- IBIS Interconnect Spice Subcircuit Specification – (IBIS-ISS) with Synopsys approval (2010)
- IBIS Version 5.1 maintenance and improvement
- IBIS remains active, attracts top talent, and has international participation



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