

IBIS-ATM task group report

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Achievements

- **The IBIS Interconnect SPICE Subcircuit (IBIS-ISS) specification has been handed over to the IBIS_Interconnect Task Group**
 - this was done to speed up the progress, allowing parallel work on ISS and AMI
- **The ATM group was busy fixing AMI specification problems all year**
 - BIRD 112: IBIS-AMI Clock Times Clarification
 - BIRD 114.3: IBIS-AMI Definition Clarifications
 - BIRD 115: Clarifying Min/Tip/Max in IBIS-AMI
 - BIRD 116: Add IBIS-ISS to [External Model] and [External Circuit]
 - BIRD 117.2: Parameterize D_to_A and A_to_D Converters
 - BIRD 118.1: Analog Parameter Assignments
 - BIRD 120: IBIS-AMI Flow Correction
 - BIRD 121: IBIS-AMI New Reserved Parameters for Data Management
 - BIRD 122: IBIS-AMI New Reserved Parameters for Analog Modeling
 - BIRD 123: IBIS-AMI New Reserved Parameters for Jitter/Noise
 - BIRD 124: IBIS-AMI New Reserved Parameters for Dependency Tables
 - BIRD 125: Make IBIS-ISS Available for Package Modeling
 - BIRD 126: IBIS-AMI New Reserved Parameter AMI_Version
 - BIRD 127: IBIS-AMI Typographical Corrections

**Analog
[Model]
improvements**

**Opal
BIRDS**

Work in progress

- **The analog modeling BIRDS are actively discussed currently**
 - details of the schematics shown in the Opal document and BIRD 122
 - what are the sources and their parameters in these schematics
 - what impedances do we connect to the S-parameter ports
 - how can the same circuit be implemented using IBIS-ISS subcircuits (BIRD 116)
 - what is the role of the analog model in the AMI flow
 - generating impulse response
 - being used “directly” between GetWave function calls
 - does the specification need to describe more than one flow and analog models
- **Dependency Table**
 - some comments and questions were raised, but need more discussion
- **Jitter/Noise parameters**
 - just starting discussion on this topic

Work ahead of us

- **Address remaining topics in the AMI Task List spreadsheet**
 - define relationship between “Type” and “Format”
 - what are the allowed combinations?
 - can AMI_Init only modify the first column of impulse_matrix?
 - how about cross talk columns?
 - define how to generate impulse response
 - this may become part of the analog BIRDs
 - work out the syntax details for “Table”
 - some additional text clarifications
- **We are beginning to see the light at the end of the tunnel...**