

Algorithmic Modeling BIRD Update 3 April 2007

Cadence – SiSoft – Mentor



Review

EDA vendors report: March 20th, 2007

- ✓ Discussed proposed changes with IBM and TI
 - Cadence, SiSoft, Mentor presented
 - Agilent joined in as a listener
- ✓ Discussion raised some issues that need to be addressed in calls that will be scheduled this week and possibly next week
- Will review the BIRD with IBIS-ATM once we are through with IP vendors issues

Meetings with IP Vendors

- Meeting on March 22nd, 2007
 - Current Cadence-SiSoft-Mentor proposal required IP Vendors to provide transmit and receive equalization values and Tx modified Impulse response
 - Question for IP Vendors:
What issues are associated with providing transmit and receive equalization values?
 - Attendees from IP Vendors: IBM, TI
 - Attendees from EDA vendors: Cadence, SiSoft, Mentor
- Meeting March 29th topic: Clock PDF
 - Question for the IP Vendors:
What issues are associated with providing a clock PDF?
 - Attendees from IP Vendors: IBM, TI
 - Attendees from EDA vendors: Cadence, SiSoft, Mentor

Meeting with IP Vendors: March 22nd, 2007

Takeaways, follow-up actions

Current Cadence-SiSoft-Mentor proposal required IP Vendors to provide transmit and receive equalization values and Tx modified Impulse response from Init call

- Response & Takeaways from the meeting:
 - IP vendors do not want to provide transmit and receive equalization values
 - IP vendors want to do time domain waveform processing (GetWave)
 1. It provides required accuracy for hardware correlation
 2. Waveform data embeds all needed data
 3. Protects IP in some cases
- Action: Remove the requirement for IP vendors to return transmit and receive equalization from Init
 - Document the following:
 - When GetWave is provided, Tx and Rx Init are not required to provide modified Impulse Response
 - When GetWave is NOT provided, Tx and Rx may return a modified Impulse Response
 - Clock pdf is not required as an output from RxGetWave

Meeting with IP Vendors: March 29th, 2007

Takeaways, follow-up actions

- Question for the IP Vendors: What issues are associated with providing a clock PDF?
 - Response and takeaways:
 - IP Vendors don't have the data that they can trust
 - Make clock pdf data optional
- Action: Document in the BIRD that
 - Clock pdf data is optional
- A missing parameter was identified that needs to be added to the GetWave call
 - Question: What additional parameters need to be provided to make models created under this proposal as acceptably accurate
 - Will be discussed further in next call: April 12th, 2007

Next Steps

- Start discussing BIRD in IBIS-ATM: April 10th, 2007
 - Start with the presentation we gave to IP Vendors
 - High-level and will refresh the overall concept of Simulation platform and IP vendor model interaction
 - Next: discuss BIRD at a detail level
- Next meeting with IBM and TI: April 12th. 2007
 - Continue this in parallel



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