

MIXED-SIGNAL/RF SUBCOMMITTEE MINUTES SPICE MODEL CHECKLIST WORKING GROUP

Date: January 9, 2007
Location: Nangate Inc.
Time: 10:00AM (PST)

Attendees:

- Ehrenfried Seebacher – Austriamicrosystems
- Chelsea Boone – FSA
- Samir Chaudhry - Jazz
- Ken Brock – Nangate
- Sabine Perko – X-Fab
- Sebastian Schmidt – X-Fab

Summary:

- Austriamicrosystems has released a SPICE model checklist and the other fabs on the call were just waiting to clarify the last discussion issues below before releasing their first SPICE model checklists. We do not know the status of the other fabs.
- Current Model Checklist Components are available at:
<http://www.fsa.org/committees/msrf/deliverables.asp>

Discussion Items:

- Completing the SPICE Model Checklist triggered an internal audit of measured vs. simulated plots at one fab. As a result, additional plots were added to the standard documentation. This is a good thing and what we expected as foundries go through this checklist and improve their quality. What gets measured gets done.
- Customer feedback on the checklists in development usually comes through the PDK group who has more customer interaction. Information is from the modeling group and modeling groups believe that it is very necessary and helpful to customers. We can use more feedback as checklists are released. After 18 months of active adoption, we were able to get enough feedback to rev the checklist to incorporate customer feedback.
- Areas for improvement in the checklist may be in the statistical method nomenclature and the model validation of Section 4 (e.g. maximum error which can be large in the sub-threshold region). For the time being, the comment field should be used to clarify the meaning of data that was not completely defined in the user guide or the taxonomy and definitions document.
- We will try to get a better picture of the adoption experience of other fabs for the next meeting.

Next Meeting for SPICE MODEL Checklist Working Group:

The next meeting is scheduled for March 20, 2007 at **9:00AM** (PST) at Nangate and via conference call in deference to our European members who outnumbered our California members.