

MIXED-SIGNAL/RF SUBCOMMITTEE MINUTES AMS/RF PROCESS CHECKLIST WORKING GROUP

Date: April 17, 2007

Location: Conference Call

Time: 10:00AM

Attendees:

- David Cheskis – Jazz
- Chelsea Boone – FSA
- Owen Li
- Ken Brock

Summary:

- Even though we did not have a quorum because of rescheduling the meeting to conflict with the DATE conference in Nice France which precluded attendance by the European participants, we did get some issues clarified and established the need to get a clear set of definitions before progressing further. Inductors and memories need work.

Discussion Items:

- We need to get a good set of working definitions before proceeding much further with refining the checklist. For now, they can reside in the User's Guide but may need their own document such as the definitions and taxonomy used by the SPICE model checklist group.
- It was proposed that the best method to get a set of working definitions was that each person in the group would search for a list that they use and contribute those definitions. Dave submitted a good list from Rockwell.
- In the Passive Device Attributes table, we proposed to reduce the table size as many HV processes have dozens of resistors and other passives. Instead of listing each device as a row, you could just list the number of those devices with the same figure of merit (i.e. 5 poly resistors with same sheet rho, 4 diffusion resistors, 6 metal resistors, etc.). The Name field would be dropped and the device type would be expanded to include material
- Inductors are still an issue. Each inductor device would have its own row for square, octagonal, spiral, differential, balanced, thick metal, groundshield, scaleable. This needs more work. Dave took an action to propose a better method.
- On the IP side, cells and I/O fit into the 0.4 table well but memories are an issue in that #cells and area in gates is not relevant. Ken took an action to propose a better method for different architectures (e.g. N port SRAMS, register files, NVM) and different configurations.
- Referring to Checklist 0.4, Owen recommended that we define volume production as some number X lots shipped commercially

Next Meeting for AMS/RF Process Checklist Working Group:

- May 15, 2007 at 10:00AM on teleconference