

DESIGNCON IBIS SUMMIT, SANTA CLARA, CA FEB 3, 2011

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IBIS QUALITY TASK GROUP

Status:

- Correlation discussion put on hold for now
- A BIRD draft to improve the [Test Data] and [Test Load] structures of the IBIS spec was introduced by Anders Ekholm and is currently discussed
- An [External Test Load/ Test Data] BIRD has been drafted by Anders Ekholm (Ericsson) and Mike LaBonte (Cisco systems)
- This BIRD draft is the current topic of weekly IQ meetings



[Test Load] limitations

- Size of [Test Data] (internal to IBIS file)
- > [Test Data] limited to single edge stimuli (no pulse train)
- > [Test Load] limited to a fixed topology (inflexible)

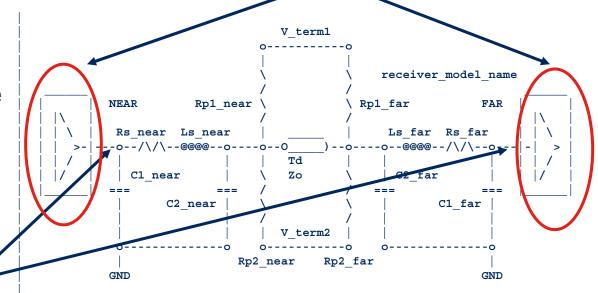
Limited differential load support

Buffer models

Without pin parasitics

Data] usually can not be measured at pad

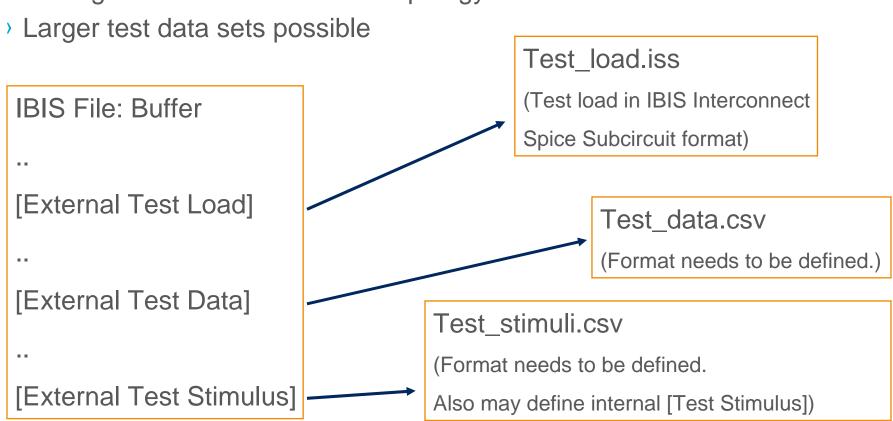
[Test Load] has probe points only at pads





Improvements over [Test Load] / [Test Data]

- Full pulse train stimulus
- More general/flexible test load topology





) [External Test Data]

- Kept in a separate file, size not as limiting
- Support more than two probe points

) [External Test Load]

- Support more than two probe points
- Any load supported by IBIS-ISS can be used
- Probe points defined as .subckt terminals
- Easily re-used for many models

) [External Test Stimulus]

- Any pulse train possible
- Idealized transition times used (no rise/fall time)

Test_data.csv

(Format needs to be defined)

Test_load.iss

(Test load in IBIS-ISS SPICE format.)



ERICSSON