Contribution ID: **4**   Type: **not specified**

High speed interface simulation using the new 3D layout HFSS interface

Wednesday, 11 December 2013 14:40 (8 minutes)

A new 3D Layout interface and meshing technology for the industry standard high frequency structure simulator is shown on example of a PCIe interface, enabling fast and parameterized simulation of physical layer structures as well as their optimization. Statistical methods for data eye calculation and the usage of IBIS AMI and spice models are shown, as well as coupling to thermal and computational fluid dynamics simulations.

Summary

Simulation capabilities, methods and design flows are shown for high accurate assessment of HSIO interfaces. A new interface for electronic CAD data for a 3D full wave EM field solver (HFSS) is shown, offering new possibilities in parameterization and data transfer and by a new mesher enabling full wave solutions for problems or larger scale.

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Session Classification: New products

Track Classification: New products