CST Pushes Boundaries for Model Complexity

Computer Simulation Technology AG (CST) announces enhancements to the transient solver of CST MICROWAVE STUDIO® at MTT-S IMS 2012.

There is an increasing need to model ever more complex devices more realistically. This helps avoid additional cost and time intensive prototyping cycles but can put a great strain on computational resources. The memory efficiency and the robustness of explicit time domain methods and the accuracy of the Perfect Boundary Approximation (PBA)® have established the CST MICROWAVE STUDIO® (CST MWS) transient solver at the forefront of large and detail rich electromagnetic field simulation. The upcoming release of CST MWS will now allow users to leave the 2 billion meshcell (more than 20 billion unknowns) limit behind them. By employing cluster computing, through a message passing interface (MPI) implementation, in combination with cutting edge Graphics Processing Unit (GPU) computing, CST MWS enables customers to tackle simulations of this size within a reasonable time frame.

“Our customers rely on us to provide solutions when they face new challenges in their design work”, said Dr. Peter Thoma, Managing Director R&D, CST. “By equipping CST MWS to deal with even larger problem sizes now, we are addressing a requirement that we see coming in the near future.”

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Posted by Sara Cohen, Editorial Intern

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