

## - PRESS RELEASE -

### CST STUDIO SUITE™ 2008 Now Shipping

**CST - Computer Simulation Technology announces its new product release CST STUDIO SUITE™ version 2008 is now shipping.** CST STUDIO SUITE™ offers RF & microwave, SI and EMC engineers considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation. Version 2008 promises users significant enhancements, particularly in the critical areas of workflow integration and performance.

#### Major improvements include:

- New interfaces to streamline the design workflow
- Performance optimization - through hardware acceleration, improved parallelization of transient and frequency domain solvers, and ongoing code optimization projects with Intel
- Transient far-fields – especially important for engineers working on UWB antennas
- Integral Equation Solver for electrically large structures – of particular interest to engineers working on RCS or antenna placement
- Numerous time saving additions and features

*“CST STUDIO SUITE™ 2008 continues CST’s tradition of innovation in electromagnetics. Our R&D team has been working with fellow technology leaders to develop new workflow integration techniques and optimise simulation performance,”* said Martin Timm, Marketing Director, CST. *“We are confident that Microwave, RF, SI and EMC engineers will not only appreciate the numerous enhancements in this new release, but also the easy access to an increasing number of best-in-class tools.”*

#### **Workflow Integration**

CST has invested heavily in new workflow integration technologies. Two new interfaces are being introduced to streamline design workflow, particularly for engineers involved in Signal Integrity. The first of these is a new native interface to Mentor Graphics Expedition™, which uses COM/DCOM to exchange data of entire layouts, areas or nets. The second, an ODB++ interface, enables the access to layouts from a large variety of tools such as Mentor Graphics Board Station®, and Zuken CR5000. To round the interoperability improvements off, users of CST MICROWAVE STUDIO® (CST MWS) can now utilize current distributions from Sigritty® or SimLab as field sources, and export HSPICE models.

#### **Performance Optimization**

Performance optimization has been a key concern for this release. User will benefit from the improved parallelization of transient and frequency domain solvers, and ongoing code optimization projects with

Intel ensure that the latest and upcoming generation of processors and technologies are exploited to the full. Furthermore, dedicated hardware acceleration boards are now available for the transient solver. The direct frequency domain solver on tetrahedral grids has also been focused on, and has experienced vast improvements in memory usage and speed.

### **Usability**

Time saving additions and features will be particularly welcomed and include: project management facilities, structural parts' availability via copy/paste or sub-model imports, and automatic software updates.

### **Integral Equation Solver**

Engineers working on RCS or antenna placement may want to try CST MWS' Integral Equation Solver for electrically large structures. New functionality enables the excitation of fields through waveguide ports or via preloaded farfields, e.g. from transient simulations. Models can now also include lossy metals (skin effect) or impedance sheets.

### **CST DESIGN STUDIO™**

Using CST DESIGN STUDIO™ 2008 (CST DS), layouts can be created from schematic blocks, for use directly in CST MWS. With Signal Integrity engineers in mind, IBIS and Berkeley spice models can now be included in CST DS simulations.

### **Charged Particle Dynamics**

Last but not least, another premiere for those involved in the design of electron guns, travelling wave tubes etc. A new particle-in-cell (PIC) solver is available with CST PARTICLE STUDIO™ 2008 (CST PS). This is capable of the fully consistent simulation of charged particle dynamics in the presence of external and space charge fields.

### **Availability**

CST STUDIO SUITE™ 2008 is now available. Please contact CST or your local distributor for more information and to test the software.

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### **About CST STUDIO SUITE™**

CST STUDIO SUITE™ comprises CST's 3D EM simulation tools: the renowned CST MICROWAVE STUDIO® for high frequency applications, CST EM STUDIO™ for low frequency and statics, and CST PARTICLE STUDIO™, for charged particle dynamics, and is rounded off with CST DESIGN STUDIO™ for synthesis

and circuit simulation. All programs are accessible through the CST DESIGN ENVIRONMENT™ which facilitates multiphysics and co-simulation.

#### About CST MICROWAVE STUDIO®

CST MICROWAVE STUDIO® (CST MWS) is the leading edge tool for the fast and accurate simulation of high frequency (HF) devices such as antennas, filters, couplers, planar and multi-layer structures and SI and EMC effects. CST MWS offers considerable product to market advantages such as shorter development cycles, virtual prototyping before physical trials, and optimization instead of experimentation.

#### About CST

CST is one of the two largest suppliers of electromagnetic simulation software and has continuously enhanced its position as market and technology leader in 3D Time Domain simulation. With over 120 employees worldwide and a network of qualified distributors, 160 people are dedicated to the development and support of its EM products in more than 30 countries.

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