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STAR-CCM+ v8.06 Gets New Users Up and Running Like Pros



CD-adapco's new STAR-CCM+ v8.06 release enhances its user experience, simulation scope and turnaround time.

New York and London. October 23, 2013

CD-adapco, the largest privately held CFD focused CAE provider, announced today the release of STAR-CCM+ v8.06, the third release in 2013 of their flagship simulation tool.

"The fundamental objective of the STAR-CCM+ v8 releases is to significantly improve the overall user experience, to expand the application coverage and to boost turnaround times," says Senior VP of Product Management, Jean-Claude Ercolanelli.

Enhanced User Experience

"A significant challenge for simulation engineers lies in ensuring consistency of processes across large organizations or geographically dispersed teams," says Ercolanelli. "To address this, we are offering the Simulation Assistant, an interactive user interface that allows users to reproduce best practices and deploy them across the whole organization, ensuring repeatability of processes and enforcing consistency of results."

The Simulation Assistant ^[1] is also the perfect tool for introducing new or inexperienced engineers to their simulation process, following a tailored step-by-step approach that guides

the engineer through each of the stages necessary to obtain high quality results.

STAR-CCM+ v8.06 also introduces STAR-SpaceClaim, a new CAD Client and bi-directional and associative connectivity for all CAD clients. This means that parametric design studies are driven by the simulation model while geometry is updated by the CAD package, again ensuring ease-of-use and a single source geometry file.

Expanded Coverage

"Multiphase flows have been perceived as being difficult to simulate because multiphase models are often restricted to a narrow range of applications. Many industrial-type problems fall into the gap between these models," says Ercolanelli. "One of our ongoing development focuses in STAR-CCM+ involves making multiphase flows more accessible to all of our users [2], closing the gaps and allowing you to tackle a wider range of industrial applications."

STAR-CCM+ v8.06 introduces Reynolds Stress Modeling for Eulerian Multiphase, which improves the accuracy of swirling flow and vortex simulations. This new multicomponent boiling model allows components to evaporate individually, aiding in the modeling of refinery and distillation processes. The ability to simulate multiphase models with overset meshes opens up the possibility to address problems such as ice buildup on aircraft wing flaps or spray painting. DEM (Discrete Element Method) particles can now carry an active scalar that can be used to simulate applications such as tablet coating thickness or moisture content for wood chip drying.

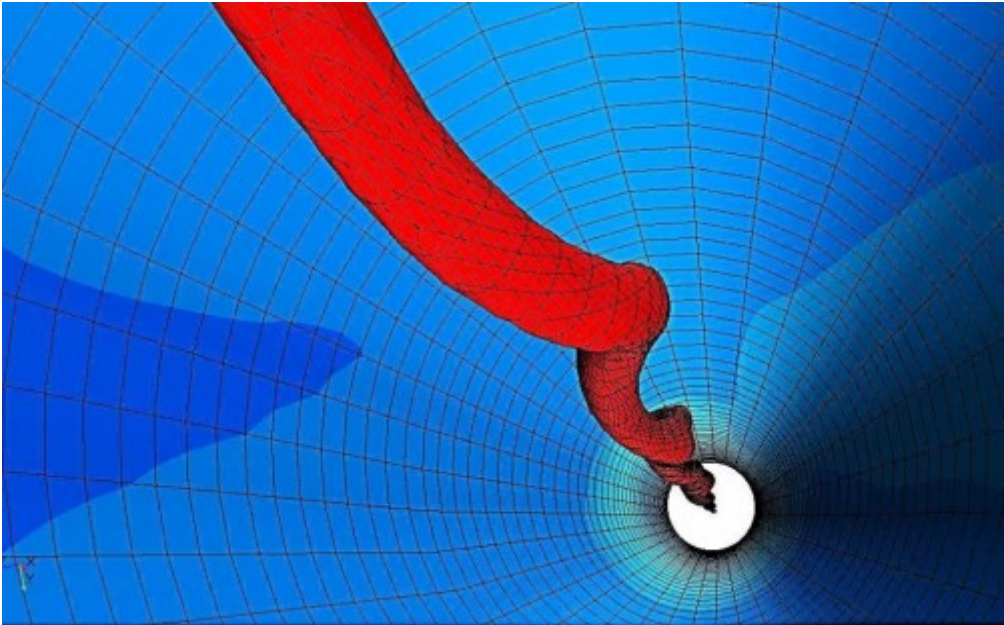
Improved Turnaround Time

"Being able to simulate only part of a problem is not enough," says Ercolanelli. "We are engaged in allowing our users to 'simulate systems' in their full complexity. Part of that commitment includes improving solver performance so that users can simulate phenomena that occur on an industrial scale and in an acceptable amount of time."

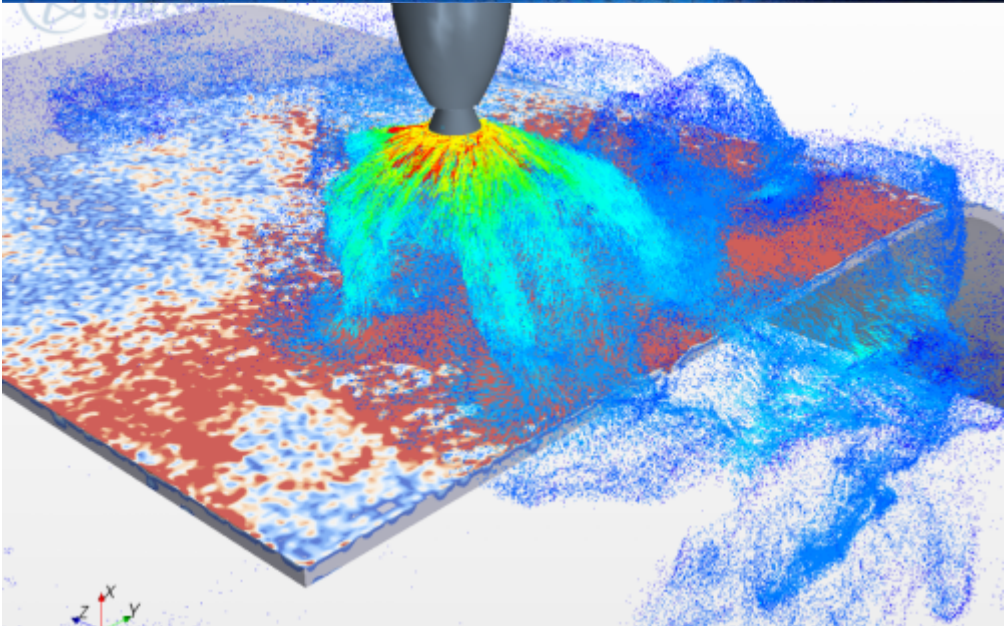
Users of DEM will notice substantial performance improvements in STAR-CCM+ v8.06, with simulations taking as little as 30% of the time taken in previous versions. Central to these improvements have been optimizations to the core DEM algorithms and a new 'skinning' option to avoid repeated contact detection. The introduction of a new parallel trimmer will allow the faster creation of larger meshes, thus increasing overall productivity.

For more information, please visit www.cd-adapco.com [3], or [visit the CD-adapco blog](#) [4].

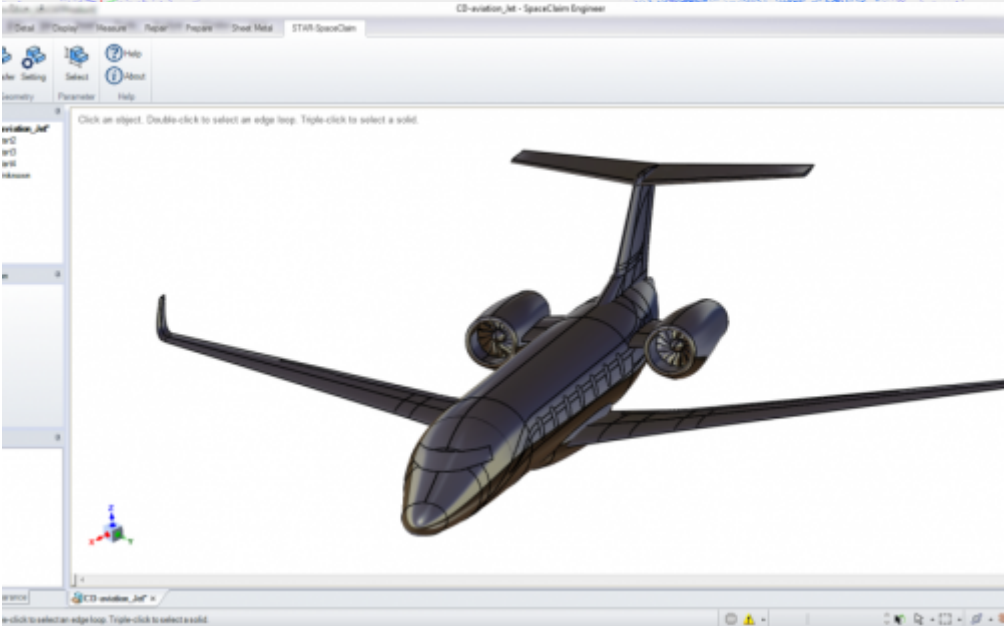
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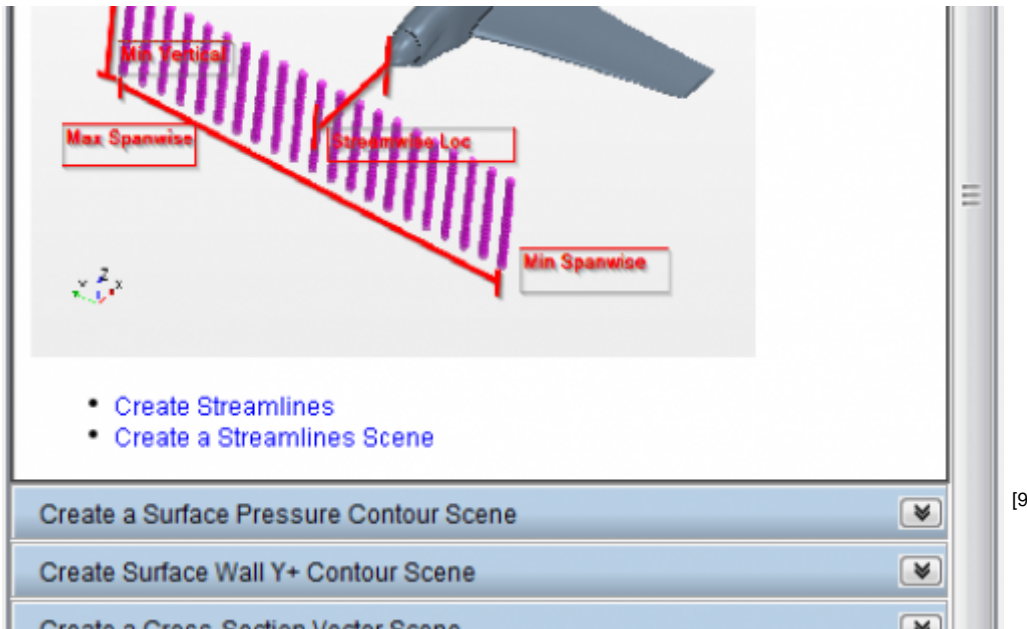
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About CD-adapco

CD-adapco (<http://www.cd-adapco.com> [3]) is the world's largest privately held CFD focused CAE provider. Our core products are the technology-leading simulation packages, STAR-CCM+ and STAR-CD. The scope of our activities, however, extends well beyond CFD software development to encompass a wide range of CAE engineering services in fluid dynamics, heat transfer and structural engineering. Our ongoing mission is to "inspire innovation and reduce costs through the application of engineering simulation software and services."

A privately owned company, CD-adapco has maintained 17% organic year-on-year growth over the last 5 years. CD-adapco employs 750 talented individuals, working at 30 different offices across the globe.

Press Contact

Lauren Gautier, CD-adapco
lauren.gautier@cd-adapco.com [10]
 +1 248-277-4600

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CD-adapco is the world's largest independent CFD focused provider of engineering simulation software, support and services. We have over 30 years of experience in delivering industrial strength engineering simulation.

Source URL: <http://www.cd-adapco.com/pr/star-ccm-v806-gets-new-users-and-running-pros?page=0%2C3&language=en>

Links:

- [1] <http://www.cd-adapco.com/blog/joel-davison/star-ccm-v806-preview-introducing-simulation-assistant>
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