



Pointwise V18 Release

Unstructured Quadrilaterals & Hexahedral Layers Added to Pointwise Meshing Software

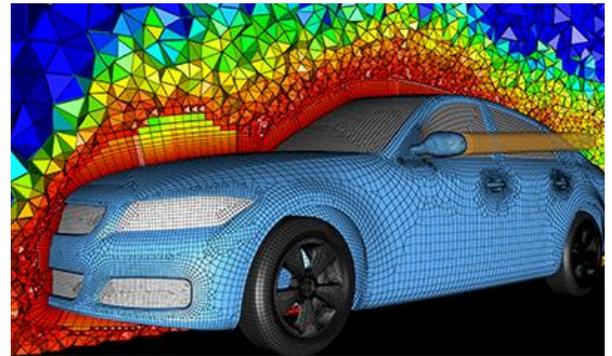
FORT WORTH, TX (06 Sep 2016) – Pointwise announces a major new release of its computational fluid dynamics (CFD) mesh generation software featuring unstructured quadrilateral surface meshing, unstructured hexahedral layer extrusion, and tetrahedral mesh clustering using sources.

“This latest release of Pointwise includes the broadest changes to the software's core meshing functionality since 2007 when we introduced our T-Rex technique for boundary layer resolving hybrid meshes,” said John Chawner, Pointwise's president. “The addition of quad-dominant surface meshing continues our work toward delivering tools that can generate higher quality meshes and do so faster than ever before.”

A new, unstructured, quad-dominant surface meshing technique complements Pointwise's industry-leading structured grid generation methods by providing a faster, more automated method for generating quadrilateral surface meshes. These surface meshes can then be used as the basis for Pointwise's T-Rex (anisotropic tetrahedral extrusion) technique for rapid generation of boundary layer resolving hexahedral layers.

Complementing the near-wall, boundary layer resolution provided by T-Rex, Pointwise V18 now includes geometry-based clustering sources for resolution of off-body flow features such as wakes and vortices.

Pointwise V18 also includes the ability to retain hybrid meshes in their mixed-cell format for mesh metric examination and other tasks, support for faceted geometry



Pointwise V18's new quad-dominant and hexahedral layer techniques were used to generate this hybrid mesh for the DrivAer automotive benchmark case. The off-body mesh is colored by cell volume. A clustering source has been placed behind the side mirror to resolve its wake flowfield.



models with a mix of triangles and quadrilaterals, high resolution monitor support, and user interface improvements that span all aspects of the software's functionality.

[Pointwise, Inc.](#) is solving the top problem facing computational fluid dynamics (CFD) today – reliably generating high-fidelity meshes. The company's Pointwise software generates structured, unstructured and hybrid meshes; interfaces with CFD solvers, such as ANSYS Fluent, STAR-CCM+, ANSYS CFX, OpenFOAM, and SU2 as well as many neutral formats, such as CGNS; runs on Windows (Intel and AMD), Linux (Intel and AMD), and Mac, and has a scripting language, Glyph, that can automate CFD meshing. Large manufacturing firms and research organizations worldwide rely on Pointwise as their complete CFD preprocessing solution.

More information about Pointwise is available at www.pointwise.com.

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