

VizMesh

STATE-OF-THE-ART GEOMETRY AND MESH GENERATION

Features

VizMesh is a state-of-the-art two-dimensional (2D) geometry and mesh generator software. Features of VizMesh include:

- Complex two-dimensional CAD geometry representation
- Specification of multiple subdomains and ability to mesh each subdomain independently
- Specification of tri-mesh, pure quad mesh, and quad-dominant meshes
- Multi-resolution meshes to ensure high-fidelity results without compromising computational performance
- State-of-the-art mesh generation, using sophisticated meshing algorithms to generate unstructured hybrid computational grids

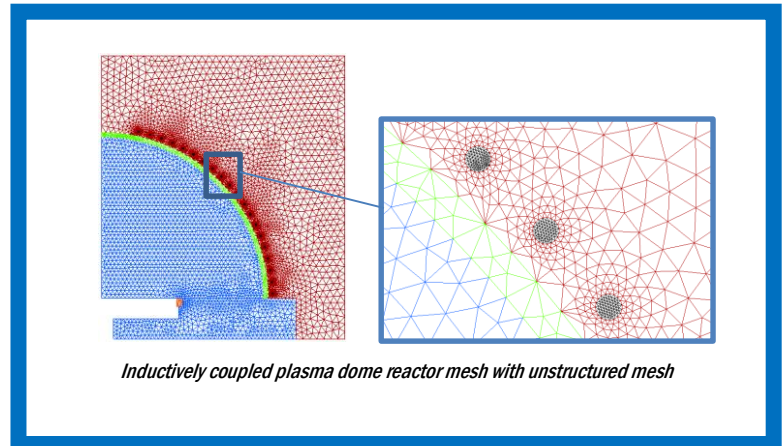
Applications

VizMesh is currently being used to generate multi-resolution, state-of-the-art computational grids with all our simulation tools.

Industries served

The following industry segments are served by VizMesh:

- Semiconductor Equipment Makers
- Semiconductor IC Manufacturers
- Solar Cell Manufacturers
- Flat Panel Display Manufacturers
- Automotive Industry (e.g. next generation spark ignition)
- Aerospace Industry (e.g. flow control, space thrusters)
- Electrical Device Manufacturers (e.g. circuit breakers)



SOLUTIONS FOR YOUR MULTI-PHYSICS SIMULATION NEEDS

VizMesh is one of several simulation packages that are part of the OverViz multiphysics simulation suite. List of simulation packages in OverViz include:

- **VizGlow** Non-equilibrium Plasma simulator
- **VizSpark** Thermal (arc) Plasma simulator
- **VizEM** Electromagnetics simulator
- **VizFlow** Fluid flow simulator
- **VizGrain** Particle simulator
- **VizMesh** Geometry and unstructured meshing
- **ChemZone** Zero-dimensional reactor simulator

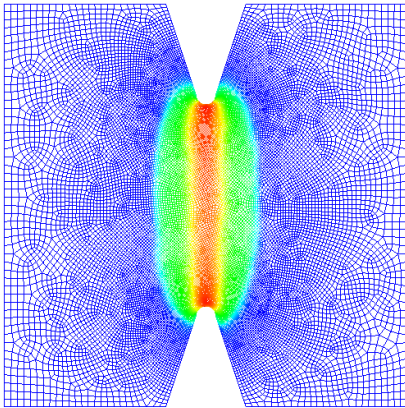
We also provide the following services:

- Modeling and simulation services: work with customers to define problem and setup model
- Calibration of models for customer-specific problems
- Training and support to clients using software tools

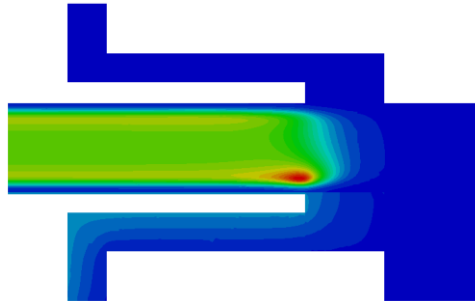
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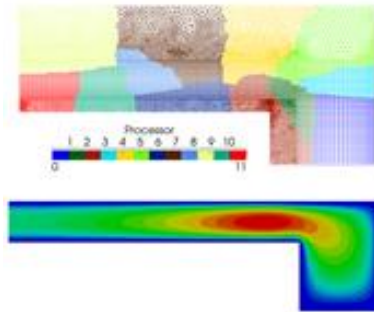
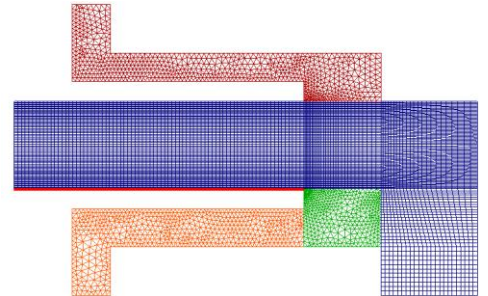
VizMesh generated meshes for different applications



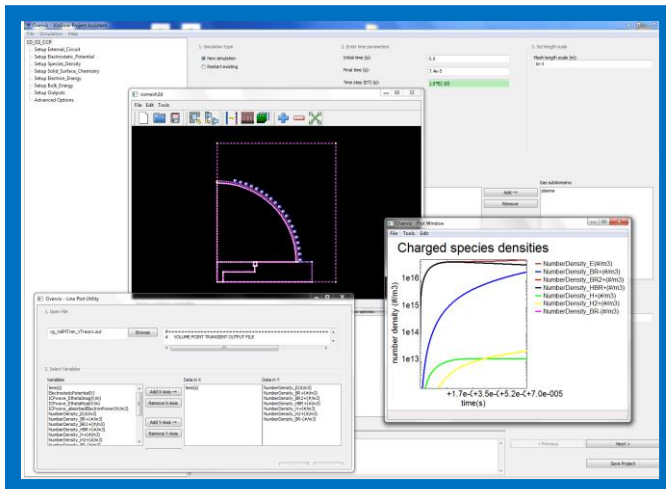
HID lamp unstructured mesh with single geometric feature



Capacitively Coupled plasma example with hybrid mesh with multiple geometric entities



VizMesh generated mesh used in parallel computing simulation of capacitively coupled plasma



VizMesh is supported by an intuitive Graphical User Interface

For more information, please contact us:



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