



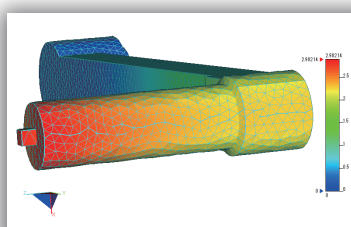
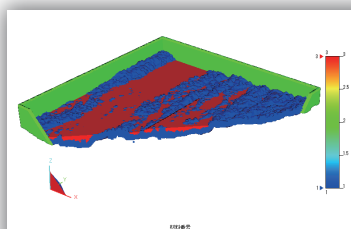
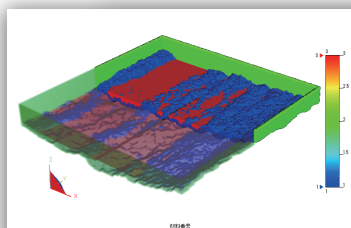
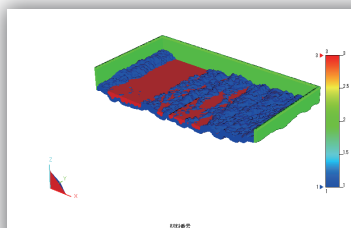
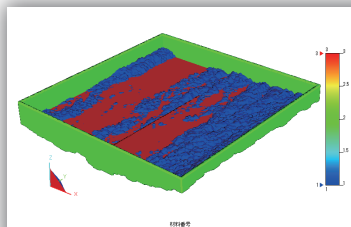
Meshman_ParticleViewer_HPC

Ver.3.1

"Achieved 150million particles!"

Product Features

- High Performance rendering of large scale models for particle method and FEM
- For particles: Achieved **150** million of particles max
- For FEM : Achieved **120** million of degree of freedom max
- Customizable format
- Operation with intuitive interface
- User interface allowed for large scale models



Functions

■ Particle method

- ▶ Input file can be displayed for solvers of 3D generic particle method.
 - Customizable format by adopting a format description file.
 - Coordinates and boundary condition for each particle can be displayed.
- ▶ Output results for generic 3D particle method solver can be displayed with color contour.
 - Light-weight display is available by automatic extraction of surface particles.
 - Particles can be displayed by 3D with shading.
 - Sections and slices by an arbitrary plane can be displayed.
 - Translucent display is available at sectional display.
 - Customizable format by adopting a format description file.
 - By using cache file, loading will be accelerated for the second time and after.
 - A variable value of each particle can be displayed by picking.
 - Center position for rotation can be changeable
 - Can select to hide or make translucent some part of a model by material ID or other user-designated properties.
- ▶ Animation of results from generic 3D particle method solver
 - View point and a variable can be specified.
 - Customizable animation is available by adopting a configuration file.
- ▶ Time history data as CSV for any particle from the result of generic 3D particle method solver.

■ FEM

- ▶ Display of tetrahedral/ hexahedral mesh
- ▶ Sectional display of mesh on an arbitrary plane
- ▶ Contour display/ Vector display
- ▶ Extraction of variable values along with a given straight line

■ Mixed display of any combination of particles and FEM of supported formats

Data Formats

■ Display formats

- STL (CAD)
- pch (Surface patch of ADVENTURE)
- par (Insight original Particles)
- msh (3D solid mesh of ADVENTURE)
- dat (Customizable particle model)
- dau (Customizable particle results)
- lst (ADVENTURE on Windows, FEM result)

Operating Environment

Windows Vista, Windows 7, Windows 8

※ 32bit / 64bit for each OS (64bit recommended)

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Software
development
with JAVA

inSight