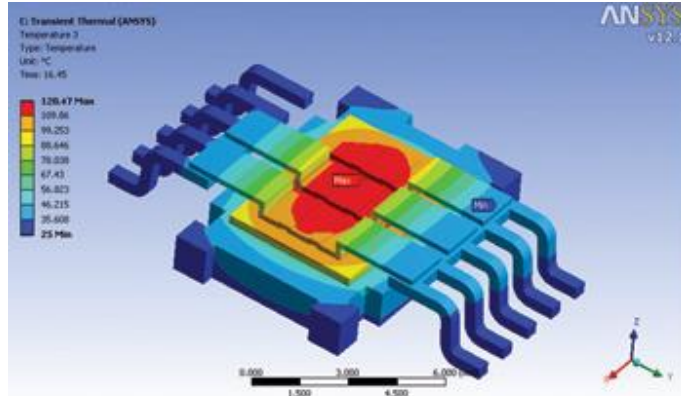


ANSYS 15

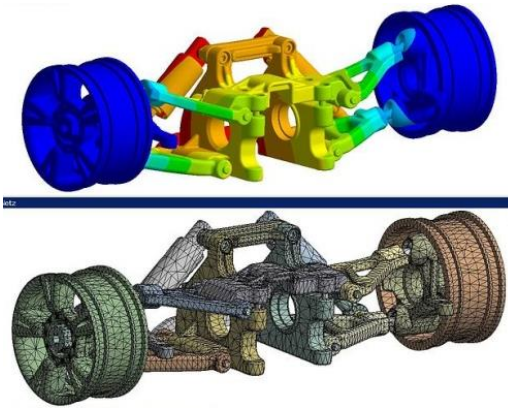
● Pre-Processing

- Ⓜ Introduction to FEA
- Ⓜ Starting ANSYS Workbench
- Ⓜ Exploring the GUI
- Ⓜ Graphics & Picking
- Ⓜ The Database and Files
- Ⓜ 2D Modeling,
- Ⓜ Solid Modeling ,
- Ⓜ How to Import Geometry
- Ⓜ Material Properties
- Ⓜ Real Constants
- Ⓜ Multiple Load Cases
- Ⓜ Meshing - Multiple Element Attributes, Controlling Mesh Density
- Ⓜ Mapped Meshing, Hex-to-Tetra Meshing, Mesh Extrusion & Sweep Meshing
- Ⓜ Loads and Boundary conditions



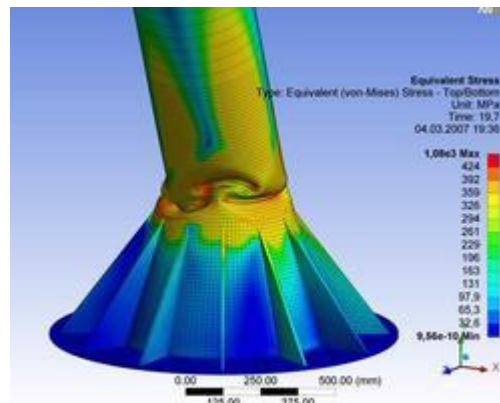
● Post-Processing

- Ⓜ Introduction to Solvers
- Ⓜ Read, Write and Plot the Results
- Ⓜ Report Generation
- Ⓜ Animating Result
- Ⓜ File Handling
- Ⓜ Exporting Results to other Post-Processor



● Types of Analysis

- Ⓜ Structural Linear Static, Transient
- Ⓜ Structural Non Linear = Time, Material, Contact and Geometric
- Ⓜ Beam Modeling, Beam Meshing, Beam Properties & Loading
- Ⓜ Symmetric boundary conditions
- Ⓜ Buckling Analysis
- Ⓜ Modal Analysis Procedure
- Ⓜ Harmonic Response Analysis
- Ⓜ Vibration
- Ⓜ Thermal Analysis – Steady State & Transient
- Ⓜ Conduction, convection.
- Ⓜ Structural Thermal Analysis (Couple Field).
- Ⓜ Goal Driven Optimization



Application / Users

- L&T
- Whirlpool
- Crompton
- Areva
- ISRO
- BARC
- NRB Bearings
- John Deer