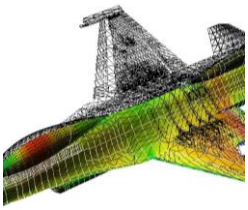
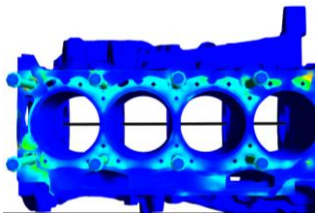
CMSoft, Inc.





AERO-S: Structural/Thermal Analysis Capabilities Chart Release 2.0

Analysis Types
Static
Eigen
Frequency Response
Frequeny Sweep
Modal Dynamic
Explicit Transient Dynamic
Implicit Transient Dynamic
Multi-Physics
Sloshing
Hydroelastic
Flexible (Aeroelastic) Trimming via Coupling with **AERO-F**
Flexible (Aeroelastic) Maneuvering via Coupling with **AERO-F**
Fluid-Structure (Aeroelastic) via Coupling with **AERO-F**
Fluid-Structure-Control (Aeroservoelastic) via Coupling with **AERO-F**
Fluid-Thermal (Conjugate Heat Transfer, Aerothermal) via Coupling with **AERO-F**
Fluid-Thermal-Structure (Conjugate Heat Transfer, Aerothermoelastic) via Coupling with **AERO-F** and Itself
Thermal-Structure (Thermoelastic) via Coupling with Itself
Material Laws
Infinitesimal and Finite Strain Linear Elasticity, Nonlinear Elasticity, Hyperelasticity, and Hypoelasticity
Infinitesimal and Finite Strain Plasticity
Infinitesimal and Finite Strain Elasto-Plasticity
Infinitesimal and Finite Strain Visco-Elasticity
Elements
Extensive Library of Spring, Joint, Bar, Beam, Free-Play, Plate, Shell, Solid, Rigid and Flexible Elements
Composites Elements
Higher-Order Elements
Nonlinearities
Geometric
Buckling
Contact
Material Failure
Crack Propagation
Stefan-Blotzmann
Equation Solvers
Direct
Iterative
Scalable Domain-Decomposition-Based Iterative
Features
Sensors and Actuators
Control Surfaces Deflection and Piloting
Customizable User Functions (including Control Laws)
Projection-Based Model Order Reduction
Linear
Nonlinear
Parallel Processing
Shared Memory
Distributed Memory
Hybrid
Threads
OpenMP
MPI
MPI-OpenMP