

# Abaqus/CFD 6.10

## Analysis Types

- Incompressible fluid dynamics
- Transient
- Steady state using time marching
- Fluid heat transfer
- Buoyancy driven natural convection
- Laminar and turbulent flows

## Analysis and Modeling Techniques

- Algebraic multi-grid (AMG) pre-conditioned Krylov solvers
- Parallel processing
- Restart
- Arbitrary Eulerian-Lagrangian method

## Turbulence Models

- Spalart-Allmaras
- ILES

## Material Definitions

- Newtonian viscosity
- Specific heat
- Conductivity
- Density

## Element Library

- 3-D hex
- 3-D tet

## Prescribed Conditions

- Inlet/outlet conditions
- Wall conditions
- Infiltration
- Moving boundary

## Interactions

- Fluid-structure interaction co-simulation
- Conjugate heat transfer interaction co-simulation

## Input

- Set concept
- Parts and assemblies
- Keyword input file

## Output

- Interactive graphical postprocessing
- Platform-neutral output database
- Diagnostic messages

## Supported Platforms

- Windows/x86-32
- Windows/x86-64
- Linux/x86-64
- AIX/Power

## Documentation

- Analysis User's Manual
- Example Problems Manual

## Product Support

- Maintenance and support
- Quality Monitoring Service
- Installation
- Training and User's Meetings

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