

R-017 & Ansys

- Flow solver: Fluent Coupled DBNS
- Spatial discretization: 2nd order upwind Roe FDS
- Time integration or iteration method: Implicit Euler, local time-stepping derivative preconditioning
- Name of committee grids (or “self-prepared”): ICEMCFD (case 1), ANSA (case 2)
- Cases submitted: Case1, Case2.1, Case2.2, Case2.3, Case2.4
- Initialization method: FMG Full multi grid initialization (cold start)
- Turbulence model: SA
- Convergence/stopping criteria: 2e-5 for CL and CD and 1e-5 for Residuals
- Relevant publications related to solver and/or high-lift applications:
 - Weiss, J., Smith, W. (1995). Preconditioning Applied to Variable and Constant Density Flows, AIAA Journal, Volume 33, Number 11
 - Weiss, J., Maruszewski, J., Smith, W. (1999). Implicit Solution of Preconditioned Navier-Stokes Equations Using Algebraic Multigrid, AIAA Journal, Volume 37, Number 1.

Optional: images can be added on the right if it helps to describe the method (but do not show CFD results)

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