

Project Timeline

Two-dimensional Euler prototyping
(Completed)

AIAA CFD & Joint Propulsion
Conferences Summer 2011

Multi-stream, three-dimensionally
capable, Euler code

AIAA Journal Jun 2012 – Compressible flow applications:
Supersonic inlet design & supersonic injection

Constrained grid motion

AIAA Journal Aug 2012 –
Attached boundary-layer flows
with verification & validation

Variable geometry

Implementation of
boundary-layer code

AIAA Hypersonics Conference Oct 2012
Normal & oblique shock trains in
inlet & isolator flows

Navier-Stokes patches

AIAA Aerospace Sciences Jan 2013
and AIAA Journal Mar 2013 –
Complete hypersonic vehicle cold flow

Space-marching steady Euler solver