DOD HPC MODERNIZATION PROGRAM

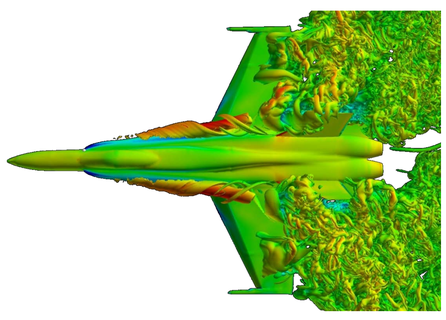
CREATE™ – AV

Quality Assurance

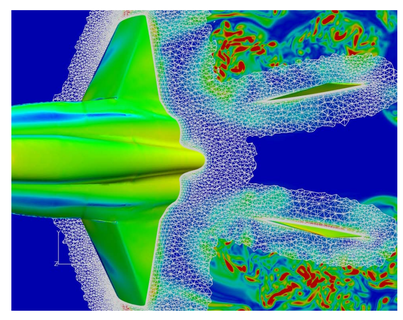
The Mission of the Quality Assurance (QA) Group is to ensure software quality (i.e., usability, robustness, accuracy, and computational efficiency), deploy software products, and provide training and customer support.

Independent Testing

QA Group tests all new product capabilities prior to external release.



HARV High AoA

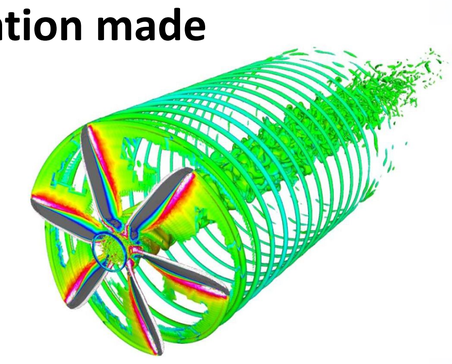


a) vortex bursting b) close-up (horizontal cut)

Engineering Support

QA Group provides direct engineering support to Stakeholder organizations and interfaces with product developers to resolve issues.

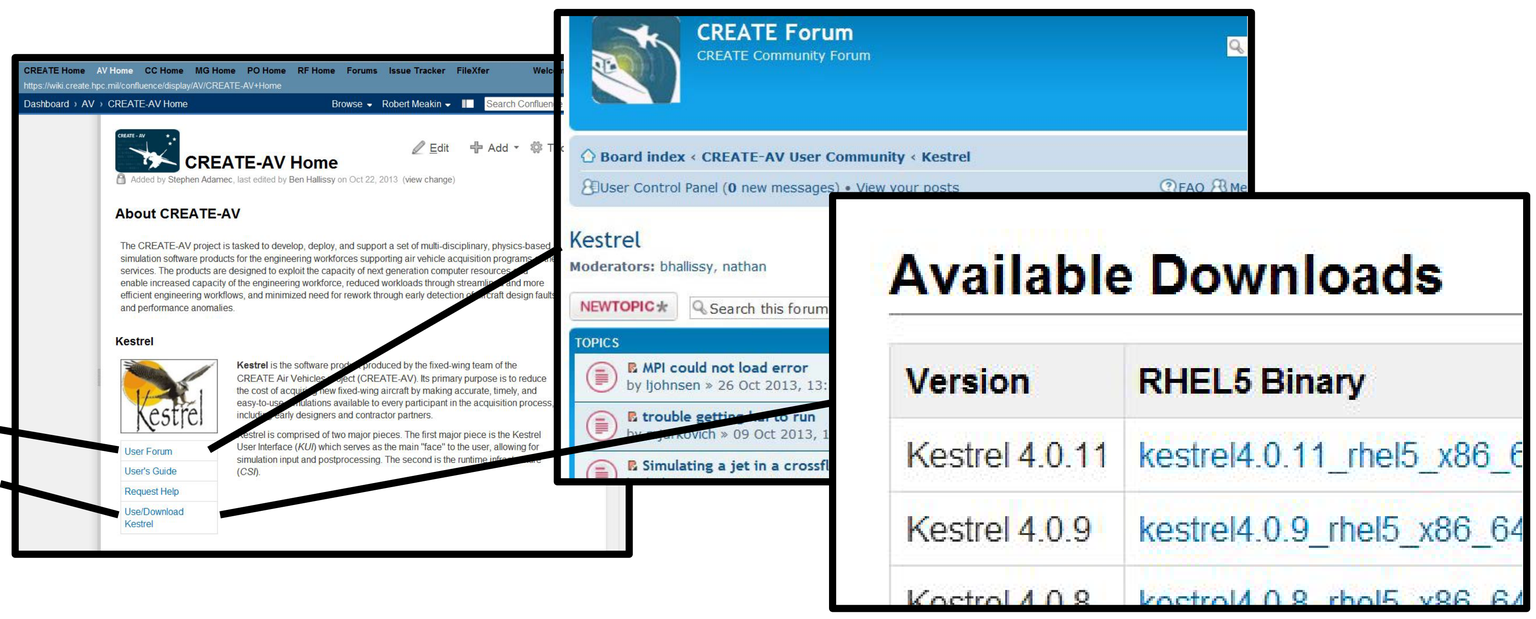
Example: Helios user couldn't get code to work for a novel main rotor/pusher-prop case. Proprietary nature of application made support a challenge. 2 key lessons learned…



1. QA used idealized geometry to identify issue, diagnose problem (input error), develop and test remedial action.
2. Quick Turn-around solved problem, user gained better understanding of code, and Helios developers did not have to spend time looking for a bug that did not exist.

On-line Services

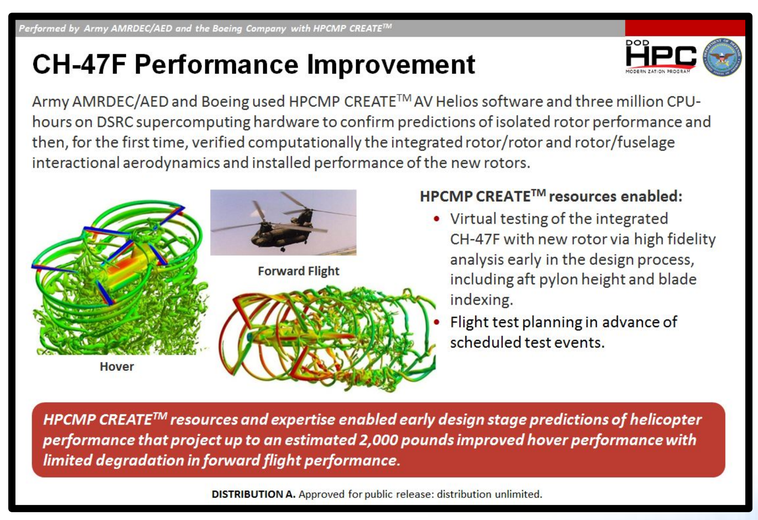
- User's Guides
- Product Tutorials
- Quick Start Guides
- Training Videos
- User Forum
- Software downloads



STAR Projects (Strategic TARgeting)

QA Group partners with Defense Industry orgs that can benefit from HPC and physics-based simulation.

- Learn workflows of targeted organization
- Demonstrate advantages
- Develop local expertise
- Obtain validation data



Need help? go to http://create.hpc.mil