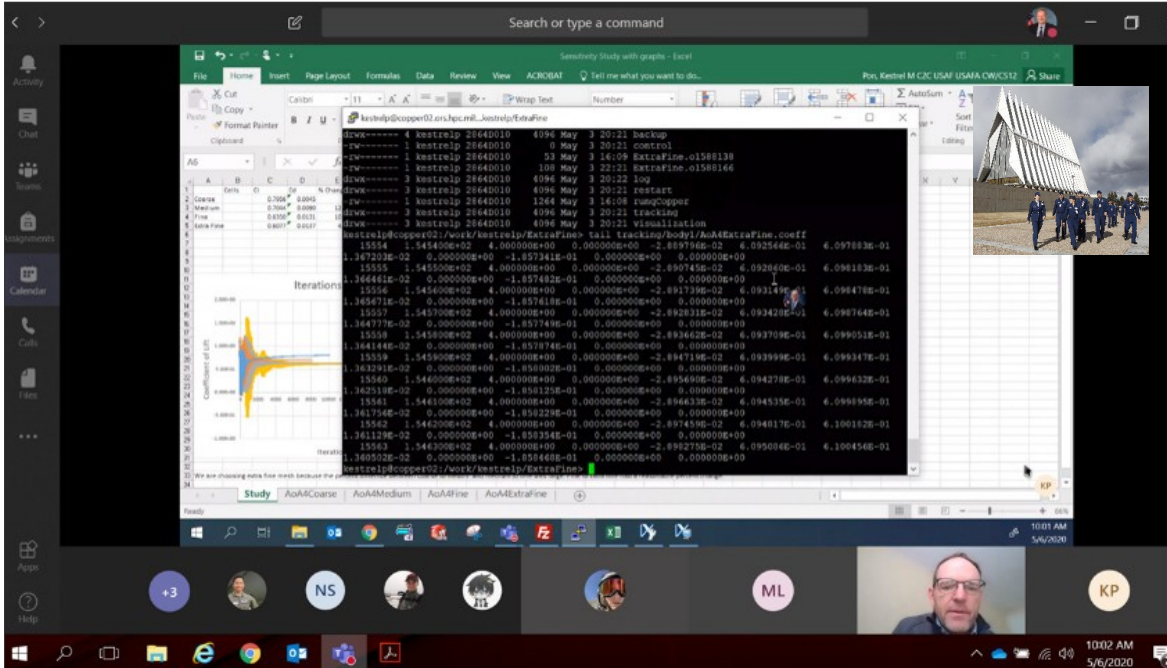


# HPCMP CREATE™ GENESIS SUPPORTS USAFA CADETS DURING COVID-19 QUARANTINE

Success Story - Air Force

Attribution: US Air Force Academy



Snapshot of a remote teaching session with Dr. Jurgen Seidel as he had a Cadet open their Genesis user interface

## PROBLEM

Due to the COVID-19 pandemic, the US Air Force Academy, like most universities, is teaching their classes remotely right now. One of the courses being taught is AE342, the CFD (Computational Fluid Dynamics) course where the Cadets learn to use the HPCMP CREATE™ Genesis software suite and high-performance computers.

Distribution A: Approved for Public release; distribution is unlimited.

## SOLUTION

The HPCMP CREATE Genesis software suite delivers powerful capabilities for educational purposes. Using Genesis, 67 Cadets in the CFD course ran jobs at 100% with faculty interaction being limited to one class period every other day (via Microsoft TEAMS), while electronically contacting instructors for help as needed.

## IMPACT

Cadets have submitted and run the majority of their jobs for their final project in AE342. This means Cadets were able to do the following without any physical contact:

- Obtain their own HPCMP Defense Supercomputing Resource Center (DSRC) accounts,
- Download software needed to access HPC systems,
- Transfer files, create meshes, submit jobs, and download results.

All of this has happened with limited difficulty.