

TotalCAE Case Study

Company Overview

This global developer and provider of high-quality fluid system solutions was looking to utilize SIMULIA Isight to combine multiple cross-disciplinary models and applications together in a simulation process flow for Abaqus and STAR-CCM+.

Challenges

The customer data center and engineering workstations were separated by a slow data center pipe. Long transfer times were making it difficult to quickly perform simulations. There was a desire to run many Isight runs to get faster turnaround on designs.

Using the customer's previous system, their workflow could take a week. There was a significant amount of time setting up simulations, transferring large result files back and forth, time that could have been spent working on other designs and solutions.

Solution

TotalCAE implemented a complete turnkey Linux HPC compute cluster optimized for STAR-CCM+ and Abaqus, driven by SIMULIA Isight. TotalCAE implemented a remote visualization solution as part of the HPC cluster to eliminate the time wasted transferring models back and forth.

Results

The customer was able to achieve a much faster turnaround on designs through both Isight automation with the cluster, and remote visualization workflow.