TotalCAE
Private Cloud
Case Study

**Q**TotalCAE

#### **BENEFITS**

- Your engineering application portfolio is managed and optimized for you on the TotalCAE cluster appliance.
- Worry free and cost effective HPC access with TotalCAE Private Cloud.
- Simple and easy to use
   TotalCAE web portal to
   simplify access to HPC
   resources with over forty
   applications pre-integrated.
- One throat to choke for the entire solution.
- Access to TotalCAE Public cloud for burst capability.

### **Company Overview**

Owens–Illinois Inc. is a Fortune 500 company that specializes in container glass products. It is one of the world's leading manufacturers of packaging products, holding the position of largest manufacturer of glass containers in the world.

# O-I Challenges

A High Performance Computing (HPC) solution was needed to enable faster time to solution for ANSYS Fluent, and to better utilize ANSYS HPC Packs.

Experienced CAE IT professionals in HPC were needed to quickly deliver the performance and availability required for the simulation environment. The HPC system is a critical tool for the engineering department and needed to be highly available with responsive daily support for the engineers with tight deadlines.

#### Solution

The TotalCAE Private Cloud solution was implemented to achieve the desired goals. TotalCAE Private Cloud is a turn-key fully managed HPC cluster that TotalCAE manages in the customers data center.

"TotalCAE has been a great CAE IT partner that has helped our engineers be more productive through effective management of ourHPC cluster and engineering applications"

- Larry Zhu, O-I CAE Manager

TotalCAE is the single point of responsibility for delivering a highly available, high performance CAE simulation platform for O-I engineers 24 hours a day, seven days a week. TotalCAE owns all issues with the Private Cloud appliance with "one throat to choke" for the engineering applications, license servers, batch systems, Linux operating system, cluster hardware, storage, MPI middleware, InfiniBand and any other part of the system required for engineers to get their work done.

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O-I Engineers call, email, and chat with TotalCAE professionals with questions to ensure they don't get bogged down with IT related issues.

The TotalCAE portal is utilized for simple job submission to the HPC Linux cluster with just a couple clicks, enabling engineers to focus on their engineering and not worry about Linux skills or complicated command lines. Results shows up on the engineers desktop automatically and an email is sent when the appliance has finished calculating their results.

# Results

O-I was able to achieve **100% simulation capability uptime**, **faster turnaround on jobs**, **and improved utilization of software and hardware assets** through the use of TotalCAF Private Cloud.

Have questions or want to learn more about private and public cloud solutions for CAE? Check out our learning resources at <a href="http://www.totalcae.com/learn">http://www.totalcae.com/learn</a> or contact our sales department at <a href="mailto:sales@totalcae.com">sales@totalcae.com</a>.



24 Frank Lloyd Wright Dr. Ann Arbor, MI 48105 1-888-268-3930