HPC Starter Kit for ANSYS Environments
Turn-key, fully managed HPC clusters for CAE

Computer-aided engineering (CAE) analysts often push the limits of their desktop systems, constraining the size of their models and limiting the number of simulations. Scaling to high-performance computing (HPC) removes these limits, but can add complexity. HPC starter kits help eliminate these issues and make HPC easy and affordable.

Scale ANSYS workloads with easy desktop access to an onsite HPC cluster

TotalCAE, working with HPE and ANSYS, is offering a simple solution for engineers who use computer-aided engineering (CAE) and want to scale beyond workstations. HPE’s Apollo 2000 System’s dense compute cluster solutions can scale from 32 compute nodes and up and be easily customized to specific workload needs. The solution is delivered pre-configured, with applications installed, and integrated into your network to provide easy desktop access for engineers and CAE analysts. The system is remotely managed, with updates installed and user support included. There is no need for your IT staff to manage the resources and learn all the HPC tools—although training is available if you wish to develop onsite expertise.

Benefits
- Validated, optimized platform: Deploy quickly with a solution built for ANSYS HPC workloads and based on HPE’s Apollo Systems purpose for high performance computing (HPC) and the TotalCAE software suite.
- Peace of mind: This integrated system is fully managed in your data center by TotalCAE HPC FEA and CFD IT experts.
- Flexibility and scalability: The system components support a range of ANSYS applications and workloads, which can be adapted and expanded to meet changing requirements.
Resources
Contact TotalCAE for more information to get started with an HPE HPC Starter Kit for ANSYS.

Contacts
Contact sales@totalcae.com for more information or to get started with an HPE HPC Starter Kit for ANSYS.

TotalCAE:
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(888) 268 3930 x104

What’s included
- **Integrated HPE HPC cluster**—1 head node, up to 3 compute nodes featuring Intel® Xeon® E5-2600v3 series processor with choice of 4-18 Cores, 1.6GHz - 3.5GHz CPU speed and high-performance InfiniBand networking, plus a cluster software environment with job scheduler and resource management.

- **On-site install and start-up services**—the cluster is integrated into your work environment, including installation of ANSYS application, ANSYS RSM, TotalCAE Portal, TotalCAE TAF, HPC scheduler, and TotalCAE tools.

- **Remote management of cluster**—this includes proactive monitoring and automatic remediation of issues detected in HPC system. ANSYS application and license server installation and update, and the TotalCAE web portal and scheduler. Also included is 24x7x365 complete management with a dedicated TotalCAE IT department included to manage the complete appliance for you.

### Table 1: Recommended components

| ANSYS CF D(Fluid/CFX)-optimized compute nodes | Head node: HPE ProLiant XL170r Gen9  
Compute node: HPE ProLiant XL170r Gen9 |
|------------------------------------------------|----------------------------------------|
| Optional ANSYS Mechanical-optimized compute nodes | Head node: HPE ProLiant XL170r Gen9  
Compute node: HPE ProLiant XL170r Gen9 |
| High-performance interconnect | Mellanox FDR InfiniBand |
| Admin and out-of-band networking | HPE Gigabit Switch 2920al |
| Chassis infrastructure | One Apollo 2000 chassis |
| Software environment | Fully installed and managed by TotalCAE:  
Full ANSYS Suite of applications  
O/S: RHEL or HPC Server 2012 R2  
TotalCAE Portal, TotalCAE job scheduler, and license reporting all pre-integrated |
| On-site installation and start-up training | Delivery, installation and on-site testing by TotalCAE; Training on usage of the system |
| Remote management and support | 24x7x365 complete management and support for all included hardware and software provided by TotalCAE |
| Financing | Lease or buy |

*ANSYS license and support are purchased directly from ANSYS.

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