CoresOnDemand.com Launches as Dedicated ANSYS Simulation High Performance Cloud Compute Resource

PADT launches CoresOnDemand.com, a dedicated resource for users who need to run ANSYS simulation software in the cloud on optimized high performance computers.

TEMPE, Ariz. - April 29, 2015 - *PRLog* -- Tempe, AZ – April 28, 2015 – Phoenix Analysis & Design Technologies, Inc. (PADT (http://www.padtinc.com/)), the Southwest's largest provider of simulation, product development, and 3D Printing services and products, is pleased to announce the launch of a new dedicated high performance compute resource for users of ANSYS simulation software – *CoresOnDemand.com*. The team at PADT used their own experience, and the experience of their customers, to develop this unique cloud-based solution that delivers exceptional performance and a superior user experience. Unlike most cloud solutions, *CoresOnDemand.com* does not use virtual machines, nor do users share compute nodes. With *CoresOnDemand.com* users reserve one or more nodes for a set amount of time, giving them exclusive access to the hardware, while allowing them to work interactively and to set up the environment the way they want it.

The cluster behind *CoresOnDemand.com* is built by PADT's IT experts using their own CUBE Simulation Computers (http://www.padtinc.com/cube), systems that are optimized for solving numerical simulation problems quickly and efficiently. This advantage is coupled with support from PADT's experienced team, recognized technical experts in all things ANSYS. As a certified ANSYS channel partner, PADT understands the product and licensing needs of users, a significant advantage over most cloud HPC solutions.

"We kept getting calls from people asking if they could rent time on our in-house cluster. So we took a look at what was out there and talked to users about their experiences with trying to do high-end simulation in the cloud," commented Eric Miller, Co-Owner of PADT. "What we found was that almost everyone was disappointed with the pay-per-cpu-second model, with the lack of product understanding on the part of the providers, and mediocre performance. They also complained about having to bring large files back to their desktops to post-process. We designed *CoresOnDemand.com* to solve those problems."

In addition to exclusive nodes, great hardware, and ANSYS expertise, *CoresOnDemand.com* adds another

advantage by leveraging NICE Desktop Cloud Visualization (https://www.nice-software.com/products/dcv) to allow users to have true interactive connections to the cluster with real-time 3D graphics. This avoids the need to download huge files or running blind in batch mode to review results. And as you would expect, the network connection and file transfer protocols available are industry standards and encrypted.

The initial cluster is configured with Intel and AMD-based CUBE Simulation nodes, connected through a high-speed Infiniband interconnect. Each compute node has enough RAM and disk space to handle the most challenging FEA or CFD solves. All ANSYS solvers and prep/post tools are available for use including: ANSYS Mechanical, ANSYS Mechanical APDL, ANSYS FLUENT, ANSYS CFX, ANSYS HFSS, ANSYS MAXWELL, ANSYS LS-DYNA, ANSYS AUTODYN, ICEM CFD, and much more. Users can serve their own licenses to *CoresOnDemand.com* or obtain a short-term lease, and PADT's experts are on hand to help design the most effective licensing solution.

Pre-launch testing by PADT's customers has shown that this model for remote on-demand solving works well. Users were able to log in, configure their environment from their desktop at work or home, mesh, solve, and review results as if they had the same horsepower sitting right next to their desk.

To learn more about the *CoresOnDemand:* visit http://www.coresondemand.com, email cod@padtinc.com, or contact PADT at 480.813.4884.

About Phoenix Analysis and Design Technologies

Phoenix Analysis and Design Technologies, Inc. (PADT) is an engineering product and services company that focuses on helping customers who develop physical products by providing Numerical Simulation, Product Development, and Rapid Prototyping solutions. PADT's worldwide reputation for technical excellence and experienced staff is based on its proven record of building long term win-win partnerships with vendors and customers. Since its establishment in 1994, companies have relied on PADT because "We Make Innovation Work. " With over 75 employees, PADT services customers from its headquarters at the Arizona State University Research Park in Tempe, Arizona, and from offices in Littleton, Colorado, Albuquerque, New Mexico, and Murray, Utah, as well as through staff members located around the country. More information on PADT can be found at http://www.PADTINC.com.

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