

**DoIT has finished the installation  
and implementation of**  
**High-performance**  
**Computing Cluster (HPCC) and the**  
**UAEU HPCC**  
**will be operational starting**



High-Performance Computing is aggregated computing power, using parallel processing to deliver much higher performance than one typical desktop computer or workstation. It is used for running advanced application programs efficiently, reliably and quickly to solve big data problems in science, engineering, or business.

What is HPC used for? HPC has the capacity to handle and analyze massive amounts of data at high speed. Tasks that can take months using normal computers can be done in days or even minutes. It can be used to model and solve highly complex problems across a range of high-value sectors. The most common users of HPC systems are scientific researchers, engineers and academic institutions.

**Current UAEU HPC  
specifications?**

- » **Speed: 45 Teraflops peak theoretical performance**
- » **Main Components: Processors Intel Xeon E5 V4, 2 CPU sockets per node, 18 cores per CPU, 2.3 GHz frequency 34 Nodes (1224 Processors cores) 256 GB Per node (over 8.7 TB Memory).**
- » **Network: 10 Gbs Network Connection 40 Gbs Interconnect Network.**
- » **Storage: 50 TB Usable capacities.**

Who can use UAEU HPCC? UAEU HPC serves the whole research community at UAEU