

THE BLUEWAVE



A part of the Bluewave cluster at The Center for Hybrid Multicore Productivity Research.

The Bluewave Cluster

Originally known as iDataPlex, now called BlueWave, was competitively awarded by NASA under the Congressional Stevenson- Wyndler Surplus System Act and came to CHMPR at UMBC in late 2013. Bluewave currently consists of 252 active nodes out of the 336 nodes which includes management nodes, storage nodes, and SLURM client compute nodes. Most the nodes are running a Linux image based CentOS which is loaded into RAM over the network at boot. Each of these nodes has 2 quad core Intel Xeon X5560 processors and 24GB RAM. Additionally, each of these compute nodes currently contain 250GB of local storage, with a plan to be upgraded to 3TB. Bluewave is used both for research done by graduate students as well as undergraduate students projects for high performance computing.

Node SPECS

250GB of local storage

24GB RAM

Intel Xeon X5560 16 processors

2 quad core

Nehalem Architecture

InfiniBand Support

SLURM and HADOOP nodes.