**CUNY High Performance Computing Center**

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## HPC SYSTEMS

The HPCC operates six computer systems as described below:

"SALK" is a Cray XE6m with a total of 1024 processor cores. Salk is reserved for large parallel jobs, particularly those requiring more than 64 cores.  Emphasis is on applications in the environmental sciences and astrophysics.  Salk is named in honor of  Dr. Jonas Salk, the developer of the first polio vaccine, and a City College alumnus.

"Penzias" is a cluster with 1,152 Intel Sandy Bridge cores each with 4 Gbytes of memory. It is divided into 2 virtual nodes, one with 12 cores and no GPUs and one with 4 cores and 2 GPUs.  It is used for applications requiring up to 128 cores.  It also support 136 NVIDIA Kepler K20 accelerators.  Penzias is named in honor of Dr. Arno Penzias, a Nobel Laureate in Physics, and a City College alumnus.

"ANDY" is an SGI cluster with 744 processor cores and 96 NVIDIA Fermi processor accelerators.  Andy is for jobs using 64 cores or fewer, for jobs using the NVIDIA Fermi's, and for Gaussian jobs. Andy is named in honor of Dr. Andrew S. Grove, a City College alumnus and one of the founders of the Intel Corporation.

"BOB" is a Dell cluster with 232 processor cores.  Bob support users running Gaussian09; no other applications are supported on Bob . Bob is named in honor of Dr. Robert E. Kahn, an alumnus of the City College, who, along with Vinton G. Cerf, invented the TCP/IP protocol.

"KARLE" is a Dell shared memory system with 24 processor cores. Karle is used for serial jobs, Matlab, SAS, parallel Mathematica, and certain ARCview jobs.  Karle is named in honor of Dr. Jerome Karle, an alumnus of the City College of New York who was awarded the Nobel Prize in Chemistry in 1985.

"Zeus" is a Dell cluster with 64 processor cores.  It is used for exclusively to support classroom and training activities.

"Chizen" is the system that is used as a gateway to the above HPCC systems.  It is not used for computations.  Chizen is named in honor of Bruce Chizen, former CEO of Adobe, and a Brooklyn College alumnus.

Detailed information on each of these systems is available on the CUNY HPCC wiki.