

CARC Supercomputer and Cluster Resources (updated 3/14/14)

Machine Name	Nano	Pequena	Gibbs	Poblano	Metropolis	Ulam	Galles
Model/Type	Dell PowerEdge 1950; Intel Xeon 5140, 2.33 GHz	SGU Altix ICE; Xeon X5365, 3.0 GHz	Dell PowerEdge R620; Intel Xeon E5- 2670, 2.6 GHz	Silicon Mechanics A422.v3 Shared-Memory Multi Processor AMD Opteron 6272, 2.1 GHz	Linux Network Evolocity AMD Opteron 252, 2.6 GHz	IBM System x3755; AMD 8214, 2.2 GHz	Dell Optiplex GX620 /Intel Pentium D/ 2.13 GHz; Dell Optiplex 745/ Intel Core2/ 2.8 GHz / 3.0 GHz
Linux Operating System	SCIENTIFIC LINUX	Red Hat	SCIENTIFIC LINUX	SLES	SCIENTIFIC LINUX	Ubuntu	Ubuntu
Interconnect	Myrinet 2000	Dual QDR InfiniBand (separated IPC and I/O)	InfiniBand QDR	None	InfiniBand DDR	InfiniBand Dual 10Gbps SDR	GB Ethernet (Beowulf cluster)
Nodes	35	22	24	1	70	120	200 (including 16-node Hadoop subsystem)
Cores/Node	4	8	16	64 (32 + 32 FP co-processors)	2	8	2
Total cores	140	176	384	64	140	960	400
RAM/Core	4 GB	4 GB	4 GB	256 GB shared	4 GB	4 GB	1 GB
Local disk/node	80 GB	Filesystem disk only	1 TB	Filesystem disk only	1 TB	1 TB	80-140 GB; 1 TB on Hadoop nodes
Peak FLOPS (theoretical), in TFLOPS	1.288	2.1	3.996	.179	.728	4.2	2.2
Processor Architecture	EM64T Intel Xeon Woodcrest	EM64T Intel Xeon (Clovertown)	Intel SandyBridge	AMD 6272 Interlagos	AMD 252 K8	AMD 8214 Santa Rosa	Intel Pentium D, Intel Core 2
Local scratch space (TB)	4.8	4.1	6.3	3.5	0	0	0