





Central Site Equipment:

Present Four Sun Fire 6800s each with 24CPUs (750MHz) and 24GB of RAM Four Sun Fire 6800s each with 24CPUs (900MHz) and 24GB of RAM 6.5TB of Sun StorEdge T3 disk storage

Sun HPC4500 with 8 CPUs and 4GB of RAM IBM SP with eight 4-CPU (333MHz 604e) nodes

Future (summer 2002) Four Sun Fre 6800s each with 24CPUs and 24GB of RAM 2.6TB of Sun StorfEdge T3 disk storage Upgrading of the 750MHz boards



### Other Sites:

Carleton University (Ottawa) Sun Fire 6800 with 20CPUs and 20GB of RAM 1.3TB of Sun StorEdge T3 disk storage Beowulf cluster with 64CPUs --> 128CPUs

University of Ottawa (Ottawa) Sun Fire 6800 with 20CPUs and 20GB of RAM 1.3TB of Sun StorEdge T3 disk storage

Royal Military College of Canada (Kingston) Sun HPC4500 with 12CPUs and 12GB of RAM Direct fibre connection to Queen's University

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User Support Queen's University Carleton University University of Ottawa

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### Environment:

#### Present

Solaris with CRM, Cluster Tools, GridEngine and Forte Developer Interconnect is by Gigabi Ethernet. User connections via sh. sh. ftp. Putty. Information availability through the web site (www.hpcvLorg).

#### Future

Developing PKI based solutions with our partners to raise the security level and protect intellectual property. Developing a portal solution that is consistent with our goal of secure access from anywhere using the web.



#### Present users:

 
 Sun systems are now used by over 100 users in 32 research groups. (systems averaging 90% utilization)

 Significant users in the following areas

 Chemistry, Biology
 Computer Science, SNO, Quantum, Solid State Computer Science

 Computer Science
 Genomics, Cryptography, Geomatics

 Economics
 Policy Decisions

 Psychology
 Memory Modeling

 Engineering
 CFD, Electrical
Future users:

Negotiations involving large data storage may bring in more groups. Commercial contract usage (security). IP intensive groups (security). Areas include Math and Stuts, Medicine Engineering (many fields)





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Successes:

User acceptance

Recruiting highly qualified people.

Genomics sequence alignment (Dr. Frank Dehne and coworkers) and the minimum vertex problem.

Training -- successful workshops.

New research thrusts.

New collaborations.

New partnerships.

Special Interest Groups (SIGs).

