



Moving to a Secure Grid Portal

A decorative graphic consisting of three thick, light purple curved lines that meet at a central point, forming a stylized 'Y' or 'X' shape. The lines are semi-transparent and have a slight gradient.

**High Performance Computing
Virtual Laboratory**

Ken Edgecombe, Ph.D.

Executive Director



Université d'Ottawa
University of Ottawa



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ONTARIO
CHALLENGE FUND

Putting R&D to Work



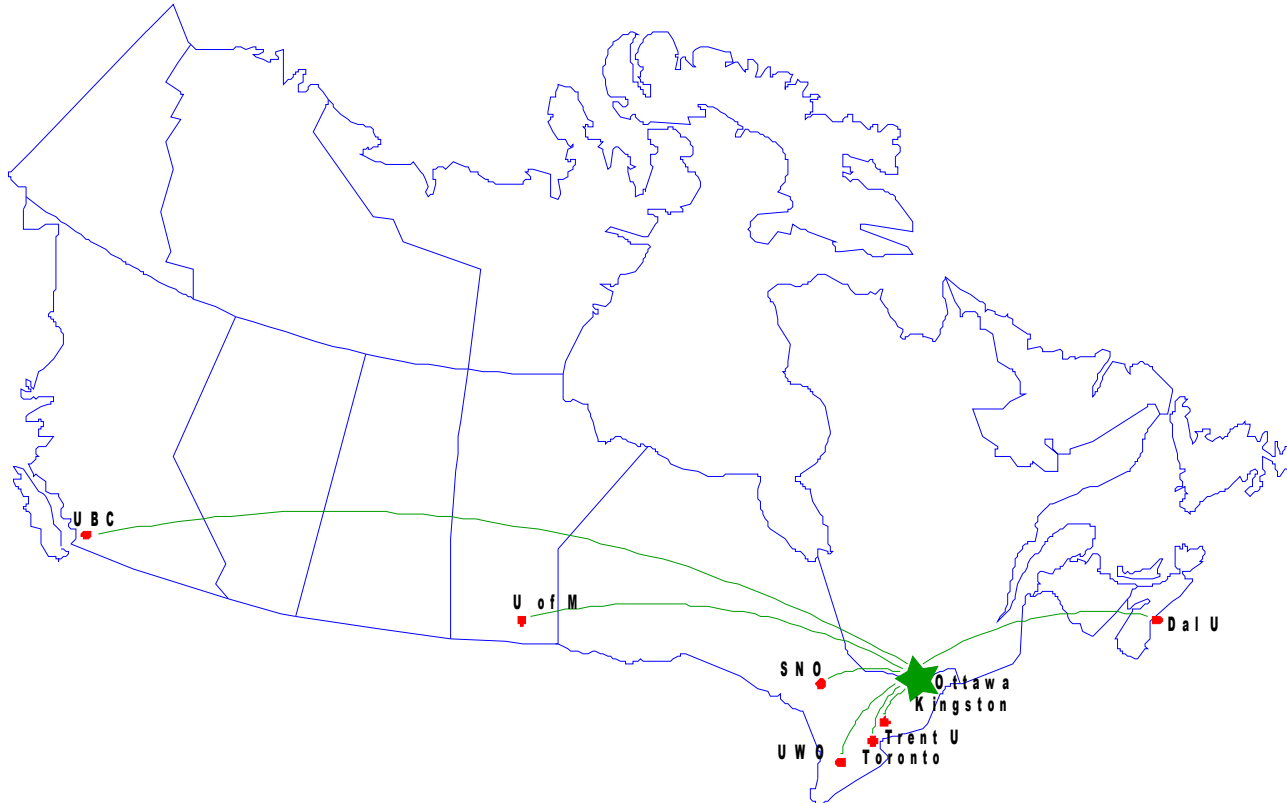
Ontario
Innovation
Trust



NSERC
CRSNG



What is HPCVL?



Delivery of Secure HPC Resources for Innovative Research



HPCVL 2003

- High calibre research
- Research success
- Attracting and retaining PIs
- Effective training and expert support
- Efficient use of resources
 - utilization
 - mode
- Growing number of users
- Stronger and growing technology partnerships

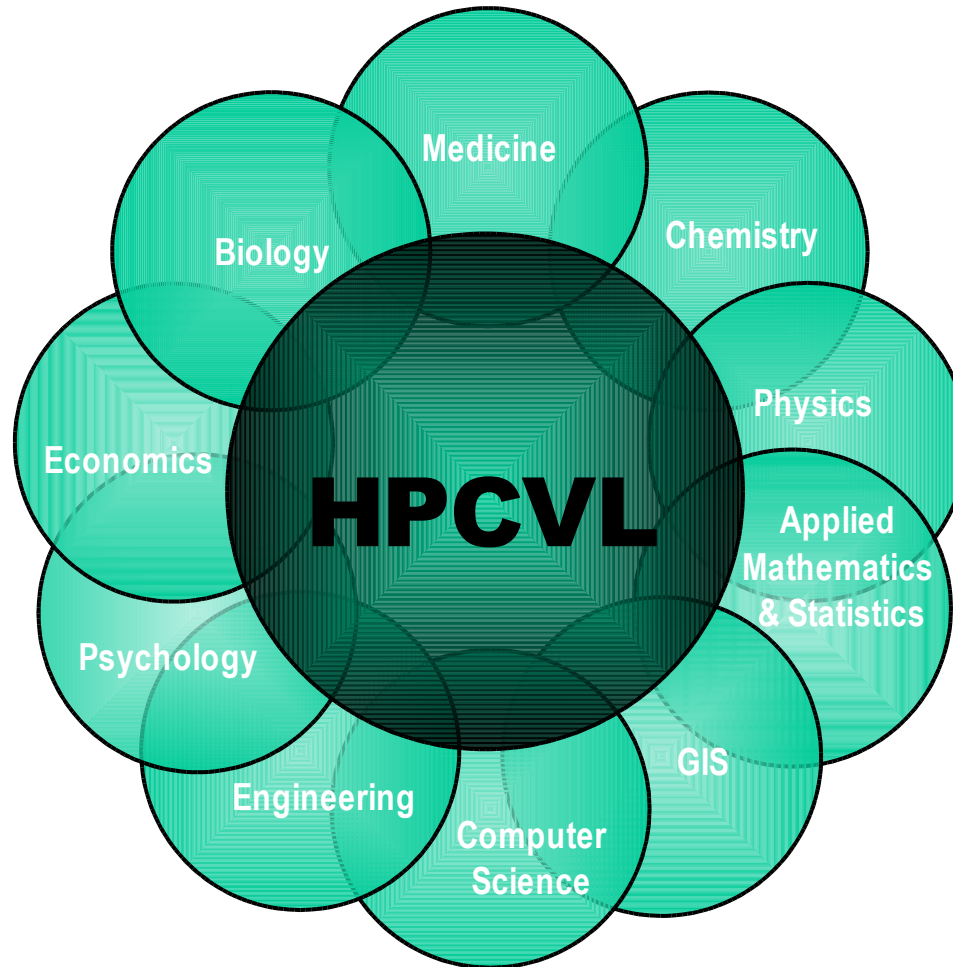
Excellent Return on Investment



Sudbury Neutrino Observatory

- **Collaboration** of 131 scientists in Canada, US, and UK involving Queen's, Carleton, Guelph, Laurentian, TRIUMF, UBC, Pennsylvania, Washington, Texas, Berkeley (LBNL), Brookhaven (BNL), Los Alamos (LANL), Oxford, Rutherford/Sussex
- Providing **revolutionary insight** into the properties of neutrinos and the astrophysics of the sun
- **HPCVL** – high capacity data analysis, storage, and comprehensive simulations

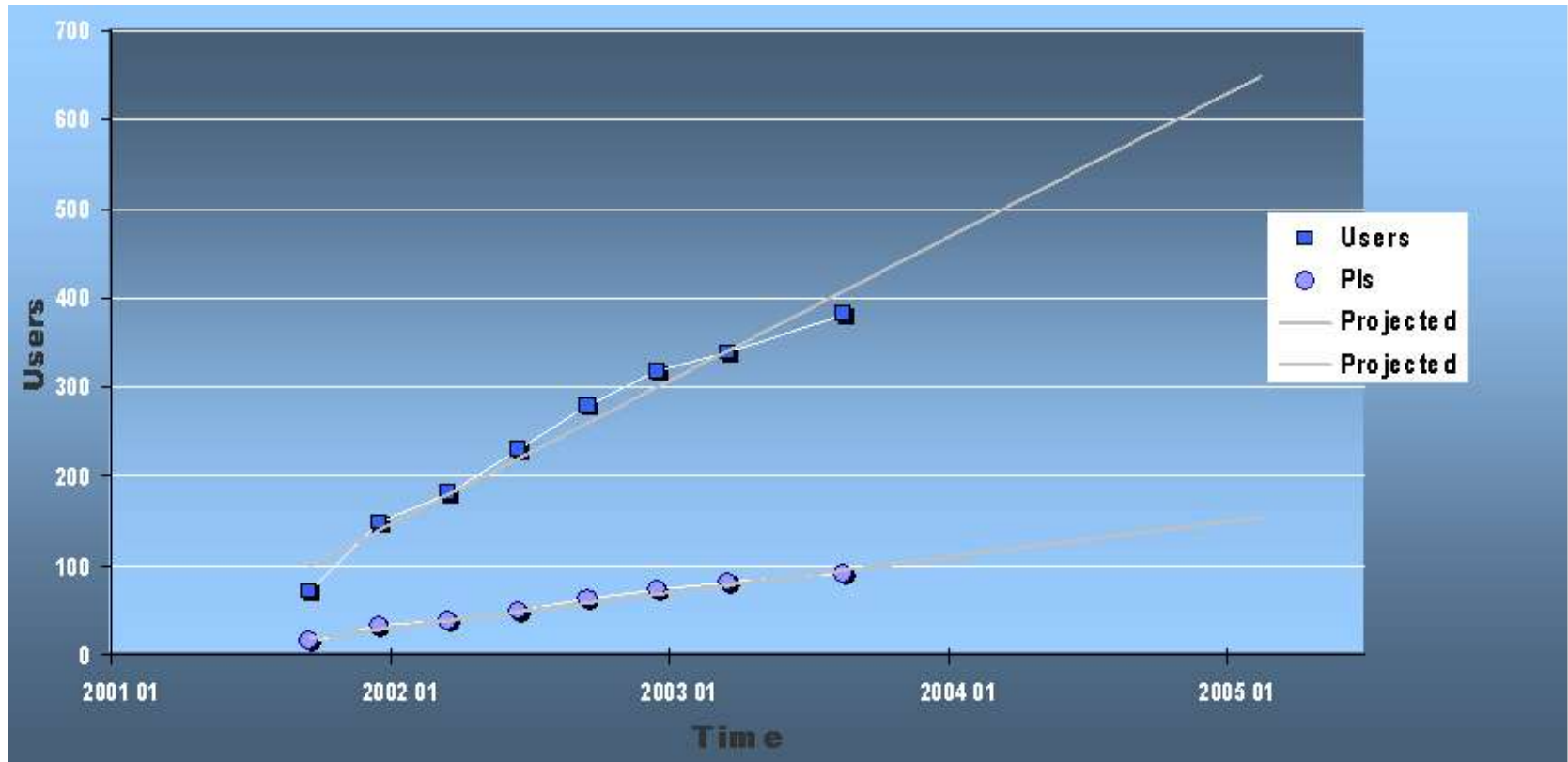
Multidisciplinary



Multipurposed



Participation Growth

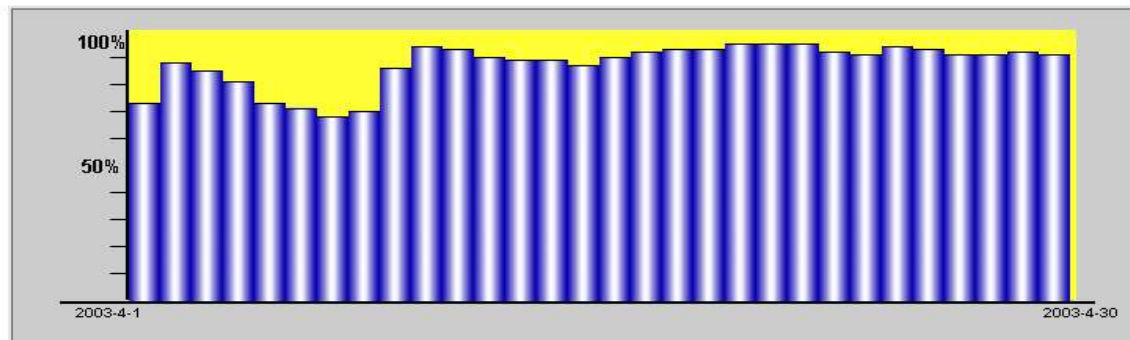




SunFire CPU Load

Average CPU Load on SunFire Cluster:

Start Date: 2003-4-1
Stop Date: 2003-4-30



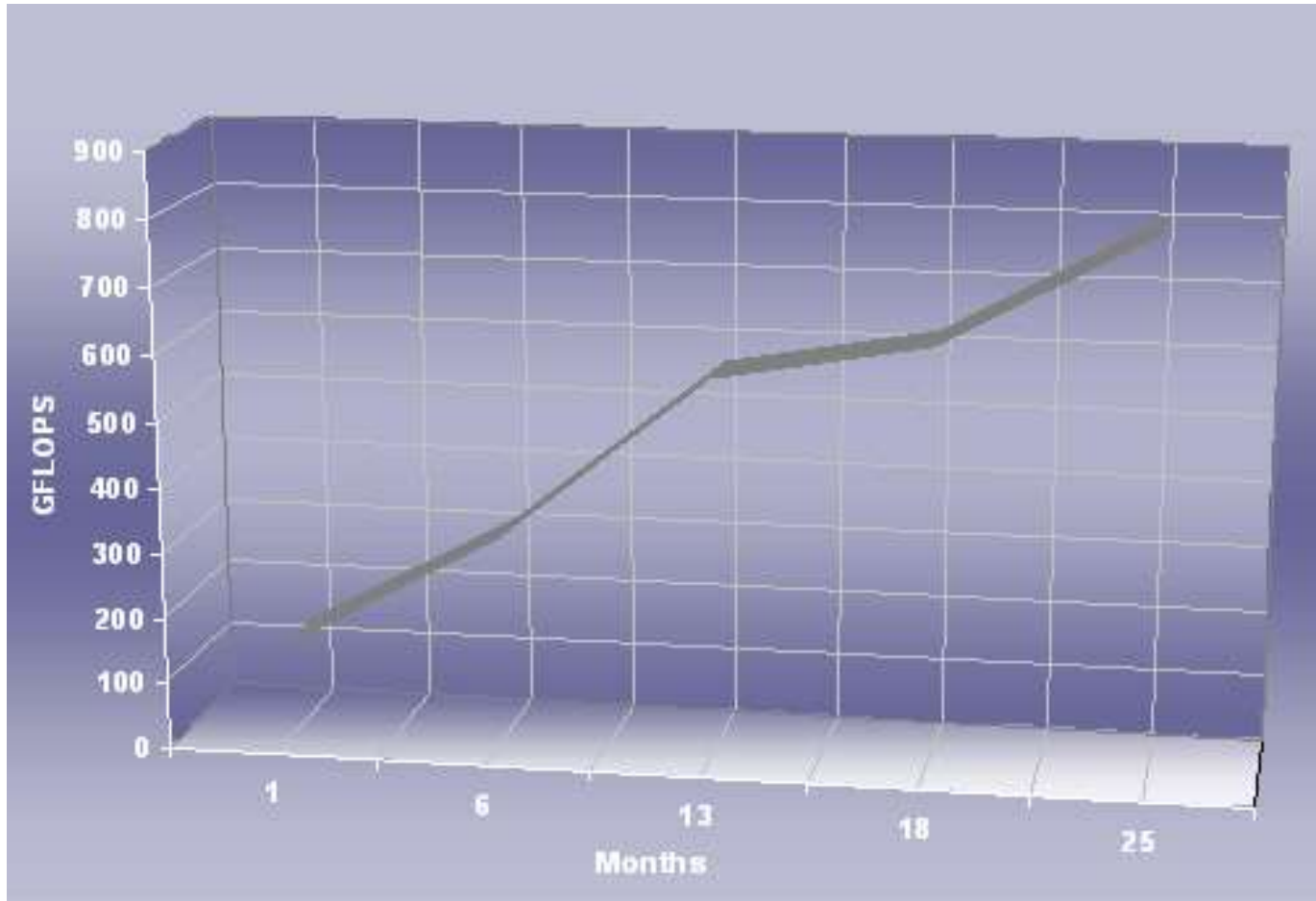
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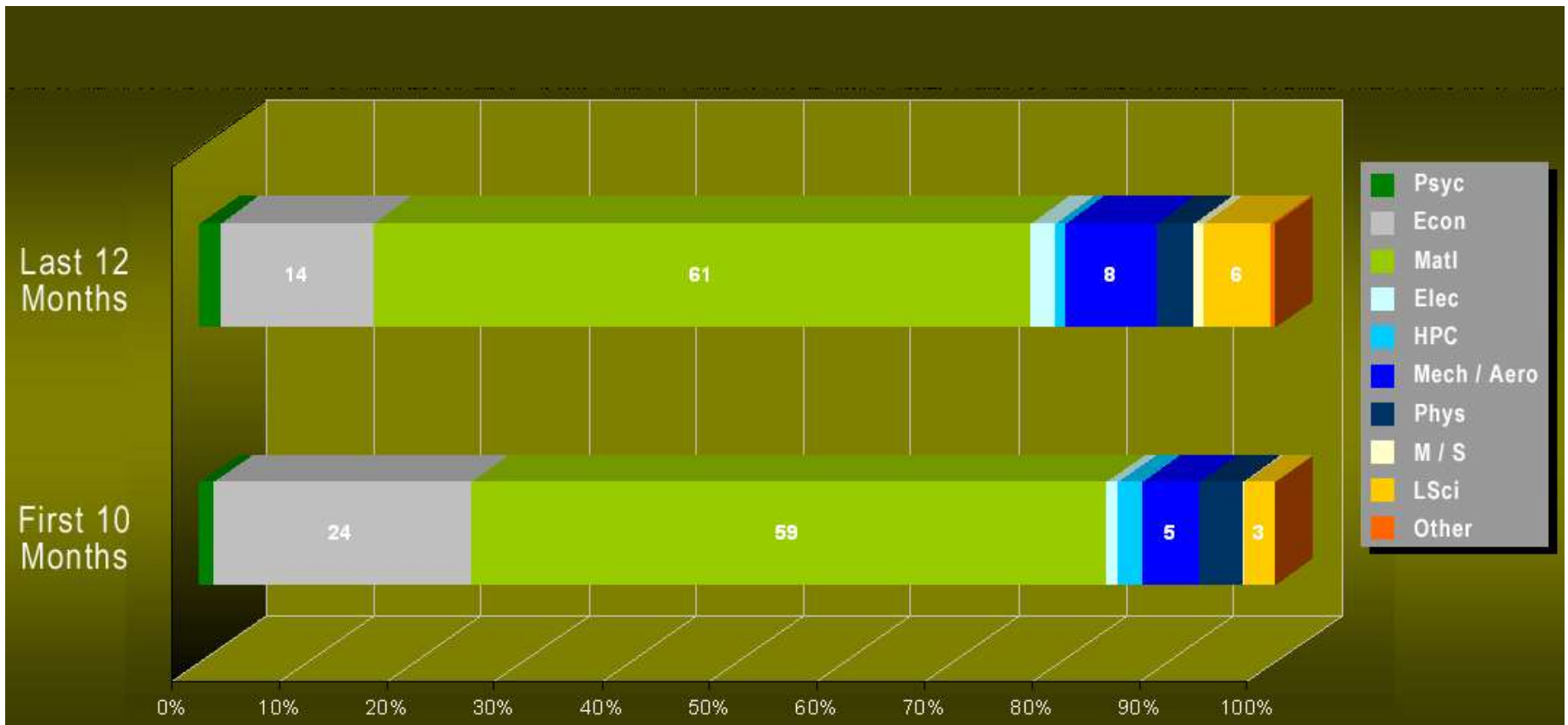
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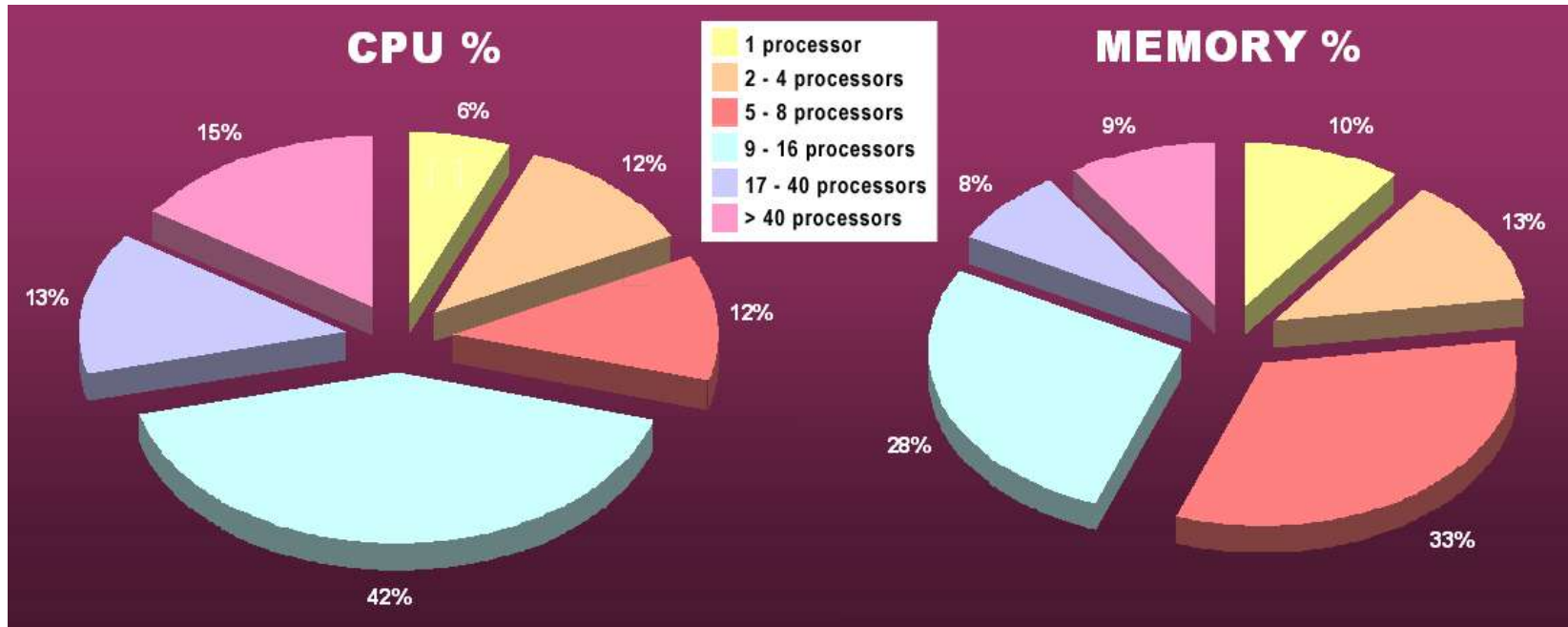
Growth in Theoretical Peak



Discipline Usage Development



Parallel Computing Statistics



How HPCVL connects to the Canadian network





User Information

Welcome!
CMC User1
Last Update:
June 13, 2003 11:27 AM
119 minutes left
30 minutes max idle time

File Transfer Applications

- [NetFile Java1](#)
- [NetFile Java2](#)

My Bookmarks

Enter URL Below:

- [NetFile FAQ...](#)
- [Portal Usage FAQ](#)
- [Everything you want to know about Sun ONE ...](#)
- [NetMail Local Installer](#)

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Winter 2003 Newsletter

HPCVL celebrates a year of success
New 105000 listing shows HPCVL among top 200 fast facts internationally

HPCVL labnotes

Click to view PDF version of HPCVL's Latest (Winter/03)

New HPCVL Sun Tune Workshops

HPCVL Workshops

HPCVL and Sun are offering a three day Sun Application Tuning Seminar in June/2003. It will be offered in Ottawa, June 16th - 18th, and Kingston, June 19th - 21st.

Please [check here for details.](#)



HPCVL Secure Grid Portal * Home * Theme * Log Out
* Tabs * Help

HPCVL Cluster Status CMC **Grid Engine**

Content Layout

Job List ?
You have no running jobs.
[Submit new job...](#)

Project List
• [test_june13](#)

Application List
• [ncverilog_script](#)
• [ncverilog_script_upload](#)
•

CMC FAQ

SunTCP New Job Form

Project name:

Email notification:

Input arguments:

Output file name:

Error file name:

Number of CPUs:

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Overview of Portal Job Submission

Prior to submitting jobs via the Grid Engine Portal, some basic information about projects and directories is necessary. When a user logs into the portal, a predetermined list of applications that are available is proffered. In order to submit jobs, a project must be made from the application, i.e. the application must be instantiated. The first time a project is made, a new directory is created in the

User Information ?

Welcome!
 CMC User1
 Last Update:
 June 13, 2003 11:44 AM
 102 minutes left
 30 minutes max idle time

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Discipline Usage Development

