

PROJECT INTRODUCTION

Objectives

To support the sharing of computational resources among multiple departments.

Project Investigator / Manager

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Period of Project

Jan 2003 - Current

Website

<http://ntu-cg.ntu.edu.sg>

Abstract

We develop the Nanyang Campus Grid that leverages centralized campus authentication, facilitates sharing of computing resources among departments, and provides the capabilities of integrating and orchestrating distributed capabilities to solve computing intensive problems.

PROJECT DETAILS

Description

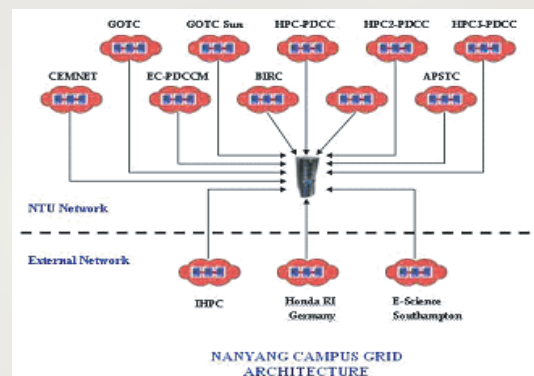
Nanyang Campus Grid is a campus-wide computing infrastructure that makes full use of super-computing facilities and high capacity storage systems installed in the various research centers and laboratories throughout the Nanyang Technological University. The advantages of this Grid are:

- The campus Grid infrastructure enables users to have fast and easy access of remote resources and concentrate on application development.
- The campus Grid infrastructure supports the development of large applications that cannot be solved by single computer.
- Campus-wide monitoring of resources allows for optimal resource administration and planning. Sharing also improves utilization of expensive resources and increases performance/price ratio.

A portal called ClearingHouse has been set-up to provide web access to the computing and storage resources in the Nanyang Campus Grid. Presently, resources from NTU research centers including PDCC, CeMNet and BIRC, and resources from external organizations including IHPC, Temasek Polytechnic and E-Science project are connected to form the core resources in the Campus Grid.

The Grid Operation and Training Center for the Campus Grid is located at Parallel and Distributed Computing Center (PDCC), SCE. The center provides Grid technical support and management to the community.

Currently, Nanyang Campus Grid provides the services of Grid certificate management, Grid accounting application, Grid application development kit, and system status monitoring.



Collaborating Organizations:

- SUN Microsystems Pte Ltd
- National Grid Office