

PROJECT INTRODUCTION

Objectives

To provide a cyber-infrastructure for sharing of compute and related resources by stakeholder organizations.

Project Investigator / Manager

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Period of Project

Nov 2003 - Current

Website

www.ngpp.ngp.org.sg

Abstract

The NGPP is a high speed cyber-infrastructure connecting resources contributed by research institutes and institutes of higher learning in Singapore.

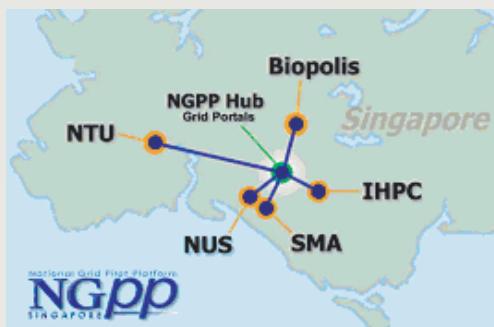
PROJECT DETAILS

Description

The National Grid Pilot Platform (NGPP) was launched on 1 November 2003 with several 1-Gbps high-speed network lines connecting over 250 CPUs belonging to A*STAR's research institutes and the two main universities. Today, the heterogeneous computing resources (e.g. Xeon, Itanium, Opteron, Pentiums) on the NGPP have grown to over 500 CPUs and are expected to reach 1,000 CPUs by end 2006.

The NGPP network bandwidth is 1 Gbps for both local and international internet and Internet 2 connectivity and is provided via SingAREN.

This high speed network connecting computing resources was conceived in response for a pragmatic approach to develop a cyber-infrastructure in Singapore.



NGPP network topology

Collaborating Organizations:

- Bioinformatics Institute (BII)
- Institute of High Performance Computing (IHPC)
- Genome Institute of Singapore (GIS)
- National Technological University (NTU)
- National University of Singapore (NUS)
- Singapore-MIT Alliance (SMA)
- Singapore Management University (SMU)

The NGPP connects NUS, NTU, SMA, SMU, Biopolis (where BII and GIS are located), and Singapore Science Park II (where IHPC is located).