

The TSUBAME Now and Future
Running a 100TeraFlops-Scale Supercomputer for Everyone
as a NAREGI Resource and Its Future

Satoshi Matsuoka, Tokyo Institute of Technology , Japan

matsu@is.titech.ac.jp

TSUBAME is a large, 100 TeraFlops-scale supercomputing cluster that has been recognized as the fastest supercomputer in Asia for the past year. It has been designed with both large-scale supercomputing and wide-area capacity grid usage to coexist. As such it is extremely versatile and powerful while being cost effective and much lower in terms of various cost metrics including acquisition cost, power/cooling, space, etc.

TSUBAME will be running the beta 2 version of the NAREGI Japanese research grid middleware as well, so that it will become interoperable with EGEE/gLite grids. A year's experience in running TSUBAME has also opened its way for substantial yearly extensions without compromising the salient properties, starting with increases in storage to 1.5 Petabytes of spinning disk, and large memory nodes.