



# Center for Computational Physics University of Tsukuba

<http://www.rccp.tsukuba.ac.jp/>

## Objectives

- Research and development of high performance massively parallel computers for computational physics
- Research with them in
  - particle physics
  - astrophysics
  - condensed matter physics
  - parallel computer science

## Heterogeneous Multi-Computer System

- **CP-PACS**  
engine for fields, developed at CCP
  - 2048 processing nodes + 128 I/O nodes
  - 614 GFLOPS (64-bit)
  - 128 GB main storage
  - 1.1TB distributed RAID-5 disks
  - 3-D hyper-crossbar network



CP-PACS



GRAPE-6 with host cluster

### PAVEMENT

parallel I/O and  
visualization system

- **GRAPE-6**  
engine for particles
  - 8 boards (256 chips)
  - 8.4 TFLOPS

The CP-PACS was ranked No.1  
in the TOP 500 in Nov. 1996

