



# Center for Computational Sciences University of Tsukuba

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

## Objectives

- Advanced research in computational sciences
  - particle physics and astrophysics 
  - materials and life sciences 
  - global environment and biological sciences 
- Research and development of high performance computers and networks for computational sciences 
- Research on use of massive computation for computational intelligence and media 

## Chronology and major events

1992 Foundation of the Center for Computational Physics (CCP)

1996 Completion of CP-PACS, an MPP ranked No.1 in the Top 500 in Nov. 1996

2002 Completion of HMCS (Heterogeneous Multi-Computer System), a coupled CP-PACS/GRAPE-6 system

2004 Reorganization and expansion of CCP to the Center for Computational Sciences (CCS)

2005 R&D of two major new computing facilities in progress. Completion and start of operation scheduled in June 2006.

- PACS-CS general-purpose 14.3 Tflops MPP cluster for computational sciences
- FIRST HMCS-E for astrophysical simulations general-purpose 3.5 Tflops + gravity 35 Tflops



CP-PACS



GRAPE-6 with host cluster