

HPCI (High Performance Computing Infrastructure) and GOYAJHPCN (Joint Usage/Research Center for Interdisciplinary

Large-scale Information Infrastructures)

Nationwide Joint-use Systems

Information Technology Center (ITC), Nagoya University is providing large-scale computing resources to nationwide researchers as a Joint Usage / Research Center, which is admitted by Ministry of Education, Culture, Sports, Science and Technology, Japan.

HPCI

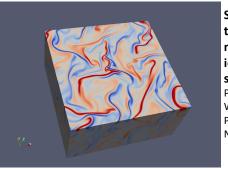
HPCI establishes high performance a computing infrastructure that consists of main such supercomputers, assupercomputers in universities and institutes, with an academic network to satisfy wider requirements from users. The supercomputers in ITC. Nagova University are also one of the HPCI resources.

JHPCN

The Joint Usage / Research Center for Information Interdisciplinary Large-scale Infrastructures (JHPCN) is made up of eight centers equipped with supercomputers. This is a network-type joint usage and collaborative research center, and its core institution is the Information Technology of Center the University of Tokyo.

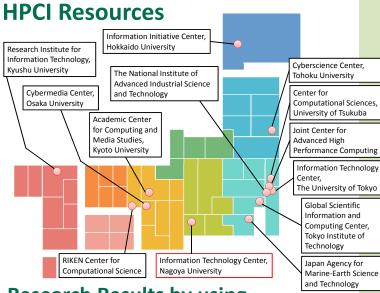
JHPCN accepts submissions of collaborative Provided by Hidetaka Hontani, researches and its reviewing and acceptance in Nagoya Institute of Technology 4 kinds of research field for very large-scale computations.

Interdisciplinary collaborative researches are performed with tightly collaboration between applicants and faculties of JHPCN centers.



Simulation of auroral turbulence in the magnetosphereionosphere coupling system

Provided by TomoHiko Watanabe, Department of Physics, School of Science Nagoya University



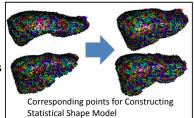
Research Results by using Supercomputers in ITC, Nagoya U.

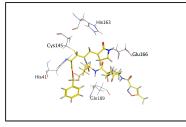


Weather simulation using the CReSS

Provided by Kazuhisa Tsuboki, Institute for Space-Earth Environmental Research (ISEE), Nagova University

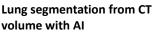
High Speed Computation of Large Deformation Diffeomorphic Metric Mapping of Abdominal Organs Department of Computer Science,





Fragment molecular orbital based interaction analyses on COVID-19 main protease Provided by Yuji Mochizuki,

Department of Chemistry, Rikkyo University



Provided by Kensaku Mori, Department of Intelligent Science, Nagoya University

