Maps and Directions

At Sannomiya Station of the Port Liner railway, take a train for Kobe Airport. Get off at K Computer Mie Station (travel time: about 15 minutes). The Center is next to this station, to the south.
Remote lectures on computational life science are delivered through the Internet.

The Education Center on Computational Science and Engineering (ECCSE) was established in 2014. It promotes research and education in simulation technology and produces skilled researchers and engineers who will shape the next generation of high-performance computing technologies in collaboration with universities, national research institutes, and industries.

Intensive courses on parallel computing for junior researchers are offered in collaboration with RIKEN Center for Computational Science (RIKEN R-CCS) in every August and March, as KOBE HPC Summer School and Spring School, respectively. The courses include hands-on exercises on supercomputer use.

Activities at ECCSE

Outreach Activities

We educate individuals who

- understand the principles and value of computational science in problem-solving,
- have a wide interdisciplinary knowledge of various computational science fields,
- can handle simulation techniques in various research fields, and
- have international experience and international exchange.

International Collaboration in research and education

To improve simulation knowledge and technologies, an international exchange research at University of Oslo, Norway, based on Kobe University Long Term Overseas Visit Program for Young Researchers. The exchange research covers a broad range of activities, such as writing up of international joint papers as well as carrying out workshops, which involve students from both Kobe and Oslo Universities.

Research Activities with the μ-computer

The μ-computer is a high-performance PC cluster consisting of 16 compute nodes with the peak performance of 22.9 TFlops. Each compute node has two CPUs (AMD EPYC 7282, 2.8GHz, 16 cores) and main memory of 256 GiB. Compilers including the Intel compiler are provided to develop various applications. Jobs are executed via the PBS batch job scheduler under the Linux OS (Red Hat Enterprise Linux).

【Principal applications】

- Solutions for disaster mitigation and global environmental problems
- Development of cutting-edge products and new energy sources
- Development of new nanotech materials
- Scientific explanations for the mysteries of the universe
- Development of new drugs

Remote interactive lectures on "Basis for Computational Life Science"

Remote lectures on computational life science are delivered through the Internet.