

Advanced Regional Workshop on High Performance and Grid Computing: Towards Enabling e-Science in the Region

Summary Program

The details of this program can be found at <http://elearn.escience-lab.org/index.php> where you are kindly required to enroll

Week 1

	9:00-10:30	10:30-11:00	11:00-12:30	12:30-14.00	14:30-16:00	16:00-16:30	16:30-18:30
Day 1	Opening Ceremony	Break	Introduction to Concepts of HPC and Grid	LUNCH	Workshop	Break	Workshop
Day 2	Introduction to Linux		Introduction to Linux				
Day 3	Scientific Programing		Scientific Programing				
Day 4	Tools and Methods for High Performance Computing		Tools and Methods for High Performance Computing				
Day 5	Free						

Week 2

	9:00-10:30	10:30-11:00	11:00-12:30	12:30-14:00	14:30-16:00	16:00-16:30	16:30-18:30
Day 6	Computational infrastructures/ GRID infrastructures	Break	Modern CPU architecture/ Optimization techniques	LUNCH	Workshop	Break	Workshop
Day 7	OpenMP approach I & II		HPC Lab: Mixed OpenMP GRID Lab: Security System				
Day 8	choose the right infrastructure/ Assess application performance		HPC Lab: Local Resources Managers/ Network for Clusters. GRID Lab: Advanced Job submission/ MPI Job submission				
Day 9	The art of benchmarking		HPC Lab: Linux Cluster GRID Lab: port application on GRIDs/ Grid success stories				
Day 10	GPU computing I&II		HPC Lab: GPU computing III/ GPU HW GRID Lab: TBD/ GridSeed project				
Day 11	Data Management/ computational infrastructures		HPC Lab: Linux clusters GRID Lab: DATA management on GRID/ GRID Interoperability				
Day 12	Free						

Conference

	9:00-10.30	10:30-11:00	11:00-12:30	12:30-14.00	14:30-16.00
Day 13	Testing & benchmarking	Break	Path integrals without integrals	LUNCH	Interoperability on Gridseed Performability and Evolution of a sensor Molecular Dynamics Simulations on GPU
Day 14	Workshop		Workshop		Workshop