

ALFA-SCAT

Scientific Computing Advanced Training

First SCAT European Workshop

Daresbury Laboratory

June 26-30 2006

Programme of Activities

Monday 26 June			
Time	Title	Speaker	Affiliation
09:30 - 10:10	Registration		
10:10 - 10:50	Introduction	Lorena Barba	Bristol
Coffee			
11:20 - 12:00	TBD	Stef Salvini	Allinea
12:00 - 12:40	TBD	Stef Salvini	Allinea
Lunch			
14:20 - 15:00	Podcasting solutions in education	Alan Greenwell	Apple
15:00 - 15:40	e-learning and more (title not confirmed)	Silvino De Gennio, Gordon Shukwit	Apple
Coffee			
16:10 - 16:50	Case study	Bill Ashraf	University of Bradford
16:50 - 17:30	MAC for Science: from data analysis to publication, seamlessly	Massimo Marino	Apple

Tuesday 27 June			
Time	Title	Speaker	Affiliation
09:30 - 10:10	Domain Decomposition for Control Problems: Time and Space parallelizations	Marcus Sarkis	Instituto Nacional de Matemática Pura e Aplicada, Brazil
10:10 - 10:50	Numerical resolution of complex flows using the open source codes SURFER and Gerris	Stephane Zaleski (co-authors: Christophe Josserand, Stéphane Popinet)	LMM, Université Pierre et Marie Curie
Coffee			
11:20 - 12:00	Parallel Rotor Simulation Tools	Chris Allen	Bristol
12:00 - 12:40	Forward and inverse problems for the models of diffusion/advection of pollutants in the Mexico City region	Vladimir Tchijov	Universidad de Chile, Depto. de Física
Lunch			
14:20 - 15:00	Parallel computing		Daresbury Laboratory
	Introduction	Advanced*	
15:00 - 15:40	Message passing	Performance tools*	Daresbury Laboratory
Coffee			
16:10 - 16:50	PetSc via Access Grid	Barry Smith	Argonne
16:50 - 17:30	PetSc via access grid		

Wednesday 28 June			
Time	Title	Speaker	Affiliation
09:30 - 10:10	Distributed Computing (DisCo)	Christine Kitchen	Daresbury Laboratory
10:10 - 10:50	Cluster computing	Christine Kitchen	Daresbury Laboratory
Coffee			
11:20 - 12:00	Mechanical instabilities in Lennard-Jones solids	Fernando Lund	Universidad Nacional Autónoma de México
12:00 - 12:40	Computational challenges of simulation using particles	Lorena Barba	Bristol
Lunch			
14:20 - 15:00	Developing a Computer cluster for CFD at the Informatics and Physics Departments at the UTFSM	Luis A. Salinas-Carrasco, O. Orellana (co-authors: G. Hernández)	Universidad Tecnica Federico Santa Maria
15:00 - 15:40	TBD		
Coffee			
16:10 - 16:50	PetSc via access grid#	Barry Smith	Argonne
16:50 - 17:30	PetSc via access grid#		

reserved in case of problems on Tuesday or if more advanced topics can be discussed.

Thursday 29 June			
Time	Title	Speaker	Affiliation
09:30 - 10:10	Introduction to the lattice Boltzmann method and some applications	Yonghao Zhang	Daresbury Laboratory
10:10 - 10:50	TBC	Duilio Tadeu	Instituto Nacional de Matemática Pura e Aplicada, Brazil
Coffee			
11:20 - 12:00	SCAT scholarships Selection	Lorena Barba + Committee	Bristol / SCAT
12:00 - 12:40	SCAT short courses -Planning for Chile Jan.2007	Lorena Barba + Committee	Bristol / SCAT
Afternoon free			

Friday 30 June			
Time	Title	Speaker	Affiliation
09:30 - 10:10	HPCx tour	Steve Andrews	Daresbury Laboratory
10:10 - 10:50	MD and e-science	???	
11:20 - 12:00	???	???	
Lunch			
13:40 - 14:20	Intel Software development products	Vadim Roussin	Intel
14:20 - 15:00	Cluster OpenMP	James Cownie	Intel
Close of meeting			