

Legend: Each small round is an (or more than one) attached document, the colours indicate the belonging at one of the following specific set of types:

announcement, application_form, bulletin abstract, lecture_notes, recording, syncomat, transparencies, video misc, list_of_participants, minutes, pictures, posters, programme, text, related_links, web_page

JOINT ICTP-INFN SCHOOL IN "HIGH PERFORMANCE COMPUTING ON LINUX CLUSTERS"

from 2002-01-31 to 2002-02-15

Chair: Stefano Cozzini

: Sessions	/	: Talks	: Breaks
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	31 January 2002	01 February 2002	02 February 2002	04 February 2002	05 February 2002	06 February 2002	07 February 2002	08 February 2002	09 February 2002	11 February 2002	12 February 2002	13 February 2002	14 February 2002	15 February 2002
AM	<p>09:00 Day 1 09:00 Registration 10:30 Introduction (S.Cozzini) 11:30 The Linux O.S.: an overview (to be defined) (S.Cozzini) 12:30 --- Lunch ---</p>	<p>09:00 Day 2 (Adriatico Guest House Small Lecture Room) 09:00 Cluster Hardware: PC and networks (R. Innocente) 11:00 Tutorial: Oscar for linux cluster (J. Enos)</p>	<p>09:00 Day 3 (Computer Lab. (M)) 09:00 Practical: Install Oscar 11:30 Student Presentation (Students' presentations)</p>	<p>09:00 Day 4: Parallel programming techniques 09:00 Parallel Programming in MPI (I) (Carlo Cavazzoni) 11:00 practical: MPI examples (Lab people) (Computer Lab. (M))</p>	<p>09:00 Day 5 (Adriatico Guest House Small Lecture Room) 09:00 Linux Cluster Management I (S. Martinelli) 11:00 Intel tools for Linux clusters: (Tim Mattson)</p>	<p>09:00 Day 6 (Adriatico Guest House Small Lecture Room) 09:00 Linux Tools for HPC: compilers and libraries (S. Cozzini) 11:00 Linux Cluster Management II (S. Martinelli)</p>	<p>09:00 Day 7 (Adriatico Guest House Small Lecture Room) 09:00 Again on Hardware: High-end Processors and High Speed Network (R. Innocente) 11:00 Profiling and Optimization Technique (I) (Luiz De Rose) 12:00 Itanium IA64 architecture (Tim Mattson)</p>	<p>09:00 Day 8 (Adriatico Guest House Small Lecture Room) 09:00 Profiling and Optimization technique (II) (Luiz De Rose) 11:00 Portable MPI Tools at Work - Cracking Performance Problems (Werner Krotz-Vogel)</p>	<p>09:00 day 9 (Computer Lab. (M)) 09:00 Lab Session 12:00 Group Presentation</p>	<p>09:00 Day 10: Monday 09:00 Advanced Topic: Parallel Filesystems GPFs (Luiz De Rose) 11:00 Case study A: Engineering application (Carmen Borges) 12:00 --- Lunch ---</p>	<p>09:00 Day 11 (Adriatico Guest House Small Lecture Room) 09:00 Advanced Topic: Moxix cluster approach (Moshe Bar) 11:00 Case study B: Meteorological Application (Andy Heaps)</p>	<p>09:00 Day 12 09:00 Performances of Parallel chemistry codes on Linux Cluster (Guest (To be confirmed)) 10:00 Advanced Topic: the high performance QsNet network (Milton Romero) 11:00 Case Study C: Condensed matter application (S. Cozzini)</p>	<p>09:00 Day 13: Experiences in building Linux Cluster 09:00 How to build and run a 128 Processor Cluster. (S. Martinelli) 10:00 How to build a cluster for Monte Carlo Simulation (D. Galli) 11:00 The VRANA project (Lubiana Guy (to be confirmed)) 12:00 Daresbury Experience (Guest (To be confirmed))</p>	<p>09:00 Day 14 09:00 Future Trend: GRID COMPUTING (Guest (? To be confirmed)) 10:00 Future Trends: Java for HPC (M. Ronchetti) 11:00 Student's talks 12:30 Conclusions (S.Cozzini, A. Nobile)</p>
PM	<p>14:30 Day 1 14:30 Lab Session: presentation (Director, Lab people) (Computer Lab. (M)) 14:45 Tutorial: installing Linux (Carlo Fonda) (Computer Lab. (M)) 15:45 Practical: Install your own linux box (Computer Lab. (M))</p>	<p>13:00 Day 2 (Adriatico Guest House Small Lecture Room) 13:00 --- Lunch --- 14:30 Tutorial: Oscar (II) (J. Enos) 16:30 Practical I (Computer Lab. (M))</p>	<p>13:00 Day 3 13:00 --- Lunch --- 14:30 Practical: play with INTEL tools (Computer Lab. (M)) 16:00 MPI programming II (C. Cavazzoni) 17:00 Practical: Free Exercises on MPI/Open MP (Computer Lab. (M))</p>	<p>13:00 Day 4: Parallel programming techniques 13:00 --- Lunch --- 14:30 OpenMp programming (Tim Mattson) 16:30 Practical: OpenMP at work (Tim Mattson) (Computer Lab. (M))</p>	<p>13:00 Day 5 (Adriatico Guest House Small Lecture Room) 13:00 --- Lunch --- 14:30 Practical: configuring PBS and run PBS (Computer Lab. (M)) 15:30 Practical: Install free libraries for HPC (Computer Lab. (M)) 16:30 Practical: Use compilers and compare performances (Computer Lab. (M))</p>	<p>13:00 Day 6 (Adriatico Guest House Small Lecture Room) 13:00 --- Lunch --- 14:30 Practical: Install and test free libraries (Computer Lab. (M)) 16:30 Practical: MPI Parallel programming using libraries (Computer Lab. (M))</p>	<p>13:00 Day 7 (Adriatico Guest House Small Lecture Room) 13:00 --- Lunch --- 14:30 Practical: Optimize these codes! (Computer Lab. (M)) 16:30 Practical: Vampir at work (Computer Lab. (M))</p>	<p>13:00 Day 8 (Adriatico Guest House Small Lecture Room) 13:00 --- Lunch --- 14:30 Practical: Optimize these codes! (Computer Lab. (M)) 16:30 Practical: MPI Vampir at work (Computer Lab. (M))</p>	<p>13:00 day 9 (Computer Lab. (M)) 13:30 case A tutorial (Carmen Borges) (Computer Lab. (M)) 14:30 Case A Practical (Computer Lab. (M))</p>	<p>13:00 Day 10: Monday 13:30 case A tutorial (Carmen Borges) (Computer Lab. (M)) 14:30 Case A Practical (Computer Lab. (M))</p>	<p>13:00 Day 11 (Adriatico Guest House Small Lecture Room) 13:00 --- Lunch --- 14:30 Case B Tutorial (Andy Heaps) (Computer Lab. (M)) 15:30 Case B Practical (Computer Lab. (M))</p>	<p>13:00 Day 12 13:00 --- Lunch --- 14:30 Case C tutorial (S. Cozzini) (Computer Lab. (M)) 15:30 Case C practical (Computer Lab. (M))</p>	<p>13:00 Day 13: Experiences in building Linux Cluster 13:00 --- Lunch --- 14:30 Practical: free exercises (Computer Lab. (M)) 16:30 Group Presentation</p>	<p>13:00 Day 14 13:00 --- Lunch --- 14:30 Practical: free exercises (Computer Lab. (M)) 16:30 Group Presentation</p>

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