


crossgrid HPCOL

High-Performance Computing Lab

CS Dept., UCY

September 2002

University of Cyprus, September 02




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Overview

- Goals
- Structure and Funding
- Responsibilities and Evaluation
- Projects
- Members
- Collaborators
- Organizational Planning
- Future Activities

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Goals

- Conduct high-quality research, and promote the scientific and technological knowledge on Parallel and Distributed Systems:
 - Grid Computing.
 - Performance Engineering.
 - Software Infrastructures for Internet Services and Applications.
- Support undergraduate (B.Sc.) and graduate theses (M.Sc., Ph.D.) conducted under the faculty members of the lab.
- Promote applications of HPC in Cyprus through support and know-how to local users of HPC technologies.
- Achieve research funding from national and international funding agencies.
- Organize University Seminars, Training Events, Scientific Workshops, Summer Schools, and Conferences in Cyprus.

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Motivation

- What can you achieve by being members of the lab?
 - Work on interesting research topics and get significant experience in advanced topics of Computer Science research.
 - Receive support (advise, guidance, know-how, infrastructure) to conduct your thesis work.
 - Become exposed to international collaborative work.
 - Build your experience in project management, technical writing, technical work.
 - Fund your graduate studies.

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Structure

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    PI[Principal Investigator] --- RA[Research Associates]
    PI --- RS[Research Scientists]
    PI --- PDS[Ph.D. Students]
    PI --- MSCS[M.Sc. Students]
    RS --- CFC[Collaborating Faculty from CS]
    CFC --- Aff[Affiliates]
    PDS --- BSCS[B.Sc. Students]
    MSCS --- BSCS
  
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Funding

- The Lab provides funding to full- and part-time research staff from projects funded by national and international funding agencies.
- Funding is result of proposals submitted by the PI and/or Collaborating Faculty.
- Funding is based on education, experience, status, performance.
- Funding agencies:
 - European Commission (IST/FP5, FP6, Socrates).
 - Research Promotion Foundation of Cyprus.
 - University of Cyprus, Research Committee.
 - Local and international industry.



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Responsibilities



- Laboratory staff is expected to:
 - Work hard to carry out the assigned projects in compliance with assigned tasks and responsibilities towards funding agencies and collaborators.
 - Show strong professionalism.
 - Comply with the highest academic and scientific standards and ethics.
 - Show a pro-active spirit.
- The good name of the Lab depends on you!

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Evaluation



- Based on the achievement of long and short-term goals.
- Will be conducted on a yearly basis; all of us, once a year, we need to look back and summarize what we have achieved.
- Most essential goal: the promotion of scientific research.
- Quality of Research and Scientific work judged by the output of research work as testified by:
 - Peer-reviewed publications in established journals/conferences.
 - Theses of a high-quality leading to scientific publications.
 - UCY Technical Reports and Project Deliverables.
 - Quality of Produced software and Services given to the community.

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Research Projects



- CrossGrid-Development of Grid Environment for Interactive Applications (IST-2001-32243)
<http://www.cs.ucy.ac.cy/crossgrid/>
- HERMES project (RPF, PENEK 23/2000)
<http://www.cs.ucy.ac.cy/eRACE/>
- EMISPHER project (EDUMEDIS): Euro-Mediterranean Internet-Satellite Platform for Health, medical Education and Research (EU)

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Research Projects



- APSIFAE (RPF) and EDIPED (Socrates/Comenius)
<http://www.apsifae.intercol.edu>
- Collaboration with: SEACORN: Simulation of Enhanced UMTS Access and Core Networks

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Research Networks

- APART: IST Working Group on Automatic Performance Analysis: Real Tools
<http://www.fz-juelich.de/apart/>
- ANWIRE: Academic Network for Wireless Internet Research in Europe
<http://www.anwire.org>

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Members

- George Tsouloupas, Research Associate
- Wei Xing, Research Associate
- Eleni Tsiakkouri, Special Scientist
- Christiana Christophi, Special Scientist
- Undergraduate Students:
 - Eleni Georgiou
 - Panickos Neofytou
 - Charis Militos



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Collaborations - Affiliates



- Prof. A. Pitsillides, UCY
- Prof. G. Samaras, UCY
- Prof A. Stassopoulou, Intercollege
- Prof. R. Sakellariou, U. Manchester
- Mr D. Zeinalipour, UC Riverside
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Organizational Planning



- Regular lunch-seminar on Distributed Systems and the Grid (bi-weekly or every three weeks).
- Regular (bi-weekly) meetings of the HPCL for the CrossGrid project.
- Meetings for other projects.



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Grid Seminar



- Goal: cover topics related to the Grid, CrossGrid, and Distributed Systems, via presentation of research papers from the literature by HPCL members, invitations to other faculty members of GS to present their work, discussions of HPCL work.
- Tentative list of topics exists.
- Need to assign topics to people and start it going.
- **Who is going to organize it?**



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CrossGrid Meetings


- Dedicated to CrossGrid.
- Discuss issues related to CrossGrid activities.
- Monitor progress and problem solving.
- Organizational issues:
 - Agenda
 - New and Pending Actions
 - Follow-ups
 - Distribution of responsibilities
- Organizer: M. Dikaiakos

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Future Activities

- Planning of CrossGrid meetings.
- End of September, CrossGrid workshop in Linz.
- Organizational issues for FP6.
- Early March 2003: HPCL to organize APART meeting in Nicosia, Cyprus.
- Grid day before or after the APART meeting.

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