



The Faculty of IT and the Monash e-Research Centre
are proud to present the following seminar - part of the
High Definition interactive video links of
MURPA Seminar Series 2010

Extending Rocks Clusters into Amazon EC2 Using Condor Presented by Dr Phil Papadopolous

Program Director, UC Computing Systems, UCSD and Program
Director SDSC

Biography: <http://www.messagelab.monash.edu.au/PhilPMURPA2010>

The open-source Rocks clustering toolkit (www.rocksclusters.org) enables users to easily build both simple and complex clusters that are made up of both heterogeneous function and hardware. We have enabled users to build clusters that have some or all of their components as Xen-based virtual machines. By treating Xen-based hardware as "just another brand of server", nearly all of the Rocks tools used on real hardware carry over into the virtual space.

When coupled with the 'Condor Roll', we are able to automatically extend local clusters into the Amazon cloud using Condor as the scheduling and load manager. Together the mechanisms allow users to rigorously define the contents of a virtual machine in EC2, while keeping job management and submission on a local head node. Essentially, the local cluster is temporarily extended into the cloud, but with the full set of software as required by the cluster owner.

Date: Friday 23 April
Time: 10am-11am
Location: Seminar Room 135, Building 26,
Clayton campus

Registration by 22 April: Rob.Gray@infotech.monash.edu.au

MURPA Seminar Series 2010

Monash Undergraduate Research Projects Abroad (MURPA) supports a unique summer mode placement in a leading research group overseas. It not only provides a research experience at the undergraduate level, but does this in an international context. Students are placed for a period of eight weeks allowing them to integrate into the research groups as team members.

MURPA also involves an advanced seminar scheme, in which students can attend seminars given by world leading experts before they leave. The seminar scheme is novel, because it uses a cutting edge High Definition interactive video links with the University of California - and often simultaneous links to Japan - making it feasible to attract some of the world's best researchers "virtually" to Monash. These seminars also allow students to "meet" potential UCSD mentors and obtain information about possible projects.

<https://messagelab.monash.edu.au/MURPA/MURPA2010>