Subject: CfP Workshops on Virtualization/XEN in HPC Cluster and Grid Computing
Environments (XHPC'07, VHPC'07
Posted by Michael Alexander on Wed, 13 Dec 2006 12:22:28 GMT

View Forum Message <> Reply to Message

Apologies if you received multiple copies of this message.

 == ===
CALL FOR PAPERS

Workshop on Virtualization/Xen in High-Performance Cluster
and Grid Computing (XHPC'07)

   as part of The 16th IEEE International Symposium on High
   Performance Distributed Computing (HPDC-16), June 27-29, 2007,
   Monterey, California.

  and

Workshop on Virtualization in High-Performance
Cluster and Grid Computing (VHPC'07)

   as part of The 13th International European Conference on Parallel
   and Distributed Computing (Euro-Par 2007), August 28-31, 2007,
   IRISA, Rennes, France.

 == ===

Date: June 27-29, 2007 and August 28-31, 2007

HPDC-16: http://www.isi.edu/hpdc2007/
Euro-Par 2007: http://europar2007.irisa.fr/
Workshop URL: http://xhpc.wu-wien.ac.at/

(due date for both: January 26, Abstracts Jan 12)

Scope:
Virtual machine monitors are reaching wide-spread adoption
in a variety of operating systems as well as scientific educational
and operational usage areas. With their low overhead, hypervisors
allows for concurrently running large numbers of virtual machines,

providing each encapsulation, isolation and in the case of Xen,
network-wide CPU migratability. VMMs offer a network-wide
abstraction layer of individual machine resources to OS environments,
thereby opening whole new cluster-and grid high-performance
computing (HPC) architectures and HPC services options. With VMMs
finding applications in HPC environments, these workshops aim to
bring together researchers and practitioners active on virtualization
in distributed and high-performance cluster and grid computing
environments.

The workshops will be one day in length, composed of 20 min paper
presentations, each followed by 10 min discussion sections.
Presentations may be accompanied with interactive demonstrations.
The workshop will end with a 30 min panel discussion by presenters.

TOPICS

Topics include, but are not limited to, the following subject matters:

  - Virtualization/Xen in cluster and grid environments
  - Workload characterizations for VM-based clusters
  - VM cluster and grid architectures
  - Linux Hypervisors
  - Cluster reliability, fault-tolerance, and security
  - Compute job entry and scheduling
  - Compute workload load leveling
  - Cluster and grid filesystems for VMs
  - VMMs, VMs and QoS guarantees
  - Research and education use cases
  - VM cluster distribution algorithms
  - MPI, PVM on virtual machines
  - System sizing
  - Hardware support for virtualization
  - High-speed interconnects in Xen/hypervisors
  - Hypervisor extensions and utilities for cluster and grid computing
  - Network architectures for VM-based clusters
  - VMMs/Hypervisors on large SMP machines
  - Performance models
  - Performance management and tuning hosts and guest VMs
  - VMM performance tuning on various load types
  - Xen/other VMM cluster/grid tools
  - Device access from VMs
  - Management, deployment of clusters and grid environments with VMs

PAPER SUBMISSION

Papers submitted to each workshop will be reviewed by at least two
members of the program committee and external reviewers. Submissions
should include abstract, key words, the e-mail address of the
corresponding author, and must not exceed 10 pages, including tables
and figures. Submission of a paper should be regarded as a
commitment that, should the paper be accepted, at least one of the
authors will register and attend the conference to present the work.
An award for best student paper will be given. Papers can only be
submitted for one workshop, but not both at the same time.

XHPC'07:

Accepted papers will be included in proceedings published by the
IEEE Computer Society Press.

The IEEE 8 1/2 x 11 CS format must be used. Submission can be in
either PDF or Postscript.

ftp://pubftp.computer.org/Press/Outgoing/proceedings/

VHPC'07:

Accepted papers will be included in proceedings published in the
Springer LNCS series.

The format must be according to the Springer LNCS Style and
preferably be in LaTeX or FrameMaker, although submissions
using the LNCS Word template are also possible. Initial
submissions are in PDF, accepted papers will be requested
to provided source files.

http://www.springer.de/comp/lncs/authors.html

Submission Link:
https://edas.info/newPaper.php?c=5189&submit=0&;
(add either XHPC: or VHPC: in the title of the paper to designate the
target workshop)

IMPORTANT DATES

January 12, 2007 - Abstract submissions due
Paper submission due: January 28, 2007
Acceptance notification: March 26, 2007
Camera-ready due: April 27, 2007 (XHPC), May 26, 2007 (VHPC)
Conference: June 27-29, 2007 (XHPC) and August 28-31, 2007 (VHPC)

CHAIR

Michael Alexander (chair), WU Vienna, Austria
Stephen Childs (co-chair), Trinity College, Dublin, Ireland

PROGRAM COMMITTEE

Jussara Almeida, Federal University of Minas Gerais, Brasil
Padmashree Apparao, Intel Corp., US
Hassan Barada, Etisalat University College, UAE
Volker Buege, University of Karlsruhe, Germany
Simon Crosby, Xensource, UK
Marc Fiuczynski, Princeton University, US
Rob Gardner, HP Labs, US
William Gardner, University of Guelph, Canada
Marcus Hardt, Forschungszentrum Karlsruhe, Germany
Klaus Ita, WU Wien, Germany
Sverre Jarp, CERN, Switzerland
Krishna Kant, Intel Corporation, US
Yves Kemp, University of Karlsruhe, Germany
Naoya Maruyama, Tokyo Institute of Technology, Japan
Jean-Marc Menaud, EMN-INRIA, France
Sonja Sewera, WU Wien, Austria
Peter Strazdins, Australian National University, Australia
Franco Travostino, Nortel, Canada
Andreas Unterkirchner, CERN, Switzerland

Dongyan Xu, Purdue University, US

GENERAL INFORMATION

The workshops will be held as part of HPDC-16 in Monterey, California
and Euro-Par 2007 in Rennes, France.

HPDC-16: http://www.isi.edu/hpdc2007/
Euro-Par 2007: http://europar2007.irisa.fr/

Best Regards,

Dr. Michael Alexander
WU Wien Dept. of Information Systems
malexand@wu-wien.ac.at / +43.1.31336.4467