PVM’95 Presentations and Papers

Tutorials

Introduction to PVM
Adam Beguelin, Carnegie Mellon University.

Advanced PVM Tutorial
Robert Manchek, University of Tennessee, and Jim Pruyne, University of Wisconsin.

Invited Speaker

Systems Issues
Professor Miron Livny, University of Wisconsin

Visualization and Tracing

Visualization in Cluster Environments with PGPVM,
Brad Topol, Vaidy Sunderam, John T. Stasko, Emory University.

Visualizing PVM Executions,
Thomas H. Kunz and David J. Taylor, University of Waterloo.
  ■ Postscript version of the paper.

Parallel Runtime Visualization,
Stephany Bouchier and Richard Barrett, Los Alamos National Laboratory.

A New Tracing Facility for PVM 3.4,
James Arthur Kohl and G. A. Geist, Oak Ridge National Laboratory.

Systems Issues

Interoperability and multi-threading for PVM,
L. V. Kale, University of Illinois.

Experience with Resource Management Services on an Opportunistic Cluster,
Jim Pruyne and Miron Livny, University of Wisconsin.

A Load Balancing Scheduler for PVM Tasks,
Jose Nagib Cotrim Arabe and Virgilio Augusto Fernandes Almeida, Universidade Federal de Minas Gerais.

PVM Implementations of Fx and Archimedes,
Peter Dinda, Carnegie Mellon University.

Parallelizing the GENESIS neural systems simulator,
Applications

A WAN Surgical Monitoring Application Built on PVM
  Don Krieger, Bob Simon, Terry Chay, Robert Scelabassi, University of Pittsburgh.

A Distributed Parallel Computing Model of Blood Oxygenation
  S. A. Williams, G. E. Fagg, P. C. H. Mitchell and K. P. Williams, University of Reading.
  ■ Postscript version of the paper.
  ■ Postscript version of the slides.

Parallel Image Registration in Functional Brain Imaging
  Thomas Nichols and Robert Orr, University of Pittsburgh Medical Center

Three-Dimensional Monte Carlo Semiconductor Device Simulation,
  Henry Sheng and Alberto Sangiovanni-Vincentelli, UC Berkeley.
  ■ Postscript version of the paper.

Distributed Algorithm for Three-dimensional Semiconductor Device Simulations,
  Mei-Kei Ieong and Ting-wei Tang, University of Massachusetts.

PVM for Advanced Distributed Interactive Simulation,
  Terry Purnell and Thomas Kendall, U.S. Army Research Laboratory.

Reconfigurability and Heterogeneity in Parallel Air Quality Modeling,

Using PVM to facilitate Biomedical Research,
  Alexander J. Ropelewski, Joseph Lappa and Michael Crowley, Pittsburgh Supercomputing Center.

Optimizing Molecular Dynamics Calculations on Parallel Computers,
  William Young, Pittsburgh Supercomputing Center.

PVM based Applications at LANL,
  Richard Barrett, John Baumgardner, Jeff Brown, Peter Bunge, John Cerutti, Kathy Holian,

Parallel CFD at Lewis Research Center: what worked and what didn’t,
  Kim Ciula, Sterling Software / NASA Lewis Research Center.

Group Services

Context, Name Service and Static Groups for PVM,
  Philip Papadopoulos, Robert Manchek, and Al Geist, Oak Ridge National Laboratory and University of Tennessee.
  ■ Postscript version of the slides.

Improved Group Services for PVM,
  G. E. Fagg, R.J. Loader, P. R. Minchinton and S. A. Williams, University of Reading.
  ■ Postscript version of the paper.
An interface compiler to enhance PVM for group communications,
G.A. Fagg and R.J. Loader, University of Reading.

Language Interfaces

An Extended Linda System using PVM,
George Wells and Alan Chalmers, University of Bristol.

PVM-Prolog: Parallel Logic Programming in the PVM System,
Rui F. Marques, Jose’ C. Cunha, Universidade Nova de Lisboa.

CL-PVM: A Common Lisp Interface to PVM,
Liwei Li and Paul S. Wang, Kent State University.

A Strategy for Programming in a Heterogeneous/Homogeneous Parallel Computer Environment,
Thomas Eidson, High Technology Corp.

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