

Invited Presentations

April 2007

2007

"Grids - Enabling 21st Century Science", Taipei, Taiwan, June 7 - 9, 2007.

"High-Performance Wide-Area Networks - the Foundation for Grids", HP-CAST, Karlsruhe, Germany, May 6 - 9, 2007

"Grids", Information Management Forum, Houston, January 24th, 2007

2006

"HPC - An International Perspective and New Challenges", KTH Computational Science and Engineering Annual Retreat, Lovik, Sweden, December 7 - 8, 2006.

"Experiences with Itanium Clusters in Grids", Gelato ICE Conference & Expo, Singapore, October 1 - 4, 2006

"Application Development and Execution on Grids", National Grid Singapore, Singapore, October 2, 2006.

"Research and Education with and in State-of-the-art Networking", LEARN, September 6, 2006.

"Algorithms and Data Structures for Scalable Concurrent Programs", PDC Summer School in High-Performance Computation, KTH, Stockholm, August 14, 2006.

"Grids and Medical Imaging", Institute for Biomedical Imaging Science Workshop, Kiawah Island, SC, August 10, 2006.

"The Baltic Grid", Opening address, Baltic Grid Summer School, Tartu, Estonia, July 4 - 8, 2006.

"Grids: Enabling 21st Century Science and Engineering", Keynote, Baltic Grid Summer School, Tartu, Estonia, July 4 - 8, 2006.

"Grids", HP-CCN Tutorial, Seoul, Korea, May 7, 2006.

"RENoH", HiPCAT, UT Health Science Center San Antonio, San Antonio, January 27, 2006.

2005

"Application Development and Execution on Grids", Electrical and Computer Engineering, LSU, Baton-Rouge, LA, December 14, 2005.

"21st Century Science and Engineering, and High-Performance Networking", Louisiana Optical Networking Initiative, Baton-Rouge, LA, December 13, 2005.

"Application Development and Execution on Grids", Cracow '05 Grid Workshop, Cracow, Poland, November 20 - 23, 2005.

"CCN Grid Collaborations", CCN Workshop, Seattle, November 12, 2005.

"Grids - Enabling 21st Century Science", Distinguished Lecture, Worcester Polytechnic Institute, Worcester, MA, October 7, 2005

"EMAN Performance Models. How accurate are they?", UCSD, September 12, 2005.

"Grids", Swedish National Infrastructure of Computing, September 5 - 6, 2005, Sastaholm.

"Algorithms and Data Structures for Scalable Concurrent Programs", PDC Summer School in High-Performance Computation, KTH, Stockholm, August 15, 2005.

"TLC² Research and Infrastructure Initiatives", University of Houston, August 11, 2005.

"Scheduling Strategies for Mapping Application Workflows on to Grids", Raleigh-Durham, NC, July 24 - 27, 2005.

"21st Century Science and Engineering, and High-Performance Networking", HP-CAST, Krakow, Poland, May 9 - 11, 2005.

"Introduction to Grid Computing", The National Graduate School of Scientific Computation, Linkoping University, Sweden, January 10, 2005.

"Grid Computing: Application Development", The National Graduate School of Scientific Computation, Linkoping University, Sweden, January 10, 2005.

2004

"TLC² Center Overview", 2nd THEGrid Workshop, Houston, October 15 - 16, 2004.

"Early 21st Century Technology and Application Overview", First Baltic Grid Workshop, Vilnius, Lithuania, October 5 - 7, 2004.

"Houston Research and Education Network consortium: Dark Fiber initiative", South East Texas GigaPoP, August 18, 2004.

"Algorithms and Data Structures for Scalable Concurrent Programs", KTH, Stockholm, August 17, 2004.

"STAC, SNIC's Strategic Technical Advisory Committee", SNIC Interaction, Stockholm, June 2 - 3, 2004.

"TLC² Mission, Facilities and Research", Engineering and Physical Sciences Research Council, Houston, April 7, 2004.

"The Evolving High-Performance Computing Space and UH", Research Day, University of Houston, April 2, 2004.

"21st Century Science and Engineering and High-Performance Networks", LEARN, Houston, March 10, 2004.

"Experiences with IA-64 Linux Clusters", LinuxWorld, New York, January 21 - 23, 2004.

2003

"Characterization of Application Behavior on IPF-Based Servers", HP Executive Forum, Grenoble, December 5, 2003.

"Grid Computing", Gelato Annual Meeting, Stockholm, October 26, 2003.

"Grid Computing Application Development", Baylor College of Medicine, Houston, September 26, 2003.

"Algorithms and Data Structures for Scalable Concurrent Programs", KTH, Stockholm, August 21, 2003.

"Grid Computing: Application Development", National Graduate School of Scientific Computing, Stockholm, August 19, 2003.

"Introduction to Grid Computing", National Graduate School of Scientific Computing, Stockholm, August 18, 2003.

"High-Performance Software for Scientific Simulations in Grid Environments: Adaptive Software Systems", Australian National University and Australian Partnership for Advanced Computing, Canberra, Australia, July 10, 2003.

"Grid deployment and support the NGC, EGSC and SweGrid initiatives", Australian National University and Australian Partnership for Advanced Computing, Canberra, Australia, July 10, 2003.

"High Performance Software for Scientific Simulations in Grid environments: Adaptive Software Systems", ICIAM 2003, Sydney, Australia, July 7 - 11, 2003

"TIGRE Applications and Technology candidate projects", HiPCAT, Austin, TX, June 30, 2003.

"Grid deployment and support the NGC, EGSC and SweGrid initiatives", The EU eInfrastructures Initiative: Towards integrated Networking and Grids infrastructures for eScience and beyond, Athens, June 12, 2003.

"Grids, Applications and Performance", Performance Workshop, Stockholm, May 27, 2003.

"Grids - Drivers (Applications) and Challenges", HP Enterprise Users Week, Amsterdam, May 20, 2003.

"Bio-Imaging", Rice University, Houston, May 7 - 8, 2003.

"Grid Research at PDC", Swedish Institute for Computer Science, Stockholm, April 11, 2003.

"Unleashing the Power of Processing", KTH, Stockholm, April 10, 2003.

"STAC: SNIC's Strategic Technology Advisory Committee", SweGrid, Uppsala, April 9, 2003.

"Research in High-Performance Grid Software", The Swedish Research Council's Grid Research Kick-off Meeting, March 11, 2003.

"Simulation Science in Grid Environments: Integrated Adaptive Software Systems", Hayama, Japan, March 4 - 7, 2003.

"Adaptive Scientific Software Libraries", Los Alamos Computer Science Institute, Los Alamos, NM, February 26, 2003.

"TLC² Infrastructure Efforts and Grid Esearch", Texas Learning and Computation Center Bioimaging Initiative, Houston, TX, February 18, 2003.

"The European Grid Support Center: Mission and Plans", Abingdon, UK, February 10 - 11, 2003

2002

"Algorithms and Data Structures for Scalable Concurrent Programs", KTH, Stockholm, August 26, 2002.

"Adaptive Scientific Software Libraries", SANS Summit, Knoxville, TN, August 7 - 8, 2002.

"The Texas Learning and Computation Center", College of Engineering, University of Houston, July 12, 2002.

"Computational and Information Grids - An Approach to Code Portability", Institute of Computer Science, Foundation of Research, Hellas, Crete, July 4, 2002.

"Grids: Next Generation Infrastructure for Research, Education and Commerce", Swedish Ministry of Education, Stockholm, May 27, 2002.

"The Nordic Grid Consortium", NorduGrid, Helsinki, May 23 - 24, 2002.

"Texas Learning and Computation Center: Grid Research", University of Houston Board Meeting, April 30, 2002.

"Grid: Projects, Ambitions and Challenges", Notur, Bergen, April 25 - 26, 2002.

"The Nordic Grid Consortium", the 2002 NorduNet Conference, Copenhagen, April 15 - 17, 2002.

"Simulation and Analysis without bounds - Enabling Technologies", Shell Conference, The Woodlands, TX, April 10, 2002.

"Application and Platform Adaptive Scientific Software", NCSA, Urbana/Champaign, March 14, 2002.

"Data and Computation Grids", The Texas Telecommunications Infrastructure Fund, Houston, TX, March 1, 2002.

"Grid Computing", The Swedish Research Council, Stockholm, February 8, 2002.

"Grid Projects", The Swedish Research Council, Stockholm, February 8, 2002.

"Grid Projects", Center for Scientific Computing, Helsinki, February 4, 2002.

"Computing: The Next Decade", Keck Center for Computational Biology, Houston, TX, February 1, 2002.

"Computing: The Next Decade", Texas Learning and Computation Center, Bioimage Research Group, January 24, 2002.

2001

"PDC, Grids and Open Source Software", The European Commission, Brussels, December 17, 2001.

"Computational Grids and HPC - The Ultimate Environment for code portability and adaptivity", Rensselaer Polytechnic Institute, Albany, NY, November 20, 2001.

"Computational Grids and HPC - The Ultimate Environment for code portability and adaptivity", NEC Research Institute, Princeton, NJ, November 19, 2001.

"Computing: The Next Decade", Baylor College of Medicine, Structural Computational Biology and Molecular Biophysics, November 16, 2001.

"Adaptive High Performance Numerical Components: A design and implementation methodology", Los Alamos Computer Science Institute, Santa Fe, NM, October 15, 2001.

"Computational Science in the 21st Century", Royal Institute of Technology, Stockholm, Sweden, August 20 - 31, 2001.

"Parallel Algorithms", PDC Summer School in High Performance Computation, Royal Institute of Technology, Stockholm, August 20 - 31, 2001.

"GrADS: Grid Application Development Software", University of Texas, Austin, July 24, 2001.

"GrADS: Grid Application Development Software", 15th ACM International Conference on Supercomputing, Sorrento, Italy, June 16 - 21, 2001.

"Grid Application Development - The Ultimate Challenge for Code Portability and Adaptivity", Dagstuhl Seminar "Management of Metacomputers", Dagstuhl, Germany, June 10 - 15, 2001.

“Computational Grids and High-Performance Computation: The ultimate environment for code portability and adaptivity”, University of Southern California, Los Angeles, March 30, 2001.

“Computational Grids and High-Performance Computation: The ultimate environment for code portability and adaptivity”, the Mardi Gras 2001 Conference, Baton Rouge, LA, February 22 - 24, 2001.

“Computational and Information Grids - A US Perspective”, The Swedish Research Council, Stockholm, Sweden, February 15, 2001.

“The KTH Linux Laboratory: An Open Source Development Laboratory”, Royal Institute of Technology, Stockholm, February 13, 2001.

“Computational Grids and High-Performance Computation: The ultimate environment for code portability and adaptivity”, University of Chicago, Chicago, February 5, 2001.

“Computational Grids and High-Performance Computation: The ultimate environment for code portability and adaptivity”, University of Illinois at Chicago, Chicago, January 29, 2001.

2000

”Education in Computational Science and Engineering: What Must be Done?”, Arcade 2000, Bergen, Norway, November 27 - 28, 2000.

“Parallel Algorithms”, PDC Summer School in High Performance Computation, Royal Institute of Technology, Stockholm, August 21 – September 1, 2000.

”GEMSViz”, iGrid2002, Yokohama, July 18 - 21, 2000.

“SimDB: A Problem Solving Environment for Molecular Dynamics Simulation and Analysis”, First European Grid Forum, Poznan, Poland, April 11 - 13, 2000.

1999

“Two Decades of Parallel Computation”, PDC Ten Year Anniversary, Stockholm, October 18, 1999.

“Fast Spherical and Fourier Transforms on Parallel Computers”, Differential Equations and Their Applications, Symposium in Honor of Dr J.L. Lions, Houston, October 7 – 9, 1999.

“Fast Spherical and Fourier Transforms on Parallel Computers”, Los Alamos National Laboratories, Los Alamos, September 24, 1999.

“Parallel Algorithms”, PDC Summer School in High Performance Computation, Royal Institute of Technology, Stockholm, August 16 – 27, 1999.

“Fast (Parallel) Algorithms for Spherical Transforms and Many-body interactions with Applications in Electrostatics, Image processing and Chemistry”, AFOSR Program Review Symposium, St Louis, Missouri, August 9 – 12, 1999.

“Component Library Design”, The Los Alamos Computer Science Institute, Santa Fe, New Mexico, June 6 – 8, 1999.

“Technology, Networking and Infrastructure”, EUROTEX, Dallas, Texas, April 14 - 15, 1999.

“Problem Solving Environments for Large-Scale Simulations”, NPACI High-End Data Base workshop, San Diego, April 7 – 9, 1999.

“Problem Solving Environments for Large-Scale Simulations”, NPACI Annual Review, San Diego, CA, January 28 – 29, 1999.

1998

“Fast Evaluation of Electrostatic Forces in Molecular Dynamics”, Common High Performance Scientific Software Initiative (CHSSI) Program Review, Bolling Air Force Base, Washington D.C., December 13 – 15, 1998.

“The UHFFT package”, Alliance Workshop, Rice University, Houston, TX, December 10 – 11, 1998.

“Learner–Centered Multimedia Explorations for the New Millennium”, UH Eighth Annual Scholarship and Community Conference, University of Houston, Houston, TX, October 7, 1998.

“US Opportunities: The Partnerships for Advanced Computational Infrastructure and Internet2”, Cluster and Distributed Computing Workshop, Stockholm, September 24 – 25, 1998.

“Some Early Experiences with Globus and MPI Codes”, Workshop on Clusters and Computational Grids for Scientific Computing, Blackberry Farm, Tennessee, September 2 – 4, 1998.

“Parallel Algorithms”, PDC Summer School in High Performance Computation, Royal Institute of Technology, Stockholm, August 17 – 28, 1998.

“An Efficient MPI Implementation of a High–Order CEM Algorithm”, Computational and Mathematical Physics, Wright-Patterson Air Force Base, Dayton, Ohio, July 19 – 22, 1998.

“High Performance Fortran: What’s Next?”, HPF Users Group, O’Porto, Portugal, June 24 – 26, 1998.

“Using HPF for Irregular Problems”, Technical University of Vienna, Vienna, Austria, June 23, 1998.

“Adaptive $O(N)$ N -body Simulations”, PET/CHSSI Workshop on Computational Chemistry and Material Science, Aberdeen, Maryland, June 8 – 10, 1998.

“The Texas Center for Computational and Information Sciences”, Allied Geophysical Laboratories Annual Progress Review, Houston, April 9, 1998.

“Molecular Dynamics Trajectory Databases”, NSF Workshop on Interfaces to Scientific Data Archives, Caltech, March 24 - 27, 1998.

“Scientific Supercomputing: Making high-performance parallel computers deliver on their promise of high performance”, seminar, Department of Mechanical Engineering, University of Houston, March 5, 1998.

“Computational Science and Engineering and Technology Exponentials”, KDI workshop, Rice University, March 2, 1998.

1997

”Adaptive Order(N) N -body Simulations in HPF”, (with Charlie Hu and Shang-Hua Teng), SC97 Tutorial on ”High Performance Fortran – Practice and Experience”, Nov 16, 1997, San Jose, CA.

“Parallel Algorithms”, Lecture Series at the PDC Summer School *Introduction to High Performance Computing*, Stockholm, Sweden, August 18 – 29, 1997.

“Load–Balance for Irregular Computations on Scalable Architectures”, The National High-Performance Parallel Computing Center, The Royal Institute of Technology, Stockholm, Sweden, June 19, 1997.

“Techniques for High–Performance Scientific Computation”, The National High-Performance Parallel Computing Center, The Royal Institute of Technology, Stockholm, Sweden, June 18, 1997.

“ROMM Routing: An Efficient Routing Technique for Scalable Computer Architectures”, Purdue University, West Lafayette, Indiana, June 9, 1997.

“On the Accuracy of Multipole–like Methods for Electrostatic Fields”, Computational Science for the 21st Century, Tours, France, May 5 - 7, 1997.

“A Data–Parallel Adaptive $O(N)$ N -body Method”, with Yu Hu and Shang-Hua Teng, Eighth SIAM

Conference on Parallel Processing for Scientific Computing, Minneapolis, Minnesota, March 1997.

“Adaptive N-body Simulations in High Performance Fortran”, with Yu Hu and Shang-Hua Teng, HPF Users Group Meeting, Santa Fe, New Mexico, February 24 - 26, 1997.

1996

“DPF: A Data Parallel Fortran Benchmark Suite”, Software for Parallel Computers, Center for Parallel Computers, The Royal Institute of Technology, Stockholm, Sweden, December 16 - 17, 1996.

“Computational Electromagnetics on Scalable Architectures”, Panel on Computational Electromagnetics in the DOD Modernization Program, Supercomputing '96, Pittsburg, November 18 - 22, 1996.

“Parallel Multipole N-body Algorithms”, Department of Mathematics, University of Houston, Houston, November 13, 1996.

“ROMM Routing”, Texas Instruments, Houston, October 1, 1996.

“Data Parallel (HPF) Hierarchical N-body Algorithms”, IMA Workshop, *Algorithms for Parallel Processing*, University of Minnesota, Minneapolis, September 16 - 20, 1996.

“Computational Science”, W.M. Keck Center for Computational Biology, *Keck Annual Retreat*, Galveston, Texas, September 13, 1996.

“Parallel Hierarchical N-body Algorithms”, DOD CHSSI Workshop on *Computational Chemistry and Material Science*, September 3 - 5, 1996.

“Parallel Algorithms”, Lecture Series at the PDC Summer School *Introduction to High Performance Computing*, Stockholm, Sweden, August 19 - 30, 1996.

“Network Related Performance Issues and Techniques for MPPs”, *Optoelectronic Interconnect and Packaging, SPIE International Symposium on Lasers and Integrated Optoelectronics*, San Jose, January 27 - February 2, 1996.

1995

“Data Partitioning for Load-Balance and Communication Bandwidth Preservation”, *The Second International Conference on Massively Parallel Processing and Optical Interconnections*, San Antonio, Texas, October 23 - 24, 1995.

“Structured Linear Algebra Software on Scalable Architectures”, *International Congress on Industrial and Applied Mathematics*, Hamburg Germany, July 3 - 7, 1995.

“On the Accuracy of Fast N-body Algorithms”, AFOSR PI-meeting, Phillips Laboratory, Kirtland Air Force Base, Albuquerque, New Mexico, June 28 - 30, 1995.

“A Stencil Compiler for the Connection Machine Model CM-5”, *5th Workshop on Compilers for Parallel Computers*, Malaga, Spain, June 28 - 30, 1995.

“Implementing $O(N)$ N-body Algorithms Efficiently in Data Parallel Languages (High Performance Fortran)”, Los Alamos National Laboratories, Los Alamos, New Mexico, June 15, 1995.

“On the Error in Anderson’s Fast N-body Algorithm”, The Royal Institute of Technology, May 30, 1995, Stockholm, Sweden.

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, Michigan State University, East Lansing, March 16 - 17, 1995.

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, the *Mardi*

Gras Conference on High Performance Computing Technologies, Baton Rouge, Louisiana, February 23 - 25, 1995.

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, the Institute for Computer Science, Linköping University, Linköping, Sweden, January 10, 1995.

1994

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, the *Parallel Computation Center Annual Symposium*, the Royal Institute of Technology, Stockholm, Sweden, December 15 - 16, 1994.

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, Northwestern University, Evanston, Illinois, December 7, 1994.

“ROMM Routing: A Class of Efficient Minimal Routing Algorithms”, Applied Mathematics Seminar series, California Institute of Technology, Pasadena, California, December 1, 1994.

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, Center for Research in Parallel Computation, California Institute of Technology, Pasadena, California, November 30, 1994.

“Scientific Supercomputing: Making MPP’s deliver on their performance”, *Computacion Cientifica en Paralelo*, Mexico City, Mexico, October 27 - 28, 1994.

“Implementing $O(N)$ N-body algorithms efficiently in data parallel languages (High Performance Fortran)”, *DIMACS Third Annual Implementation Challenge Workshop*, DIMACS, Rutgers University, New Brunswick, New Jersey, October 17 - 18, 1994.

“Scientific Supercomputing: Making MPP’s deliver on their promise of high performance”, *ICASE NASA Langley Industry Roundtable*, Williamsburgh, Virginia, October 3 - 4, 1994.

“Parallel Hierarchical N-Body Algorithms for Long Range Forces”, AFOSR Workshop on *Large Scale Simulations in Chemistry/Material Science*, September 12 - 13, Dayton, Ohio, 1994.

“ROMM Routing: A Class of Efficient Minimal Routing Algorithms”, NEC Research Institute, August 5, Princeton, New Jersey, 1994.

“Load-Balanced LU and QR Factor and Solve Routines for Scalable Processors with Scalable I/O”, 14th IMACS World Congress, *Parallel Linear Algebra*, July 11 - 15, Atlanta, Georgia, 1994.

“High Performance Computing: Scalable Libraries, Scalable Applications”, 14th IMACS World Congress, *Parallel Linear Algebra*, July 11 - 15, Atlanta, Georgia, 1994.

“Scalable Scientific Software Libraries”, Workshop on *Parallel Scientific Computing*, UNI-C, Lyngby, Denmark, June 20 - 23, 1994.

“Scientific Supercomputing: Making MPPs deliver on their promise of high performance”, the University of Houston, Houston, Texas, May 26, 1994.

“ROMM Routing: A Class of Efficient Minimal Routing Algorithms”, *Parallel Computer Routing and Communication Workshop*, University of Washington, Seattle, Washington, May 16 - 18, 1994.

“Data Motion in High Performance Computing”, First International Workshop on *Massively Parallel Processing Using Optical Interconnections*, Cancun, Mexico, April 26 - 27, 1994.

“Scientific Computation on Scalable Architectures”, *TIMS ORSA Joint National Meeting*, Boston, Massachusetts, April 24 - 27, 1994.

”Data Parallel Finite Element Techniques for Compressible Flow Problems”, (with Zdenek Johan, Kapil

K. Mathur, and Thomas J.R. Hughes), *Proceedings of the Parallel Computational Fluid Dynamics 1994 Workshop*, Tokyo, March 1994.

“Performance of the Connection Machine System CM-5”, *ARPA High Performance Computing and Communications Symposium*, Alexandria, Virginia, March 15 – 18 1994.

“Scientific Libraries on Scalable Architectures”, Conference on *Teraflop Computing*, Baton Rouge, Louisiana, February 10 – 12, 1994.

“Locality in High Performance Parallel Computing”, DIMACS Workshop on *Organizing and Moving Data in Parallel Computers*, Princeton, New Jersey, January 26 – 28, 1994.

“The Connection Machine System CM-5”, the University of Tennessee, Tennessee, January 19, 1994.

1993

“Scientific Libraries on Scalable Architectures”, Workshop on *Parallel Scientific Computation*, Stockholm, Sweden, December 15 – 17, 1993.

“A Stencil Compiler for the Connection Machine Models CM-2/200”, Fourth International Workshop on *Compilers for Parallel Computers*, Delft, The Netherlands, December 13–16, 1993.

“Scientific Libraries on Scalable Architectures”, Cornell University, Ithaca, New York, November 29, 1993.

“Scientific Libraries on Scalable Architectures”, University of Maryland, College Park, Maryland, November 18, 1993.

“Scientific Libraries on Scalable Architectures”, Bellcore, Morristown, New Jersey, November 9, 1993.

“Scientific Libraries on Scalable Architectures”, Los Alamos National Laboratories, Los Alamos, New Mexico, October 29, 1993.

“Scalability of Finite Element Applications on Distributed-Memory Parallel Computers”, (with Zdenek Johan and Kapil K. Mathur and S. Lennart Johnsson and Thomas J.R. Hughes), Presented at the *Symposium on Parallel Finite Element Computations*, Minneapolis, Minnesota, October, 1993.

“Scientific Libraries on Scalable Architectures”, CERN, Geneva, Switzerland, October 14, 1993.

“The CMSL”, *Second European Connection Machine Users Group Conference*, Paris, France, October 13, 1993.

“Scientific Libraries on Scalable Architectures”, *Scalable Parallel Libraries Conference*, Mississippi State University, Starkville, Mississippi, October 6 – 8, 1993.

“Scientific Libraries on Scalable Architectures”, ARPA HPCC Semiannual meeting, San Diego, California, September 28 – 29, 1993.

“Finite Element Techniques for Computational Fluid Dynamics on the Connection Machine CM-5 System”, with Z. Johan, K.K. Mathur, S.L. Johnsson and T.J.R. Hughes, the *Second US Congress on Computational Mechanics*, Washington D.C., August 1993.

“Scientific Libraries on Scalable Architectures”, Workshop on *Portability and Performance for Parallel Processing*, Southampton, Hampshire, England, July 13 – 15, 1993.

“The Connection Machine System CM-5”, *SPAA-93*, Sport Schloss Velen, Germany, June 30 – July 2, 1993.

“Scalable Scientific Libraries”, Workshop on *Production of High Quality Parallel Libraries*, University of Vienna, Vienna, Austria, June 21 – 24, 1993.

“Massively Parallel Computing: Unstructured Finite Element Simulations”, *NAFEMS 4th International Conference on Quality Assurance and Standards in Finite Element and Associated Technologies*, Brighton, England, May 26 – 28, 1993.

“Experiences with Scalable High Performance Computing”, Workshop on the *Prospects for Parallel Computation for Dislocation Dynamics*, Washington D.C, May 24 – 25, 1993.

“Massively Parallel Computing”, *AFOSR Workshop on Computational Mathematics*, St. Louis, Missouri, May 20 – 21, 1993.

“Software Technologies for Massively Parallel Processing”, *Keynote Address*, Sigmetrics-93, Santa Clara, California, May 10 – 14, 1993.

“Massively Parallel Computing”, Workshop on *Grand Challenge Applications and Software Technologies*, May 4 – 7, Pittsburgh, Pennsylvania, 1993.

“Massively Parallel Computing”, Workshop on *Future Directions for Parallel Optimization*, April 30 – May 1, New Brunswick, New Jersey, 1993.

“Mathematical Software Libraries for HPF”, *ARPA/CSTO High Performance Software Meeting*, Norfolk, Virginia, March 16 – 18, 1993.

“Scalable Scientific Software Libraries: Algorithms and Software Technologies”, *Distinguished Lecturer*, Ohio State University, Columbus, Ohio, March 10 1993.

“Scalable Scientific Software Libraries: Algorithms and Software Technologies”, *MIT Supercomputing Seminar Series*, Cambridge, Massachusetts, January 20, 1993.

“Scalable Parallel Libraries for the Solution of Partial Differential Equations”, *First PanAmerican Workshop for Applied and Computational Mathematics*, Caracas, Venezuela, January 10 – 15, 1993.

1992

“Massively Parallel Computing”, *AFOSR Workshop on Computational Electromagnetics*, Hanscom Air Force Base, Massachusetts, December 3 – 4, 1992.

“Efficient Massively Parallel Supercomputing”, The Fifth ECMWF Workshop on the *Use of Parallel Computers in Meteorology*, Reading, England, November 23 – 27, 1992.

“Scalable Scientific Libraries”, First International Heinz Nixdorf Symposium on *Parallel Architectures and their Efficient Use*, Paderborn, Germany, November 11 – 13, 1992.

“Techniques for High Performance Scientific Computing”, Second Symposium on the *Frontiers of Massively Parallel Computation*, Fairfax, Virginia, October 10 – 12, 1992.

“Scalable Parallel Libraries and the Connection Machine system CM-5”, Rensselaer Polytechnique Institute, Troy, New York, September 10, 1992.

“Techniques for High Performance Scientific Computing”, *Parallel Aspects of Numerical Linear Algebra*, Lyngby, Denmark August 24 – 25, 1992.

“Scientific Libraries for Scalable Architectures”, IBM Workshop on *Scientific Libraries for Parallel Architectures*, Oberlech, Austria, July 12 – 18, 1992.

“Run-Time system support for distributed memory machine compilers”, Third Workshop on *Compilers for Parallel Computers*, Vienna, Austria, July 6 – 8, 1992.

“Computational Fluid Dynamics on Massively Parallel Architectures”, 2nd International Conference on *Spectral and High Order Methods*, Montpellier, France, June 22 – 26, 1992.

“Scientific Libraries for Scalable Architectures”, 7th IMACS Conference on *Computer Methods for PDEs*,

New Brunswick, New Jersey, June 22 – 24, 1992.

“A Data Parallel Finite Element Method for CFD on the Connection Machine Systems”, *Parallel CFD '92, Implementation and Results Using Parallel Computers*, Rutgers University, New Brunswick, New Jersey, May 18 – 20, 1992.

“Massively Parallel Computing: Numerical and Computer Science issues”, The ONR Workshop on *Domain-Specific Parallelism; CS, NA, Physics*, Los Angeles, California, May 14 – 15, 1992.

“Communication primitives and their implementation for distributed memory architectures”, *Standards for Message Passing in a Distributed Memory Environment*, Williamsburg, Virginia, April 29 – 30, 1992.

“Mathematical Software”, NASA Workshop on *Systems Software and Tools for High Performance Computing Environments*, Pasadena, California, April 14 – 16, 1992.

“Electronic Parallel Architectures”, AFOSR and NSF Workshop on *Reconfigurable Free-Space Optical Interconnect*, Boulder, Colorado, March 11 – 13, 1992.

“Massively Parallel Computing: MIMD vs. Data Parallel”, *Compcon 92*, San Francisco, California, February 24 – 28, 1992.

“Algorithms and Software Techniques for Scientific Applications on Scalable Architectures”, Workshop on *Parallel Computing for 3D Plasma Simulation*, Albuquerque, New Mexico, January 15 – 17, 1992.

1991

“Scientific Libraries for Scalable Architectures”, The Danish Institute of Technology, Lyngby, Denmark, December 19th, 1991.

“How can Models Promote Main Stream Parallelism”, Panel, The Third *IEEE Symposium on Parallel and Distributed Processing*, Dallas, Texas, December 5, 1991.

“Scientific Libraries for Scalable Architectures”, *2nd BLACS Workshop*, Cornell University, Ithaca, New York, October 14 – 15, 1991.

“Scientific Libraries for Scalable Architectures”, Distinguished Lecturer, *the Minnesota Supercomputer Institute*, University of Minnesota, Minneapolis, Minnesota, October 2, 1991.

“Techniques for Efficient Data Motion in Large Scale Distributed Memory Systems”, Workshop on *Interconnection Networks*, Marseille, France, July 15 – 19, 1991.

“Performance Modeling of Distributed Memory Architectures”, Workshop on *Conceptual Models of Parallel Scientific Computation*, Seattle, Washington, June 27 – 29, 1991.

“Language and Compiler Issues in Building Scalable High Performance Scientific Libraries”, NSF–NCRD Workshop on *Advanced Compilation Techniques for Novel Architectures*, Kiryat–Anavim, Israel, May 27 – 30, 1991.

“Data Parallel Programming: Programming Primitives and Performance”, Tutorial at the Symposium on *Principles and Practices of Parallel Programming*, PPOPP91, Williamsburg, Virginia, April 21 1991.

“Communication in Distributed Memory Architectures”, workshop on *Basic Linear Algebra Communication Subroutines*, Houston, Texas, March 28, 1991.

“Making Fortran 90 work fast”, Workshop on *DARPA/ISTO Software PI Meeting*, Warwick, Rhode Island, February 26 – 29, 1991.

“Communication Primitives for Distributed Data Structures”, Workshop on *Global Climate Modeling*, the National Center for Atmospheric Research, Boulder, Colorado, January 9 – 10, 1991.

1990

“Software Libraries for Scalable Supercomputers”, workshop on *Reliable Large Scale Scientific Computation*, Rensselaer Polytechnic Institute, Troy, New York, December 11 – 12, 1990.

“Software Libraries for Data Parallel Languages”, Workshop on *Parallel Processors in Meteorology*, Reading, England, November 26 – 30, 1990.

“The Connection Machine Scientific Software Library”, Los Alamos National Laboratories, Los Alamos, New Mexico, November 16, 1990.

“Scientific Supercomputing and Computer Science in the 1990’s”, Harvard University, Cambridge, Massachusetts, November 8, 1990.

“Scientific Applications on Data Parallel Architectures: Techniques for High Performance”, Princeton University, Princeton, New Jersey, November 5, 1990.

“Communication Libraries”, Workshop on *Scalable Parallel Libraries*, Oak Ridge National Laboratories, Oak Ridge, Tennessee, September 6 – 7, 1990.

“Obstacles to the Development of Parallel Libraries”, Workshop on *Scalable Parallel Libraries*, Oak Ridge National Libraries, Oak Ridge, Tennessee, September 6 – 7, 1990.

“Linear Algebra on Data Parallel Architectures” *The Northeast Parallel Architectures Center Summer Institute*, Syracuse University, Syracuse, New York, July 25, 1990.

“The Connection Machine Scientific Software Library”, *The Northeast Parallel Architectures Center Summer Institute*, Syracuse University, Syracuse, New York, July 25, 1990.

“Issues in the design of a Scientific Library”, *Householder Symposium XI*, Tylösand, Sweden, June 18-22, 1990.

“Basic Array Operations” *Householder Symposium XI*, Tylösand, Sweden, June 18-22, 1990.

“The Symmetric Eigenproblem” *Householder Symposium XI*, Tylösand, Sweden, June 18-22, 1990.

“Implementation on the Connection Machine – Experiences” *Householder Symposium XI*, Tylösand, Sweden, June 18-22, 1990.

“Teraflop computation: Distributed and Shared Memory”, Workshop on Acceleration Algorithms, Boston University, Boston, Massachusetts, April 13, 1990.

“Connection Machine Applications”, The Royal Institute of Technology, Stockholm, Sweden, January, 1990.

1989

“Data Parallel Supercomputing”, Cornell University, Ithaca, New York, October 26, 1989.

“Data Parallel Supercomputing”, Argonne National Laboratories, Mathematical and Computational Sciences Division, October 3, 1989.

“Graph Embeddings on Hypercubes”, University of Chicago, Department of Computer Science, October 2, 1989.

“Graph Embeddings on Hypercubes”, NEC Research Institute, Princeton, September 25, 1989.

“Data Parallel Supercomputing”, Amoco Research, Tulsa, September 21, 1989.

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