Bibliography

Bruno Achauer. The DOWL distributed object–oriented language. *Communications of the ACM*, 36(9):48–55, September 1993.

Lars Ole Andersen. *Program Analysis and Specialization for the C Programming Language*. PhD thesis, DIKU, University of Copenhagen, May 1994.

Gabriel Antoniu, Luc Bougé, Philip Hatcher, Mark MacBeth, Keith McGuigan, and Raymond Namyst. Compiling multithreaded Java bytecode for distributed execution. In *Proc. EuroPar 2000*, Munich, Germany, August 2000.

Yaviv Aridor, Michael Factor, and Avi Teperman. cJVM: a single system image of a JVM on a cluster. In *Proc. IEEE International Conference on Parallel Processing (ICPP '99)*, 1999.

Yaviv Aridor, Michael Factor, Avi Teperman, Tamar Eilam, and Assaf Schuster. A high performance cluster JVM presenting a pure single system image. In *Proc. ACM JavaGrande 2000*, San Francisco, California, June 2000.

Mark Baker, Bryan Carpenter, Geoffrey Fox, Sung Hoon Ko, and Sang Lim. mpiJava: An object-oriented Java interface to MPI. In *International Workshop on Java for Parallel and Distributed Computing, IPPS/SPDP 1999*, San Juan, Puerto Rico, April 1999.

Henri E. Bal, Raoul Bhoedjang, Rutger Hofman, Ceriel Jacobs, Koen Langendoen, Tim Rühl, and M. Frans Kaashoek. Performance evaluation of the Orca shared-object system. *ACM Transactions on Computer Systems*, 16(1):1–40, February 1998.

Henri E. Bal and M. Frans Kaashoek. Object distribution in Orca using compile-time and run-time techniques. In *Proc. OOPSLA '93*, pages 162–177, 1993.

John K. Bennett. The design and implementation of Distributed Smalltalk. In *Proc. OOPSLA '87*, volume 22 of *SIGPLAN Notices*, pages 318–330, 1987. Also available as Technical Report 87-04-02, University of Washington, Seattle, April 1987.

Andrew D. Birrell and Bruce Jay Nelson. Implementing remote procedure calls. *ACM Trans. CS*, 2(1):39–59, February 1984.

Boris Bokowski and André Spiegel. Barat – A front-end for Java. Technical Report TR B-98-09, Freie Universität Berlin, December 1998.

Jean-Pierre Briot, Rachid Guerraoui, and Klaus-Peter Löhr. Concurrency and distribution in object–oriented programming. *ACM Computing Surveys*, 30(3):291–329, September 1998.

Gerald Brose. Jacorb: Implementation and design of a Java ORB. In *Proc. DAIS '97*, Cottbus, Germany, September 1997.

Gerald Brose. Java & CORBA – how close are they really? *Java Developers' Journal*, 3(1), January 1998.

Gerald Brose, Klaus-Peter Löhr, and André Spiegel. Java does not distribute. In *Proc. TOOLS Pacific '97*, Melbourne, Australia, November 1997.

Miriam Busch. Adding dynamic object migration to the distributing compiler Pangaea. Master's thesis, Freie Universität Berlin, September 2001.

Denis Caromel. Towards a method of object-oriented concurrent programming. *Communications of the ACM*, 36(9):90–102, September 1993.

Denis Caromel, Fabrice Belloncle, and Yves Roudier. *The C++// System.* MIT Press, 1996.

Denis Caromel, Wilfried Klauser, and Julien Vayssière. Towards seamless computing and metacomputing in Java. *Concurrency Practice and Experience*, 10(11–13):1043–1061, 1998.

David R. Chase, Mark Wegman, and F. Kenneth Zadeck. Analysis of pointers and structures. In *Proc. Programming Language Design and Implementation, PLDI '90*, pages 296–310. ACM, June 1990.

Ramkrishna Chatterjee, Barbara G. Ryder, and William A. Landi. Relevant context inference. In *Proc. 26th Symposium on Principles of Programming Languages, POPL '99.* ACM, January 1999.

James C. Corbett. Constructing compact models of concurrent Java programs. In *Proc. ACM SIGSOFT Symposium on Software Testing and Analysis*, pages 1–10, 1998.

Markus Dahm. Doorastha: a step towards distribution transparency. In *Proc. Net.ObjectDays 2000, Erfurt*, October 2000a.

Markus Dahm. The Doorastha System. Technical Report TR-B-00-01, Freie Universität Berlin, May 2000b.

Ralf Diekmann, Burkhard Monien, and Robert Preis. Using helpful sets to improve graph bisections. Technical Report tr-rf-94-008, Dept. of Computer Science, University of Paderborn, June 1994.

Sophia Drossopoulou and Susan Eisenbach. Java is type safe – probably. In *Proc. 11th European Conference on Object-Oriented Programming (ECOOP '97)*, jun 1997.

J. T. Feo, editor. *A Comparative Study of Parallel Programming Languages: The Salishan Problems*, volume 6 of *Special Topics in Supercomputing.* North-Holland, Amsterdam, The Netherlands, 1992.

Sabine Finke, Peter Jahn, Olaf Langmack, Klaus-Peter Löhr, Irina Piens, and Thomas Wolff. Distribution and inheritance in the HERON approach to heterogeneous computing. In *Proc. 13 th International Conf. on Distributed Computing Systems*, pages 399–408. IEEE, 1993.

Erich Gamma, Richard Helm, Ralph Johnson, and John Vlissides. *Design Patterns: Elements of Reusable Object-Oriented Software.* Addison-Wesley, 1995.

G.A. Geist and V.S. Sunderam. Network-based concurrent computing on the PVM system. *Concurrency: Practice & Experience*, 4(4):293–311, January 1992.

G.A. Geist and V.S. Sunderam. The evolution of the PVM concurrent computing system. In *IEEE Comput. Soc. Intl. Conf. (COMPCON)*, pages 549–557, feb 1993.

Rakesh Ghiya and Laurie J. Hendren. Putting pointer analysis to work. In *Proc. Symp. on Principles of Programming Languages (POPL '98)*, pages 121–133, San Diego, CA, January 1998.

Joseph Gil and Alon Itai. The complexity of type analysis of object oriented programs. In *Proc. ECOOP '98*, number 1445 in LNCS, pages 601–634. Springer, July 1998.

Adele Goldberg and David Robson. *Smalltalk-80: The Language and its Implementation.* Addison-Wesley, Menlo Park, California, 1983.

James Gosling, Bill Joy, Guy Steele, and Gilad Bracha. *The Java Language Specification.* Sun Microsystems, second edition edition, 2000.

David Grove, Greg DeFouw, Jeffrey Dean, and Craig Chambers. Call graph construction in object-oriented languages. In *Proc. OOPSLA '97.* ACM, 1997.

Daniel Hagimont and Daniel Louvegnies. Javanaise: distributed shared objects for Internet cooperative applications. In *Proc. Middleware '98*, pages 339–354, The Lake District, England, September 1998. Springer-Verlag.

Bernhard Haumacher. Lokalitätsoptimierung durch statische Typanalyse in JavaParty. Master's thesis, Institut für Programmstrukturen und Datenorganisation, Universität Karlsruhe, January 1998. URL `http://wwwipd.ira.uka.de/ hauma/publ/hau98da.ps.gz`.

Bruce Hendrickson and Robert Leland. A multilevel algorithm for partitioning graphs. Technical Report SAND93-1301, Sandia National Laboratories, October 1993.

Eric H. Herrin, II and Raphael A. Finkel. An implementation of service rebalancing. Technical Report 191-91, University of Kentucky, Lexington, 1991.

Eric H. Herrin, II and Raphael A. Finkel. Service rebalancing. Technical Report 235-93, University of Kentucky, Lexington, 1993.

Eric Jul, Henry Levy, Norman Hutchinson, and Andrew Black. Fine-grained mobility in the Emerald system. *ACM Transactions on Computer Systems*, 6(1):109–133, February 1988.

Pete Keleher, Alan L. Cox, Sandhya Dwarkadas, and Willy Zwaenepoel. TreadMarks: Distributed shared memory on standard workstations and operating systems. In *Proc. 1994 Winter Usenix Conference*, pages 115–131, jan 1994.

Thilo Kielmann, Philip Hatcher, Luc Bougé, and Henri E. Bal. Enabling Java for high-performance computing: Exploiting distributed shared memory and remote method invocation. *Communications of the ACM*, 44(10):110–117, 2001.

Sven Knöfel. Entwurf und Implementierung eines CORBA-Adapters für Pangaea. Master's thesis, Freie Universität Berlin, September 2000.

Pascale Launay and Jean-Louis Pazat. A framework for parallel programming in Java. Technical Report 1154, IRISA, December 1997.

Pascale Launay and Jean-Louis Pazat. Generation of distributed parallel Java programs. Technical Report 1171, IRISA, February 1998.

Thomas Lengauer. *Combinatorial Algorithms for Integrated Circuit Layout*, chapter 251–301. B.G.Teubner, John Wiley & Sons, 1990.

Klaus-Peter Löhr. Distribution transparency in C#. Presentation slides, available from `http://www.inf.fu-berlin.de/~lohr/slides/csrem.ppt`, 2002.

Kai Li and Paul Hudak. Memory coherence in shared virtual memory systems. *ACM Trans. CS*, 7(4):321–359, November 1989.

Ricky K.K. Ma, Cho-Li Wang, and Francis C.M. Lau. M-JavaMPI: A Java-MPI binding with process migration support. In *Proc. CCGrid 2002*, pages 255–262, May 2002.

Jason Maassen, Thilo Kielmann, and Henri E. Bal. Efficient replicated method invocation in Java. In *Proc. ACM 2000 JavaGrande Conference*, San Francisco, CA, June 2000.

Jason Maassen, Rob van Nieuwpoort, Ronald Veldema, Henri E. Bal, Thilo Kielmann, Ceriel Jacobs, and Rutger Hofman. Efficient Java RMI for parallel programming. *ACM Transactions on Programming Languages and Systems (TOPLAS)*, 23(6):747–775, November 2001.

Dare Obasanjo. A comparison of Microsoft's C# programming language to Sun Microsystems' Java programming language. `http://www.25hoursaday.com/CsharpVsJava.html`, November 2001.

Patrick D. O'Brien, Daniel C. Halbert, and Michael F. Kilian. The Trellis programming environment. In *Proc. OOPSLA '87*, pages 91–102, September 1987.

Open Distributed Processing – Reference Model. OMG, 1995–1998. ISO/IEC 10746-1,2,3,4 / ITU-T Recommendation X.901, X.902, X.903, X.904.

OMG. *The Common Object Request Broker: Architecture and Specification, Revision 2.4*, October 2000. URL `http://www.omg.org/`.

Jens Palsberg and Michael I. Schwartzbach. Object-oriented type inference. In *Proc. OOPSLA '91*, pages 146–161. ACM, 1991.

Michael Philippsen and Bernhard Haumacher. Locality optimization in JavaParty by means of static type analysis. *Concurrency: Practice & Experience*, 12(8):613–628, July 2000.

Michael Philippsen, Bernhard Haumacher, and Christian Nester. More efficient serialization and RMI for Java. *Concurrency: Practice & Experience*, 12(7):495–518, May 2000.

Michael Philippsen and Matthias Zenger. JavaParty: Transparent remote objects in Java. *Concurrency: Practice & Experience*, 9(11):1225–1242, November 1997.

John Plevyak and Andrew A. Chien. Precise concrete type inference for object-oriented languages. In *Proc. OOPSLA '94*, pages 324–340. ACM, October 1994.

Arno Puder and Kay Römer. *MICO: An Open Source CORBA Implementation*. Morgan Kaufmann, 3rd edition, March 2000.

Ingo Rammer. *Advanced .NET Remoting*. APress, 2002.

Martin P. Robillard and Gail C. Murphy. Analyzing exception flow in Java programs. Technical Report TR-99-02, University of British Columbia, March 1999. Submitted for publication.

Mooly Sagiv, Thomas Reps, and Reinhard Wilhelm. Solving shape-analysis problems in languages with destructive updating. In *Proc. 23rd Symposium on Principles of Programming Languages, POPL '96*, New York, January 1996. ACM.

Michael Schröder and Franz J. Hauck. Juggle: Eine verteilte virtuelle Maschine für Java. Technical Report TR-14-3-98, Universität Erlangen-Nürnberg, May 1998.

Michael Schröder and Franz J. Hauck. Juggle: Eine verteilte virtuelle Maschine für Java. In *Tagungsband Java-Informationstage 1999 (JIT '99)*, pages 278–289. Springer, September 1999.

Marc Shapiro and Susan Horwitz. Fast and accurate flow-insensitive points-to analysis. In *Proc. 24th Symposium on Principles of Programming Languages, POPL '97*, pages 1–14, Paris, France, January 1997.

Marc Snir, Steve Otto, Steven Huss-Lederman, David Walker, and Jack Dongarra. *MPI: The Complete Reference.* MIT Press, 1995. Available online at `http://www.netlib.org/utk/papers/mpi-book/mpi-book.html`.

André Spiegel. Objects by value: Evaluating the trade-off. In *Proc. PDCN '98*, pages 542–548, Brisbane, Australia, December 1998. IASTED, ACTA Press.

Bjarne Steensgaard. Points-to analysis in almost linear time. In *Proc. 23rd Symposium on Principles of Programming Languages, POPL '96*, pages 32–41. ACM, January 1996.

Sun Microsystems. *Java Remote Method Invocation Specification*, February 1997.

Andrew S. Tanenbaum. *Distributed Operating Systems.* Prentice–Hall, 1995.

Ronald Veldema, Rutger F.H. Hofman, Raoul A.F. Bhoedjang, and Henri E. Bal. Runtime optimizations for a Java DSM implementation. In *Proc. Joint ACM JavaGrande – ISCOPE 2001 Conference*, June 2001a.

Ronald Veldema, Rutger F.H. Hofman, Raoul A.F. Bhoedjang, Ceriel J.H. Jacobs, and Henri E. Bal. Jackal: A compiler-supported distributed shared memory implementation of Java. In *Proc. Eighth ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming (PPoPP'01)*, June 2001b. Also under the title: Source-Level Global Optimizations for Fine-Grain Distributed Shared Memory Systems.

Jan Vitek and Boris Bokowski. Confined types in Java. *Software Practice & Experience*, 31: 507–532, June 2001.

Jan Vitek, R. Nigel Horspool, and James S. Uhl. Compile-time analysis of object-oriented programs. In *Proc. CC '92, 4th Int. Conf. on Compiler Construction*, number 641 in LNCS, Paderborn, Germany, 1992.

Jim Waldo, Geoff Wyant, Ann Wollrath, and Sam Kendall. A note on distributed computing. Technical Report TR-94-29, Sun Microsystems Laboratories, Mountain View, CA, November 1994. Also in: Mobile Object Systems: Towards the Programmable Internet. LNCS No. 1222, Springer, 1997.

Alfred Wegener. *Die Entstehung der Kontinente und Ozeane.* Vieweg, Braunschweig, 1915. 6th edition 1962.

Peter Wegner. *Research Directions in Object-Oriented Programming*, chapter The Object-Oriented Classification Paradigm, pages 479–560. MIT Press, 1987.

John Whaley and Martin Rinard. Compositional pointer and escape analysis for Java programs. In *Proc. OOPSLA '99*, pages 187–206, Denver, November 1999.

J.E. White. A high-level framework for network-based resource sharing. Internet RFC 707, January 1976. Also appeared at Proc. National Computer Conference, June 1976.

Thomas Wolff and Klaus-Peter Löhr. Transparently programming heterogeneous distributed systems. In *Proc. International Conference on Distributed Platforms (ICDP'96)*, pages 399–412. Chapman & Hall, 1996.

Ann Wollrath, Roger Riggs, and Jim Waldo. A distributed object model for the Java system. In *Proc. USENIX 1996 Conference on Object-Oriented Technologies*, pages 219–232, Toronto, Ontario, Canada, June 1996.

Narendar Yalamanchilli and William Cohen. Communication performance of Java based parallel virtual machines. In *ACM 1998 Workshop on Java for High-Performance Network Computing*, Stanford University, Palo Alto, California, February 1998.

Weimin Yu and Alan Cox. Java/DSM: A platform for heterogeneous computing. *Concurrency: Practice & Experience*, 9(11), November 1997.