

High Performance and Parallel Computing in Lisp

Twickenham London, UK 12th & 13th November 1990

Sponsored by the British Computer Society Parallel Processing Specialist Group and part of the 1990/91 programme of Europal Workshops

Production quality Lisp systems are fast approaching the performance levels of applications developed in the more mainstream languages. Implementations of Lisp span the spectrum of available hardware platforms - from PC's, workstations and dedicated Lisp machines, to mainframe and multi-processor systems and highly parallel computers.

This Workshop is designed to bring together:

- Researchers working on developments of compiler technology, hardware design, systems and algorithms related to high performance, multi- and parallel-processor implementations of Lisp.
- Users of high performance Lisp systems in research and industry engaged with problems in natural language, simulation, robotics, reasoning, planning, etc. And in fields as diverse as defence, telecommunications and finance.
- Vendors of high performance Lisp systems and applications.

Contributions have been received from around the world including France, Germany, Japan, Singapore, the UK and the USA. In addition to the submitted papers, the programme includes invited speakers and discussion panels. Delegates will be asked to provide a brief resume of their work and/or interests in order that the discussions can be fully participative.

For further information please contact one of the following ...

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Readings In Scheme

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Intro Blurb

Since the last edition of *Readings*, there has been a few additions to the bibliography, two updates and a deletion. The updates are courtesy of Kent Dybvig. The numbering of the entries below correspond to the numbering of the bibliography as published in July-December issue of the *Pointers*.

As usual, I would appreciate your contributions and corrections to keep this bibliography current and complete. A machine readable copy of this bibliography is available in bib [refer] format, and there is also an automagically-generated BibTeX version.

If you have any corrections and/or additions or a request for the machine readable copy, e-mail to oz@nexus.yorku.ca or oz@yulibra.BITNET.

Happy scheming...

Updates

- [89] R. Kent Dybvig and Robert Hieb, Engines from Continuations, *Journal of Computer Languages* 14, 2 (1989), 109-123. Also Indiana University Computer Science Department Technical Report #254.
- [90] R. Kent Dybvig and Robert Hieb, Continuations and Concurrency, Proceedings of the Second ACM SIGPLAN Notices Symposium on Principles and Practice of Parallel Programming, Seattle, Washington, March 1990, 128-136. Also Indiana University Computer Science Department Technical Report #256.

Deletes

[23] Peter Henderson, Functional Geometry, Conference Record of the 1982 ACM Symposium on Lisp and Functional Programming, 1982, 179-187.

New Entries

- [98] R. Kent Dybvig and Robert Hieb, A New Approach to Procedures with Variable Arity, Lisp and Symbolic Computation: An International Journal 3, 3 (September 1990), 229-244, Kluwer Academic Publishers.
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- Programming Language Design and Implementation, White Plains, New York, June 1990 (to appear).
- [100] Mitchell Wand, SCHEME Version 3.1 Reference Manual, Computer Science Technical Report 93, Indiana University, Bloomington, Indiana, June 1980.
- [101] Jonathan Rees, Modular Macros, Master's thesis, MIT Department of Electrical Engineering and Computer Science, May 1989.
- [102] Pavel Curtis and James Rauen, A Module System for Scheme, Proceedings of the 1990 ACM Conference on Lisp and Functional Programming, Nice, France, June 1990.
- [103] Kurt Normark, Simulation of Object-Oriented Concepts and Mechanisms in Scheme, Institute for Electronic Systems Technical Report 90-01, Aalborg University, Aalborg, Denmark, January 1990.
- [104] Norman Adams and Jonathan Rees, Object-Oriented Programming in Scheme, Conference Record of the 1988 ACM Conference on Lisp and Functional Programming, August 1988, 277-288.
- [105] Dorai Sitaram and Matthias Felleisen, Control Delimiters and Their Hierarchies, Lisp and Symbolic Computation: An International Journal 3, 1 (January 1990), 67-99, Kluwer Academic Publishers.
- [106] William D. Clinger, Anne H. Hartheimer and Eric M. Ost, Implementation Strategies for Continuations, Conference Record of the 1988 ACM Conference on Lisp and Functional Programming, August 1988, 124 131.
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- [108] Marc Feeley and James S. Miller, A Parallel Virtual Machine for Efficient Scheme Compilation, *Proceedings of the 1990 ACM Conference on Lisp and Functional Programming*, Nice, France, June 1990.
- [109] James S. Miller, A Parallel Processing System Based on MIT Scheme, MIT LCS Technical Report #402 (Ph.D. Dissertation), Cambridge, Mass., August 1987.

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