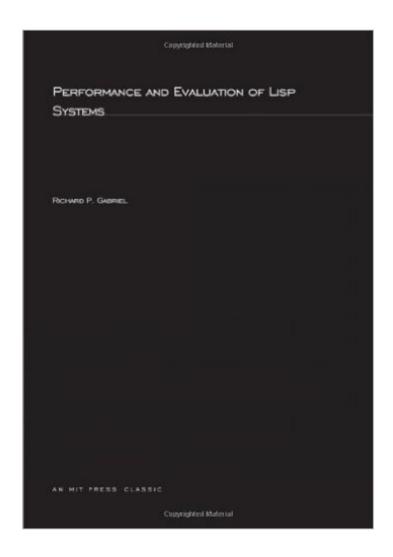# The book was found

Performance And Evaluation Of Lisp Systems (Computer Systems Series)

Synopsis

This final report of the Stanford Lisp Performance Study, conducted over a three year period by the author, describes implementation techniques, performance tradeoffs, benchmarking techniques, and performance results for all of the major Lisp dialects in use today. A popular highlevel programming language used predominantly in artificial intelligence, Lisp was the first language to concentrate on working with symbols instead of numbers. Lisp was introduced by John McCarthy in the early 1960s (McCarthy's LISP 1.5 Programmer's Manual published in 1962 is available in paperback from The MIT Press) and its continuous development has enabled it to remain dominant in artificial intelligence. Performance and Evaluation of Lisp Systems is the first book to present descriptions on the Lisp implementation techniques actually in use and can serve as a handbook to the implementation details of all of the various current Lisp expressions. It provides detailed performance information using the tools of benchmarking (the process of utilizing standardized computer programs to test the processing power of different computer systems) to measure the various Lisp systems, and provides an understanding of the technical tradeoffs made during the implementation of a Lisp system. The study is divided into three major parts. The first provides the theoretical background, outlining the factors that go into evaluating the performance of a Lisp system. The second part presents the Lisp implementations: MacLisp, MIT CADR, LMI Lambda, S-I Lisp, Franz Lisp, MIL, Spice Lisp, Vax Common Lisp, Portable Standard Lisp, and Xerox D-Machine. A final part describes the benchmark suite that was used during the major portion of the study and the results themselves. Richard P. Gabriel is President and Chief Technical Officer, Lucid, Inc., and Consulting Associate Professor, Stanford University. Performance and Evaluation of Lisp Systems is included in the Computer Systems series, Research Reports and Notes, edited by Herb Schwetman.

Book Information

Series: Computer Systems Series

Paperback: 302 pages

Publisher: The MIT Press (August 14, 1985)

Language: English

ISBN-10: 0262070936

ISBN-13: 978-0262070935

Product Dimensions: 7 x 1 x 9 inches

Shipping Weight: 1.2 pounds

Average Customer Review: Be the first to review this item

Best Sellers Rank: #536,540 in Books (See Top 100 in Books)   #29 inÂ Books > Computers & Technology > Programming > Languages & Tools > Lisp   #3101 inÂ Books > Computers & Technology > Computer Science   #4198 inÂ Books > Computers & Technology > Software

Performance and Evaluation of Lisp Systems (Computer Systems Series) Performance Evaluation of Complex Systems: Techniques and Tools: Performance 2002. Tutorial Lectures (Lecture Notes in Computer Science) LISP, Lore, and Logic: An Algebraic View of LISP Programming, Foundations, and Applications Successful Lisp: How to Understand and Use Common Lisp On Lisp: Advanced Techniques for Common Lisp Performance Evaluation: Origins and Directions (Lecture Notes in Computer Science) A-Life for Music: Music and Computer Models of Living Systems (Computer Music and Digital Audio Series) Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science Python: Python Programming For Beginners - The Comprehensive Guide To Python Programming: Computer Programming, Computer Language, Computer Science (Machine Language) Error-Control Coding for Computer Systems (Prentice Hall series in computer engineering) Bank Valuation and Value-Based Management: Deposit and Loan Pricing, Performance Evaluation, and Risk Management (McGraw-Hill Finance & Investing) Performance Evaluation and Benchmarking with Realistic Applications Program Evaluation and Performance Measurement: An Introduction to Practice Evaluation in Organizations: A Systematic Approach to Enhancing Learning, Performance, and Change The Art of Computer Systems Performance Analysis: Techniques for Experimental Design, Measurement, Simulation, and Modeling Performance of Computer Communication Systems: A Model-Based Approach Energy Systems Engineering: Evaluation and Implementation, Second Edition AutoLISP to Visual LISP: Design Solutions: Design Solutions for AutoCAD 2000 (Autodesk's Programmer Series) Network Performance and Optimization Guide: The Essential Network Performance Guide For CCNA, CCNP and CCIE Engineers (Design Series) Computer Organization and Design, Fifth Edition: The Hardware/Software Interface (The Morgan Kaufmann Series in Computer Architecture and Design)