Computer Science

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Performance Study of Logically-Modified Heap Sort Algorithm

Scholarly Research paper

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Performance Study Of Logically Modified Heap Sort Algorithm

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Performance Study Of Logically Modified Heap Sort Algorithm:

Performance Study of Logically-Modified Heap Sort Algorithm Bhanu Prakash Lohani,Pradeep K. Kushwaha,Abhijeet Ashri,Mohit Aggarwal,Akhil V. Raj,2014-11-26 Scholarly Research paper from the year 2014 in the subject Computer Science Theory grade 66 2 course Bachelor in Technology language English abstract Algorithms today are in great need specially the one s having speed up the process of what they are supposed to do Making the algorithm run faster or take up less space while executing is what many coders designers have tried doing for generations And the reason is due to the technological advancements in the real world We have tried our best to speed up the process of heap sort by logically modifying the algorithm It s just a start so the positives negatives are welcome regarding our paper *Fundamentals of C++ and Data Structures, Advanced Course* Kenneth Alfred Lambert,Thomas L. Naps,2001 Following the success of Fundamentals of Program Design and Data Structures by Lambert and Naps C Advanced Course is essential for a second course in Computer Science Completely updated this text provides in depth coverage to help students prepare for the AP exam Exam AB A full introduction to the essential features of C is provided and programming techniques are emphasized in the context of interesting and realistic case problems This text is compatible with C compilers from Microsoft Borland and Metrowerks

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International Aerospace Abstracts ,1985 **SPAA** ,1999 Concepts in Data Structures and Software Development G. Michael Schneider,Steven C. Bruell,1991 **Computer & Control Abstracts** ,1996 **Science Citation Index** ,1992 Vols for 1964 have guides and journal lists *Sorting Algorithm Tutorials - Herong's Tutorial Examples* Herong Yang,2008-01-01 This book is a collection of notes and sample codes written by the author while he was learning sorting algorithms Topics include introduction of sorting algorithms Bubble Sort Heap Sort Insertion Sort Merge Sort Quicksort Selection Sort Shell Sort Sorting algorithm implementations in Java PHP Perl and Python Sorting algorithm performance comparison Updated in 2024 Version v6 12 with minor changes For latest updates and free sample chapters visit https www herongyang com Sort Sorting Algorithms and Techniques Richard Johnson,2025-06-25 Sorting Algorithms and Techniques Sorting Algorithms and Techniques presents a comprehensive rigorous journey through the foundational and cutting edge principles of sorting in computer science Beginning with mathematical preliminaries and theoretical limits the book explores the essential models and constraints that govern the design of sorting algorithms delving into formal problem definitions lower bounds stability adaptivity and the impact of randomization This solid theoretical grounding is seamlessly connected to a wide survey of sorting strategies from elementary algorithms such as bubble selection and insertion sorts to

sophisticated comparison based methods like merge sort quicksort and introsort as well as practical hybrid approaches used in today s leading libraries Extending far beyond the basics the text dives into non comparison based algorithms such as counting bucket and radix sorts illuminating their strengths limitations and suitability for specialized data types and distributions Special emphasis is placed on large scale and high performance scenarios with dedicated chapters addressing external parallel and distributed sorting including contemporary techniques for massive data sets and frameworks like MapReduce and Spark Further specialized sorting challenges such as string and compound key sorting cache optimized algorithms sorting for real time and memory constrained environments and techniques for sparse structured data are examined in depth equipping the reader to navigate a broad range of practical and domain specific requirements Recognizing the complexity of modern hardware and software ecosystems the book addresses algorithm engineering common implementation pitfalls profiling and formal verification strategies It concludes with forward looking discussions of privacy preserving sorting hardware acceleration quantum algorithms and current research frontiers Exhaustive yet accessible Sorting Algorithms and Techniques is an indispensable reference for computer scientists software engineers and researchers seeking both mastery of established methodologies and insight into the evolving landscape of sorting technology

O(n Log[subscript 2]n) Hybrid Sorting Algorithm on 2-D Grid National University of Singapore. Department of Information Systems and Computer Science,S. C. Tay,K. P. Tan,G. H. Ong,1993 Abstract We design a hybrid sorting algorithm using heap sort and a modified version of quick sort It consists of two phases preprocess and sort In the first phase input data are randomly placed on a square grid initially and then are sorted in column wise order followed by row wise order using heap sort In the second phase the data are treated as a linear list and sorted using the modified quick sort The sort time complexity of the hybrid method is of O n log2n and is consistent for reverse sorted data random data and sorted data The granularity of parallelism in the hybrid sort is large and therefore it is suitable for parallel processing

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