

A Parallel Space Saving Algorithm

Keywords frequent items space saving algorithm message-passing 1 Introduction The purpose of this paper is to offer a solution to the problem of determining frequent items in a stream of data, based on a Space Saving parallel algorithm. Given a stream of data A of n elements, and an integer k , this problem

A Parallel Space Saving Algorithm For Frequent Items and ...

Parallel versions of the Space Saving algorithm for shared-memory architectures have been designed in and . A GPU (Graphics Processing Unit) accelerated algorithm for frequent items appeared in and . Novel shared-memory parallel algorithms for frequent items were recently proposed in .

A parallel space saving algorithm for frequent items and ...

A parallel space saving algorithm for frequent items and the Hurwitz zeta distribution
@article{Cafaro2016APS, title={A parallel space saving algorithm for frequent items and the Hurwitz zeta distribution}, author={Massimo Cafaro and Marco Pulimeno and Piergiulio Tempesta}, journal={Inf. Sci.}, year={2016}, volume={329}, pages={1-19} }

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Also, we compare its parallel performances and accuracy against a parallel algorithm recently proposed for merging summaries derived by the Space Saving or Frequent algorithms. keywords: Frequent items, Space saving algorithm, Message-passing.

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A Parallel Space Saving Algorithm For Frequent Items and ...

A parallel space saving algorithm for frequent items and the Hurwitz zeta distribution Massimo Cafaro , Marco Pulimeno , Piergiulio Tempesta Published 2016 in Inf. Sci.

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We present a message-passing based parallel version of the Space Saving algorithm designed to solve the k -majority problem. The algorithm determines in parallel frequent items, i.e., those whose frequency is greater than a given threshold, and is therefore useful for iceberg queries and many other different contexts. We apply our algorithm to ...

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A parallel space saving algorithm The pseudocode of Algorithm 2 describes our parallel Space Saving algorithm. We assume that the input array N is initially read by an application calling our function implementing the algorithm; for instance, every process reads the input from a file or a designated process reads it and broadcast it to the other processes. The initial call is ...

arXiv:1401.0702v12 [cs.DS] 19 Sep 2015

In this paper, we deal with parallel shared-memory algorithms for frequent items; we present a

shared-memory version of the Space Saving algorithm, and we study its behavior with regard to accuracy and performance on many and multi-core processors, including the Intel Phi accelerator. We also investigate a hybrid MPI/OpenMP version against a pure MPI-based version. Through extensive ...

Parallel space saving on multi- and many-core processors ...

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