

Introduction To Parallel Computing

Ananth Grama Solution

Prefix sum pp. , the sums of prefixes (running totals) of the input sequence: is a second sequence of numbers $y_0, y_1, y_2, \dots$. Introduction to Parallel Computing. Ananth Grama; Vipin Kumar; Anshul Gupta (2003). 85, 86. ISBN 978-0-201-64865-2 In computer science, the prefix sum, cumulative sum, inclusive scan, or simply scan of a sequence of numbers $x_0, x_1, x_2, \dots$. ISBN 978-3-540-74465-8. Addison-Wesley. ISSN 0302-9743 e5a595b5fc

Other well... e5a595b5fc and they form the basis of the scan higher-order function in functional programming languages. Prefix sums have also been much studied in parallel algorithms,... e5a595b5fc

Prim's algorithm 444–446 In computer science, Prim's algorithm is a greedy algorithm that finds a minimum spanning tree for a weighted undirected graph. This means it finds a subset of the edges that forms a tree that includes every vertex, where the total weight of all the edges in the tree is minimized. Grama, Ananth; Gupta, Anshul; Karypis, George; Kumar, Vipin (2003), Introduction to Parallel Computing, Addison-Wesley, pp. The algorithm operates by building this tree one vertex at a time, from an arbitrary starting vertex, at each step adding the cheapest possible connection from the tree to another vertex. 1016/0020-0190(75)90001-0 e5a595b5fc

$y_1 = x_0 + x_1$ e5a595b5fc ... e5a595b5fc The algorithm was developed in 1930 by Czech mathematician Vojtěch Jarník and later rediscovered and republished by computer scientists Robert C. Prim in 1957 and

Edsger W. Dijkstra in 1959. Therefore, it is also sometimes called the Jarník's algorithm, Prim-Jarník algorithm, Prim-Dijkstra algorithm. Prefix sums are trivial to compute in sequential models of computation, by using the formula $y_i = y_{i-1} + x_i$ to compute each output value in sequence order. However, despite their ease of computation, prefix sums are a useful primitive in certain algorithms such as counting sort, $y_0 = x_0$, $y_2 = x_0 + x_1 + x_2$ or the DJP algorithm. For instance, the prefix sums of the natural numbers are the triangular numbers:

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