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Sorting networks differ from general comparison sorts in that they are not capable of handling arbitrarily large inputs, and in that their sequence of comparisons is set in advance, regardless of the outcome of previous comparisons. In order to sort larger amounts of inputs, new sorting

networks must be constructed. This independence of comparison sequences is useful for parallel execution and ...

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Abstract. Here we consider $N = 2^p$ where p is a large integer. Thus, we can capitalize on our knowledge of BOOL(N) in order to try to find faster sorting networks for large values of N. Assume that we find a divide-and-conquer method that uses mp steps to reduce the problem of sorting N keys to sorting a number of groups in parallel where each group has no more than N^e keys.

Algorithm::Networksort(3) - Create Sorting Networks.

Some work in designing optimal sorting network has been done using genetic algorithms: D. Knuth mentions that the smallest known sorting network for n = 13 was found by Hugues Juillé in 1995 "by simulating an evolutionary process of genetic breeding" (p. 226), and that the minimum depth

sorting networks for n = 9 and n = 11 were found by Loren ...

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This module's main purpose is to create compare-and-swap macros (or functions, or templates) that one may insert into source code. It may also be used to create images of the sorting networks in either encapsulated postscript (EPS), scalar vector graphics (SVG), or in "ascii art" format.

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Designing sorting networks: A new paradigm. S Al-Haj Baddar, KE Batcher. Springer Science & Business Media, 2012. 50: 2012: Anomaly Detection in Computer Networks: A State-of-the-Art Review. S Al-Haj Baddar, A Merlo, M Migliardi. JoWUA 5 (4), 29-64, 2014. 46 * 2014: Finding Better Sorting Networks.

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Use Batcher's Merge Exchange algorithm. Merge Exchange is a real sort, in that in its usual form (for example, as described in Knuth) it can handle a variety of inputs. But while sorting it always generates an identical set of comparison pairs per array size, which lends itself to sorting networks. 'bitonic' Use Batcher's bitonic algorithm.

Sorting network - Wikipedia

ordered at a determined building stage. New optimal Sorting Networks designs for input sizes from 9 to 15 are presented. 1 Introduction Sorting Networks (SN) are tools utilized to sort fixed-size input data. An SN is composed by a set of comparators. Each comparator executes an ac-tion compare-interchange between two elements (a,b).