



Join Processing in a Symmetric Parallel Environment (Classic Reprint) (Paperback)

By Professor of Computer Science Dennis Shasha

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Join Processing in a Symmetric Parallel Environment We present and analyze a strategy for procuring joins on a highly parallel computer architecture. We model the architecture as consisting of n identical processor-meraory clusters interconnected by a symmetric network onto which many processors may send at once. The strategy entails partitioning each relation horizontally based on a perfect hashing function applied to a key of the relation. The basic join algorithm consists of projecting each relation on the joining and result columns and then sending each truncated tuple to the jth processor if the hash function applied to the join columns of the tuple yields j. Processor j then performs a local join, producing the result. We consider three variations on the basic algorithm lot the case where the join columns of at least one relation do not include a key (so there will be duplicate values): combining, tagging, and smearing. Combining is a network operation, whereby network switches filter out some of the duplicate data destined for the same processor. As one might expect, this...



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