



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-memory 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 j th 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 for 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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