







implementing parallel algorithm. Programmers can easily understand the high-level design of the program. However, in this program, there is communication overhead between the master and slave processors.

In parallel processing, distributed shared memory parallel machine is the main trends of development of high performance computer. Its main features are as follows: each node is a shared memory multi-processor, and they are connected. Memory access in the internal node and message passing between nodes, OpenMP & MPI respectively, can make better use of distributed shared memory system.

Many parallel algorithms divide the dataset into partitions for parallel processing among processors for finding frequent item sets. However, Apriori algorithm has weakness in performance with the exponential growth. The key factors in determining the performance of finding significant association rules in knowledge discovery is the size of the item set. In this program, the tree is incrementally created dependent on the frequency count of candidate item sets, load balancing is no taken under consideration, which initiate further research on finding ways for optimization.

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