

# USING REMOTE PROCEDURE CALLS IMPLEMENTING DISTRIBUTED ALGORITHM

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## ABSTRACT

Remote Procedure Call (RPC) is a powerful primitive method used for communication and synchronization between distributed processes. RPC poses a problem that it reduces the amount of parallelism, because of its synchronous nature. This paper shows how simple processes can be used to find a way of avoiding a difficulty in this problem. The combination of blocking RPC calls and light-weight processes provides both simple semantics and efficient exploitation of parallelism.

We will describe how two important classes of algorithms, branch and bound can be run in a parallel way using this RPC. The results of some experiments comparing this algorithms on a single processor discussed.