Parallel Computing with R using GridRPC

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Parallel computing becomes popular presently to achieve massive calculations. We have several techniques to perform parallel computing with R, for example, Rmpi and snow. These packages provide flexible and stable parallel computing mechanisms, and are especially suitable for a cluster of homogeneous computers in an intra-network. Grid computing, on the other hand, appeared recently to use simultaneously several heterogeneous computer clusters which are located far away and connected by Internet. GridR is one package to use R in such a grid environment. We propose to use GridRPC, a remote procedure call API for grid computing, for adding parallel computing functions to R. We provide a package to realize snow-like functions by utilizing Ninf-G, a reference implementation of the GridRPC API.

References
