

# PARALLEL COMPUTATIONS IN THE HYDROGEOLOGICAL CODE GERA: ORGANIZATION AND EFFICIENCY

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The structure, functionality, and organization of parallel computations of the GeRa computational code are presented. The GeRa code is used for modelling of hydrogeological problems. The principles of running multiprocessor tasks on a remote cluster from the GeRa graphical interface are described. The results of parallel computations for three representative models are given and their parallel efficiency is analyzed. The technique of automatic tuning of linear solver parameters for the filtration and transport problems is described and the application of this technique in the GeRa code is demonstrated.