Modeling of task scheduling in desktop grid systems at the initial stage of development

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The paper presents an overview of modern methods for task scheduling in desktop grid systems, estimates of the quality of methods, including: the time of execution of all tasks, the level of resource utilization. Heuristic approach to task scheduling is considered, which allows ensuring high performance and reliability of such systems at the early stages of development. A comparative analysis of the results of computational experiments performed with the help of the GridSim high performance computing simulation tool for various desktop grid system configurations is carried out.

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