

The aim of this work is creating a system for distributed computing in smaller LAN networks. The system should provide a platform for various applications, which will be able to run parallel processing of computationally expensive tasks (e.g. searching for prime numbers, rendering video sequences, editing photographs, ...). The reader will learn about distributed systems, about their advantages and disadvantages and will get knowledge of definitions and key words from this area. The work also makes a comparison of this system and a few existing systems (SETI@home, distributed.net). An analysis of weak parts of the proposed system is included in this paper and also some ideas and thoughts on some improvements of the system in the future.