

THE ANNOTATION

Diploma thesis is wrote on 66 pages and consists of 12 images, 3 tables and 15 literature sources.

This diploma project is devoted to the modification of the parallel algorithm for the parametric optimization block in ALLTED for multiprocessor computing. An analysis of existing technologies for parallel methods of random search and their implementations in PVM system and with using Multithreading is shown in this work. The method of random search with decreasing search interval has been analyzed. The choice of the instrumental means has been made and an algorithm of parallel random search has been developed. Basic evaluations of parallel algorithm had been deduced. Recommendation for further using of thesis were listed.

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Key words: SPUIP, ALLTED, PVM, Multithreading, optimization, MC with shared memory.