ABSTRACT

Rahmat Haryadi Kiswanto, A Cost Optimization Method Based on the Specific Needs to Combine the Personal Computer Hardware Parts (supervised by Suarga and Rhiza S. Sadjad).

The main goal of this project is to develop a cost optimization method to find the best combination of a personal computer hardware parts. The optimization is constrained by the user's specific needs and the budget limit. The "backtracking" searching method is implemented. The budget limits of Rp. 3.000.000,-, Rp. 3.500.000,- and Rp. 4.000.000,- have been successfully tested, with performance indexes of 3324, 4169 and 5242 respectively.