Increasing Mainframe Software Maintenance Efficiency and Effectiveness: An Empirical Study of Microcomputer versus Mainframe Based tools

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Abstract

Costs in software development and maintenance have been studied for decades. Numerous methods have been used in software application development. As these applications become larger, more complex, more expensive to create and maintain, and of greater strategic importance, it has become vital for an enterprise to have some methods of measuring the costs involved during all phases of the software application’s lifecycle. Measuring the cost of software maintenance is important, as this cost can amount to 50-80% of total project cost.

This paper will concentrate on the measurement of certain of the costs involved in application maintenance, specifically the programmer time spent on debugging and maintaining code. (A complete copy of the report is available at http://cond.or.depaul.edu/tmuscare)