

## C216861 : MAJOR COMPUTER SCIENCES  
KEY WORD: COST DRIVER/ MANPOWER/ TIME/ LIFE-CYCLE PHASE

URAI THONGHUAPAI : DEVELOPMENT OF A PACKAGE FOR SOFTWARE COST  
ESTIMATION BY THE COCOMO MODEL. THESIS ADVISOR : WIWAT VATANAWOOD  
AND SUCHAI THANAWASTIEN, Ph.D. 134 pp. ISBN 974-584-123-4

The objective of this research is to develop a software tool on microcomputer for Thailand's Project Managers to estimate the cost of development in their organizations by the COCOMO model.

The essential information of the completed software development project from several organizations in Thailand was collected as to research. The cost model was constructed and the least square method was used to adjust the suitable constant terms. After testing the new equations, the results gave more degree of reliability than the original one. The standard errors of estimates and coefficient of correlation were used to ensure the degree of reliability. The more information is collected, the more reliable the proposed model of cost will become.

The software package for cost estimation by the COCOMO model enables the Project Manager to select either the original COCOMO model (the model without any modification) or the proposed model of cost (the model with adjusted constant terms by least square method).