

COCOTS

Name: COCOTS 2002.1

Presenter(s): Ye Yang

Objective: This tool provides software cost estimations for COTS-Based Systems (CBS) based on the combined estimation of COCOMO II and COCOTS models.

Rationale: The current version of COCOMOII application supports only COCOMOII calculation, which is the estimation of cost, effort, and schedule of the new project. When the COCOTS theory has been introduced, it has brought the new idea of using the pre-existing software that is self-contained off-the-shelf components. It will take advantage of existing, market proven, vendor-supported products, and also reduce overall system development costs. Hence, COCOMOII and COCOTS application had been developed to estimate cost, schedule, and effort to support both new project components (COCOMOII), and COTS components. It combines all cost, schedule, and effort, required to complete the project based on both models.

Target Users: This tool is designed for Project Managers looking to estimate project development cost including COTS based development.

Scope: Cost estimation for COTS-Based Systems

Project Type: Multi-year USC-CSE research Project

Runs On:

- Windows 95, 98, NT, 2000, XP
- Microsoft Excel (Enabled Macros)

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Technical Approach: 1) COCOMO II model is used to estimate custom developed components of an application; 2) COCOTS model is used to mainly focus on estimating three major sources of COTS-related costs: COTS product assessment, COTS product tailoring, and integration or "glue code" development.

Developers:

Model principle: Dr. Christ Abts
Tool developer: Maysinee Nakmanee

Future Directions: Collect project data, calibrate model