

Demonstration Guide

USC-CSSE Annual Research Review 2008

Name: COINCOMO

Presenter(s): A Winsor Brown

Objective: To develop estimation tool based on COCOMO II estimation model and support super-structure of the system of system; to provide tool support capabilities to quickly perform "what if" estimations; to develop software cost database and tool support capabilities for continuous model improvement; to provide capability for integrating COCOMO II model with security extension (COSECMO) and COSYSMO.

Rationale: Tailorability of an organization process to its own process drivers; accommodating the structure of emerging system of systems; enable the easy use of organization's estimation data; support estimation trade-offs; provide estimation of security system.

Target Users: Customers, Managers, System Engineers, Software Engineers, Cost Analysts

Scope: Generation effort, schedule, cost and staff estimates; accommodation of multiple systems, subsystems, builds (or deliveries), components (or projects) and sub-components (or modules); estimate versioning; COCOMO II security extension; calibration; effort and schedule distribution.

Project Type: Multi-year USC-CSE research project

Runs On: Windows95/98/NT/2000/XP with MS Access 2000 or higher

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Technical Approach: COINCOMO implements COCOMO II model and accommodates multiple systems, subsystems, builds (or deliveries), components (or projects) and sub-components (or modules). The tool is developed using MS Access. Thus, all estimates are stored in the database and can be retrieved any time. The tool has high degree of customization including algorithms and parameters.

Developers:

Principal Investigator: A Winsor Brown

Programmers and Testers: Vu Nguyen, Ivana Naeymi-Rad, Yongluan Fang, Vannak Touch, Ali Malik

Future Directions: Enhancing capabilities to accommodate elements of COPSEMO, COSEMO, and COCOTS.