

Name: COINCOMO

Presenter(s): Shaofeng Xi, Bahram Chaudhry

Objective: The demonstration purpose is to display different features of COINCOMO and promote the tool.

Rationale: COINCOMO software development is based on the COCOMO II model with an added super-structure to accommodate the multiple packages, builds (or deliveries) and modules. Effort can be calculated for each build or package using the COCOMO II model and summing across the packages for an overall estimate. Tool provides the flexibility of maintaining a central or local database for efforts for each project.

Target Users: This tool is designed for Project Managers looking to estimate effort of a large project involving several builds and modules.

Scope: COINCOMO tool domain covers effort estimates for Inception, Elaboration, Construction and Transition (MBASE/RUP) phases for several builds and packages of a project. Eventually, it will have an integrated COTS and/or Security cost estimation capability.

Project Type: Multi-year USC-CSE research project

Runs On:

- Windows 95, 98, NT, 2000, XP

IPR Status: Basic COCOMO model and code, and COINCOMO code copyright owned by USC-CSE. Affiliates free to use, modify, but not restrict other affiliates' use.

Technical Approach: In order to get more flexibility in constructing estimates, a new implementation of the COCOMO II model was developed on top of a database that holds tables for the correspondence of driver ratings to numeric values, the build's "module" names and size information, the specific Effort Adjustment Factors associated with a module, the specific Scale Factors for a given project for each build, and queries that apply the COCOMO II model equations to the data to create an estimate of schedule and the derived schedule.

Developers:

Model Principle: Dr. Barry Boehm

Tool Development: Shaofeng Xi, Bahram Chaudhry

Future Directions: Add additional drivers to COINCOMO tool. Integrate CodeCount output as input to the COINCOMO tool for "local calibration" purposes..