

Name: CORADMO

Objective: The intent of the CORADMO.xls is to calculate (predict) the schedule (months, M), personnel (P), and adjusted effort (person-months, PM) based on the distribution of effort and schedule to the various MBASE/RUP phases, and the impacts of selected schedule driver ratings on the M, P, and PM of each stage.

Rationale: The Constructive Rapid Application Development Model is an extension of the COCOMO II model, which focuses on the cost and schedule impacts of developing software using rapid application development techniques. RAD is taken to mean an application of any of a number of techniques or strategies to reduce software development cycle time.

Target Users: Managers, Project Planners, and Software Engineers

Scope: CORADMO.xls takes its data from the exported output of a COCOMOII.exe run via an intermediate tool, COCOMO_charts.xls that also provides useful results itself.

Project Type: Multi-year USC-CSE research project

Developers: A. Winsor Brown and Cyrus Fakharzadeh

Runs On: Microsoft Windows 95/98/2000/Me/XP and NT 4.0 with Excel 97 or later

IPR Status: Copyright USC-CSE.

Technical Approach: CORADMO relies on COPSEMO to do the distribution of effort and schedule to the MBASE/RUP phases and then applies the CORADMO drivers to adjust effort and schedule parametrically. Using Excel control objects and links to other spreadsheets, users supply the RAD driver rating levels which impact effort, schedule and, indirectly, personnel. All other areas of the worksheet, except those designated for user input, can not be modified by the user. Users need NOT be proficient with the use of Microsoft Excel.

Future Directions: To investigate new driver rating values based on data from COCOMOII Affiliates.