COCOMO II - Constructive Cost Model

Model(s)
COCOMO
Monte Carlo Risk Off
Auto Calculate Off

Software Size   Sizing Method Source Lines of Code

	SLOC	% Design Modified	% Code Modified	% Integration Required	Assessment and Assimilation (0% - 8%)	Software Understanding (0% - 50%)	Unfamiliarity (0-1)
New	5700						
Reused		0	0				
Modified	0						

Software Scale Drivers

Precedentedness	Nominal	Architecture / Risk Resolution	Low	Process Maturity	Nominal
Development Flexibility	Nominal	Team Cohesion	Very High		

Software Cost Drivers
Product

Required Software Reliability	Nominal	**Personnel**		**Platform**	
Data Base Size	Nominal	Analyst Capability	Low	Time Constraint	Nominal
Product Complexity	High	Programmer Capability	Nominal	Storage Constraint	Nominal
Developed for Reusability	Nominal	Personnel Continuity	Very High	Platform Volatility	Low
Documentation Match to Lifecycle Needs	Nominal	Application Experience	Low	**Project**	
		Platform Experience	Low	Use of Software Tools	Nominal
		Language and Toolset Experience	Nominal	Multisite Development	Extra High
				Required Development Schedule	Nominal

Maintenance Off

Software Labor Rates

Cost per Person-Month (Dollars) 1800

  Calculate

Results

Software Development (Elaboration and Construction)   Staffing Profile
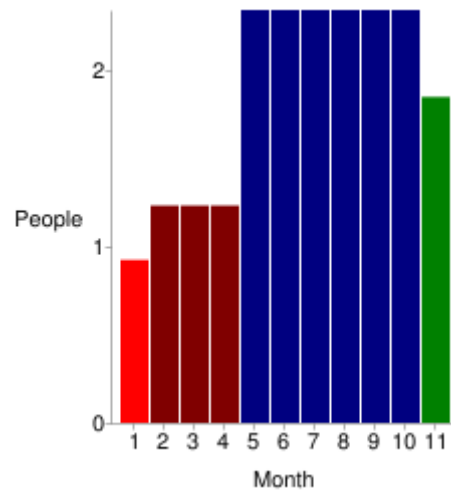
Effort = 18.5 Person-months
Schedule = 9.6 Months
Cost = $33312

Total Equivalent Size = 5700 SLOC

Acquisition Phase Distribution

Phase	Effort (Person-months)	Schedule (Months)	Average Staff	Cost (Dollars)
Inception	1.1	1.2	0.9	$1999
Elaboration	4.4	3.6	1.2	$7995
Construction	14.1	6.0	2.3	$25317
Transition	2.2	1.2	1.8	$3997

Software Effort Distribution for RUP/MBASE (Person-Months)

Phase/Activity	Inception	Elaboration	Construction	Transition
Management	0.2	0.5	1.4	0.3
Environment/CM	0.1	0.4	0.7	0.1
Requirements	0.4	0.8	1.1	0.1
Design	0.2	1.6	2.3	0.1
Implementation	0.1	0.6	4.8	0.4
Assessment	0.1	0.4	3.4	0.5
Deployment	0.0	0.1	0.4	0.7

Your output file is http://csse.usc.edu/tools/data/COCOMO_January_27_2016_05_50_52_53676.txt

Created by Ray Madachy at the Naval Postgraduate School. For more information contact him at rjmadach@nps.edu