



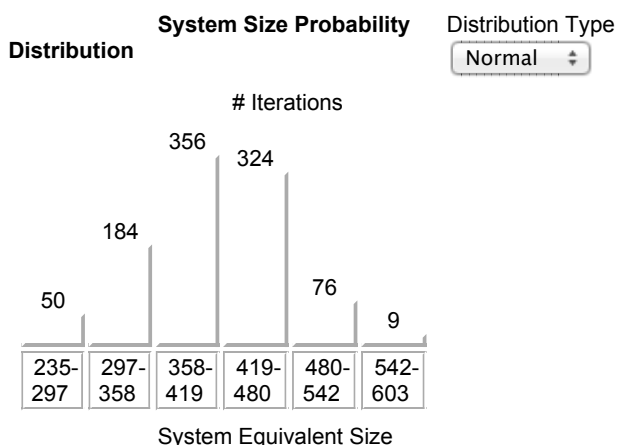
COCOMO Suite of Constructive Cost Models

Model(s)

 Monte Carlo Risk
 Auto Calculate

System Size

	Easy	Nominal	Difficult
# of System Requirements	<input type="text" value="20"/>	<input type="text" value="30"/>	<input type="text" value="10"/>
# of System Interfaces	<input type="text" value="10"/>	<input type="text" value="15"/>	<input type="text" value="5"/>
# of Algorithms	<input type="text" value="5"/>	<input type="text" value="5"/>	<input type="text" value="5"/>
# of Operational Scenarios	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="2"/>



System Cost Drivers

Requirements Understanding	<input type="button" value="Nominal"/>	Documentation	<input type="button" value="Nominal"/>	Personnel Experience/Continuity	<input type="button" value="Nominal"/>
Architecture Understanding	<input type="button" value="Low"/>	# and Diversity of Installations/Platforms	<input type="button" value="Nominal"/>	Process Capability	<input type="button" value="Nominal"/>
Level of Service Requirements	<input type="button" value="Nominal"/>	# of Recursive Levels in the Design	<input type="button" value="Nominal"/>	Multisite Coordination	<input type="button" value="High"/>
Migration Complexity	<input type="button" value="High"/>	Stakeholder Team Cohesion	<input type="button" value="Nominal"/>	Tool Support	<input type="button" value="Nominal"/>
Technology Risk	<input type="button" value="High"/>	Personnel/Team Capability	<input type="button" value="Nominal"/>		

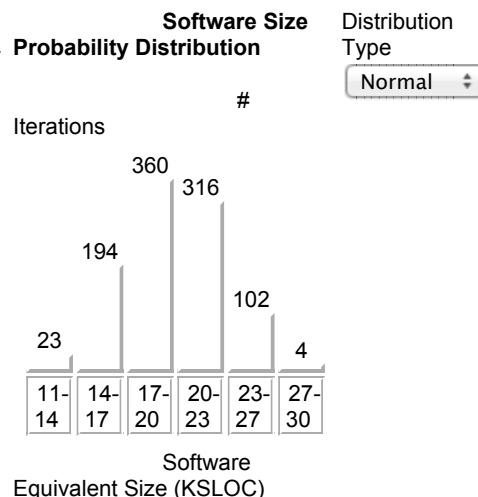
System Labor Rates

Cost per Person-Month (Dollars)

Software Size

Sizing Method

	<u>SLOC</u>	% Design Modified	% Code Modified	% Integration Required	Assessment and Assimilation (0% - 8%)	Software Understanding (0% - 50%)	Unfamiliarity (0-1)
New	<input type="text" value="20000"/>						
Reused	<input type="text" value="10000"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="30"/>	<input type="text" value="5"/>		
Modified	<input type="text" value="10000"/>	<input type="text" value="20"/>	<input type="text" value="20"/>	<input type="text" value="50"/>	<input type="text" value="5"/>	<input type="text" value="25"/>	<input type="text" value="0.25"/>



Software Scale Drivers

Precedentedness	<input type="button" value="Low"/>	Architecture / Risk Resolution	<input type="button" value="High"/>	Process Maturity	<input type="button" value="Low"/>
Development Flexibility	<input type="button" value="Nominal"/>	Team Cohesion	<input type="button" value="Nominal"/>		

Software Cost Drivers

Product

Required Software Reliability

Data Base Size

Product Complexity

Developed for Reusability

Documentation Match to Lifecycle Needs

Personnel

Analyst Capability

Programmer Capability

Personnel Continuity

Application Experience

Platform Experience

Language and Toolset Experience

Platform

Time Constraint

Storage Constraint

Platform Volatility

Project

Use of Software Tools

Multisite Development

Required Development Schedule

Software Labor Rates

Cost per Person-Month (Dollars)

Results

Systems Engineering

Effort =271 Person-months
 Schedule = 9 Months
 Cost = \$4075229

Effort Distribution (Person-Months)

Phase / Activity	Conceptualize	Develop	Operational Test and Evaluation	Transition to Operation
Acquisition and Supply	5.3	9.7	2.5	1.5
Technical Management	10.2	17.6	11.5	6.9
System Design	27.7	32.6	13.9	7.3
Product Realization	5.3	12.2	13.0	10.2
Product Evaluation	15.2	22.7	33.7	12.6

Software Engineering

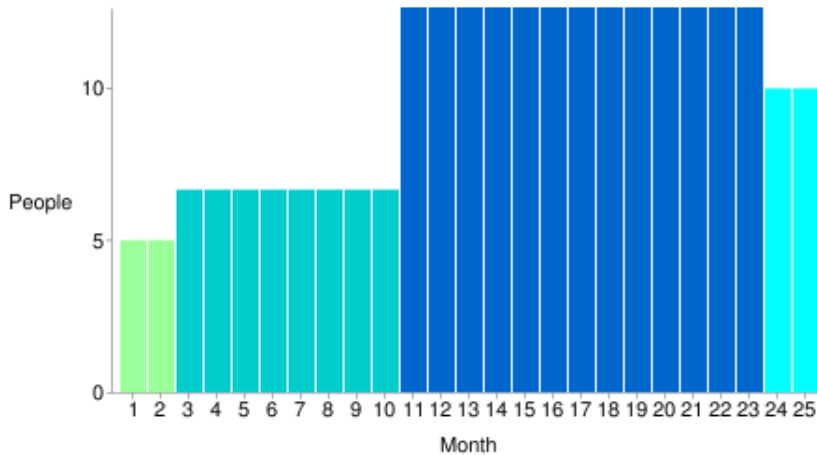
Effort = 228 Person-months
 Schedule = 22 Months
 Cost = \$3431136

Total Equivalent Size =25162

Phase Distribution

Phase	Effort (Person-months)	Schedule (Months)	Average Staff	Cost (Dollars)
Inception	13.7	2.8	5.0	\$205868
Elaboration	54.9	8.3	6.6	\$823473
Construction	173.8	13.8	12.6	\$2607664
Transition	27.4	2.8	10.0	\$411736

Staffing Profile

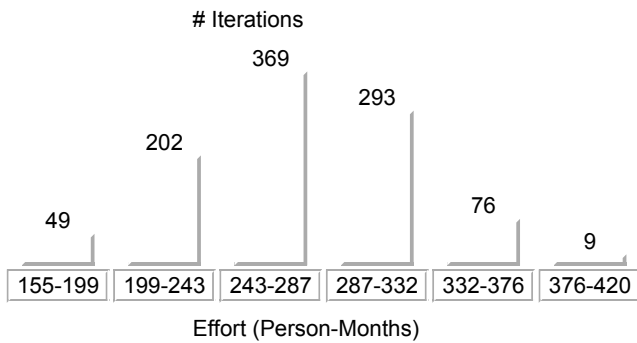


Software Activity Distribution (Person-Months)

Phase/Activity	Inception	Elaboration	Construction	Transition
Management	1.9	6.6	17.4	3.8
Environment/CM	1.4	4.4	8.7	1.4
Requirements	5.2	9.9	13.9	1.1
Design	2.6	19.8	27.8	1.1
Implementation	1.1	7.1	59.1	5.2
Assessment	1.1	5.5	41.7	6.6
Deployment	0.4	1.6	5.2	8.2

Monte Carlo Risk Analysis (1000 runs)

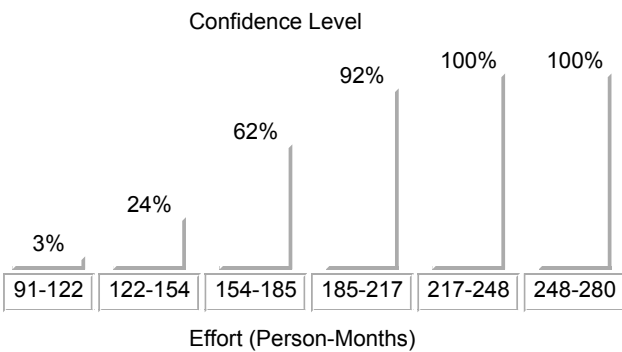
Systems Effort Distribution Function



Systems Effort Confidence Levels

10%	211
20%	234
30%	251
40%	263
50%	274
60%	286
70%	297
80%	312
90%	326
100%	420

Software Effort Cumulative Distribution Function



Your output file is http://csse.usc.edu/tools/data/COCOMOandCOSYSMO_September_15_2011_15_55_16_176965.txt

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