## **COCOMO II - Constructive Cost Model**

Monte Carlo Risk Off ➤
Auto Calculate Off ➤

Software Siz	<b>ze</b> Sizing	Method F	unctio	n Points 🗸					
Unadjusted Function Points	340	Language	Java	~					
Software So	cale Drivers								
		High ✓ Very High ✓		Architecture / Risk Resolution	High	~	Process Maturity	Very High	1 🗸
				Team Cohesion	Very High ➤				
	ost Drivers						<b>-</b>		
Product				Personnel			Platform		
Required So	oftware Reliability	Very Hig	gh 🗸				Time Constraint	High	~
Data Base S	Size	Nomina	<b>\</b>	Analyst Capability	Very High	<b>\</b>	Storage Constraint	Nominal	~
Product Co	mplexity	High	~	Programmer Capability	High	~	Platform Volatility	Nominal	~
Dovoloped	for Reusability	Low	~	Personnel Continuity	Very High	<b>Y</b>			
•	,	LOW		Application Experience	High	~	Project		
Lifecycle Ne	tion Match to eeds	Very Hig	gh 🗸	Platform Experience	High	~	Use of Software Tools	Nominal	~
				Language and Toolset	High	~	Multisite Development	Low	~
				Experience	i iigii		Required Development Schedule	High	~
Maintenance	e Off 🗸								
Software La	bor Rates								
Cost per Per	son-Month (Dollar	s) 5000							
Calculate	]								

## Results

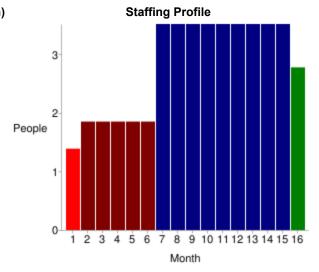
# **Software Development (Elaboration and Construction)**

Effort = 42.0 Person-months Schedule = 14.5 Months Cost = \$209917

Total Equivalent Size = 18020 SLOC Effort Adjustment Factor (EAF) = 0.79

## **Acquisition Phase Distribution**

Phase	Effort (Person- months)	Schedule (Months)	Average Staff	Cost (Dollars)
Inception	2.5	1.8	1.4	\$12595
Elaboration	10.1	5.4	1.8	\$50380
Construction	31.9	9.1	3.5	\$159538
Transition	5.0	1.8	2.8	\$25190



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

Phase/Activity	Inception	Elaboration	Construction	Transition			
Management	0.4	1.2	3.2	0.7			
Environment/CM	0.3	0.8	1.6	0.3			
Requirements	1.0	1.8	2.6	0.2			
Design	0.5	3.6	5.1	0.2			

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Implementation	0.2	1.3	10.8	1.0
Assessment	0.2	1.0	7.7	1.2
Deployment	0.1	0.3	1.0	1.5

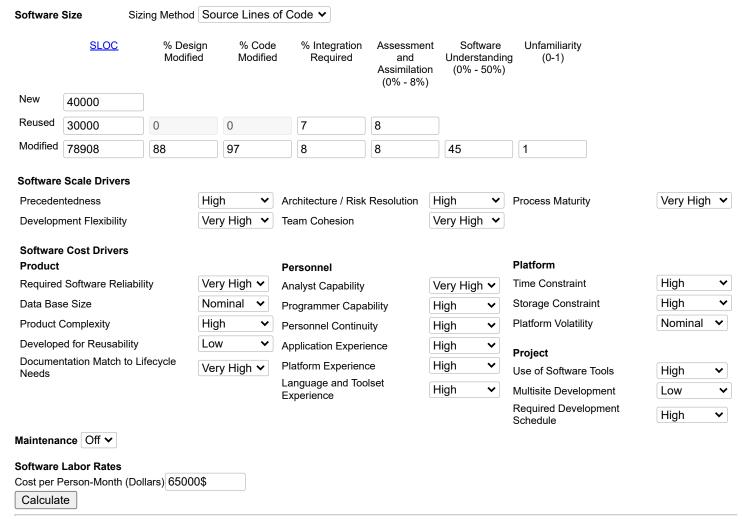
Your output file is at http://softwarecost.org/tools/COCOMO/data/COCOMO October 5 2023 06 49 17 774493.txt

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

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### Results

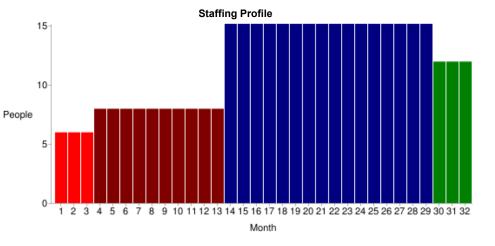
# Software Development (Elaboration and Construction)

Effort = 336.2 Person-months Schedule = 27.0 Months Cost = \$21852418

Total Equivalent Size = 137482 SLOC Effort Adjustment Factor (EAF) = 0.83

## **Acquisition Phase Distribution**

Phase	Effort (Person- months)	Schedule Average Cost (Months) Staff (Doll		Cost (Dollars)
Inception	20.2	3.4	6.0	\$1311145
Elaboration	80.7	10.1	8.0	\$5244580
Construction	255.5	16.9	15.1	\$16607838
Transition	40.3	3.4	12.0	\$2622290



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

70.1.1.1.1.1 = 1.0.1.1 = 1.0.1.1.1.1							
Phase/Activity	Inception	Elaboration	Construction	Transition			
Management	2.8	9.7	25.6	5.6			
Environment/CM	2.0	6.5	12.8	2.0			
Requirements	7.7	14.5	20.4	1.6			
Design	3.8	29.0	40.9	1.6			
Implementation	1.6	10.5	86.9	7.7			
Assessment	1.6	8.1	61.3	9.7			

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Deployment	0.6	2.4	7.7	12.1

Your output file is at <a href="http://softwarecost.org/tools/COCOMO/data/COCOMO October 5 2023 07 20 20 306215.txt">http://softwarecost.org/tools/COCOMO/data/COCOMO October 5 2023 07 20 20 306215.txt</a>

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