Coco model calculator used from <a href="http://www.cms4site.ru/utility.php?utility=cocomoii">http://www.cms4site.ru/utility.php?utility=cocomoii</a>

The model required that we input how many lines of code that we thought, which we believed to be around 8,000. Also it required an input of the pricing per hour. We believed that to be around 20 dollars an hour. Due to the complexity of the project we thought 20.00 per hour was appropriate.

	Project Complexity											8,000 Source Lines Of Code
Team Skills	-8	-6	-4	-2	0	2	4	6	8	10	12	1.0 Team Skills
4	12.8 6.6	13.3 6.7	13.9 6.8	14.5 6.9	15.1 7.0	15.7 7.1	16.4 7.2	17.1 7.4	17.8 7.5	18.6 7.6	19.4 7.7	1.12 Project Complexity 20.00 Pricing Per Hour  25.2 Person-Months 503 Person-Days 4,025 Person-Hours 80,496 Total Price 10.06 Price Per Line 16 Lines Per Day/Person 0.7 Duration Years 8.5 Duration Months 170 Duration Days 1,362 Duration Hours 3.0 Average Staffing
3	14.9 7.0	15.5 7.1	16.2 7.2	16.9 7.3	17.6 7.4	18.4 7.6	19.1 7.7	19.9 7.8	20.8 7.9	21.7 8.0	22.6 8.2	
2	17.0 7.3	17.8 7.5	18.5 7.6	19.3 7.7	20.1 7.8	21.0 7.9	21.9 8.1	22.8 8.2	23.8 8.3	24.8 8.5	25.8 8.6	
1	19.2 7.7	20.0 7.8	20.8 7.9	21.7 8.1	22.6 8.2	23.6 8.3	24.6 8.4	25.6 8.6	26.7 8.7	27.9 8.9	29.1 9.0	
0	21.3 8.0	22.2 8.1	23.1 8.2	24.1 8.4	25.2 8.5	26.2 8.7	27.3 8.8	28.5 8.9	29.7 9.1	31.0 9.2	32.3 9.4	
-1	23.4 8.3	24.4 8.4	25.5 8.6	26.5 8.7	27.7 8.8	28.8 9.0	30.1 9.1	31.3 9.3	32.7 9.4	34.1 9.6	35.5 9.7	
-2	25.6 8.6	26.6 8.7	27.8 8.8	29.0 9.0	30.2 9.1	31.5 9.3	32.8 9.4	34.2 9.6	35.6 9.7	37.2 9.9	38.7 10.0	
-3	27.7 8.8	28.9 9.0	30.1 9.1	31.4 9.3	32.7 9.4	34.1 9.6	35.5 9.7	37.0 9.9	38.6 10.0	40.3 10.2	42.0 10.3	
-4	29.8 9.1	31.1 9.2	32.4 9.4	33.8 9.5	35.2 9.7	36.7 9.8	38.3 10.0	39.9 10.1	41.6 10.3	43.4 10.5		

We also decided to test on another calculator that asked for more input, to test if this would affect the results at all. We used the model from

## http://sunset.usc.edu/research/COCOMOII/cocomo81\_pgm/cocomo81.html

We found these two to give very different results. We believe that this second model worked much better, because it asked for more details and could get a better idea of the project rather than just the lines of code and pricing per hour.

## Software Product Size The model uses a product size expressed in source lines of code (SLOC). The bigger the size the larger the effort and the longer the schedule. Please enter the size in SLOC: 8000 Software Development Mode The software project needs to be described with one of three development modes. These modes range from the familiar to the ambitious, tightly constrained development projects. . Choose Organic for relatively small teams developing software in a highly familiar, in-house environment. • Choose Semi-Detached when the team members have some experience related to some aspects of the system under development but not others and the team is composed of experienced and inexperience people . Choose Embedded if the project must operate within a strongly coupled complex of hardware, software, regulations, and operational procedures, such as real-time systems. Choose one: Organic Semi-Detached Embedded There are four categories of cost drivers that are found significant performance predictors for a software development project. Each category has several cost drivers. Each driver has a possible rating from Very Low (VL) to Extra High (XH). The ratings are used in the model to adjust the baseline development effort estimation up or down. For HELP on each cost driver, select the driver name Product Attributes © VL © L © N © H ® VH © XH : <u>Execution Time Constraint</u> © VL © L © N ® H © VH © XH : <u>Main Storage Constraint</u> VL © L © N © H ® VH © XH : <u>Virtual Machine Volatility</u> © VL © L © N ® H © VH © XH : <u>Computer Turnaround Time</u> Personnel Attributes VL ○ L ○ N ○ H ○ VH ○ XH : Analyst Capability VL ○ L ○ N ○ H ○ VH ○ XH : Applications Experience VL ○ L ○ N ○ H ○ VH ○ XH : Programmer Capability VL ○ L ○ N ○ H ○ VH ○ XH : Virtual Machine Experience ○ VL ○ L ② N ○ H ○ VH ○ XH : Programming Language Experience Results: Effort = 89.20 Person Months Schedule = 13.77 Months You submitted the following name / value pairs: • size = 8000 • mode = 1.05 • rely = 1.40 • data = 1.16 • cplx = 1.30 • time = 1.30 • stor = 1.06

• virt = 1.30

• turn = 1.07

• acap = 1.00

• aexp = 1.00

pcap = 1.00vexp = 1.00

• lexp = 1.00

• lexp - 1.00

• modp = 0.82

• tool = 0.91 • sced = 1.04

Thank you for your interest in this model.