

Table C34 PSP1 Project Plan Summary

Student	Michael Smith	Date	02/15/18
Program	Correlation Calculator	Program #	3
Instructor	Dr. Concepcion	Language	C++

Summary	Plan	Actual	To Date
LOC/Hour	38.2	77.0	77.0

Program Size (LOC):	Plan	Actual	To Date
Base(B)	0	0	
	(Measured)	(Measured)	
Deleted (D)	0	0	
	(Estimated)	(Counted)	
Modified (M)	0	0	
	(Estimated)	(Counted)	
Added (A)	22.50	87	
	(N-M)	(T-B+D-R)	
Reused (R)	85	85	49.4
	(Estimated)	(Counted)	
Total New & Changed (N)	22.5	87	50.6
	(Estimated)	(A+M)	
Total LOC (T)	114.5	172	100
	(N+B-M-D+R)	(Measured)	
Total New Reused	0	0	0

Time in Phase (min.)	Plan	Actual	To Date	To Date %
Planning	9	15	46	5.0
Design	16.56	25	84	9.2
Code	94.14	52	482	52.3
Compile	12.42	1	64	6.9
Test	26.46	21	135	14.7
Postmortem	21.42	20	110	11.9
Total	180	134	921	100

Defects Injected	Actual	To Date	To Date %
Planning	0	0	0
Design	0	2	22.2
Code	0	7	77.8
Compile	0	0	0
Test	0	0	0
Total Development	0	9	100

Defects Removed	Actual	To Date	To Date %
Planning	0	0	0
Design	0	0	0
Code	0	2	22.2
Compile	0	6	66.7
Test	0	1	11.1
Total Development	0	9	100
After Development			

TABLE C39 SIZE ESTIMATING TEMPLATE

Student	Michael Smith			Date	02/15/18	
Instructor	Dr. Concepcion			Program #	3	
BASE PROGRAM LOC				ESTIMATE	ACTUAL	
BASE SIZE (B) => => => => => => => =>					0	
LOC DELETED (D) => => => => => => => =>					0	
LOC MODIFIED (M) => => => => => => => =>					0	
OBJECT LOC						
BASE ADDITIONS	TYPE ¹	METHODS	REL. SIZE	LOC	LOC	
		2				
TOTAL BASE ADDITIONS (BA) => => => => => =>					0	
NEW OBJECTS	TYPE	METHODS	REL. SIZE	LOC (New Reused*)		
Stats		2	Medium	22.50		
TOTAL NEW OBJECTS (NO) => => => => => =>				22.50		
REUSED OBJECTS						
Singly list					85	
Node					7	
REUSED TOTAL (R) => => => => => =>					92	
				SIZE	TIME	
Estimated Object LOC (E):	E=BA+NO+M			22.50		
Regression Parameters:	β_0 (size and time)			0	0	
Regression Parameters:	β_1 (size and time)			1	1.3	
Estimated New and Changed LOC (N):	N= $\beta_0 + \beta_1 * E$			22.50		
Estimated Total LOC:	T=N+B-D-M+R					
Estimated Total New Reuse (sum of * LOC):						
Estimated Total Development Time:	Time= $\beta_0 + \beta_1 * E$				29.25	
Prediction Range:	Range			±15	±25	
Upper Prediction Interval:	UPI=N+Range			37.5	54.25	
Lower Prediction Interval:	LPI=N-Range			7.5	4.25	
Prediction Interval Percent:						

¹L=Logic, I=I/O, C=Calculation, T=Text, D=Data, S=Set-up