Table C34 PSP1 Project Plan Summary

Student	Aaron Chamberlain	Date	2-29-16
Program	Linear Regression Calculation	Program #	5
Instructor	Dr. Concepcion	Language	Python

Summary	***Plan***	***Actual***	***To Date***
LOC/Hour	49.3	25.7	48.35

Program Size (LOC):	***Plan***	**Actual**	**To Date**
Base(B)	39 (Measured)	39 (Measured)	
Deleted (D)	0 (Estimated)	0 (Counted)	
Modified (M)	0 (Estimated)	0 (Counted)	
Added (A)	5.13 (N-M)	6 (T-B+D-R)	
Reused (R)	0 (Estimated)	0 (Counted)	0
Total New & Changed (N)	0 (Estimated)	6 (A+M)	177
Total LOC (T)	44.13 (N+B-M-D+R)	45 (Measured)	274
Total New Reused	0	0	0

Time in Phase (min.)	**Plan**	**Actual**	**To Date**	**To Date %**
Planning	1	2	26	7.6%
Design	1	2	26	7.6%
Code	10	5	185	54.3%
Compile	0.75	1	15	4.3%
Test	3	3	63	18.4%
Postmortem	3	1	27	7.8%
Total	18.75	14	340	100%

Defects Injected	**Actual**	**To Date**	**To Date %**
Planning	0	0	0.0%
Design	0	0	0.0%
Code	0	3	75%
Compile	0	0	0.0%
Test	0	1	25%
Total Development	0	4	100%

Defects Removed	**Actual**	**To Date**	**To Date %**
Planning	0	0	0.0%
Design	0	0	0.0%
Code	0	1	25%
Compile	0	1	25%
Test	0	2	50%
Total Development	0	4	100%
After Development	0	0	

TABLE C39 SIZE ESTIMATING TEMPLATE

Student: Aaron Chamberlain Date: 2-29-16

Instructor: Dr. Concepcion Program #: 5

BASE PROGRAM LOC	ESTIMATE	ACTUAL
BASE SIZE (B) => => => => => => => => => =>	39	39
LOC DELETED (D) => => => => => => => => =>	0	0
LOC MODIFIED (M) => => => => => => => => =>	0	0

OBJECT LOC

BASE ADDITIONS	TYPE[1]	METHODS	REL. SIZE	LOC	LOC
Table Input	C	1	Small	5.13	6
TOTAL BASE ADDITIONS (BA)=> => => => => =>				5.13	6

NEW OBJECTS	TYPE	METHODS	REL. SIZE	LOC (New Reused*)	
TOTAL NEW OBJECTS (NO)=> => => => => => =>				0	0

REUSED OBJECTS

Table Input	39	39
REUSED TOTAL (R) => => => => => => =>	39	39

		SIZE	TIME
Estimated Object LOC (E):	E=BA+NO+M	5.13	
Regression Parameters:	β_0 (size and time)	0	0
Regression Parameters:	β_1 (size and time)	1.23	1.54
Estimated New and Changed LOC (N):	N=β_0+β_1*E	6.31	
Estimated Total LOC:	T=N+B−D−M+R	84.31	
Estimated Total New Reuse (sum of * LOC):		0	
Estimated Total Development Time:	Time=β_0+β_1*E		7.90
Prediction Range:	Range	±10	± 2
Upper Prediction Interval:	UPI=N+Range	16.31	8.31
Lower Prediction Interval:	LPI=N−Range	-3.69	4.31
Prediction Interval Percent:		-	-

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