Size Estimating Template

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Program: 4B Number: 6
Instructor: Dr. Concepcion Language: C++

BASE PROGRAM LOC	ESTIMATE	ACTUAL
BASE SIZE (B)	216	216
LOC DELETED (D)	5	4
LOC MODIFIED (M)	5	2

OBJECT LOC

BASE ADDITIONS	TYPE	METHODS	REL. SIZE	LOC	LOC
Input	I/O	6	Medium	99	228
TOTAL BASE ADDITIONS (BA)				99	228

NEW OBJECTS	TYPE	METHODS	REL. SIZE	LOC (New Reuse*)	
FileCheck	I/O	1	Small	12	19*
TOTAL NEW OBJECTS				12	19

REUSED OBJECTS

StringToFloat (3B)	50	50
REUSED TOTAL	50	50

PROBE Estimating Method:		SIZE C	TIME C
Estimated Object LOC (E):	E=BA+NO+M	116	
Regression Parameters:	β_0(size and time)	0	0
Regression Parameters:	β_1(size and time)	1.35254	1.91818
Estimated New and Changed LOC (N):	$N=\beta_0+\beta_1*E$	156.9	
Estimated Total LOC:	T=N+B-D-M+R	412.9	
Estimated Total New Reuse (sum of * LOC):		12	
Estimated Total Development Time:	$Time=\beta_0+\beta_1*E$		222.5
Prediction Range:	Range	20	20
Upper Prediction Interval:		176.9	242.5
Lower Prediction Interval:		136.9	202.5
Prediction Interval Percent:		N/A	N/A