## **Table C34 PSP1 Project Plan Summary**

| Student                                 | Michael Smith          |                               | Date      | 02/15/18           |                     |                |  |
|---|------------------------|-------------------------------|-----------|--------------------|---------------------|----------------|--|
| Program                                 | Correlation Calculator |                               | Program   | # 3                |                     |                |  |
| Instructor                              | Dr. Concepcion         |                               |           |                    | Language            | C++            |  |
| Summary<br>LOC/Hour                     |                        | 38.2                          | Plan      | <b>Actual</b> 77.0 |                     | <b>To Date</b> |  |
| Program Size (LOC): Base(B) Deleted (D) |                        | Plan  (Measured)  (Estimated) |           | 0                  | Actual              | To Date        |  |
|   |                        |                               |           | 0                  | Measured)  Counted) |                |  |
| Modified (M)                            |                        | (Estimated) 0 (Estimated)     |           | 0                  | Counted)            |                |  |
| Added (A)                               |                        | 22.50 (N-M)                   |           | 87                 | Γ-B+D-R)            |                |  |
| Reused (R)                              |                        | 85 (Estimated)                |           | 85                 | Counted)            | 49.4           |  |
| Total New & Changed (N)                 |                        | 22.5 (Estimated)              |           | 87                 | (A+M)               | 50.6           |  |
| Total LOC (T)                           |                        | 114.5<br>(N+B-M-D+R)          |           |                    | Measured)           | 100            |  |
| Total New Reused                        |                        | 0                             |           | 0                  |                     | 0              |  |
| <b>Time in Phase</b> Planning           | (min.)                 | Pla<br>9                      | <b>nn</b> | Actual             | To Date             | To Date %      |  |
| Design                                  |                        | 16.56                         | 25        |                    | 84                  | 9.2            |  |
| Code                                    |                        | 94.14                         | 52        |                    | 482                 | 52.3           |  |
| Compile                                 |                        | 12.42                         | 1         |                    | 64                  | 6.9            |  |
| Test                                    | Test                   |                               | 26.46 21  |                    | 135                 | 14.7           |  |
| Postmortem                              |                        | 21.42 20                      |           |                    | 110                 | 11.9           |  |
| Total                                   |                        | 180                           |           | 1                  | 921                 | 100            |  |
| Defects Injected                        | d                      |                               |           | 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 Develop                           | oment                  |                               | 0         |                    | 9                   | 100            |  |
| <b>Defects Removed</b>                  |                        |                               |           | 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 Develop                           | ment                   |                               | _         |                    |                     |                |  |

| BASE SIZE (B) $\Rightarrow$   | TABLE C39 SIZE ESTIM         | Date                 | 02/15/18                  |                   |           |             |
|---|------------------------------|----------------------|---------------------------|-------------------|-----------|-------------|
| BASE PROGRAM LOC       ESTIMATE       ACTUAL         BASE SIZE (B) => => => => => => => => => => => => =>   | Instructor Dr. Conce         | pcion                |                           | Program           | #         | 3           |
| LOC MODIFIED (M) $=>=>=>=>=>=>=>=>=>=>=>=>=>=>=>=>=>=>=>$   |                              | > => => =:           |                           | E                 |           | ACTUAL<br>0 |
| OBJECT-LOC BASE ADDITIONS  TYPE¹  METHODS  REL. SIZE  LOC  LOC  TOTAL BASE ADDITIONS (BA)=> => => => => 0  NEW OBJECTS  TYPE  METHODS  REL. SIZE  LOC (New Reused¹)  Stats  2  Medium  22.50  TOTAL NEW OBJECTS (NO)=> => => => => => => => 22.50  REUSED OBJECTS  Singly_llist  Node  7  REUSED TOTAL (R) => => => => => => => => => 92  SIZE  TIME  Estimated Object LOC (E):  E=BA+NO+M  Regression Parameters: $\beta_0$ (size and time)  Regression Parameters: $\beta_1$ (size and time)  Estimated New and Changed LOC (N): $N = \beta_0 + \beta_1 * E$ 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  Eprediction Range:  Range  #15  #25  LOC  LOC  LOC  LOC  LOC  LOC  LOC  LO   | LOC DELETED (D) =>           | > => => =            | > => => =                 | => => _           |           | . 0         |
| BASE ADDITIONS TYPE¹ METHODS REL. SIZE LOC LOC  2  TOTAL BASE ADDITIONS (BA)=> => => => => => 0  NEW OBJECTS TYPE METHODS REL. SIZE LOC (New Reused¹)  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: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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  Estimated Total Development Time: Time= $\beta_0$ + $\beta_1$ *E 29.25  UPI=N+Range ±15 42.5  LOC (New Reused¹)  1   | LOC MODIFIED (M) =>          | -> => =>             | > => => =                 | => => _           |           | 0           |
| 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_llist 85  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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  Jupper Prediction Interval: UPI=N+Range 37.5 54.25  LOC (New Reused*)  0 0  1.3  |                              | PE <sup>1</sup> METH | ODS REL                   | SIZE              | LOC       | LOC         |
| 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: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ - $\beta_1$ *E 29.25  UPI=N+Range $\beta_0$ - $\beta_1$ - $\beta$ |                              | 2                    |                           |                   |           |             |
| 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: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ - $\beta_1$ *E 29.25  UPI=N+Range $\beta_0$ - $\beta_1$ - $\beta$ |                              |                      | -                         |                   | 3 1 4 2 1 |             |
| 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: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ - $\beta_1$ *E 29.25  UPI=N+Range $\beta_0$ - $\beta_1$ - $\beta$ |                              |                      |                           |                   |           |             |
| Stats 2 Medium 22.50  TOTAL NEW OBJECTS (NO)=> => => => => => => 22.50  REUSED OBJECTS Singly_llist 85  Node 7  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ 4.25  UPI=N+Range 7.5 4.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   | TOTAL BASE ADDITIONS         | (BA)=> =>            | => => =>                  | > =>              |           | 0           |
| TOTAL NEW OBJECTS (NO)=> => => => => => 22.50  REUSED OBJECTS Singly_llist  Node  7  REUSED TOTAL (R) => => => => => => 92  SIZE  TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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  Prediction Range: Range 15 425  UPI=N+Range 37.5 54.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   | NEW OBJECTS TY               | PE METH              | ODS REL.                  | SIZE              | LOC (New  | Reused')    |
| REUSED OBJECTS Singly_llist 85  Node 77  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ + $\beta_1$ *E 29.25  Upl=N+Range $\beta_0$ + $\beta_1$ *E 37.5 54.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   | Stats                        | 2                    | Medium                    | n 22              | 2.50      |             |
| REUSED OBJECTS Singly_llist 85  Node 77  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ + $\beta_1$ *E 29.25  Upl=N+Range $\beta_0$ + $\beta_1$ *E 37.5 54.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   |                              |                      |                           |                   |           |             |
| REUSED OBJECTS Singly_llist 85  Node 77  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ + $\beta_1$ *E 29.25  Upl=N+Range $\beta_0$ + $\beta_1$ *E 37.5 54.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   |                              |                      | The State                 | 7 -               |           |             |
| REUSED OBJECTS Singly_llist 85  Node 77  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ + $\beta_1$ *E 29.25  Upl=N+Range $\beta_0$ + $\beta_1$ *E 37.5 54.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   |                              |                      |                           | 7                 |           |             |
| REUSED OBJECTS Singly_llist 85  Node 77  REUSED TOTAL (R) => => => => => => 92  SIZE TIME  Estimated Object LOC (E): E=BA+NO+M 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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 $\beta_0$ + $\beta_1$ *E 29.25  Upl=N+Range $\beta_0$ + $\beta_1$ *E 37.5 54.25  Lower Prediction Interval: LPI=N-Range 7.5 4.25   |                              |                      |                           | <del></del>       |           |             |
| Singly_Illist       85         Node       7         REUSED TOTAL (R) => => => => => => => => => => => => =>   | TOTAL NEW OBJECTS (NO        | O)=> => =            | > => => :                 | => => 22          | .50       |             |
| REUSED TOTAL (R) $\Rightarrow$  | REUSED OBJECTS Singly_llist  |                      |                           |                   |           | 85          |
| Estimated Object LOC (E): $E=BA+NO+M$ 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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: $Range$  | Node                         | •                    |                           | 7 2 2 2           | Yen Yen   | 7           |
| Estimated Object LOC (E): $E=BA+NO+M$ 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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: $Range$  |                              |                      |                           |                   |           |             |
| Estimated Object LOC (E): $E=BA+NO+M$ 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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: $Range$  |                              |                      |                           |                   |           |             |
| Estimated Object LOC (E): $E=BA+NO+M$ 22.50  Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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   | REUSED TOTAL (R) =>          | > => => =            | > => => =                 | =>                |           | 92          |
| Regression Parameters: $\beta_0$ (size and time) 0 0  Regression Parameters: $\beta_1$ (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: $Range$ $15$ $25$ Upl=N+Range 37.5 54.25  Lower Prediction Interval: $Range$ 7.5 4.25   |                              |                      |                           |                   | SIZE      | TIME        |
| Regression Parameters: $\beta_1$ (size and time) $\frac{1}{22.50}$ Estimated New and Changed LOC (N): $N = \beta_0 + \beta_1^* = \frac{22.50}{2.50}$ Estimated Total LOC: $T = N + B - D - M + R$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Prediction Range: $E = \frac{1}{20.50}$ Time $E = \frac{1}{20.50}$ Prediction Range: $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Time $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total Development Time: $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ UPI $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (sum of * LOC): $E = \frac{1}{20.50}$ Estimated Total New Reuse (su   | Estimated Object LOC (E):    |                      | E=BA+NO                   | +M 22.            | 50        |             |
| 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: $Range$ $15$ $25$ Upl=N+Range 37.5 54.25  Lower Prediction Interval: $LPI=N-Range$ 7.5 4.25   | Regression Parameters:       | $\beta_0$ (size and  | time) 0                   |                   | 0         |             |
| 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 $\pm 15$ $\pm 25$ Upper Prediction Interval: $UPI=N+Range$ 37.5 54.25  Lower Prediction Interval: $LPI=N-Range$ 7.5 4.25   | Regression Parameters:       | $\beta_1$ (size and  | time) 1                   |                   | 1.3       |             |
| Estimated Total New Reuse (sum of * LOC):  Estimated Total Development Time:  Prediction Range:  Range  H15  H25  UPI=N+Range  TIME= $\beta_0+\beta_1$ *E  UPI=N+Range  TIME= $\beta_0+\beta_1$ *E  TIME= $\beta_0+\beta_1$ *   | Estimated New and Changed    | <u>22</u> .          | 50                        |                   |           |             |
| Estimated Total Development Time: Time= $\beta_0 + \beta_1$ *E $\frac{29.25}{1.5}$ Prediction Range: Range $\frac{15}{1.5}$ $\frac{15}{1.5}$ UPI=N+Range $\frac{37.5}{1.5}$ $\frac{54.25}{1.5}$ Lower Prediction Interval: LPI=N-Range $\frac{7.5}{1.5}$ $\frac{4.25}{1.5}$   | Estimated Total LOC:         | -M+R_                |                           |                   |           |             |
| Prediction Range: : Range $\pm 15$ $\pm 25$ Upper Prediction Interval: : UPI=N+Range $\pm 15$ $\pm 25$ Lower Prediction Interval: LPI=N-Range $\pm 15$ $\pm 25$ LPI=N-Range $\pm 15$ $\pm 25$   | Estimated Total New Reuse (  | sum of * LOC         | ):                        |                   |           |             |
| UPI=N+Range 37.5 54.25  LOWer Prediction Interval: LPI=N-Range 7.5 4.25   | Estimated Total Development  | Time:                | Time= $\beta_0 + \beta_0$ | 3 <sub>1</sub> *E |           | 29.25       |
| Jpper Prediction Interval:     uPI=N+Range     37.5     54.25       Lower Prediction Interval:     LPI=N-Range     7.5     4.25   | Prediction Range:            |                      | Range                     | ±1                | 5         | ±25         |
|   | Upper Prediction Interval:   |                      | UPI=N+Ra                  | inge 37.          | 5         | 54.25       |
| Prediction Interval Percent:  | Lower Prediction Interval:   |                      | LPI=N-Ra                  | nge 7.5           |           | 4.25        |
|   | Prediction Interval Percent: |                      |                           |                   |           |             |

<sup>&</sup>lt;sup>1</sup>L=Logic, I=I/O, C=Calculation, T=Text, D=Data, S=Set-up