

# /Non Project/PSP for Engineers/Program 3

## Size Estimating Template

Project Owner

Size Measure

| BASE PARTS | Estimated |         |          |       | Actual |         |          |       |
|------------|-----------|---------|----------|-------|--------|---------|----------|-------|
|            | BASE      | DELETED | MODIFIED | ADDED | BASE   | DELETED | MODIFIED | ADDED |
| Prog1      | 97        | 17      | 15       | 30    | 97     | 29      | 68       | 31    |
| Total:     | 97        | 17      | 15       | 30    | 97     | 29      | 68       | 31    |

| PARTS ADDITIONS | Estimated |       |              |      |                                     |  | Actual |       |                                     |
|-----------------|-----------|-------|--------------|------|-------------------------------------|--|--------|-------|-------------------------------------|
|                 | TYPE      | ITEMS | REL. SIZE    | SIZE | NR                                  |  | SIZE   | ITEMS | NR                                  |
| Program3        | Logic     | ▼ 1   | Small ▼      | 11   | <input type="checkbox"/>            |  | 16     | 1     | <input type="checkbox"/>            |
| FileReader      | I/O       | ▼ 1   | Large ▼      | 21.6 | <input checked="" type="checkbox"/> |  | 22     | 1     | <input checked="" type="checkbox"/> |
| Pair            | Data      | ▼ 1   | Small ▼      | 0    | <input checked="" type="checkbox"/> |  | 9      | 1     | <input checked="" type="checkbox"/> |
| Output          | I/O       | ▼ 1   | Very Small ▼ | 0    | <input type="checkbox"/>            |  | 9      | 1     | <input type="checkbox"/>            |
| Total:          |           |       |              | 32.6 |                                     |  | 56     |       |                                     |

| REUSED PARTS | Estimated | Actual |
|--------------|-----------|--------|
|              | SIZE      | SIZE   |
|              | 0         | 0      |
| Total:       | 0         | 0      |

| TOTAL SIZE                       | Actual |
|----------------------------------|--------|
|                                  | SIZE   |
| Actual Size of Finished Product: |        |
|                                  | 156    |

|  |                                    | SIZE | TIME |
|--|------------------------------------|------|------|
| Added Size (A):                              | $A = BA + PA$                      | 62.6 |      |
| Estimated Proxy Size (E):                    | $E = BA + PA + M$                  | 77.6 |      |
| PROBE estimating basis used: (A, B, C, or D) |                                    | C    | C2   |
| Correlation: ( $r^2$ )                       |                                    | N/A  | N/A  |
| Regression Parameters:                       | $B_0$ (size and time)              | 0    | 0    |
| Regression Parameters:                       | $B_1$ (size and time)              | 1.59 | 5.73 |
| Projected Added and Modified Size (P):       | $P = B_{0size} + B_{1size} * E$    | 123  |      |
| Estimated Total Size (T):                    | $T = P + B - D - M + R$            | 188  |      |
| Estimated Total New Reusable (NR):           | (sum of NR items)                  | 21.6 |      |
| Estimated Total Development Time:            | $Time = B_{0time} + B_{1time} * E$ |      | 7:25 |
| Prediction Range:                            | Range                              | N/A  | N/A  |
| Upper Prediction Interval:                   | $UPI = P + Range$                  | N/A  | N/A  |
| Lower Prediction Interval:                   | $LPI = P - Range$                  | N/A  | N/A  |
| Prediction Interval Percent:                 |                                    | N/A  | N/A  |