|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Number | Complexity weighting factor | Value=0 | Value=1 | Value=2 | Value=3 | Value=4 | Value=5 | Fi |
| 1 | Backup and recovery | 0 | 0 | 0 | 0 | 0 | 1 | 5 |
| 2 | Data communications | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 3 | Distributed processing | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 4 | Performance critical | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| 5 | Existing operating environment | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 6 | On-line data entry | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| 7 | Input transaction over multiple screens | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 8 | Master files updated online | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 9 | Information domain values complex | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 10 | Internal processing complex | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| 11 | Code designed for reuse | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| 12 | Conversion/installation in design | 0 | 0 | 0 | 0 | 1 | 0 | 4 |
| 13 | Multiple installations | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| 14 | Application designed for change | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
|  | Total |  |  |  |  |  |  | 41 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Info Domain | Optimistic | Likely | Pessimistic | Est Count | Weight | FP count |
| # of Inputs | 2 | 4 | 6 | 4 | 4 | 16 |
| # of Outputs | 8 | 11 | 14 | 11 | 5 | 55 |
| # of Inquiries | 2 | 4 | 6 | 4 | 4 | 16 |
| # of Files | 1 | 2 | 3 | 2 | 10 | 20 |
| # of External Interfaces | 1 | 2 | 3 | 2 | 10 | 20 |
|  | UFC : unadjusted Function Count | | | | | 127 |
|  |  | Complexity adjustment factor | | | | 1.06 |
|  |  |  |  |  | FP | 135 |

C#=59 LOC/FP

LOC=135\*59=7965

1)LOC approach:

Assuming

Estimated project LOC = 7965 LOC

350 LOC/p-m

Burdened labour rate = 8000 $/p-m

Then

Effort = 7965/350 = 23 p-m

Cost per LOC = 8000/350 = (12.9) = 23 $/LOC

Project total Cost = 8000 \* 23 = 18400 $

2)FP approach:

Assuming

Estimated FP = 135

5.5 FP/p-m

Burdened labour rate = 8000 $/p-m

Then

Estimated effort = 135/5.5 = 25 p-m

Cost per FP = 8000/5.5 = 1455 $/FP

Project cost = 8000 \* 25 = 20,000 $