# Cost, Effort, Pricing Estimation

Suite software uses the Function Point method to calculate it’s theoretical time needed to complete the software. With this theoretical time we can break down how much staff we want to hire and plan the wages for those hires. With the calculations provided below, Suite software has concluded that the effort/cost needed to complete this project is 10 person-weeks.

Function Point Method

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Function Category | Count | Complexity  Simple Average Complex | | | Count x Complexity |
| 1 | Number of user input | 9 | 3 | 4 | 6 | 27 |
| 2 | Number of user output | 6 | 4 | 5 | 7 | 24 |
| 3 | Number of user queries | 18 | 3 | 4 | 6 | 54 |
| 4 | Number if data files and relational tables | 50 | 7 | 10 | 15 | 350 |
| 5 | Number of external interfaces | 5 | 5 | 7 | 10 | 25 |

GFP 480 FP

Processing Complexity (1-5, 5 being the most complex)

1. Does the system require reliable backup and recovery? 5
2. Are data communications required? 4
3. Are there distributed processing functions? 2
4. Is performance critical? 4
5. Will the system run in an existing, heavily utilized operational environment? 5
6. Does the system require online data entry? 5
7. Does the online data entry require the input transaction to be built over multiple screens or operations? 5
8. Are the master files updated online? 4
9. Are the inputs, outputs, files, or inquiries complex? 2
10. Is the internal processing complex? 5
11. Is the code designed to be reusable? 3
12. Are conversion and installation included in the design? 5
13. Is the system designed for multiple installations in different organizations? 3
14. Is the application designed to facilitate change and ease of use by the user? 5

PCA = 0.65 + 0.01 \* (5 + 4 + 2 + 4 + 5 + 5 + 5 + 4 + 2 + 5 + 3 + 5 + 3 + 5) = 1.22

FP = GFP \* PCA = 480 + 1.22 = 585.6 FP

E = FP/productivity = 585.6/ 60 functions per person ≈ 10 person-weeks