**Inputs**:

1. If an input has no. of fields greater than 7, then it is a complex input.
2. If input involves validation and/or interdependencies and has no. fields between 4 and 6, then the input is complex.
3. If input is in between 4 and 6 and has no interdependencies or validations, then it is average input.
4. If input involves validation and/or interdependencies and has no. fields between 2 and 5, then the input is average.
5. Else, input is simple.

**Outputs**:

1. Outputs have forms or web pages objects, etc. are complex outputs.
2. Outputs having simple html pages are simple outputs.
3. Else otherwise outputs are average.

**Data Stores**:

1. Data stores having 3 or less attributes and no links to other data stores are simple data stores.
2. Data stores having 4 to 5 attributes and doesn’t have links to other data stores are average data stores.
3. Data stores having 2 to 3 attributes and have links to other data stores are average data stores.
4. Else, data stores are complex data stores.

**Processing Inquiries**:

1. If the query needs to access less than 3 attributes then the query is simple.
2. If the query needs to access 4 to 7 attributes then the query is average.
3. Else otherwise the query is complex.

**Processing Updates**:

1. Updates in complex data store are complex.
2. Updates in average data store are average.
3. Updates in simple data store are simple.

**Counts**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Simple | Average | Complex |
| Inputs | 1+4+7 | 1+1+3 | 0+3+2 |
| Outputs | 1+3+3 | 1+2+6 | 1+3+4 |
| Data stores | 1 | 3 | 3 |
| Processing inquires | 1+4+4 | 4+4+2 | 0+3+7 |
| Processing updates | 0+0+1 | 0+2+1 | 0+5+5 |
| External interfaces | 0 | 0 | 2 |

**Weights**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Simple | Average | Complex |
| Inputs | 2 | 4 | 6 |
| Outputs | 3 | 5 | 7 |
| Data stores | 5 | 10 | 15 |
| Processing inquires | 2 | 4 | 8 |
| Processing updates | 4 | 8 | 12 |
| External interfaces | 4 | 6 | 8 |

**Functional Points**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Simple | Average | Complex |
| Inputs | 24 | 20 | 30 |
| Outputs | 21 | 45 | 56 |
| Data stores | 5 | 30 | 45 |
| Processing inquires | 18 | 40 | 80 |
| Processing updates | 4 | 24 | 120 |
| External interfaces | 0 | 0 | 16 |
| TOTAL | 72 | 159 | 347 |

Calculating Adjusted Function Points 578

1. Data Communications 3

2. Distributed Data Processing 0

3. Performance 5

4. Heavily Used Configuration 4

5. Transaction Rate 3

6. On-line Data Entry 5

7. End -User Efficiency 3

8. On-line Update 2

9. Complex Processing 4

10. Reusability 5

11. Installation Ease 3

12. Operational Ease 3

13. Multiple Sites 0

14. Facilitate Change 3

Adjustment Influence (AI): 43

CAF = 0.65+0.01\*AI

CAF = 1.08

Adjusted Function Points = Un-Adjusted Function Points \* CAF = 625(Approx)

Assuming Professionals perform at an average of 10 function points per month

625 Function Points Divided by 10 = ~63 Person-months

Distributing 625 FP as Follows

* SRS 5%
* Analysis 12%
* Design 16%
* Coding & Unit Testing 40%
* Integration & System Testing 15%
* User Acceptance Testing 10%
* Training & Deployment 2%