# FUNCTION POINT COUNTING FACILITY

*This Excel Workbook provides a complete function point counting facility. It enables you to:*
*. identify and count the individual components of an application,*
*. enter an adjustment factor,*
*. compute an overall estimate of effort.*

## Instructions

### Steps

**1** *1. Identify the project or application being counted.*

*2. List and analyze each of the components of the application.*

**2a** *Internal Logical Files (ILFs)*

**2b** *External Interface Files (EIFs)*

**2c** *External Inputs (EIs)*

**2d** *External Outputs (EOs)*

**2e** *External Queries (EQs)*

**3** *3. Review the Unadjusted Function Point Count.*

**4** *4. Calculate the Value Adjustment Factor.*

**5** *5. Identify a Calibration Factor.*

**6** *6. Identify a Function Point Delivery Rate (in function points per person-month)*

**7** *7. Identify a conversion factor (person-months to person-days).*

**8** *8. Review the high level estimate of total effort.*

# SUMMARY

**Instructions** **Return**

| Project Identification | |
|---|---|
| Customer Name | |
| Project Name | |
| Project Code | |
| Analyst | |
| Date | |

| Summary Estimates | | |
|---|---|---|
| Unadjusted Function Point Count | | *From FP worksheet* |
| Processing Complexity Adjustment Factor | | *From PCA worksheet* |
| Adjusted Function Point Count (AFP) | | *Calculated: (FP*PCA)* |
| Calibration Factor (CF) | | *See note* |
| Total Function Point Measure (TFP) | | *Calculated: (AFP*CF)* |
| Delivery Rate (DR) in FPs/person month | | *See note* |
| Days per person-month (DPM) | | *See note* |
| **High Level Effort Estimate (in person-days)** | | *Calculated: (TFP/DR) * DPM* |

***Diagnostics***

*1. Enter project identification data.*
*2. Check FP worksheet to review Unadjusted Function Point Count.*
*3. Use PCA worksheet to identify the Processing Complexity Adjustment Factor.*
*4. Enter a calibration factor.*
*5. Enter a delivery rate in FPs/person-month. Delivery rate can not be zero*
*6. Enter a factor for converting person-months to person-days.*

# VALUE ADJUSTMENT FACTOR (VAF)

**Instructions** **Return**

| General Systems Characteristics | Degree of Influence (0-5) | Description |
|---|---|---|
| 1. Data Communications | | |
| 2. Distributed Processing | | |
| 3. Performance | | |
| 4. Heavily Used Configuration | | |
| 5. Transaction Rates | | |
| 6. Online Data Entry | | |
| 7. Design for End User Efficiency | | |
| 8. Online Update | | |
| 9. Complex Processing | | |
| 10. Usable in Other Applications | | |
| 11. Installation Ease | | |
| 12. Operational Ease | | |
| 13. Multiple Sites | | |
| 14. Facilitate Change | | |
| Total Degree of Influence (TDI) | | *Calculated (sum of the above)* |
| **Value Adjustment Factor (VAF)** | | *Calculated ((TDI*0.01)+0.65)* |

***Diagnostics***

*Enter a value for each general system characteristic.*
*Degree of influence values must be 0-5.*

## UNADJUSTED FUNCTION POINT COUNT (FP)

**Instructions** **Return**

| Function Type | Functional Complexity | Count | Weight | Function Points (FPs) | FP % |
|---|---|---|---|---|---|
| Internal Logical Files (ILFs) | Low | 0 | 7 | 0 | |
| | Average | 0 | 10 | 0 | |
| | High | 0 | 15 | 0 | |
| External Interface Files (EIFs) | Low | 0 | 5 | 0 | |
| | Average | 0 | 7 | 0 | |
| | High | 0 | 10 | 0 | |
| External Inputs (EIs) | Low | 0 | 3 | 0 | |
| | Average | 0 | 4 | 0 | |
| | High | 0 | 6 | 0 | |
| External Outputs (EOs) | Low | 0 | 4 | 0 | |
| | Average | 0 | 5 | 0 | |
| | High | 0 | 7 | 0 | |
| External Queries (EQs) | Low | 0 | 3 | 0 | |
| | Average | 0 | 4 | 0 | |
| | High | 0 | 6 | 0 | |
| **Total Unadjusted Function Point Count** | | | | **0** | **0%** |

***Diagnostics***

*1. Use ILF worksheet to identify and analyze Internal Logical Files.*
*2. Use EIF worksheet to identify and analyze External Interface Files.*
*3. Use EI worksheet to identify and analyze External Inputs.*
*4. Use EO worksheet to identify and analyze External Outputs.*
*5. Use EQ worksheet to identify and analyze External Queries.*

## INTERNAL LOGICAL FILES (ILFs)

**Instructions** **Insert New Row** **Return**

| List of files | # of DETs | # of RETs | Complexity | | | Notes and Assumptions |
|---|---|---|---|---|---|---|
| | | | Low | Average | High | |
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| **Summary** | | | **0** | **0** | **0** | |

## EXTERNAL INTERFACE FILES (EIFs)

**Instructions** **Insert New Row** **Return**

| List of files | # of DETs | # of RETs | Complexity | | | Notes and Assumptions |
|---|---|---|---|---|---|---|
| | | | Low | Average | High | |
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| **Summary** | | | **0** | **0** | **0** | |

## EXTERNAL INPUTS (EIs)

**Instructions** **Insert New Row** **Return**

| List of inputs | # of DETs | # of FTRs | Complexity | | | Notes and Assumptions |
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| | | | Low | Average | High | |
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| **Summary** | | | **0** | **0** | **0** | |

## EXTERNAL OUTPUTS (EOs)

**Instructions** **Insert New Row** **Return**

| List of Outputs | # of DETs | # of FTRs | Complexity | | | Notes and Assumptions |
|---|---|---|---|---|---|---|
| | | | Low | Average | High | |
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| **Summary** | | | **0** | **0** | **0** | |

## EXTERNAL QUERIES (EQs)

**Instructions** **Insert New Row** **Return**

| List of Queries | Input Side | | | Output Side | | | Complexity | | | Notes and Assumptions |
|---|---|---|---|---|---|---|---|---|---|---|
| | # of DETs | # of FTRs | Cmplxty | # of DETs | # of FTRs | Cmplxty | Low | Average | High | |
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