

6.1 ESTIMATION OF PROJECT MATRICES

6.1.1 Function Point Analysis:

Objectives of FPA: The basic and primary purpose of the functional point analysis is to measure and provide the software application functional size to the client, customer, and the stakeholder on their request. Further, it is used to measure the software project development along with its maintenance, consistently throughout the project irrespective of the tools and the technologies.

Types of FP Attributes

Measurements Parameters

1. Number of External Inputs (EI)
2. Number of External Output (EO)
3. Number of external inquiries (EQ)
4. Number of internal files (ILF)
5. Number of external interfaces (EIF)

Examples

Input screen and tables
Output screens and reports
Prompts and interrupts.
Databases and directories
Shared databases and shared
Routines.

6.1.2 COCOMO Model:

- $E = ab(KLOC)^b$

- $D = cb(E)b$

- $P = E / D$

Where E refers to the effort,D refers to the deployment time ,P refers to the productivity and a_b, b_b, c_b, d_b are called as coefficients.

Project	a_b	b_b	c_b	d_b
Organic mode	2.4	1.05	2.5	0.38
Semidetached mode	3.0	1.12	2.5	0.35
Embedded mode	3.6	1.20	2.5	0.32