



UNIVERSITY
OF WOLLONGONG
AUSTRALIA

PROJECT EFFORT/COST ESTIMATION

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Document History			
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1 Albrecht/IFPUG function points

	Low complexity	Medium complexity	High complexity
External Inputs (EIs)	3	4	6
External Outputs (EOs)	4	5	7
External Queries (EQs)	3	4	6
Internal Logical Files (ILFs)	7	10	15
External Interface Files (EIFs)	5	7	10

	Level	Points
External Inputs (EIs)	Medium	4
External Outputs (EOs)	Medium	5
External Queries (EQs)	Medium	4
Internal Logical Files (ILFs)	Low	7
External Interface Files (EIFs)	Low	5
Total	25	

Unadjusted Function Points (UFP)	25
Total Degree of Influence (TDI)	29

Value Adjustment Factor (VAF)	0.94
Function Points (FP)	23.5

2 Constructive Cost Model

System type	c	k
Organic	2.4	1.05
Semi-detached	3.0	1.12
Embedded	3.6	1.20

Size	45.92 KLOC
c	2.4
k	1.05
Effort	133.45

3 Constructive Cost Model II

Driver	Very low	Low	Nominal	High	Very high	Extra high
Precedentedness (PREC)	6.20	4.96	3.72	2.48	1.24	0.00

Project Effort/Cost Estimation

Development flexibility (FLEX)	5.07	4.05	3.04	2.03	1.01	0.00
Architecture/risk resolution (RESL)	7.07	5.65	4.24	2.83	1.41	0.00
Team cohesion (TEAM)	5.48	4.38	3.29	2.19	1.10	0.00
Process maturity (PMAT)	7.80	6.24	4.68	3.12	1.56	0.00

Estimated Effort	157.85
PREC	1.24
FLEX	1.01
RESL	5.65
TEAM	3.29
PMAT	3.12
Scale factor (sf)	1.0531

	Extra low	Very low	Low	Nominal	High	Very high	Extra high
Product reliability and complexity (RCPX)	0.49	0.60	0.83	1.00	1.33	1.91	2.72

Project Effort/Cost Estimation

Reuse required (RUSE)			0.95	1.00	1.07	1.15	1.24
Platform difficulty (PDIF)			0.87	1.00	1.29	1.81	2.61
Personnel capability (PERS)	2.12	1.62	1.26	1.00	0.83	0.63	0.50
Personnel experience (PREX)	1.59	1.33	1.12	1.00	0.87	0.74	0.62
Facilities available (FCIL)	1.43	1.30	1.10	1.00	0.87	0.73	0.62
Schedule pressure (SCED)		1.43	1.14	1.00	1.00	1.00	

Adjusted Estimated Effort	34.55 person months
Product reliability and complexity (RCPX)	0.83
Reuse required (RUSE)	0.95
Platform difficulty (PDIF)	0.87
Personnel capability (PERS)	0.83
Personnel experience (PREX)	0.62
Facilities available (FCIL)	0.62
Schedule pressure (SCED)	1.0

Labor costs: 34.55 * \$10000 person months = \$345, 500