Baseline Object Point Estimation Procedure

Step 1: Assess Object-Counts: estimate the number of screens, reports, and 3GL components that will comprise this application. Assume the standard definitions of these objects in your ICASE environment.

Step 2: Classify each object instance into simple, medium and difficult complexity levels depending on values of characteristic dimensions. Use the following scheme:

For Screens				For Reports			
Number of Views contained	# and source of data tables			Number of Sections contained	# and source of data tables		
	Total < 4 (< 2 srvr < 3 clnt)	Total < 8 (2/3 srvr 3-5 clnt)	Total 8+ (> 3 srvr > 5 clnt)		Total < 4 (< 2 srvr < 3 clnt)	Total < 8 (2/3 srvr 3-5 clnt)	Total 8+ (> 3 srvr > 5 clnt)
< 3	simple	simple	medium	0 or 1	simple	simple	medium
3 - 7	simple	medium	difficult	2 or 3	simple	medium	difficult
> 8	medium	difficult	difficult	4 +	medium	difficult	difficult

Step 3: Weigh the number in each cell using the following scheme. The weights reflect the relative effort required to implement an instance of that complexity level.:

Object Type	Complexity-Weight		
	Simple	Medium	Difficult
Screen	1	2	3
Report	2	5	8
3GL Component			10

Step 4: Determine Object-Points: add all the weighted object instances to get one number, the Object-Point count.

Step 5: Estimate percentage of reuse you expect to be achieved in this project. Compute the New Object Points to be developed, *NOP = (Object-Points) (100 - %reuse)/ 100.*

Step 6: Determine a productivity rate, PROD = NOP / person-month, from the following scheme

Developers' experience and capability	Very Low	Low	Nominal	High	Very High
ICASE maturity and capability	Very Low	Low	Nominal	High	Very High
PROD	4	7	13	25	50

Step 7: Compute the estimated person-months: PM = NOP / PROD.