

ISBSG Repository

Project Benchmark Report

Project ID: 00001
As At: 06-Jan-07

Your Project ID: Example project

ISBSG Project ID: 00001

Your Contact Person: Un-named

Submission Date: 04-Jan-07

The Project Benchmark Report intends to provide the following information:

- * Provide you with the ISBSG Project ID assigned to this project.
- * Confirm the data recorded about your project is accurate.
- * Provide a benchmark of this project against projects in the repository with similar characteristics.
- * Provide your organisation with data to assist future project estimation.

Productivity Benchmarking (Development Team)

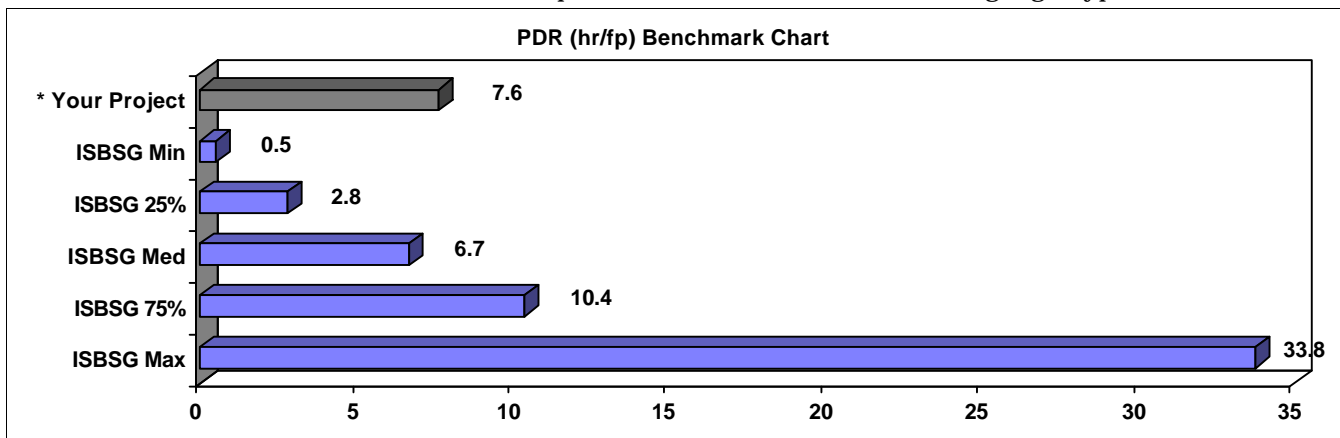
This section of the report compares the development team productivity of your project to those in the ISBSG repository, using Project Delivery Rate (PDR). The calculation of your project's PDR is:

Your project team effort was: 1155 hours Full life cycle team effort: *1259 hours
Your project size was: 165 function points (UFP) Count approach: IFPUG
Your project team PDR was: *7.6 hours per function point Development Type: Enhancement

Using your submitted data, the table below shows how your project's delivery rate compares to the distribution of PDRs in the repository. For up to four factors known to influence productivity, the table presents your project's PDR compared to PDR distribution of projects that have the same value for that factor. For example, a major factor influencing PDR is the operating system platforms involved in the project (Development Platform). Based on the largest scale operating system involved in your project (Mainframe > Mid-range > PC), the table places your project's PDR in the correct column relative to the PDR distribution of all projects that involve the same Development Platform. Depending on the data submitted, the table can benchmark your project's PDR for the following factors: Development Platform, Language Type, Maximum Team Size and How Development Methodology Acquired.

Influencing Factor	N	P10%	P25%	Med	P75%	P90%
Development Platform						
PC	117	1.2	3.3	7.6	*7.6	14.5
Methodology Acquisition						
Combine In-House & Purch	133	4.0	6.9	*7.6	11.3	17.6
Language Type						
4GL	378	2.2	4.8	*7.6	9.1	16.3
Maximum Team Size						
3-4	174	1.8	3.6	6.2	*7.6	12.4

For the two factors with the most significant impact on productivity, Development Platform and Language Type, the graph shows how the PDR of your project compares to projects with the same values for both of these factors i.e. the same Development Platform and the same Language Type.



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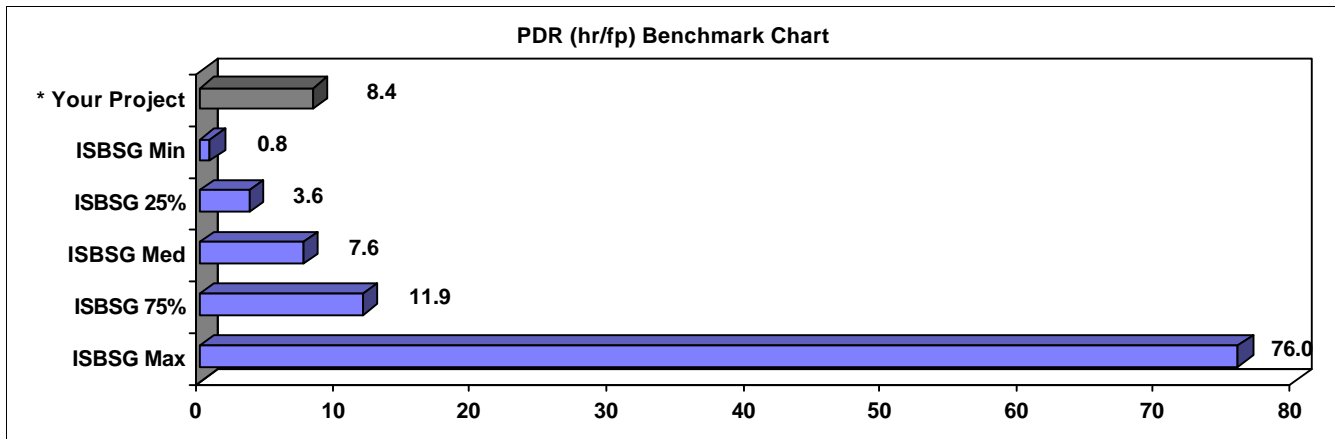
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Productivity Benchmarking (Total Effort)

This section of the report compares the productivity of your project for the total effort reported, to total efforts in the repository. The calculation of your project's PDR is:

Your project work effort was: 1302 hours Full life cycle project effort: *1380 hours
Your project size was: 165 function points (UFP) Count approach: IFPUG
Your project PDR was: *8.4 hours per function point Development Type: Enhancement

Influencing Factor	N	P10%	P25%	Med	P75%	P90%
Development Platform						
PC	156	2.2	3.9	*8.4	9.4	18.1
Methodology Acquisition						
Combine In-House & Purch	147	3.9	7.3	*8.4	12.4	18.5
Language Type						
4GL	427	2.9	5.2	*8.4	10	17.4
Maximum Team Size						
3-4	188	2.1	3.8	6.3	*8.4	14.1



Quality Benchmarking

If defect counts were available in the project data, these tables show how your project's defect density (defects per 1000 function points) in first month of operation compares to projects in the ISBSG repository. In the first table defects per 1000 unadjusted function points are shown (if defect counts available).

Defect Type	Your Project	ISBSG Min.	Mean	Max.
Extreme defects	*0/1000 fp	0	*0	1
Major defects	*30/1000 fp	0	29	*30
Minor defects	*0/1000 fp	0	17	430
Total defects	*30/1000 fp	0	*30	36

In the second table defects per 1000 adjusted function points are shown (if defect counts available).

Defect Type	Your Project	ISBSG Min.	Mean	Max.
Extreme defects	*0/1000 fp	0	*0	1
Major defects	*30/1000 fp	0	29	*30
Minor defects	*0/1000 fp	0	17	430
Total defects	*30/1000 fp	0	*30	36

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For definitions of the terms used in this report refer to Glossary of Terms which can be downloaded from the Downloads page of the ISBSG web site (<http://www.isbsg.org>) - Select "Downloads" from the vertical menu on the home-page.

Normalisation and the Comparison Data-set

In order to make meaningful PDR comparisons, the project effort data from the ISBSG repository has been normalised to represent all projects completing a full life cycle. The effort for your project is shown both as reported and normalised to a full project life cycle. Where your project is reported as covering less than the full life cycle, the full life cycle effort is therefore greater. It is this full life cycle total which has been used to compute a PDR. Your project PDR is therefore compared with similar PDR statistics from the repository. Values affected by this normalisation process are marked with * in this report.

If your project reported all life cycle phases, or if no phase or scope breakdown were given, then the PDR has been calculated on the reported effort since no normalisation is required or possible. In this case the total project effort and your project work effort are shown as equal. Life cycle phases and scope breakdown as reported are shown below.

Your Phases with Effort were:

Your Project Scope was: Planning;Specification;Design;Build;Test;Implement;

Your Normalised team PDR *: 7.6 hours per function point *

Your Non-normalised team PDR: 7.0 hours per function point

Your Normalised total PDR *: 8.4 hours per function point *

Your Non-normalised total PDR: 7.9 hours per function point

Project Data Assessment

In assessing the data submitted, this project has been given an overall rating with a supporting comment.

Rating A is assigned to projects with comprehensive and coherent data.

Rating B applies to projects with all the core data, but there is either something missing that assists validation of core data, or there is some aspect that could affect the credibility of the data.

Rating C applies to projects where significant data has not been provided, and it has not therefore been possible to assess the integrity of the data.

Rating D applies to projects where the core data has little credibility, due to either a lack of verification data or one or more aspects that destroy the credibility of the data.

Rating: A Overall integrity appears ok. Very complete data set, including defects. Otherwise no significant omissions.