



Function Point Analysis

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Function Point Analysis:

Function Point Analysis (FPA) for Software Enhancement Jos Engelhart, Peter Langbroek, and others, 2009-04-07

Function point analysis is established internationally as a method for determining the scope and functional size of software from an assessment of the user requirements. The IFPUG Function Point Counting Practices Manual and the Nesma FPA counting practices manual, Definitions and Counting Guidelines for the Application of Function Point Analysis, both follow the Albrecht method and describe how to apply the method to implemented systems, software development, and software enhancement. Application of the method to software enhancement is not well developed; other priorities have prevented a more considered treatment of this aspect of its application in the past. Function point analysis has been applied extensively to the development of new software. Its use in this respect is well established and is supported by a wealth of research and practical experience. It is now appropriate to explore in greater depth the application of FPA to software enhancement and maintenance. Users of software metrics need to know whether FPA can be successfully applied to software enhancement and if so, in what way and within what constraints. Consideration of these issues led NESMA to form the working group on FPA for Enhancement and Maintenance. These guidelines apply FPA for enhancement projects, adjusting the regular weight of a function impacted by the enhancement project by an impact factor. The impact factor depends on the degree in which the function is enhanced by the project. The guidelines are universally applicable, so also using the IFPUG CPM 4.3 FPA guidelines as your basic FPA measure.

Objectives The Guide is intended for anyone with an interest in the management of enhancements to an information system. The Guide describes an objective and replicable method for assessing the scope and size of an enhancement project. The method is objective in that the results obtained are independent of the person applying the method; the result obtained is bona fide in that two different people using the same guidelines obtain the same result. The method is replicable in that a particular outcome can be determined a priori and the same outcome can be produced on the second and subsequent applications of the method.

Intended Audience The Guide is intended for anyone who performs function point analysis and wants to measure the size of enhancement projects more precisely. It is assumed that the reader is familiar with the standard FPA method.

Scope of the Research NESMA considered the application of FPA to software enhancement from the perspective of the standard function point analysis method. The result of this work, embodied in these guidelines, is a method applicable to software enhancement and testing that is strongly related to the standard FPA method. The term Enhancement Function Point Analysis (EFPA) is used to differentiate the method from the standard function point analysis method.

Disclaimer The method has been tried in practice. However, NESMA does not claim that the method in its current form has been validated scientifically. Additional research and practical use is necessary to demonstrate the validity of the method. By offering this guide to the international functional software measurement community, NESMA wants to advance the application of function point analysis to enhancement projects and to broaden the understanding of

measurement applied to software enhancement NESMA is not responsible for any use of this method or for the results obtained from its application Comments and suggestions for further improvement of this method may be sent to office nesma org

The application of Function Point Analysis (FPA) in the early phases of the application life cycle A Practical Manual: Theory and case study Paul Peeters, Jaap van Asperen, Martin Jacobs, Hans Vonk, and others, **Definitions and counting guidelines for the application of Function Point Analysis** Frank Vogelegang, Adri Timp, Jolijn Onvlee, Martin Jacobs, Wim Visser, Jacques van der Knaap, Marinus Spaan, Jacqueline Eshuis, *Definitions and counting guidelines for the application of function point analysis (FPA) NESMA Functional Size Measurement method conform ISO/IEC 24570* Adri Timp, Jolijn Onvlee, Maarten Barth, Jan Volkert Dam, Eddy van Vliet, and others, [The IFPUG Guide to IT and Software Measurement](#) IFPUG, 2012-04-25

The widespread deployment of millions of current and emerging software applications has placed software economic studies among the most critical of any form of business analysis Unfortunately a lack of an integrated suite of metrics makes software economic analysis extremely difficult The International Function Point Users Group IFPUG a nonprofit and member governed organization has become the recognized leader in promoting the effective management of application software development and maintenance activities The IFPUG Guide to IT and Software Measurement brings together 52 leading software measurement experts from 13 different countries who share their insights and expertise Covering measurement programs function points in measurement new technologies and metrics analysis this volume Illustrates software measurement s role in new and emerging technologies Addresses the impact of agile development on software measurement Presents measurement as a powerful tool for auditing and accountability Includes metrics for the CIO Edited by IFPUG s Management and Reporting Committee the text is useful for IT project managers process improvement specialists measurement professionals and business professionals who need to interact with IT professionals and participate in IT decision making It includes coverage of cloud computing agile development quantitative project management process improvement measurement as a tool in accountability project ROI measurement metrics for the CIO value stream mapping and benchmarking

Function Point Analysis J. Brian Dreger, 1989 **COSMIC Function Points** Reiner Dumke, Alain Abran, 2016-04-19 Designed to conform to the ISO IEC standard 14143 the Common Software Measurement International Consortium COSMIC Function Point method has become the major estimation technique based on international standards for building software intensive systems COSMIC Function Points Theory and Advanced Practices supplies a cutting edge look at current a

The Journal of Educational Research , 1924 **Measuring the Software Process** David Garmus, David Herron, 1996 Function point counting is one of the fastest growing software management techniques used in the software industry today This book shows how to successfully execute the function point counting methodology based on the current rules and guidelines set forth by the International Function Point Users Group IFPUG Covers software measurement and the application of the function point methodology the specific rules and guidelines of the

function point methodology and function point uses and benefits For programmers and software development managers

Certified Function Point Specialist Examination Guide David Garmus,2010-07-23 The Certified Function Point Specialist Examination Guide provides a complete and authoritative review of the rules and guidelines prescribed in the release of version 4.3 of the Function Point Counting Practices Manual (CPM) Providing a fundamental understanding of the IFPUG Functional Size Measurement method this is the ideal study guide for the CFPS examination The text Includes time tested tips on how to best prepare for the exam Provides a series of questions and answers at the end of each chapter with specific references to the latest version of the CPM Contains two CFPS practice exams to measure understanding and identify areas where more study is needed Active members of the Counting Practices Committee and a past president of the IFPUG supply time tested insight on how to use the CPM manual effectively and efficiently during the exam The two sample exams and detailed examples throughout the text help to ensure readers develop the comprehension required to attain certification the first time around Following certification this book is a valuable reference for applying the IFPUG method for sizing proficient software design development and deployment Praise for the book While there are a number of solid books on counting function points this new book fills a gap in the function point literature by providing useful information on the specifics of becoming a certified function point counter The authors are all qualified for the work at hand and indeed have contributed to the function point counting methodology Capers Jones President Capers Jones Associates LLC [The GEC Journal of Research](#) ,1995 *Progressive Function Point Analysis* MR Ruben Gerad Mathew,2014-09-10 Progressive function points was derived for greater accuracy in the estimation of Function Point Analysis which is used for size estimation of IT Projects The new improvements are based on the actual Function point count based on elementary inputs outputs and integrated process flows within the respective functions Progressive function points are better suited for application that may have the following characteristics Projects with complex business rules and multiple workflows Complex operations other than standard CRUD functionality Integration of Reuse within functions Greater Accuracy of Cost Schedule Index Greater Clarity and Accountability into costing of applications Passing external reviews such as CPMG Audits Integration of new languages and programming tools Progressive Function Point Analysis was developed for mitigating problems in the implementation of FPA in agile projects The estimation principle addresses the concerns with regard to effort and accurate sizing in projects These ideas were implemented through various tools and an open source worksheet was built on the new principles to address many concerns such as Accuracy Reuse Workflow Estimation Some practice specific enhancements and applications have also been discussed where the standard model is not applicable This book is focused on training Architects and Project Managers in Progressive Estimation technique for seasoned FPA Analyst we provide new tools and methods to estimate the effort and revalidate their current estimates by using our free and open source tools which also provides both cost and schedule index and advanced customizable workbooks By providing Progressive FPA estimates the

cost and effort are justified and can be validated against the actual work

Experimental Cinema ,1930

Practical Software Estimation M. A. Parthasarathy,2003-02-25 A clearly written book that is a useful primer for a very complicated set of topics Capers Jones Chief Scientist Emeritus Software Productivity Research LLC Practical Software Estimation brings together today s most valuable tips techniques and best practices for accurately estimating software project efforts costs and schedules Written by a leading expert in the field it addresses the full spectrum of real world challenges faced by those who must develop reliable estimates M A Parthasarathy draws on the immense experience of Infosys one of the world s largest and most respected providers of IT enabled business solutions to bring you the only book with detailed guidance on estimating insourced and outsourced software projects as well as projects that blend both approaches He demonstrates how to successfully utilize Function Point FP methods the industry s leading estimation model Then using real case studies he systematically identifies pitfalls that can lead to inaccurate estimates and offers proven solutions Coverage includes How to estimate all types of software projects including fresh development reengineering and maintenance How to incorporate the impact of core project elements on estimates scope environment experience and tools FP analysis from start to finish data and transaction functions general system characteristics and more FP methods for any platform or business function Innovative re estimation methods to track progress How to quote RFPs and prepare contracts fixed price time material and project execution lifecycle models Alternatives to FP Delphi COCOMO II and COSMIC FFP How to choose the right estimation tools Practical Software Estimation is the definitive reference for anyone who must estimate software projects accurately project and IT managers individual developers system designers architects executives consultants and outsourcers alike List of Figures List of Tables Foreword Preface Acknowledgments Chapter 1 Introduction Chapter 2 Role of Estimation in Software Projects Chapter 3 A Study of Function Point Analysis Chapter 4 Data Functions Chapter 5 Transactional Functions Chapter 6 General System Characteristics Chapter 7 Size Effort and Scheduling of Projects Chapter 8 Estimation Flavors Chapter 9 A Sense of Where You Are Chapter 10 Tips Tricks and Traps Chapter 11 Insourcing versus Outsourcing Chapter 12 Key Factors in Software Contracts Chapter 13 Project Estimation and Costing Chapter 14 Other Estimation Methods Chapter 15 Estimation Tools Chapter 16 Estimation Case Study Appendix A Reference Tables Transaction Function Counts Appendix B Reference Tables Data Function Points Bibliography Index

Real-Time Structured Methods Keith Edwards,1993-08-20 Covers real time application areas including control signal processing and plant management examples Explains the analysis procedure in detail Numerous diagrams represent the graphic modeling tools required Contains extensive exercises and actual applications examples

The Theory of Functions of a Real Variable and the Theory of Fourier's Series Ernest William Hobson,1921 Educational Research Bulletin ,1928

The Encyclopædia Britannica Hugh Chisholm,James Louis Garvin,1926

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