MEASURING THE SOFTWARE PROCESS

a practical guide to functional measurements

David Garmus ▪ David Herron

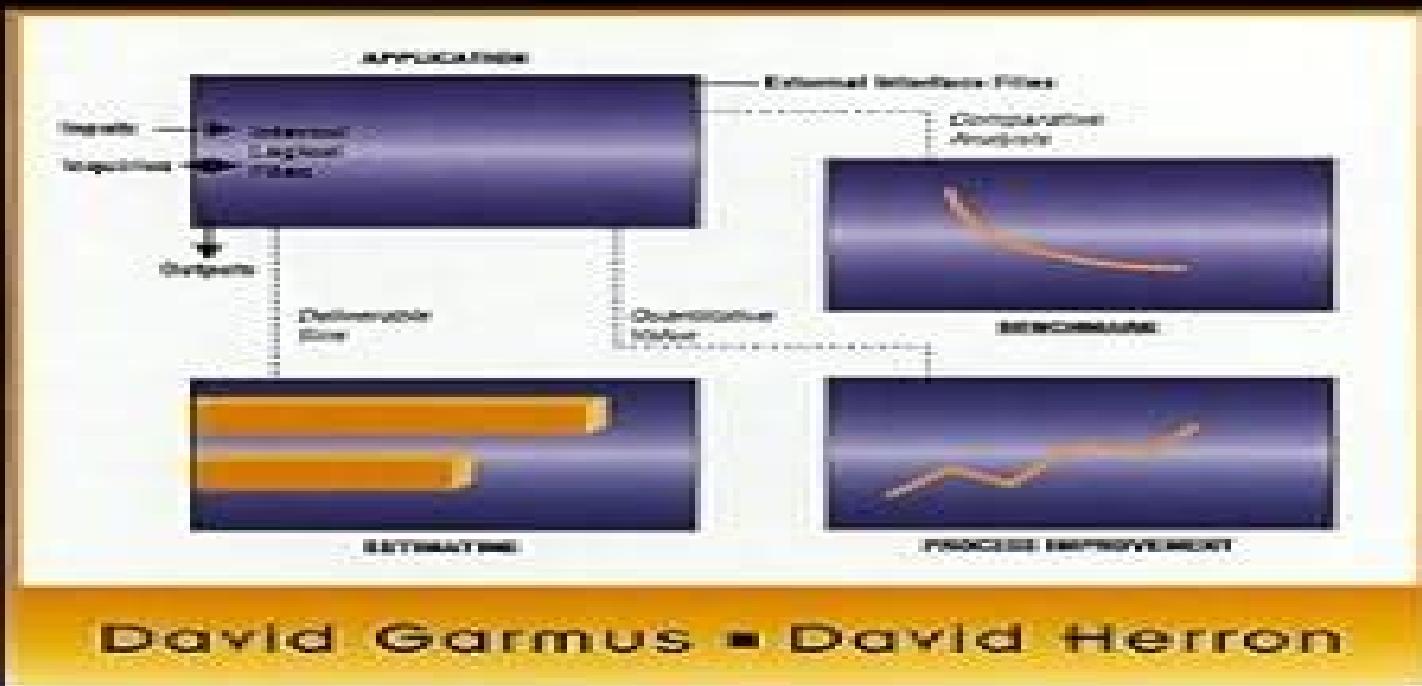# Measuring The Software Process A Practical Guide To Functional Measurements

Roger Fournier

Measuring The Software Process A Practical Guide To Functional Measurements:

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 *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 *Product-Focused Software Process Improvement* Andreas Jedlitschka,Outi Salo,2008-06-16 This book constitutes the refereed proceedings of the 9th International Conference on Product Focused Software Process Improvement PROFES 2008 held in Monte Porzio Catone Italy in June 2008 The 31 revised full papers presented together with 4 reports on workshops and tutorials and 3 keynote addresses were carefully reviewed and selected from 61 submissions The papers address different development modes roles in the value chain stakeholders viewpoints collaborative development as well as economic and quality aspects The papers are organized in topical sections on quality and measurement cost estimation capability and maturity models systems and software quality software process improvement lessons learned and best practices and agile software development *Software Process Improvement* Rory O'Connor,Nathan Baddoo,Kari Smolander,Richard Messnarz,2008-09-08 This textbook is intended for use by SPI Software Process Improvement managers and researchers quality managers and experienced project and research managers The papers constitute the research proceedings of the

15th EuroSPI European So ware Process Improvement www eurospi net conference in Dublin Ireland 3 5 September 2008 Since the first conference held in Dublin in 1994 EuroSPI conferences have been held in 1995 in Vienna Austria in 1997 in Budapest Hungary in 1998 in Goth burg Sweden in 1999 in Pori Finland in 2000 in Copenhagen Denmark in 2001 in Limerick Ireland in 2002 in Nuremberg Germany in 2003 in Graz Austria in 2004 in Trondheim Norway in 2005 in Budapest Hungary in 2006 in Joensuu Finland and in 2007 in Potsdam Germany EuroSPI has established an experience library library eurospi net which will be c tinuously extended over the next few years and was made available to all attendees EuroSPI has also started an umbrella initiative for establishing a European Quali cation Network in which different SPINs and national ventures can join mutually beneficial collaborations EQN EU Leonardo da Vinci network project With a general assembly on 15 16 10 2007 through EuroSPI partners and n works in collaboration with the European Union supported by the EU Leonardo da Vinci Programme a European certification association has been created www certificates org for the IT and services sector to offer SPI knowledge and certificates to industry establishing close knowledge transfer links between research and industry   *A Guide to Selecting Software Measures and Metrics* Capers Jones,2017-03-03 Going where no book on software measurement and metrics has previously gone this critique thoroughly examines a number of bad measurement practices hazardous metrics and huge gaps and omissions in the software literature that neglect important topics in measurement The book covers the major gaps and omissions that need to be filled if data about software development is to be useful for comparisons or estimating future projects Among the more serious gaps are leaks in reporting about software development efforts that if not corrected can distort data and make benchmarks almost useless and possibly even harmful One of the most common leaks is that of unpaid overtime Software is a very labor intensive occupation and many practitioners work very long hours However few companies actually record unpaid overtime This means that software effort is underreported by around 15% which is too large a value to ignore Other sources of leaks include the work of part time specialists who come and go as needed There are dozens of these specialists and their combined effort can top 45% of total software effort on large projects The book helps software project managers and developers uncover errors in measurements so they can develop meaningful benchmarks to estimate software development efforts It examines variations in a number of areas that include Programming languages Development methodology Software reuse Functional and nonfunctional requirements Industry type Team size and experience Filled with tables and charts this book is a starting point for making measurements that reflect current software development practices and realities to arrive at meaningful benchmarks to guide successful software projects   **Applied Software Measurement : Global Analysis of Productivity and Quality** Capers Jones,2008-04-11 Effectively forecast manage and control software across the entire project lifecycle Accurately size estimate and administer software projects with real world guidance from an industry expert Fully updated to cover the latest tools and techniques Applied Software Measurement Third Edition details how to deploy a cost effective and

pragmatic analysis strategy You will learn how to use function points and baselines implement benchmarks and tracking systems and perform efficiency tests Full coverage of the latest regulations metrics and standards is included Measure performance at the requirements coding testing and installation phases Set function points for efficiency cost market share and customer satisfaction Analyze quality and productivity using assessments benchmarks and baselines Design and manage project cost defect and quality tracking systems Use object oriented reusable component Agile CMM and XP methods Assess defect removal efficiency using unit tests and multistage test suites   Software Engineering Best Practices Capers Jones,2009-11-05 Proven techniques for software engineering success This in depth volume examines software engineering topics that are not covered elsewhere the question of why software engineering has developed more than 2 500 programming languages problems with traditional definitions of software quality and problems with common metrics lines of code and cost per defect that violate standard economic assumptions The book notes that a majority of new projects are actually replacements for legacy applications illustrating that data mining for lost requirements should be a standard practice Difficult social engineering issues are also covered such as how to minimize harm from layoffs and downsizing Software Engineering Best Practices explains how to effectively plan size schedule and manage software projects of all types using solid engineering procedures It details proven methods from initial requirements through 20 years of maintenance Portions of the book have been extensively reviewed by key engineers from top companies including IBM Microsoft Unisys and Sony Manage Agile hierarchical matrix and virtual software development teams Optimize software quality using JAD OFD TSP static analysis inspections and other methods with proven success records Use high speed functional metrics to assess productivity and quality levels Plan optimal organization from small teams through more than 1 000 personnel   IT Measurement International Function Point Users Group,2002 With Contributions by Capers Jones Howard Rubin David Garmus Lawrence Putnam and Elizabeth Clark The accurate quantitative measurement of software quality and process performance is rapidly becoming an essential part of competition in the ever tightening software marketplace Software metrics provide insights into productivity and quality gains from improvements in skill technology and development methodology An effective metrics program helps practitioners assemble the best team select the optimal development methodology and enhance the quality of a software product In short metrics enable software developers to pursue proven successful strategies and to change course when metrics point to less than optimum quality or productivity Written by the world s leading authorities in the field IT Measurement showcases state of the art in software metrics and provides the practical knowledge that practitioners need in order to take full advantage of software metrics technology The book s collected articles offer important perspectives on the role of metrics in the development process and show how metrics directly enhance software quality and output efficiency The book explores several vital areas including Function Point Analysis project estimation and management outsourcing statistical process control and more These articles range from basic

theory to the sophisticated application of metrics Specific topics covered include The expanding role of function point metrics Work output measurement for IT work units The use of metrics for tracking Enhanced estimation with metrics Metrics in outsourcing Standardization of SLOC The application of SPC to performance management Functional metrics in B2B e commerce project success Enlightening and pragmatic IT Measurement will help you gain a deeper understanding of software metrics and the ability to apply concrete measures in order to objectively evaluate and more finely shape your software development program 020174158XB02212002   *Proceedings of the Fifth Symposium on Software Reusability, SSR'99* ,1999   Software Process Improvement Robin B. Hunter,Richard H. Thayer,2001-12-11 The text is a collection of original and republished papers providing a significant survey on the use of SPI and software process assessment SPA as practiced by companies such as Lockheed Martin Siemens and Hewlett Packard Among the important features of the book are chapters on software process evaluation how to best perform SPI ISO 9000 and TickIT an alternative approach to SPA as well as the latest information on the CMM integration project The text also provides vivid descriptions on the most important international and national standards for SPI in particular ISO 9001 ISO 9000 3 ISO   Estimating Software Costs Capers Jones,1998 It is estimated that around 75 per cent of software development projects run over budget This text has been designed to help software developers accurately measure and estimate the cost of developing new software   Case Studies in Object-oriented Analysis and Design Edward Yourdon,Carl Argila,1996 Written by a co developer of one of the most popular OOA OOD methods this exceptionally practical and authoritative casebook shows how object oriented analysis and design are actually practiced in developing real systems i e shows the insight rather than the technique that was applied to each point in a solution false starts and all   *How to Build Shlaer-Mellor Object Models* Leon Starr,1996 This book shows you how to build object information models that resolve complex subtle and conflicting application requirements lead to simplified state and process models and can be translated into a reliable implementation Plus practical advice on how to write useful model descriptions how to get the most out of binary reflexive associative and supertype relationships and how to compare different model solutions of the same problem and pick the best one   **The Complete Y2K Home Preparation Guide** Edward Yourdon,Robert Roskind,1999 PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE   **Software Assessments, Benchmarks, and Best Practices** Capers Jones,2000 Teaching software professionals how to combine assessments qualitative information and benchmarking quantitative information this text aims to encourage better software analysis   **Estimating Software Costs : Bringing Realism to Estimating** Capers Jones,2007-04-19 Deliver bug free software projects on schedule and within budget Get a clear complete understanding of how to estimate software costs schedules and quality using the real world information contained in this comprehensive volume Find out how to choose the correct hardware and software tools develop an appraisal strategy deploy tests and prototypes and produce accurate software cost estimates Plus you ll get full coverage of cutting edge estimating approaches using Java object oriented

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Software Development ,1999

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