

Bottom-Up Software Development Cost Estimation

PROJECT TITLE	[Project's title]
PROJECT MANAGER	[Project Manager's name]

WBS NUMBER	TASK TITLE	TASK OWNERS	HOURS		HOURLY RATE	COST	
			MIN	MAX		MIN	MAX
1	Concept development	A, B, C	22	29	\$38	\$839	\$1,110
1.1	Task	A	7	8	\$35	\$245	\$280
1.2	Task	B	4	6	\$37	\$148	\$222
1.3	Task	C	6	8	\$41	\$246	\$328
1.4	Task	A	5	7	\$40	\$200	\$280
2	Planning	A, B, C	26	32	\$38	\$978	\$1,204
2.1	Task	A	10	12	\$35	\$350	\$420
2.2	Task	C	9	11	\$41	\$369	\$451
2.3	Task	B	7	9	\$37	\$259	\$333
3	Requirements analysis	A, B, C	20	26	\$38	\$744	\$966
3.1	Task	B	8	9	\$37	\$296	\$333
3.2	Task	A	6	8	\$35	\$210	\$280
3.3	Task	C	4	5	\$41	\$164	\$205
3.4	Task	B	2	4	\$37	\$74	\$148
4	Design	D, E	50	56	\$30	\$1,425	\$1,596
4.1	Task	D	15	16	\$27	\$405	\$432
4.2	Task	E	13	15	\$30	\$390	\$450
4.3	Task	E	12	13	\$30	\$360	\$390
4.4	Task	D	10	12	\$27	\$270	\$324

Cost Estimation For Software Development

**Glenn Cameron Doyle, Joseph G. San
Miguel, Michael G. Sovereign**



Cost Estimation For Software Development:

Software Estimation Best Practices, Tools & Techniques Murali Chemuturi, 2009-07-15 Almost every software project begins with the utterances What will this cost and When will this project be done Once those words are spoken project stakeholders begin to wrestle with how to produce an estimate Accurately estimating the cost or time to complete a software project is a serious problem for many software engineers developers and project managers who struggle with costs running double original estimates putting their careers at risk It is reported that nearly 50% of all software projects are shelved and that one of the major causes is poor estimation practices If developing software for internal use poor estimates can represent a significant drain on corporate profits Worldwide growth in the number of companies specializing in the development of software for use by other companies is staggering India alone has nearly 20 000 such companies Intense competition has led to an increased demand for fixed bid pricing in client vendor relationships and has made effective cost estimation even more important and in many cases critical to a firm s survival There are many methods of estimation Each method has its strengths and weaknesses proponents and opponents Knowing how and which one to use on a given project is key to developing acceptable estimates for either internal or external projects *Software Estimation Best Practices Tools Techniques* covers all facets of software estimation It provides a detailed explanation of the various methods for estimating software size development effort cost and schedule including a comprehensive explanation of Test Effort Estimation Emphasizing that software estimation should be based on a well defined process it presents software estimation best practices and shows how to avoid common pitfalls This guide offers direction on which methods are most appropriate for each of the different project types commonly executed in the software development space and criteria for selecting software estimation tools This comprehensive desk reference explains software estimation from scratch to help the beginner and features advanced techniques for more experienced estimators It details project scheduling including resource leveling and the concept of productivity as applicable to software estimators demonstrating the many benefits of moving from the current macro productivity approach to a micro productivity approach in software estimation *Software Estimation Best Practices Tools Techniques A Complete Guide for Software Project Estimators* caters to the needs of all software project stakeholders from novice to expert It provides the valuable guidance needed to estimate the cost and time required to complete software projects within a reasonable margin of error for effective software development **Cost Estimation for Software**

Development Bernard Londeix, 1987

Cost Estimator's Reference Manual Rodney D. Stewart, Richard M.

Wyskida, James D. Johannes, 1995-04-03 In today s hypercompetitive global marketplace accurate cost estimating is crucial to bottom line results Nowhere is this more evident than in the design and development of new products and services Among managing engineers responsible for developing realistic cost estimates for new product designs the number one source of information and guidance has been the *Cost Estimator s Reference Manual* Comprehensive authoritative and practical the

Manual instructs readers in the full range of cost estimating techniques and procedures currently used in the fields of development testing manufacturing production construction software general services government contracting engineering services scientific projects and proposal preparation The authors clearly explain how to go about gathering the data essential to preparing a realistic estimate of costs and guide the reader step by step through each procedure This new Second Edition incorporates a decade of progress in the methods procedures and strategies of cost estimating All the material has been updated and five new chapters have been added to reflect the most recent information on such increasingly important topics as activity based costing software estimating design to cost techniques and cost implications of new concurrent engineering and systems engineering approaches to projects Indispensable to virtually anyone whose work requires accurate cost estimates the Cost Estimator's Reference Manual will be especially valuable to engineers estimators accountants and contractors of products projects processes and services to both government and industry The essential ready reference for the techniques methods and procedures of cost estimating **COST ESTIMATOR'S REFERENCE MANUAL Second Edition** Indispensable for anyone who depends on accurate cost estimates for engineering projects the Cost Estimator's Reference Manual guides the user through both the basic and more sophisticated aspects of the estimating process Authoritative and comprehensive the Manual seamlessly integrates the many functions accounting financial statistical and management of modern cost estimating practice Its broad coverage includes estimating procedures applied to such areas as Production Software Development General services Testing Government contracting Manufacturing Engineering Proposal preparation Scientific projects Construction This updated and expanded Second Edition incorporates all the most important recent developments in cost estimating such as activity based costing software estimating design to cost techniques computer aided estimating tools concurrent engineering and life cycle costing For engineers estimators accountants planners and others who are involved in the cost aspects of projects the Cost Estimator's Reference Manual is an invaluable information source that will pay for itself many times over Software Engineering and Computer Systems, Part I Jasni Mohamad Zain, Wan Maseri Wan Mohd, Eyas El-Qawasmeh, 2011-06-24 This Three Volume Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems ICSECS 2011 held in Kuantan Malaysia in June 2011 The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on software engineering network bioinformatics and e health biometrics technologies Web engineering neural network parallel and distributed e learning ontology image processing information and data management engineering software security graphics and multimedia databases algorithms signal processing software design testing e technology ad hoc networks social networks software process modeling miscellaneous topics in software engineering and computer systems **Cost Estimation of Software Development and the Implications for the Program Manager** Glenn Cameron Doyle, Joseph G. San Miguel, Michael G.

Sovereign,1992 *Global Software Development Handbook* Raghvinder Sangwan,Matthew Bass,Neel Mullick,Daniel J. Paulish,Juergen Kazmeier,2006-09-29 Economics and technology have dramatically re shaped the landscape of software development It is no longer uncommon to find a software development team dispersed across countries or continents Geographically distributed development challenges the ability to clearly communicate enforce standards ensure quality levels and coordinate tasks Globa

Guidance for Cost Estimation and Management for Highway Projects During Planning, Programming, and Preconstruction Stuart D. Anderson,Keith Robert Molenaar,Cliff J. Schexnayder,National Cooperative Highway Research Program,2007

Software Engineering: Fundamental Approach Er Aditya Pratap Singh, Dr B D K Patro, Software Engineering Fundamental Approach is a comprehensive and well structured textbook that serves as a foundational guide for students educators and professionals in the field of Computer Science and Engineering This book presents a balanced blend of theoretical concepts and practical applications essential for understanding the complete software development lifecycle Beginning with the basics of software engineering the book covers essential topics such as software development processes life cycle models requirements engineering system design both function oriented and object oriented project planning testing strategies quality assurance frameworks and software metrics Special emphasis is given to standard models like Waterfall Spiral Prototype and Iterative Enhancement as well as modern practices aligned with IEEE standards and SEI CMM models Richly illustrated with real world examples diagrams and step by step case studies the book also explores critical aspects like software project feasibility SRS documentation verification and validation and metrics like Halstead s Software Science and Function Point Analysis Its simplified language and structured content make it highly suitable for undergraduate and postgraduate learners as well as aspirants of competitive exams like GATE NPTEL and UGC NET

Improving Cost Estimation for Software Development James G. Gibbs,1994

Cost Estimation for Commercial Software Development Organizations Dinesh Tagra,Manisha Arora,2012 ABSTRACT continued We also computed the magnitude of relative error for successive iterations We tested the proposed method on student projects in order to illustrate its usefulness

Hybrid Approach For Estimating Software Project Development Effort Ketema Kifle,2016-06-26

Software Cost Estimation, Benchmarking, and Risk Assessment Adam Trendowicz,2013-01-10 Software effort estimation is a key element of software project planning and management Yet in industrial practice the important role of effort estimation is often underestimated and or misunderstood In this book Adam Trendowicz presents the CoBRA method an abbreviation for Cost Estimation Benchmarking and Risk Assessment for estimating the effort required to successfully complete a software development project which uniquely combines human judgment and measurement data in order to systematically create a custom specific effort estimation model CoBRA goes far beyond simply predicting the development effort it supports project decision makers in negotiating the project scope managing project risks benchmarking productivity and directing improvement activities To illustrate the method s practical use the book reports several real world cases where

CoBRA was applied in various industrial contexts These cases represent different estimation contexts in terms of software project environment estimation objectives and estimation constraints This book is the result of a successful collaboration between the process management division of Fraunhofer IESE and many software companies in the field of software engineering technology transfer It mainly addresses software practitioners who deal with planning and managing software development projects as part of their daily work and is also of interest for students or courses specializing in software engineering or software project management

Cost Estimation in Agile Software Development Stefan

Luckhaus,2016-08-15 Whenever software is developed based on contracts with binding agreed conditions it is exposed to risks conditions such as the delivery of a clearly defined functional scope at a fixed price and at an agreed delivery date Many of these risks can be mitigated by the principles of agile development Being able to navigate projects within all agreed parameters requires cost estimation methods to be integrated into planning and controlling processes In order to prevent these methods from eroding the advantages of agile development they must be rapidly applicable ideally automatable and allow for self calibration after every sprint This book illustrates how size metrics can be utilised profitably in software development processes oriented towards agile values It points out differences and restrictions how the accuracy of cost estimations can be increased with each sprint and examines the feasibility of automated measurements

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

Estimating Software Costs Capers Jones,2007-05-10 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 methods and reusable components Plan for and execute project phase and activity level cost estimations Estimate regression component integration and stress tests Compensate for inaccuracies in data collection calculation and analysis Assess software deliverables and data complexity Test design principles and operational characteristics using software prototyping Handle configuration change research quality control and documentation costs Capers Jones work offers a unique contribution to the understanding of the economics of software production It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it This book is absolutely required reading for an understanding of the limitations of our technological advances Paul A Strassmann former CIO of Xerox the Department of Defense and NASA

Practical Software Project Estimation: A Toolkit for Estimating Software Development Effort & Duration Peter Hill,International Software Benchmarking Standards Group,2010-08-29 Product verifiable defensible and achievable software estimates Based on data

collected by the International Software Benchmarking Standards Group ISBSG Practical Software Project Estimation explains how to accurately forecast the size cost and schedule of software projects Get expert advice on generating accurate estimates minimizing risks and planning and managing projects Valuable appendixes provide estimation equations delivery rate tables and the ISBSG Repository demographics Verify project objectives and requirements Determine validate and refine software functional size Produce indicative estimates using regression equations Predict effect and duration through comparison and analogy Build estimation frameworks Perform benchmarks using the ISBSG Repository Compare IFPUG COSMIC and FiSMA sizing methods Peter Hill is the chief executive officer and a director of the ISBSG He has been in the information services industry for more than 40 years and has compiled and edited five books for the ISBSG **Study of the Software Development Cost Estimation Process at Sprint** Ken Severson,2001 **Quantitative Management, Software Cost Estimating** Lawrence H. Putnam,Ray W. Wolverton,1977 **Software Cost Estimation with Cocomo II** Barry W. Boehm,2000 Don't become a statistic take control of your software projects and plan for success Success in all types of organization depends increasingly on the development of customized software solutions yet more than half of software projects now in the works will exceed both their schedules and their budgets by more than 50% While some types of overruns remain unpredictable most can be avoided by sound modeling COCOMO II provides you with a thorough rework of the classic COCOMO model to address modern software processes and construction techniques along with representative examples of applying the models to key software decision situations It was calibrated and validated using innovative statistical techniques to fit both expert judgment and 161 carefully collected project data points The book also introduces emerging COCOMO II extensions for cost and schedule estimation of COTS integration and rapid development You'll also Learn firsthand from knowledgeable authors over 100 person years of software cost estimation experience Make better software decisions by exploring their cost implications Use the cost and schedule estimates to better plan and control your projects and manage your risks Get started now with the software on the accompanying CD Keep up to date with the authors Web site Software engineers managers and students will all find Software Cost Estimation with COCOMO II an invaluable guide to developing and managing successful software projects on time and under budget About the CD ROM The accompanying CD ROM includes a current copy of COCOMO II along with demonstration versions of three commercial COCOMO II packages and an extensive documentation suite All examples from the book are provided live so you can work them hands on along with the reading **Software Project Cost and Schedule Estimating** William H. Roetzheim,Reyna A. Beasley,1998 PLEASE PROVIDE PLEASE PROVIDE

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