

# 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
<b>1</b>	<b>Concept development</b>	<b>A, B, C</b>	<b>22</b>	<b>29</b>	<b>\$38</b>	<b>\$839</b>	<b>\$1,110</b>
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
<b>2</b>	<b>Planning</b>	<b>A, B, C</b>	<b>26</b>	<b>32</b>	<b>\$38</b>	<b>\$978</b>	<b>\$1,204</b>
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
<b>3</b>	<b>Requirements analysis</b>	<b>A, B, C</b>	<b>20</b>	<b>26</b>	<b>\$38</b>	<b>\$744</b>	<b>\$966</b>
3.1	Task	B	8	9	\$37	\$296	\$339
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
							\$0
<b>4</b>	<b>Design</b>	<b>D, E</b>	<b>50</b>	<b>56</b>	<b>\$30</b>	<b>\$1,425</b>	<b>\$1,596</b>
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

**Murali Chemuturi**



## **Cost Estimation For Software Development:**

*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 of 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.

**Cost Estimation for Software Development** Bernard Londeix, 1987 *Cost Estimation of Software Development and the Implications for the Program Manager* Glenn Cameron Doyle, Joseph G. San Miguel, Michael G. Sovereign, 1992 [Recent Advances in Artificial Intelligence in Cost Estimation in Project Management](#) Nevena Rankovic, Dragica Ranković, Mirjana Ivanovic, Ljubomir Lazić, 2024-12-06 This book focuses on the practical application of AI

tools and techniques in software project management offering detailed theoretical explanations and practical examples of over 40 state of the art machine learning and deep learning algorithms applied across each project phase as well as in risk and resource management Helping the business world estimate projects more accurately while saving costs and resources is crucial in today s rapidly changing fast paced technological landscape Moreover it presents specific aspects of combined approaches through ensemble models incorporating Taguchi s optimization method to further improve estimation accuracy advancing this area of software project management A valuable resource for students and professionals to deepen their knowledge and skills it also serves as a great manual for companies adopting smarter strategies to manage and develop projects more efficiently and effectively

**Cost Estimation** Gregory K. Mislick, Daniel A. Nussbaum, 2015-05-04 Presents an accessible approach to the cost estimation tools concepts and techniques needed to support analytical and cost decisions Written with an easy to understand approach Cost Estimation Methods and Tools provides comprehensive coverage of the quantitative techniques needed by professional cost estimators and for those wanting to learn about this vibrant career field Featuring the underlying mathematical and analytical principles of cost estimation the book focuses on the tools and methods used to predict the research and development production and operating and support costs for successful cost estimation in industrial business and manufacturing processes The book begins with a detailed historical perspective and key terms of the cost estimating field in order to develop the necessary background prior to implementing the presented quantitative methods The book proceeds to fundamental cost estimation methods utilized in the field of cost estimation including working with inflation indices regression analysis learning curves analogies cost factors and wrap rates With a step by step introduction to the practicality of cost estimation and the available resources for obtaining relevant data Cost Estimation Methods and Tools also features Various cost estimating tools concepts and techniques needed to support business decisions Multiple questions at the end of each chapter to help readers obtain a deeper understanding of the discussed methods and techniques An overview of the software used in cost estimation as well as an introduction to the application of risk and uncertainty analysis A Foreword from Dr Douglas A Brook a professor in the Graduate School of Business and Public Policy at the Naval Postgraduate School who spent many years working in the Department of Defense acquisition environment Cost Estimation Methods and Tools is an excellent reference for academics and practitioners in decision science operations research operations management business and systems and industrial engineering as well as a useful guide in support of professional cost estimation training and certification courses for practitioners The book is also appropriate for graduate level courses in operations research operations management engineering economics and manufacturing and or production processes

**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 Estimation Best Practices, Tools, & Techniques** Murali Chemuturi, 2009-07-01 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 well-defined processes, 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.

*Software Cost Estimation with Cocomo II* by 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

**Quantitative Management, Software Cost Estimating** Lawrence H. Putnam, Ray W. Wolverton, 1977 *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

**The Software Development Project** Phillip Bruce, Sam M. Pederson, 1982-02-04 Software project management Software development overview Planning the project Managing the project The software development processes Preliminary design phase Detailed design phase The implementation and operation phase The testing process Software configuration management

Software Development Projects Charles James Pierce (Jr), Rebecca Louise Wagner, 1982 This research focuses on the principles upon which models have been and may be constructed for estimating cost and effort in software development projects A definition of and factors influencing software engineering economics is presented The major phases and activities of the software lifecycle are described Effort time and cost estimation is analyzed A presentation is then given of some widely used models for estimating cost and effort Critical factors which must be considered when constructing a model for estimating cost and effort in software development projects are then presented The authors summarize by citing areas that require more attention if cost and effort estimates are to be further improved Author

Documenting the Software Development Process Steve J. Ayer, Frank S. Patrinostro, 1992 A structured approach to systems development that views the creation of documentation as a combined effort of systems planners analysts programmers and technical writers Includes alternatives for each of the documents presented and a chapter on integrating a systems development methodology with CASE Annotation copyrighted by Book News Inc Portland OR

**Software Development**, 2004 *Software Evaluation for Certification* Andrew K. Rae, Hans-Ludwig Hausen, Philippe Robert, 1995 Introducing software evaluation Process assessment Product assessment Practice and experience Guide to global developments Software and legal liability Standards certification and the law Appendices Index

**Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence**, 1992 Systems Management for Information Technology and Software Engineering Andrew P. Sage, 1995-04-03 This new book

on systems management discusses important concerns for the development of systems from the perspective of information technology information systems and software systems engineering It focuses on the systems management process for information technology and software development organizations Tutorial Programming Productivity Capers Jones,1986 This tutorial volume on productivity issues for the eighties attempts to place programming in context with other disciplines and address five major topics programming measurements programming life cycle analysis programming equipment and design methods programming environmental and the new science of software Abstract Cost Engineering ,2005

**Applied Statistics for Software Managers** Katrina Maxwell,2002 Applied Statistics for Software Managers is the first complete guide to using statistical techniques to solve specific software development and maintenance problems You don't need a mathematical background Katrina Maxwell presents an easy to follow methodology and detailed case studies that show you exactly how to assess productivity time to market development costs maintenance cost drivers and more

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