

Re-Engineering **LEGACY SOFTWARE**

Chris Birchall



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Re-Engineering Legacy Software Chris Birchall, 2016-04-15 Summary As a developer you may inherit projects built on existing codebases with design patterns usage assumptions infrastructure and tooling from another time and another team Fortunately there are ways to breathe new life into legacy projects so you can maintain improve and scale them without fighting their limitations Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Book Re Engineering Legacy Software is an experience driven guide to revitalizing inherited projects It covers refactoring quality metrics toolchain and workflow continuous integration infrastructure automation and organizational culture You ll learn techniques for introducing dependency injection for code modularity quantitatively measuring quality and automating infrastructure You ll also develop practical processes for deciding whether to rewrite or refactor organizing teams and convincing management that quality matters Core topics include deciphering and modularizing awkward code structures integrating and automating tests replacing outdated build systems and using tools like Vagrant and Ansible for infrastructure automation What s Inside Refactoring legacy codebases Continuous inspection and integration Automating legacy infrastructure New tests for old code Modularizing monolithic projects About the Reader This book is written for developers and team leads comfortable with an OO language like Java or C About the Author Chris Birchall is a senior developer at the Guardian in London working on the back end services that power the website Table of Contents PART 1 GETTING STARTED Understanding the challenges of legacy projects Finding your starting point PART 2 REFACTORING TO IMPROVE THE CODEBASE Preparing to refactor Refactoring Re architecting The Big Rewrite PART 3 BEYOND REFACTORING IMPROVING PROJECT WORKFLOW AND INFRASTRUCTURE Automating the development environment Extending automation to test staging and production environments Modernizing the development building and deployment of legacy software Stop writing legacy code Reengineering Legacy Software Systems Howard Wilbert Miller, 1998 Reengineering Legacy Software Systems shows how to evaluate systems identify the problems and fix them without starting over from scratch It focuses on identifying the positive aspects of the system and building on them instead of getting bogged down with what doesn t work It covers the principles of reengineering and then shows how to specifically apply them to the problem of software engineering Reengineering Legacy Software Systems fits in with system engineering books and looks at all the current tools such as CASE rule based technology and object technology Information technology managers and software engineers are faced with the problem of having to solve problems without spending a lot of money and this book will be a great resource for those people Mix of theory and practice Specific to software emphasizing techniques and tools required Incorporates case studies **Reengineering Legacy Software Products Into Software Product Line** YinXing Xue, Zhenchang Xing, Stan Jarzabek, 2013-09-19 **Re-engineering Tools Report** Chris Sittenauer, Mike Olsem, Daren Murdock, Software Technology Support Center (U.S.), 1992 **Legacy Software System**

Re-engineering Yellow Sea,1998 *Software Reengineering* Robert S. Arnold,1993 Software Software Engineering

Re-Engineering Software Roy Rada,2024-02-02 Creating software of any kind is an enormously expensive proposition whether for internal use or commercial application The range of activities involved in engineering and creating software are mind boggling in complexity Yet every time new software is developed most programmers start from scratch without considering what might be re used or salvaged from existing programs Re Engineering Software addresses the principles approaches support systems underlying methodologies and real case examples for re using and thus building on previously existing software

Technology Initiated Paradigm Shifts for Re-engineering the Software Value-chain Chris Coughlan,1996 *Handbook of Re-Engineering Software Intensive Systems into Software Product Lines* Roberto E. Lopez-Herrejon,Jabier Martinez,Wesley Klewerton Guez Assunção,Tewfik Ziadi,Mathieu Acher,Silvia Vergilio,2022-11-22 This handbook distils the wealth of expertise and knowledge from a large community of researchers and industrial practitioners in Software Product Lines SPLs gained through extensive and rigorous theoretical empirical and applied research It is a timely compilation of well established and cutting edge approaches that can be leveraged by those facing the prevailing and daunting challenge of re engineering their systems into SPLs The selection of chapters provides readers with a wide and diverse perspective that reflects the complementary and varied expertise of the chapter authors This perspective covers the re engineering processes from planning to execution SPLs are families of systems that share common assets allowing a disciplined software reuse The adoption of SPL practices has shown to enable significant technical and economic benefits for the companies that employ them However successful SPLs rarely start from scratch but instead they usually start from a set of existing systems that must undergo well defined re engineering processes to unleash new levels of productivity and competitiveness Practitioners will benefit from the lessons learned by the community captured in the array of methodological and technological alternatives presented in the chapters of the handbook and will gain the confidence for undertaking their own re engineering challenges Researchers and educators will find a valuable single entry point to quickly become familiar with the state of the art on the topic and the open research opportunities including undergraduate graduate students and R D engineers who want to have a comprehensive understanding of techniques in reverse engineering and re engineering of variability rich software systems

The Renaissance of Legacy Systems Ian Warren,2012-12-06 Today software professionals recognize that change in software systems is inevitable There are many systems currently in operation however which were developed before the need for change was understood Such systems are commonly referred to as legacy systems and were developed with relatively short lifetimes in mind Software engineering is a relatively young discipline which is continually improving to provide better support for the development of software systems What were once state of the art techniques tools and processes are now dated and have resulted in systems which are not responsive to change For historical reasons dated development practice traded maintainability for other system attributes such as cost and performance A

significant number of legacy systems remain in operation because they are critical to the business processes which they support. The combination of extended lifetimes and poor maintainability means that legacy systems are expensive to change and in many cases they cannot accommodate emerging requirements. This is clearly an undesirable situation which until recently has been tackled by replacing the system or attempting to maintain it. Replacing a legacy system is dangerous since you face the risk of losing vital business knowledge which is embedded in many old systems. In many cases system replacement is not cost effective. Conversely if you attempt to maintain a legacy system there is often little return on the investment in maintenance effort and the system remains difficult and expensive to change.

Software Re-engineering Tool Report Chris Sittenauer, Debbie Dyer, Greg Daich, Gary Petersen, Software Technology Support Center (U.S.), 1991. Report is a synopsis of the Software Technology Support Center's progress in evaluation software documentation tools and capabilities to help in selection.

Legacy Software Re-Engineering Technology (LSRET), 1998. This Final Report documents the state of the Legacy Software Reengineering Technology LSRET Prototype Project at the time it was halted. The technology developed by TASC under the LSRET program was to be used to assist in the reengineering of avionics software. The RET was designed to process FORTRAN and JOVIAL code and generate Ada code. The RET was also designed to be extensible to other High Order Languages. Much of the existing avionics software is poorly documented for maintenance purposes. LSRET was being developed to support engineers in transforming the legacy code into a more modern programming language and also to be used to re document either the legacy or the reengineered systems. This would improve the maintainability of the avionics software in two ways. LSRET could reengineer the software into a language that promotes better software engineering practices and also makes it easier to find engineers who are trained in the use of the newer language. Second LSRET could redocument the legacy and reengineered systems making them easier to maintain in the future.

Re-engineering Legacy Software Through Language Conversion Maarit Harsu, 2000. Abstract. Software industry has a huge amount of legacy programs needing modernization and re engineering. We are especially interested in re engineering legacy programs via language conversion. In language conversion the source and target languages can be either from the same programming paradigm or from different ones. Thus we consider program modernization from two aspects. If the source and target languages share the same programming paradigm we can modernize programs via source to source translation. If the languages are from different paradigms for example procedural and object oriented we need re engineering means in modernization particularly in identifying objects from procedural code. After finding objects and their operations we need again source to source translation methods in the actual conversion. As a constructive part of this thesis we have implemented a converter translating PL/M programs into C. As an implementation tool of that converter we have used TaLE (Tampere Language Editor). Because of the nature of the legacy software and PL/M language we have been forced to extend TaLE. Since legacy systems are typically large we have developed a technique to reduce the space requirements of the

converter In addition conditional compilation of the source language may cause parsing problems in source to source translation As a solution for this problem we introduce multi branch parsing Both of these techniques are implemented in TaLE We also show how to exploit the existing features of TaLE in information passing We have extended the PL M to C converter with object identification methods as a first step to enable translation from a procedural language into an object oriented one for example C We introduce new methods to identify object oriented features such as subclass relationships and polymorphism from legacy programs The converter developed in this work is currently being used for modernizing PL M systems in telecommunication industry The experiences in using the converter are briefly summarized **Application**

Software Re-engineering Alam & Padenga,2010 Application Software Re engineering is about reorganizing and modifying existing software systems to make them more maintainable and user friendly It also powerfully dwells on the aspects of general Application Software Reengineering across variou *STSC Reengineering Technology Report* Michael R. Olsem,Chris Sittenauer,Software Technology Support Center (U.S.),Software Reengineering Technology Research Project,1993 **Legacy Software** Maarit Harsu,2009-09 Software industry has a huge amount of legacy programs needing modernization This book considers re engineering legacy programs via language conversion In language conversion the source and target languages can be either from the same programming paradigm or from different ones The book describes the converter translating PL M programs into C Special attention is paid to the problems encountered during conversion Legacy systems are typically large and thus the space requirements of the converter should be reduced Moreover conditional compilation of the source language may cause parsing problems in source to source translation As a solution for this problem multi branch parsing is introduced To manage situations where the target language is an object oriented one the book introduces methods to identify object oriented features such as subclass relationships and polymorphism from legacy programs Methods introduced in this book should be useful to both software practitioners and researchers especially to those who are dealing with legacy programs and software maintenance *Constraint-Based Design Recovery for Software Reengineering* ,1998 On the Development of a Constructive Model for Use in Software Reengineering Projects of Legacy Systems Pam Sampson,2007

Constraint-Based Design Recovery for Software Reengineering Steven G. Woods,Alexander E. Quilici,Qiang Yang,2012-10-12 The great challenge of reverse engineering is recovering design information from legacy code the concept recovery problem This monograph describes our research effort in attacking this problem It discusses our theory of how a constraint based approach to program plan recognition can efficiently extract design concepts from source code and it details experiments in concept recovery that support our claims of scalability Importantly we present our models and experiments in sufficient detail so that they can be easily replicated This book is intended for researchers or software developers concerned with reverse engineering or reengineering legacy systems However it may also interest those researchers who are interested using plan recognition techniques or constraint based

reasoning We expect the reader to have a reasonable computer science background i e familiarity with the basics of programming and algorithm analysis but we do not require familiarity with the fields of reverse engineering or artificial intelligence AI To this end we carefully explain all the AI techniques we use This book is designed as a reference for advanced undergraduate or graduate seminar courses in software engineering reverse engineering or reengineering It can also serve as a supplementary textbook for software engineering related courses such as those on program understanding or design recovery for AI related courses such as those on plan recognition or constraint satisfaction and for courses that cover both topics such as those on AI applications to software engineering ORGANIZATION The book comprises eight chapters

Software Re-engineering in Europe ,1992

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