



SOFTWARE SECURITY SERIES

Foreword by Gary McGraw



SECURE PROGRAMMING WITH STATIC ANALYSIS



Brian Chess

Jacob West

Secure Programming With Static Analysis Jacob West

Jasvir Nagra, Christian Collberg



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Secure Programming with Static Analysis Brian Chess, Jacob West, 2007-06-29 The First Expert Guide to Static Analysis for Software Security Creating secure code requires more than just good intentions Programmers need to know that their code will be safe in an almost infinite number of scenarios and configurations Static source code analysis gives users the ability to review their work with a fine toothed comb and uncover the kinds of errors that lead directly to security vulnerabilities Now there s a complete guide to static analysis how it works how to integrate it into the software development processes and how to make the most of it during security code review Static analysis experts Brian Chess and Jacob West look at the most common types of security defects that occur today They illustrate main points using Java and C code examples taken from real world security incidents showing how coding errors are exploited how they could have been prevented and how static analysis can rapidly uncover similar mistakes This book is for everyone concerned with building more secure software developers security engineers analysts and testers

The CERT Oracle Secure Coding Standard for Java Fred Long, 2012 In the Java world security is not viewed as an add on a feature It is a pervasive way of thinking Those who forget to think in a secure mindset end up in trouble But just because the facilities are there doesn t mean that security is assured automatically A set of standard practices has evolved over the years The Secure R Coding R Standard for Java TM is a compendium of these practices These are not theoretical research papers or product marketing blurbs This is all serious mission critical battle tested enterprise scale stuff James A Gosling Father of the Java Programming Language An essential element of secure coding in the Java programming language is a well documented and enforceable coding standard Coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization rather than by the programmer s familiarity or preference Once established these standards can be used as a metric to evaluate source code using manual or automated processes The CERT R Oracle R Secure Coding Standard for Java TM provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities Application of the standard s guidelines will lead to higher quality systems robust systems that are more resistant to attack Such guidelines are required for the wide range of products coded in Java for devices such as PCs game players mobile phones home appliances and automotive electronics After a high level introduction to Java application security seventeen consistently organized chapters detail specific rules for key areas of Java development For each area the authors present noncompliant examples and corresponding compliant solutions show how to assess risk and offer references for further information Each rule is prioritized based on the severity of consequences likelihood of introducing exploitable vulnerabilities and cost of remediation The standard provides secure coding rules for the Java SE 6 Platform including the Java programming language and libraries and also addresses new features of the Java SE 7 Platform It describes language behaviors left to the discretion of JVM and compiler implementers guides developers in the proper use of Java s APIs and security architecture and considers

security concerns pertaining to standard extension APIs from the javax package hierarchy The standard covers security issues applicable to these libraries lang util Collections Concurrency Utilities Logging Management Reflection Regular Expressions Zip I O JMX JNI Math Serialization and JAXP

Safety and Security of Cyber-Physical Systems Frank J. Furrer, 2022-07-20 Cyber physical systems CPSs consist of software controlled computing devices communicating with each other and interacting with the physical world through sensors and actuators Because most of the functionality of a CPS is implemented in software the software is of crucial importance for the safety and security of the CPS This book presents principle based engineering for the development and operation of dependable software The knowledge in this book addresses organizations that want to strengthen their methodologies to build safe and secure software for mission critical cyber physical systems The book Presents a successful strategy for the management of vulnerabilities threats and failures in mission critical cyber physical systems Offers deep practical insight into principle based software development 62 principles are introduced and cataloged into five categories Business Provides direct guidance on architecting and operating dependable cyber physical systems for software managers and architects

Surreptitious Software Jasvir Nagra, Christian Collberg, 2009-07-24 This book gives thorough scholarly coverage of an area of growing importance in computer security and is a must have for every researcher student and practicing professional in software protection Mikhail Atallah Distinguished Professor of Computer Science at Purdue University Theory Techniques and Tools for Fighting Software Piracy Tampering and Malicious Reverse Engineering The last decade has seen significant progress in the development of techniques for resisting software piracy and tampering These techniques are indispensable for software developers seeking to protect vital intellectual property *Surreptitious Software* is the first authoritative comprehensive resource for researchers developers and students who want to understand these approaches the level of security they afford and the performance penalty they incur Christian Collberg and Jasvir Nagra bring together techniques drawn from related areas of computer science including cryptography steganography watermarking software metrics reverse engineering and compiler optimization Using extensive sample code they show readers how to implement protection schemes ranging from code obfuscation and software fingerprinting to tamperproofing and birthmarking and discuss the theoretical and practical limitations of these techniques Coverage includes Mastering techniques that both attackers and defenders use to analyze programs Using code obfuscation to make software harder to analyze and understand Fingerprinting software to identify its author and to trace software pirates Tamperproofing software using guards that detect and respond to illegal modifications of code and data Strengthening content protection through dynamic watermarking and dynamic obfuscation Detecting code theft via software similarity analysis and birthmarking algorithms Using hardware techniques to defend software and media against piracy and tampering Detecting software tampering in distributed system Understanding the theoretical limits of code obfuscation

The Economics of Software Quality Capers Jones, Olivier Bonsignour, 2012 Poor quality continues to bedevil large scale

development projects but few software leaders and practitioners know how to measure quality select quality best practices or cost justify their usage In *The Economics of Software Quality* leading software quality experts Capers Jones and Jitendra Subramanyam show how to systematically measure the economic impact of quality and how to use this information to deliver far more business value Using empirical data from hundreds of software organizations Jones and Subramanyam show how integrated inspection static analysis and testing can achieve defect removal rates exceeding 95 percent They offer innovative guidance for predicting and measuring defects and quality choosing defect prevention pre test defect removal and testing methods and optimizing post release defect reporting and repair This book will help you Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in debugging and prevention Use quality techniques to stay on schedule and on budget Avoid hazardous metrics that lead to poor decisions Important note The audio and video content included with this enhanced eBook can be viewed only using iBooks on an iPad iPhone or iPod touch

The Economics of Software Quality, Video Enhanced Edition Capers Jones, Olivier Bonsignour, 2011-12-31 This is the video enhanced eBook version of the printed book It contains 55 minutes of video conversations choosing defect prevention pre test defect removal and testing methods and optimizing post release defect reporting and repair This book will help you Move beyond functional quality to quantify non functional and structural quality Prove that improved software quality translates into strongly positive ROI and greatly reduced TCO Drive better results from current investments in Quality Assurance and Testing Use quality improvement techniques to stay on schedule and on budget Avoid hazardous metrics that lead to poor decisions

The CERT® C Coding Standard, Second Edition Robert C. Seacord, 2014-04-25 At Cisco we have adopted the CERT C Coding Standard as the internal secure coding standard for all C developers It is a core component of our secure development lifecycle The coding standard described in this book breaks down complex software security topics into easy to follow rules with excellent real world examples It is an essential reference for any developer who wishes to write secure and resilient software in C and C Edward D Paradise vice president engineering threat response intelligence and development Cisco Systems Secure programming in C can be more difficult than even many experienced programmers realize To help programmers write more secure code The CERT C Coding Standard Second Edition fully documents the second official release of the CERT standard for secure coding in C The rules laid forth in this new edition will help ensure that programmers code fully complies with the new C11 standard it also addresses earlier versions including C99 The new standard itemizes those coding errors that are the root causes of current software vulnerabilities in C prioritizing them by severity likelihood of exploitation and remediation costs Each of the text s 98 guidelines includes examples of insecure code as well as secure C11 conforming alternative implementations If uniformly applied these guidelines will eliminate critical coding errors that lead to buffer overflows format string vulnerabilities integer overflow and other common vulnerabilities This book reflects numerous experts contributions to the open development and

review of the rules and recommendations that comprise this standard Coverage includes Preprocessor Declarations and Initialization Expressions Integers Floating Point Arrays Characters and Strings Memory Management Input Output Environment Signals Error Handling Concurrency Miscellaneous Issues *Computers as Components* Marilyn Wolf, 2022-06-09 *Computers as Components* Principles of Embedded Computing System Design Fifth Edition continues to focus on foundational content in embedded systems technology and design while updating material throughout the book and introducing new content on machine learning and Internet of Things IoT systems Uses real processors to demonstrate both technology and techniques Shows readers how to apply principles to actual design practice Stresses necessary fundamentals that can be applied to evolving technologies and helps readers gain facility to design large complex embedded systems Covers the design of Internet of Things IoT devices and systems including applications devices and communication systems and databases Describes wireless communication standards such as Bluetooth and ZigBee *The Software Test Engineer's Handbook* Graham Bath, Judy McKay, 2014-06-12 Many books cover functional testing techniques but relatively few also cover technical testing The Software Test Engineer's Handbook 2nd Edition fills that gap Authors Graham Bath and Judy McKay are core members of the ISTQB Working Party that created the new Advanced Level Syllabus Test Analyst and Advanced Level Syllabus Technical Test Analyst These syllabi were released in 2012 This book presents functional and technical aspects of testing as a coherent whole which benefits test analyst engineers and test managers It provides a solid preparation base for passing the exams for Advanced Test Analyst and Advanced Technical Test Analyst with enough real world examples to keep you intellectually invested This book includes information that will help you become a highly skilled Advanced Test Analyst and Advanced Technical Test Analyst You will be able to apply this information in the real world of tight schedules restricted resources and projects that do not proceed as planned **Software Security Engineering** Nancy R. Mead, Julia H. Allen, Sean Barnum, Robert J. Ellison, Gary R. McGraw, 2004-04-21 *Software Security Engineering* draws extensively on the systematic approach developed for the Build Security In BSI Web site Sponsored by the Department of Homeland Security Software Assurance Program the BSI site offers a host of tools guidelines rules principles and other resources to help project managers address security issues in every phase of the software development life cycle SDLC The book's expert authors themselves frequent contributors to the BSI site represent two well known resources in the security world the CERT Program at the Software Engineering Institute SEI and Cigital Inc a consulting firm specializing in software security This book will help you understand why Software security is about more than just eliminating vulnerabilities and conducting penetration tests Network security mechanisms and IT infrastructure security services do not sufficiently protect application software from security risks Software security initiatives should follow a risk management approach to identify priorities and to define what is good enough understanding that software security risks will change throughout the SDLC Project managers and software engineers need to learn to think like an attacker in order to address the range of functions that software should not

do and how software can better resist tolerate and recover when under attack

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