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Secure Coding in C and C++



Robert C. Seacord

Foreword by Richard D. Pethia
CERT Director

Secure Coding In C And C

Huangqi Zhang



Secure Coding In C And C :

Secure Coding in C and C++ Robert C. Seacord, 2005-09-09 The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them To address this problem we must improve the underlying strategies and techniques used to create our systems Specifically we must build security in from the start rather than append it as an afterthought That s the point of Secure Coding in C and C In careful detail this book shows software developers how to build high quality systems that are less vulnerable to costly and even catastrophic attack It s a book that every developer should read before the start of any serious project Frank Abagnale author lecturer and leading consultant on fraud prevention and secure documents Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects Having analyzed nearly 18 000 vulnerability reports over the past ten years the CERT Coordination Center CERT CC has determined that a relatively small number of root causes account for most of them This book identifies and explains these causes and shows the steps that can be taken to prevent exploitation Moreover this book encourages programmers to adopt security best practices and develop a security mindset that can help protect software from tomorrow s attacks not just today s Drawing on the CERT CC s reports and conclusions Robert Seacord systematically identifies the program errors most likely to lead to security breaches shows how they can be exploited reviews the potential consequences and presents secure alternatives Coverage includes technical detail on how to Improve the overall security of any C C application Thwart buffer overflows and stack smashing attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer related problems integer overflows sign errors and truncation errors Correctly use formatted output functions without introducing format string vulnerabilities Avoid I O vulnerabilities including race conditions Secure Coding in C and C presents hundreds of examples of secure code insecure code and exploits implemented for Windows and Linux If you re responsible for creating secure C or C software or for keeping it safe no other book offers you this much detailed expert assistance **The CERT C Secure Coding Standard**

Robert C. Seacord, 2008-10-14 I m an enthusiastic supporter of the CERT Secure Coding Initiative Programmers have lots of sources of advice on correctness clarity maintainability performance and even safety Advice on how specific language features affect security has been missing The CERT C Secure Coding Standard fills this need Randy Meyers Chairman of ANSI C For years we have relied upon the CERT CC to publish advisories documenting an endless stream of security problems Now CERT has embodied the advice of leading technical experts to give programmers and managers the practical guidance needed to avoid those problems in new applications and to help secure legacy systems Well done Dr Thomas Plum founder of Plum Hall Inc Connectivity has sharply increased the need for secure hacker safe applications By combining this CERT standard with other safety guidelines customers gain all round protection and approach the goal of zero defect

software Chris Tapp Field Applications Engineer LDRA Ltd I've found this standard to be an indispensable collection of expert information on exactly how modern software systems fail in practice It is the perfect place to start for establishing internal secure coding guidelines You won't find this information elsewhere and when it comes to software security what you don't know is often exactly what hurts you John McDonald coauthor of The Art of Software Security Assessment Software security has major implications for the operations and assets of organizations as well as for the welfare of individuals To create secure software developers must know where the dangers lie Secure programming in C can be more difficult than even many experienced programmers believe This book is an essential desktop reference documenting the first official release of The CERT C Secure Coding Standard The standard itemizes those coding errors that are the root causes of software vulnerabilities in C and prioritizes them by severity likelihood of exploitation and remediation costs Each guideline provides examples of insecure code as well as secure alternative implementations If uniformly applied these guidelines will eliminate the critical coding errors that lead to buffer overflows format string vulnerabilities integer overflow and other common software vulnerabilities

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

Effective C Robert C. Seacord, 2020-08-11 A detailed introduction to the C programming language for experienced programmers The world runs on code written in the C programming language yet most schools begin the curriculum with Python or Java Effective C bridges this gap and brings C into the modern era

covering the modern C17 Standard as well as potential C2x features With the aid of this instant classic you ll soon be writing professional portable and secure C programs to power robust systems and solve real world problems Robert C Seacord introduces C and the C Standard Library while addressing best practices common errors and open debates in the C community Developed together with other C Standards committee experts Effective C will teach you how to debug test and analyze C programs You ll benefit from Seacord s concise explanations of C language constructs and behaviors and from his 40 years of coding experience You ll learn How to identify and handle undefined behavior in a C program The range and representations of integers and floating point values How dynamic memory allocation works and how to use nonstandard functions How to use character encodings and types How to perform I O with terminals and filesystems using C Standard streams and POSIX file descriptors How to understand the C compiler s translation phases and the role of the preprocessor How to test debug and analyze C programs Effective C will teach you how to write professional secure and portable C code that will stand the test of time and help strengthen the foundation of the computing world Secure Coding in C and C+ Seacord,1900 This is the eBook version of the printed book If the print book includes a CD ROM this content is not included within the eBook version The security of information systems has not improved at a rate consistent with the growth and sophistication of the attacks being made against them To address this problem we must improve the underlying strategies and techniques used to create our systems Specifically we must build security in from the start rather than append it as an afterthought That s the point of Secure Coding in C and C In careful detail this book shows softwar *The CERT C Coding Standard* Robert C. Seacord,2014 This book is an essential desktop reference for the CERT C coding standard The CERT C Coding Standard is an indispensable collection of expert information The standard itemizes those coding errors that are the root causes of software vulnerabilities in C and prioritizes them by severity likelihood of exploitation and remediation costs Each guideline provides examples of insecure code as well as secure alternative implementations If uniformly applied these guidelines will eliminate the critical coding errors that lead to buffer overflows format string vulnerabilities integer overflow and other common software vulnerabilities *Secure Coding in C and C++, Second Edition* Robert Seacord,2013 Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects Having analyzed tens of thousands of vulnerability reports since 1988 CERT has determined that a relatively small number of root causes account for most of the vulnerabilities Secure Coding in C and C Second Edition identifies and explains these root causes and shows the steps that can be taken to prevent exploitation Moreover this book encourages programmers to adopt security best practices and to develop a security mindset that can help protect software from tomorrow s attacks not just today s Drawing on the CERT s reports and conclusions Robert C Seacord systematically identifies the program errors most likely to lead to security breaches shows how they can be exploited reviews the potential consequences and presents secure alternatives Coverage includes technical detail on how to Improve the

overall security of any C or C++ application Thwart buffer overflows stack smashing and return oriented programming attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer related problems resulting from signed integer overflows unsigned integer wrapping and truncation errors Perform secure I/O avoiding file system vulnerabilities Correctly use formatted output functions without introducing format string vulnerabilities Avoid race conditions and other exploitable vulnerabilities while developing concurrent code The second edition features Updates for C11 and C++11 Significant revisions to chapters on strings dynamic memory management and integer security A new chapter on concurrency Access to the online secure coding course offered through Carnegie Mellon's Open Learning Initiative OLI Secure Coding in C and C++ Second Edition presents hundreds of examples of secure code insecure code and exploits implemented for Windows and Linux If you're responsible for creating secure C or C++ software or for keeping it safe no other book offers you this much detailed expert assistance

Web Applications Demystified: A Guide to Secure Coding Practices and Penetration Testing Pasquale De Marco, 2025-04-07 In today's digital world web applications are essential for businesses of all sizes However these applications are also a prime target for attackers who are constantly looking for ways to exploit vulnerabilities and steal data This book is a comprehensive guide to web application security covering everything from the basics to the latest trends and best practices Whether you are a web developer a system administrator or a security professional this book will help you to protect your web applications from attack With clear and concise explanations real world examples and case studies this book covers a wide range of topics including The different types of web application vulnerabilities How to write secure code How to test your web applications for vulnerabilities How to deploy and manage web applications securely The latest trends in web application security This book is a must read for anyone who is serious about protecting their web applications from attack It is also a valuable resource for students and professionals who want to learn more about web application security By following the advice in this book you can help to ensure that your web applications are secure and protected from attack Get your copy of Web Applications Demystified today and start protecting your web applications from attack If you like this book write a review

Alice and Bob Learn Secure Coding Tanya Janca, 2025-01-10 Unlock the power of secure coding with this straightforward and approachable guide Discover a game changing resource that caters to developers of all levels with Alice and Bob Learn Secure Coding With a refreshing approach the book offers analogies stories of the characters Alice and Bob real life examples technical explanations and diagrams to break down intricate security concepts into digestible insights that you can apply right away Explore secure coding in popular languages like Python Java JavaScript and more while gaining expertise in safeguarding frameworks such as Angular .NET and React Uncover the secrets to combatting vulnerabilities by securing your code from the ground up Topics include Secure coding in Python Java JavaScript C++ SQL C PHP and more Security for popular frameworks including Angular Express React .NET and Spring Security Best Practices for APIs Mobile

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CERT C Secure Coding Standard Robert Seacord C.,2008

Secure Coding in C and C++ Richard D Pethia,2006-09

Secure and Resilient Software Development Mark S. Merkow,Lakshmikanth Raghavan,2010-06-16 Although many software books highlight open problems in secure software development few provide easily actionable ground level solutions Breaking the mold Secure and Resilient Software Development teaches you how to apply best practices and standards for consistent and secure software development It details specific quality software developmen

Secure Coding in C. ,2019 Learn how to identify and code around weaknesses in the C programming language to write more secure programs

Writing Secure Code Michael Howard,David LeBlanc,2003 Howard and LeBlanc both are security experts with Microsoft discuss the need for security and outline its general principles before outlining secure coding techniques Testing installation documentation and error messages are also covered Appendices discuss dangerous APIs dismiss pathetic excuses and provide security checklists The book explains how systems can be attacked uses anecdotes to illustrate common mistakes and offers advice on making systems secure Annotation copyrighted by Book News Inc Portland OR

Software Supply Chain Security Cassie Crossley,2024-02-02 Trillions of lines of code help us in our lives companies and organizations But just a single software cybersecurity vulnerability can stop entire companies from doing business and cause billions of dollars in revenue loss and business recovery Securing the creation and deployment of software also known as software supply chain security goes well beyond the software development process This practical book gives you a comprehensive look at security risks and identifies the practical controls you need to incorporate into your end to end software supply chain Author Cassie Crossley demonstrates how and why everyone involved in the supply chain needs to participate if your organization is to improve the security posture of its software firmware and hardware With this book you ll learn how to Pinpoint the cybersecurity risks in each part of your organization s software supply chain Identify the roles that participate in the supply chain including IT development operations manufacturing and procurement Design initiatives and controls for each part of the supply chain using existing frameworks and references Implement secure development lifecycle source code security software build management and

software transparency practices Evaluate third party risk in your supply chain Architecting Secure Software Systems
Asoke K. Talukder, Manish Chaitanya, 2008-12-17 Traditionally software engineers have defined security as a non functional requirement As such all too often it is only considered as an afterthought making software applications and services vulnerable to attacks With the phenomenal growth in cybercrime it has become imperative that security be an integral part of software engineering so tha *Information Security* Colin Boyd, Wenbo Mao, 2003-12-12 The 2003 Information Security Conference was the sixth in a series that started with the Information Security Workshop in 1997 A distinct feature of this series is the wide coverage of topics with the aim of encouraging interaction between researchers in different aspects of information security This trend continued in the program of this year's conference There were 133 paper submissions to ISC 2003 From these submissions the 31 papers in these proceedings were selected by the program committee covering a wide range of technical areas These papers are supplemented by two invited papers
a third invited talk was presented at the conference but is not represented by a written paper We would like to extend our sincere thanks to all the authors that submitted papers to ISC 2003 and we hope that those whose papers were declined will be able to find an alternative forum for their work We are also very grateful to the three eminent invited speakers at the conference Paul van Oorschot Carleton University Canada Ueli Maurer ETH Zurich Switzerland and Andy Clark Inforenz Limited UK We were fortunate to have an energetic team of experts who took on the task of the program committee Their names may be found overleaf and we thank them warmly for their considerable efforts This team was helped by an even larger number of individuals who reviewed papers in their particular areas of expertise A list of these names is also provided which we hope is complete 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 Coding Standard for Java™ 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 Oracle Secure Coding Standard for Java™ 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

The Mobile Application Hacker's Handbook Dominic Chell,Tyrone Erasmus,Shaun Colley,Ollie Whitehouse,2015-02-24 See your app through a hacker s eyes to find the real sources of vulnerability The Mobile Application Hacker s Handbook is a comprehensive guide to securing all mobile applications by approaching the issue from a hacker s point of view Heavily practical this book provides expert guidance toward discovering and exploiting flaws in mobile applications on the iOS Android Blackberry and Windows Phone platforms You will learn a proven methodology for approaching mobile application assessments and the techniques used to prevent disrupt and remediate the various types of attacks Coverage includes data storage cryptography transport layers data leakage injection attacks runtime manipulation security controls and cross platform apps with vulnerabilities highlighted and detailed information on the methods hackers use to get around standard security Mobile applications are widely used in the consumer and enterprise markets to process and or store sensitive data There is currently little published on the topic of mobile security but with over a million apps in the Apple App Store alone the attack surface is significant This book helps you secure mobile apps by demonstrating the ways in which hackers exploit weak points and flaws to gain access to data Understand the ways data can be stored and how cryptography is defeated Set up an environment for identifying insecurities and the data leakages that arise Develop extensions to bypass security controls and perform injection attacks Learn the different attacks that apply specifically to cross platform apps IT security breaches have made big headlines with millions of consumers vulnerable as major corporations come under attack Learning the tricks of the hacker s trade allows security professionals to lock the app up tight For better mobile security and less vulnerable data The Mobile Application Hacker s Handbook is a practical comprehensive guide Information Security and Cryptology Helger Lipmaa,Moti Yung,Donghai Lin,2006-11-09 This book constitutes the refereed proceedings of the Second SKLOIS Conference on Information Security and Cryptology Inscrypt 2006 held in Beijing China in November December 2006 The 23 revised full papers cover digital signature schemes sequences and stream ciphers symmetric key cryptography cryptographic schemes network security access control computer and applications security as well as Web and media security

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