What Every Professional C++ Programmer Needs to Know—Pared to Its Essentials So It Can Be Efficiently and Accurately Absorbed

# C++ COMMON KNOWLEDGE

## Essential Intermediate Programming

STEPHEN C. DEWHURST

# C Common Knowledge Essential Intermediate Programming Stephen C Dewhurst

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**C Common Knowledge Essential Intermediate Programming Stephen C Dewhurst:**

**C++ Common Knowledge: Essential Intermediate Programming** Stephen C. Dewhurst,2005-09 C++ Gotchas Stephen C. Dewhurst,2002-11-26 C Gotchas is the professional programmer s guide to avoiding and correcting ninety nine of the most common destructive and interesting C design and programming errors It also serves as an inside look at the more subtle C features and programming techniques This book discusses basic errors present in almost all C code as well as complex mistakes in syntax preprocessing conversions initialization memory and resource management polymorphism class design and hierarchy design Each error and its repercussions are explained in context and the resolution of each problem is detailed and demonstrated Author Stephen Dewhurst supplies readers with idioms and design patterns that can be used to generate customized solutions for common problems Readers will also learn more about commonly misunderstood features of C used in advanced programming and design A companion Web site located at http www semantics org includes detailed code samples from the book Readers will discover How to escape both common and complex traps associated with C How to produce more reusable maintainable code Advanced C programming techniques Nuances of the C language C Gotchas shows how to navigate through the greatest dangers in C programming and gives programmers the practical know how they need to gain expert status *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

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