

High Integrity Software

- We refer to software that has a higher than normal expectation of correctness as **high integrity software**.
- A concept closely related to that of *high integrity software* is that of **critical software**.
- The term *critical software* applies to software that poses dangers should it fail.

High Integrity Software

Erwin Schoitsch



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High-Integrity Software C.T. Sennett, 2012-12-06 4 3 The Gypsy language 72 4 4 The Gypsy Verification Environment 73 4 5 A simple example 81 4 6 Specification data types 91 4 7 Future directions 95 100 4 8 Conclusions 5 Reliable programming in standard languages 102 Bernard Carre Program Validation Ltd 5 1 Introduction 102 5 2 Language requirements for high integrity programming 103 5 3 The use of standard languages 108 5 4 Programming in Pascal and Ada 110 1 19 5 5 Practical experiences NewSpeak a reliable programming language 6 122 I F Currie Royal Signals and Radar Establishment 6 1 Introduction 122 6 2 Types and values 127 6 3 Declarations and variables 132 6 4 Guarded declarations 134 6 5 Cases and conditionals 136 6 6 Loops 138 6 7 Procedures 140 6 8 Assertions 145 6 9 Timing 147 6 10 Conclusion 149 6 11 Appendix 1 summary of syntax 150 6 12 Appendix 2 type lattice and widening 156 7 Program analysis and systematic testing 159 M A Hennell University of Liverpool and D Hedley and I J Riddell Liverpool Data Research Associates Ltd 7 1 Introduction 159 7 2 The basic requirement 160 7 3 The Liverpool experience 161 7 4 The Liverpool experiments 162 7 5 The LDRA Testbeds 163 Interpretation 169 7 6 7 7 Applicability and benefits 171 7 8 Safety critical systems 173 VI 8 Program analysis and verification 176 Bernard Carre Program Validation Ltd 8 1 Introduction 176 8 High Integrity Software Victor L. Winter, Sourav Bhattacharya, 2012-12-06 The second half of the twentieth century has witnessed remarkable advances in technology The unquestioned leader in this race has been computer technology Even the most modest personal computers today have computing power that would have astounded the leading technologists a few decades earlier and what's more similar advances are predicted for many years to come Looking towards the future it has been conservatively estimated that in 2047 computers could easily be 100 000 times more powerful than they were in 1997 Moore's law Moore would lead to an increase on the order of around 10 billion Bell Because of its enormous capability computer technology is becoming pervasive across the technology spectrum Nowadays it is not surprising to discover that very common household gadgets like your toaster contain computer technology Televisions microwave ovens and even electric shavers contain software And what's more the use of computer technology has been estimated to double every two years Gibbs In order to keep up with the growing technology demands and to fully utilize the ever more powerful computing platforms software projects have become more and more ambitious This has led to software systems becoming dominant forces in system functionality Further more the ambition to realize significant portions of a system's functionality through software has extended into the high consequence realm Presently software controls many critical functions in 1 airplanes 2 electronic commerce 3 space bound systems 4 medical systems and 5 various transportation systems such as automobiles and trains High Integrity Software John Gilbert Presslie Barnes, 2003 This book provides an accessible introduction to the SPARK programming language Updated classic that covers all of the new features of SPARK including Object Oriented Programming The only book on the market that covers this important and robust programming language CD ROM contains the main SPARK tools and additional

manuals giving all the information needed to use SPARK in practice Technology The SPARK language is aimed at writing reliable software that combines simplicity and rigour within a practical framework Because of this many safety critical high integrity systems are developed using SPARK User Level Intermediate Audience Software engineers programmers technical leaders software managers Engineering companies in fields such as avionics railroads medical instrumentation and automobiles Academics giving MSc courses in Safety Critical Systems Engineering System Safety Engineering Software Engineering Author Biography John Barnes is a veteran of the computing industry In 1977 he designed and implemented the RTL 2 programming language and was an original member of the ADA programming language design team He was founder and MD of Alslys Ltd from 1985 to 1991 Currently self employed John is the author of Programming in ADA which has sold 150000 copies and been translated into 6 languages **High Integrity Software** John Gilbert Presslie Barnes,2006

New Trends in Software Methodologies, Tools and Techniques Hamido Fujita,Roberto Revetria,2012 Software is the essential enabling means for science and the new economy It helps us to create a more reliable flexible and robust society But software often falls short of our expectations Current methodologies tools and techniques remain expensive and are not yet sufficiently reliable while many promising approaches have proved to be no more than case by case oriented methods This book contains extensively reviewed papers from the eleventh International Conference on New Trends in software Methodology Tools and Techniques SoMeT_12 held in Genoa Italy in September 2012 The conference provides an opportunity for scholars from the international research community to discuss and share research experiences of new software methodologies and techniques and the contributions presented here address issues ranging from research practices and techniques and methodologies to proposing and reporting solutions for global world business The emphasis has been on human centric software methodologies end user development techniques and emotional reasoning for an optimally harmonized performance between the design tool and the user Topics covered include the handling of cognitive issues in software development to adapt it to the user s mental state and intelligent software design in software utilizing new aspects on conceptual ontology and semantics reflected on knowledge base system models This book provides an opportunity for the software science community to show where we are today and where the future may take us **Ada in Transition** W. J. Taylor,1992 The book reviews the current practice in Ada applications innovative developments in Ada technology how Ada can be applied in more demanding systems in the safety critical area and reports on the Ada 9X revision effort Preface

Formal Software Development Quentin Charatan,Aaron Kans,2003-09-09 This is a gently paced software engineering text that concentrates on the use of formal methods for the development of high integrity software It assumes no previous knowledge of formal methods and presents a practical and comprehensive treatment of the subject suitable for second and third year undergraduates on computing courses and students on taught master s courses The book is packed with examples and exercises throughout High Integrity Software John Gilbert Presslie Barnes,2003 Software Engineering for Large

Software Systems B.A. Kitchenham, 2012-12-06 These proceedings include tutorials and papers presented at the Sixth CSR Conference on the topic of Large Software Systems The aim of the Conference was to identify solutions to the problems of developing and maintaining large software systems based on approaches which are currently being undertaken by software practitioners These proceedings are intended to make these solutions more widely available to the software industry The papers from software practitioners describe important working systems highlighting their problems and successes techniques for large system development and maintenance including project management quality management incremental delivery system security in dependent V Professor John McDermid of the University of York on Systems Engineering Environments for High Integrity Systems The remaining papers deal with reports on existing systems starting with Professor Warboys keynote paper approaches to large systems development methods for large systems maintenance and the expected impact of current research

Real Time Computing Alexander D. Stoyenko, 2013-12-14 NATO's Division of Scientific and Environmental Affairs sponsored this Advanced Study Institute because it was felt to be timely to cover this important and challenging subject for the first time in the framework of NATO's ASI programme The significance of real time systems in everyone's life is rapidly growing The vast spectrum of these systems can be characterised by just a few examples of increasing complexity controllers in washing machines air traffic control systems control and safety systems of nuclear power plants and finally future military systems like the Strategic Defense Initiative SDI The importance of such systems for the well being of people requires considerable efforts in research and development of highly reliable real time systems Furthermore the competitiveness and prosperity of entire nations now depend on the early application and efficient utilisation of computer integrated manufacturing systems CIM of which real time systems are an essential and decisive part Owing to its key significance in computerised defence systems real time computing has also a special importance for the Alliance The early research and development activities in this field in the 1960s and 1970s aimed towards improving the then unsatisfactory software situation Thus the first high level real time languages were defined and developed RTL 2 Coral 66 Procol LTR and PEARL In close connection with these language developments and with the utilisation of special purpose process control peripherals the research on real time operating systems advanced considerably

Data-Centric Safety Alastair Faulkner, Mark Nicholson, 2020-05-27 Data Centric Safety presents core concepts and principles of system safety management and then guides the reader through the application of these techniques and measures to Data Centric Systems DCS The authors have compiled their decades of experience in industry and academia to provide guidance on the management of safety risk Data Safety has become increasingly important as many solutions depend on data for their correct and safe operation and assurance The book's content covers the definition and use of data It recognises that data is frequently used as the basis of operational decisions and that DCS are often used to reduce user oversight This data is often invisible hidden DCS analysis is based on a Data Safety Model DSM The DSM provides the basis for a toolkit leading to

improvement recommendations It also discusses operation and oversight of DCS and the organisations that use them The content covers incident management providing an outline for incident response Incident investigation is explored to address evidence collection and management Current standards do not adequately address how to manage data and the errors it may contain and this leads to incidents possibly loss of life The DSM toolset is based on Interface Agreements to create soft boundaries to help engineers facilitate proportionate analysis rationalisation and management of data safety Data Centric Safety is ideal for engineers who are working in the field of data safety management This book will help developers and safety engineers to Determine what data can be used in safety systems and what it can be used for Verify that the data being used is appropriate and has the right characteristics illustrated through a set of application areas Engineer their systems to ensure they are robust to data errors and failures

System Fault Diagnostics, Reliability and Related Knowledge-Based Approaches S.G. Tzafestas, Madan Singh, Günther Schmidt, 1987-08-31

Ada L. Collingbourne, 1993 Reports about recent developments of ADA especially in the UK It contains an introduction to ADA 9X and reports about the improved support for object oriented programming and the tasking model It also discusses high integrity applications safety critical software development and the mapping of ADA projects on the 2157A standard

Achieving Quality Software D.J. Smith, 2012-12-06 The rapid growth in use of programmable technology in nearly all sectors of Engineering is a well known established trend and one which there is every reason to believe will continue into the foreseeable future The drivers of this trend include cost flexibility rich functionality and certain reliability and safety advantages However as explained in this book these advantages have to be carefully weighed against a number of disadvantages which amongst other things have fundamental implications for reliability and safety Ideally a programmable system would be viewed as a fusion of hardware software and user or skinware operating under a set of environmental conditions To date such a unifying model does not exist and so hardware software and human factors are still considered largely as three separate disciplines albeit with certain interdependencies Established techniques are available which enable the engineer to develop systems comprising purely hardware components to a prescribed reliability and performance Software however is fundamentally different in a number of ways and does not lend itself to equivalent analysis A major problem with software is its poor visibility and consequently the great difficulty in understanding and predicting its behaviour in all circumstances This results in the ever present software design flaws or bugs which have plagued the software industry from its beginnings

Nuclear Safety, 1994

Reliable Software Technologies -- Ada-Europe 2003 Jean-Pierre Rosen, Alfred Strohmeier, 2003-08-03 The refereed proceedings of the 8th International Conference on Reliable Software Technologies Ada Europe 2003 held in Toulouse France in June 2003 The 29 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions The papers are organized in topical sections on Ravenscar language issues static analysis distributed information systems software metrics software components formal specification real time kernel

software testing and real time systems design Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), National Institute of Standards and Technology (U.S.). Information Resources and Services Division, 1994 Lean Software Strategies Peter Middleton, James Sutton, 2020-03-06

Lean production which has radically benefited traditional manufacturing can greatly improve the software industry with similar methods and results This transformation is possible because the same overarching principles that apply in other industries work equally well in software development The software industry follows the same industrial concepts of production as those applied in manufacturing however the software industry perceives itself as being fundamentally different and has largely ignored what other industries have gained through the application of lean techniques *Software Quality Control, Error, Analysis* Judith A. Clapp, 1995 Software Quality Control Error Analysis Computer Safety, Reliability, and Security Erwin Schoitsch, 2010-08-11 Computers and microprocessors are indispensable in modern technical systems their deployment spanning the domains automotive railway aerospace and transportation security energy supply telecommunication critical infrastructures and process industries They perform tasks that a few decades ago were very difficult if not impossible As they perform these tasks with increasing efficiency more and more tasks are shifted from hardware to software which means that the dependability of computer systems becomes crucial for the safety security and reliability of technical systems With the so called embedded systems becoming more and more intelligent networked and co operating with each other with humans and the environment computers have invaded all aspects of daily life New paradigms have arisen like ubiquitous computing systems of systems energy and resource awareness enormous complexity issues and the like requiring a more holistic systems view as well th So after 31 years of SAFECOMP the emphasis of the 29 event is on critical bedded systems which are almost omnipresent Their impact on our lives risks and challenges are often not well understood underestimated or exaggerated The p mary issue is to cope with complexity new failure modes and resource management due to shrinking feature size multi core systems and management of multiple variants while maintaining dependability properties and robustness

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