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1. Introduction

For a software development environment to handle a large, complex software project effectively, the environment must have mechanisms for source code control and configuration management. A common method of addressing this problem uses a source code control system such as SCCS [3] or RCS [4] as a baseline. Configuration management is superimposed upon the low level version control system by describing a *system variant* as a selection thread through the sets of *component* versions. The DOMAIN Software Engineering Environment (DSEE) [2] is an example of just such a system.

In the GANDALF project, we are exploring the inverse approach by building version control on top of configuration management. The composition of variants of a system occurs at the lowest level. Each variant characterizes an instance of a complete system, such as a system variant to run under the X windowing system vs. a system variant to run under the NeWS windowing system. This approach emphasizes the composition of systems as opposed to assembling system variants out of components organized with a version control system at the lowest level.

The next higher level provides version control. This level maintains the evolution of the system as a set of *revisions*. As development proceeds, modifications of software components are tracked by the creation of additional revisions. Each revision contains a full set of variants in contrast to systems such as DSEE, which maintain revisions of single components.

At the top level, we embed version control in a nested *long-term transaction* model to handle the issues of active software development by multiple

users. This mechanism defines a recursive structure which provides encapsulated workspaces for software development and the ability to divide the development process into subtasks. All levels of the transaction hierarchy include the capabilities of the versioning system, providing the developer with a safe environment for experimental work.

In the following sections, we will further characterize each of the three levels used to manage a software system in a GANDALF environment.

2. Variants

At the lowest level in our model we maintain a hierarchically structured collection of source code components. This structured collection consists of one or more *variants* of a software system. Each variant represents a complete instance of the software system and is comprised of a subset of the components in the collection.

For example, Figure 2-1 shows a collection of components 1, 2, 3, 4, and 5. There are two system variants within this collection, specified by "Win = <X10,X11>" and "Win = <NeWS>". which distinguish the target windowing system. The system variant for X10/X11 consists of components 1, 2, 3, and 4, while the system variant for NeWS consists of components 1, 2, 3, and 5. As this figure demonstrates, the structuring of components within a collection allows us to specify sharing (1, 2, and 3) and discrimination (4 or 5) of components among system variants.

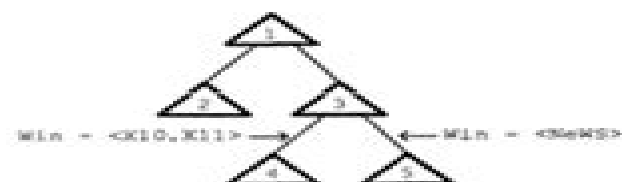


Figure 2-1: Windowing System Variants

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Proceedings Of The 2nd International Workshop On Software Configuration

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Management, Princeton, New Jersey, October 24, 1989 Richard N. Taylor,1989 Software Configuration Management Jacky Estublier,1995-10-18 This book presents revised full versions of the best papers accepted for the SCM 4 and SCM 5 Workshops on Software Configuration Management held in connection with the 1994 and 1995 IEEE International Conference on Software Engineering ICSE The 22 papers included give a unique overview on and introduction to current software configuration management issues SCM is the discipline of managing software evolution It is concerned with controlling evolving software products and supporting teams and activities involved in the development of complex software systems SCM attracts the attention of SE design and development professionals of researchers and of software managers

Software Configuration Management Ian Sommerville,1996-10-30 Content Description Includes bibliographical references and index ECOOP '91 European Conference on Object-Oriented Programming Pierre America,1991-07-03 ECOOP 91 is the fifth annual European Conference on Object Oriented Programming From their beginning the ECOOP conferences have been very successful as a forum of high scientific quality where the newest developments connected to object oriented programming and related areas could be presented and discussed Over the last few years object oriented technology has gained widespread use and considerable popularity In parallel with this the field has matured scientifically but there is still a lot of room for new ideas and for hot debates over fundamental issues as these proceedings show The 22 papers in this volume were selected by the programme committee from 129 submissions Important issues discussed in the contributions are language design specification databases concurrency types and software development

Software Product-Family Engineering Frank van der Linden,2004-05-24 This book constitutes the thoroughly refereed post proceedings of the 5th International Workshop on Product Family Engineering PFE 2003 held in Siena Italy in November 2003 The 36 revised full papers presented together with an introductory overview and 3 keynote presentations were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on variation mechanisms requirements analysis and management product derivation transition to family development industrial experience evolution and decision and derivation

Proceedings of the 3rd International Workshop on Software Configuration Management Peter H. Feiler,1991 Generative and Transformational

Techniques in Software Engineering II Ralf Lämmel,Joost Visser,João Saraiva,2008-10-08 The second instance of the international summer school on Generative and Transformational Techniques in Software Engineering GTTSE 2007 was held in Braga Portugal during July 2 7 2007 This volume contains an augmented selection of the material presented at the school

including full tutorials short tutorials and contributions to the participants workshop The GTTSE summer school series brings together PhD students lecturers technology presenters as well as other researchers and practitioners who are interested in the generation and the transformation of programs data models metamodels documentation and entire software systems This concerns many areas of software engineering software reverse and re engineering model driven engineering automated software engineering generic language technology to name a few These areas differ with regard to the specific sorts of metamodels or grammars schemas formats etc that underlie the involved artifacts and with regard to the specific techniques that are employed for the generation and the transformation of the artifacts The first instance of the school was held in 2005 and its proceedings appeared as volume 4143 in the LNCS series

Software Configuration Management Handbook, Third Edition Alexis Leon, 2015-02-01 Software configuration management SCM is one of the scientific tools that is aimed to bring control to the software development process This new resource is a complete guide to implementing operating and maintaining a successful SCM system for software development Project managers system designers and software developers are presented with not only the basics of SCM but also the different phases in the software development lifecycle and how SCM plays a role in each phase The factors that should be considered and the pitfalls that should be avoided while designing the SCM system and SCM plan are also discussed In addition this third edition is updated to include cloud computing and on demand systems This book does not rely on one specific tool or standard for explaining the SCM concepts and techniques In fact it gives readers enough information about SCM the mechanics of SCM and SCM implementation so that they can successfully implement a SCM system

Developing and Evaluating Security-Aware Software Systems Khan, Khaled M., 2012-11-30 This book provides innovative ideas and methods on the development operation and maintenance of secure software systems and highlights the construction of a functional software system and a secure system simultaneously Provided by publisher

Declarative Agent Languages and Technologies Joao Leite, Andrea Omicini, Leon Sterling, Paolo Torroni, 2004-07-22 Agent metaphors and technologies are increasingly adopted to harness and govern the complexity of today's systems As a consequence the growing complexity of agent systems calls for models and technologies that promote system predictability and enable feature discovery and verification Formal methods and declarative technologies have recently attracted a growing interest as a means to address such issues The aim of the DALT 2003 workshop was two fold On the one hand we wanted to foster a discussion forum to export such techniques into the broader

community of agent researchers and practitioners On the other hand we wanted to bring in the issues of real world complex and possibly large scale agent system design in the perspective of formal methods and declarative technologies Thanks to the very high quality of our program committee we managed to put together a rich program including three technical sessions and two panel sessions The Use of Declarative Programming for Agent Oriented Software Engineering moderated by Leon Sterling and Andrea Omicini and Declarative and Logic Based Technology for Agent Reasoning and Interactions organized and moderated

by Rafael Bordini and Wiebe van der Hoek with the participation of five invited panelists This book contains the revised and extended versions of the papers presented at the workshop as well as three invited contributions by leading researchers of the field It is composed of three parts i software engineering and multi agent system prototyping ii agent reasoning BDI logics and extensions and iii social aspects of multi agent systems **Management, a Bibliography for NASA Managers**, 1985 Management, 1985 **Model-Driven and Software Product Line Engineering** Hugo Arboleda, Jean-Claude Royer, 2013-03-06 Many approaches to creating Software Product Lines have emerged that are based on Model Driven Engineering This book introduces both Software Product Lines and Model Driven Engineering which have separate success stories in industry and focuses on the practical combination of them It describes the challenges and benefits of merging these two software development trends and provides the reader with a novel approach and practical mechanisms to improve software development productivity The book is aimed at engineers and students who wish to understand and apply software product lines and model driven engineering in their activities today The concepts and methods are illustrated with two product line examples the classic smart home systems and a collection manager information system **NASA SP-7500** United States. National Aeronautics and Space Administration, 1982 *Handbook of Systems Engineering and Management* Andrew P. Sage, William B. Rouse, 2014-12-31 The trusted handbook now in a new edition This newly revised handbook presents a multifaceted view of systems engineering from process and systems management perspectives It begins with a comprehensive introduction to the subject and provides a brief overview of the thirty four chapters that follow This introductory chapter is intended to serve as a field guide that indicates why when and how to use the material that follows in the handbook Topical coverage includes systems engineering life cycles and management risk management discovering system requirements configuration management cost management total quality management reliability maintainability and availability concurrent engineering standards in systems engineering system architectures systems design systems integration systematic measurements human supervisory control managing organizational and individual decision making systems reengineering project planning human systems integration information technology and knowledge management and more The handbook is written and edited for systems engineers in industry and government and to serve as a university reference handbook in systems engineering and management courses By focusing on systems engineering processes and systems management the editors have produced a long lasting handbook that will make a difference in the design of systems of all types that are large in scale and or scope *Second International Workshop on Software Engineering and Code Design in Parallel Meteorological and Oceanographic Applications*, 1998 **Empirical Research in Software Engineering** Ruchika Malhotra, 2016-03-09 Empirical research has now become an essential component of software engineering yet software practitioners and researchers often lack an understanding of how the empirical procedures and practices are applied in the field Empirical Research in Software Engineering Concepts Analysis and Applications shows how

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