

Simulation Verification and Validation by Dynamic Policy Enforcement

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Abstract

This paper presents a new verification and validation (V&V) technique for simulation using dynamic policy enforcement. Constraints are formally specified as policies, and they will be used to check whether simulation satisfies these policies at runtime. This paper also proposes a development framework where policies are developed along with system development and V&V. Once policies are extracted from requirements and specified in a policy specification language, the rest of the development work is automatically performed by the tools in the framework. Both security requirements and functional requirements can be specified as policies and dynamically enforced during the simulation. An automated tool is available for policy specification and enforcement, and it is fully integrated with the simulation infrastructure. This paper also presents a sample system that is modeled and simulated, and policies are used to verify and validate the system model. The paper also discusses the overhead imposed to perform this kind of automated policy-based V&V compared to the hard-coded implementation of the same approach.

Keywords: Simulation, Verification and Validation, Automated Policy Specification and Enforcement.

1. Introduction

Simulation Verification and Validation (V&V) need to check 1) the model of problems, 2) the program that simulates the problems, 3) the simulation engine that interprets the simulation program, and 4) the interactions between the simulation program and the simulation engine. Traditional simulation V&V techniques, such as code inspection, model checking and software testing, can check the simulation program and the simulation engine respectively, but cannot check the dynamic behaviors and the interactions between the program and the engine at runtime. Because the outputs of a complex system may depend not only on the inputs, but also on the internal states, testing has to initialize the environment to a given state and then run the program to see if the program behaves as intended, which is time consuming and difficult.

This paper presents a new technique that applies policy

enforcement to detect the manifestations of faults at runtime caused by either the simulation program or the simulation engine. This V&V technique focuses on the behaviors instead of the causes of faults and the structure of the program, and thus is independent of the complexity of the system under test. Policies are traditionally used to enforce security requirements. This paper also suggests using policies to enforce functionality requirements and thus performing dynamic V&V.

A policy is a statement of the intent of policy makers or administrators of a computing system, specifying how the system should be used [1][2]. A policy-based system has the advantage of flexibility. Traditionally, policies are considered to be requirements and are hard-coded into the system implementation. For instance, if a policy states that "passwords must be at least 6-character long", there must exist a snippet of code in the system implementation that checks the length of passwords. Hard-coded policies can cause major problems such as:

- It is difficult and expensive to change. Whenever a policy needs to be changed (e.g. the system administrator wants to increase the minimum length of valid passwords from 6-character long to 8-character long), the whole system has to be shut down. The code needs to be inspected, modified, recompiled, and redeployed. The process is lengthy and error prone. It significantly increases an organization's operating expenses and risk. Shutting down a mission-critical system, in most cases, is prohibitive and may cause disastrous consequences to the mission.
- It is difficult to manage. Hard-coded policies do not separate the policy specification from the system implementation. Policies spread over everywhere in the system implementation. If a policy maker wants to know "How many policies are there in the system" or "What are the policies that are defined on the role of Supporting Arms Coordinator", there is no easy way to find out the answers.

In the past decade, a number of *Policy Specification Languages (PSLs)* have been proposed [2][4][5][6][7][8] to solve the problems caused by hard-coded policies. Many PSLs provide a set of simple and easy-to-use syntax to specify policies which is separate from the system implementation. A user interface can provide how policy

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and decision makers to hire resources enhance workflows or both It guides designers and system implementers in a step by step approach to make optimal decisions for resource allocation and helps designers and management to detect deficiencies in ongoing processes and fix or enhance them Soraia Oueida is an instructor in the Department of Computer Engineering at the American University of the Middle East She is an IEEE member and her research interests include Simulation Modeling Discrete Mathematics Petri Net Workflows Blockchain IoT Industrial Management Systems Communicating Process Architectures 2008 P. H. Welch,2008 Communicating Process Architectures 2008 contains the proceedings of the thirty first Communicating Process Architectures Conference CPA 2008 organized under the auspices of WoTUG and the Department of Computer Science of the University of York The aim of this book is to cover both theoretical aspects and industrial applications of Communicating Processes Two invited speakers have given excellent contributions to this topic Professor Samson Abramsky has worked in the areas of semantics and logic of computation and concurrency His work on game semantics considers interaction and information flow between multiple agents and their environment This has yielded new approaches to compositional model checking and to analysis for programs with state concurrency probability and other features Professor Colin O Halloran has been instrumental in the uptake of formal methods in the development and verification of high assurance systems on an industrial scale His research interests are in automating the use of formal methods and using these techniques at reasonable cost and on an industrial scale Modeling and Simulation for Military Operations II William K. Schum,Dawn A. Trevisani,2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature *Proceedings of the International Conference on Integration and Commercialization of Micro and Nanosystems, 2007: Micro and nano fluidics ; Micro and nano manufacturing ; Metrology and control ; Commercialization of micro and nano technology ; General ,2007* **Approaches and Designs of Dynamic Voltage and Frequency Scaling** Wayne Hung Cheng,2007 **Manufacturing Engineering and Materials Handling--2005** ,2005 *Multimedia Technologies* Mahbubur Rahman Syed,2008-01-01 This book offers an in depth explanation of multimedia technologies within their many specific application areas as well as presenting developing trends for the future Provided by publisher *Journal of Engineering Materials and Technology* ,2008 **Information Security and Ethics** Hamid R. Nemati,2008 This compilation serves as the ultimate source on all theories and models associated with information privacy and safeguard practices to help anchor and guide the development of technologies standards and best practices to meet these challenges Provided by publisher Proceedings of the ... ASME Design Engineering Technical Conferences ,2006 Adaptive Traffic Control Systems Aleksandar Stevanovic,2010 TRB s National Cooperative Highway Research Program NCHRP Synthesis 403 Adaptive Traffic Control Systems Domestic and Foreign State of Practice explores

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