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# Real Time Uml Developing Efficient Objects For Embedded Systems

**the real-time uml standard: theory and application** - the real-time uml standard: theory and application  
the real-time uml standard: ben watson tri-pacific software, inc. watson@tripac bran selic rational software  
canada bselic@rational. 2 tutorial objectives ♦to clarify the relationship between the object paradigm **bruce douglass - rt uml tutorial -3 hr - Øredev 2006** - 2 real-time uml ©telelogic ab what is uml? •unified modeling language •comprehensive full life-cycle 3rd generation modeling language -standardized in 1997 by the omg -created by a consortium of 12 companies from various domains -i-logix a key contributor to the uml including the definition of behavioral **using uml for modeling complex real-time systems** - using uml for modeling complex real-time systems bran selic, objecttime limited jim rumbaugh, rational software corporation march 11, 1998 abstract the embedded real-time software systems encountered in applications such as telecommunications, aerospace, and defense typically tend to be large and extremely complex. **uml and real-time systems - emis** - time domain. in particular, we look at how tools and features from the real-time domain have affected the standardization efforts when further developing the next generation of uml, called uml 2.0. as part of the language proper, the primary concern is to cover soft real-time aspects, while hard real-time aspects are handled **uml 2.0 notation for modeling real time task scheduling** - uml 2.0 notation for modeling real-time task scheduling 92 journal of object technology vol. 5, no. 4 that have proven successful in the modeling of large and complex systems [uml03]. nowadays, uml is commonly used as a description language and is more complete than **real-time design patterns: robust scalable architecture ...** - doug jensen is widely recognized as one of the pioneers of real-time computing systems, and especially of dynamic distributed real-time computing systems. he is credited with the research leading to the world's first deployed distributed real-time computer control system product. he has over three decades of **modeling real-time applications in rsarte** - to be familiar with to be able to create models for real-time applications using rsarte. it should be mentioned that other parts of the uml also may be useful for modeling a real-time application. for example, during analysis phases and for systems modeling, many other **designing real-time applications with the comet/uml method** - designing real-time applications with the comet/uml method hassan gomaa department of information and software engineering george mason university fairfax, virginia 22030, usa hgomaa@gmu 1. **a uml documentation for an elevator system** - a uml documentation for an elevator system lu luo 1 of 29 a uml documentation for an elevator system 1. introduction this paper is a phd project report for the course distributed embedded systems at carnegie mellon university. throughout this course, a distributed real-time system - an elevator control **object-oriented software engineering with uml** - • uml notation used for oo analysis and design method for concurrent, real-time and distributed applications - concurrent object modeling and architectural design method (comet) • h. gomaa, "designing concurrent, distributed, and real-time applications with uml", addison wesley object technology series, july, 2000. **real-time uml - home - springer** - real-time uml 57 performance, and time specification [2] (upspt) is an attempt to codify the standard ways that have been used now for several years of applying the uml to the problems of real-time and embedded systems. **rational rose realtime - west virginia university** - rational rose realtime rational rose® realtime is a complete lifecycle unified modeling language™ (uml) develop-ment environment expressly created to meet these real-time embedded challenges. it pro-vides a uml-compliant solution to the unique problems of concurrency and distribution. rational rose realtime unifies the project team **tools for real-time uml: formal veri cation and code synthesis** - abstract. we present a real-time extension of uml statecharts to enable modelling and veri cation of real-timed constraints. for clarity, we shall consider a reasonable subset of the rich uml statechart model and extend it with real-time constructs (clocks, timed guards, invariants and real-time tasks). **tools for real-time uml: formal verification and code synthesis** - first, we propose a timed version of the uml statecharts model appropriate for high-level design and analysis of real-time systems. the model has a simple and clear semantics, and is powerful enough to describe the characteristic features of real-time systems, such as scheduling algorithms, timers, timeouts, continuous behaviors, etc. **unified modeling language for real-time systems design** - unified modeling language for real-time systems design page 1 rational software corporation unified modeling language for real-time systems design introduction the unified modeling language, or uml, is a third-generation object-oriented modeling language. it adapts and extends the published works of grady booch, jim rumbaugh, and

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