

Rationale for the Direction of the Distributed Real-Time Specification for Java

Panel Position Paper

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The Distributed Real-Time Specification for Java (DRTSJ) is being developed by the JSR-90 Expert Group in Sun's Java Community Process. The Expert Group is led by The MITRE Corporation, and includes approximately 20 other member enterprises – from academia, the U.S. government, and industrial corporations in the defense, telecommunications, industrial automation fields.

The terms “distributed,” “real-time,” and “distributed real-time” are employed for so many disparate kinds of computer systems, that the Expert Group deemed it unlikely that any single DRTSJ could do justice to them all. Therefore, the intended target space of “distributed real-time” systems had to be at least roughly delineated for both the Expert Group and the prospective DRTSJ users. This position paper synthesizes some of the rationale for the Expert Group's focus.

For the purpose of the DRTSJ, the term *distributed system* informally refers to a computing system whose programming model is based on there being application-level entities that exhibit multi-node behaviors.

In real-time distributed computing systems, multi-node application behaviors may have end-to-end time constraints. The defining characteristic of any real-time distributed computing system, whatever its programming model, is that the timeliness (optimality and predictability of optimality) of each multi-node application behavior – on each individual node it involves, and collectively end-to-end on all nodes it currently involves – is acceptable to that application under the current circumstances.

The “current circumstances” include the latency characteristics of the underlying infrastructure (node OS's, network), the attributes of the system load, etc. All those circumstances are known and controlled *a priori* in static distributed real-time computing systems, notably including hard real-time ones. But in general, not all of those circumstances are (or can be) known and controlled *a priori* – the system is *dynamic* to the degree that is the case.

The Real-Time Specification for Java is oriented toward

dynamic (non-static) systems, although it has been proven to successfully support static hard real-time computing. Similarly, the DRTSJ is oriented toward the general case of dynamic distributed real-time computing systems, although we expect it to also be capable of supporting the special case of static hard real-time ones.

In most cases, the extent to which end-to-end multi-node timeliness can be achieved depends on the extent to which each multi-node application behavior's timeliness properties – e.g., end-to-end time constraints, expected execution time, execution time received thus far, etc. – are explicitly employed for appropriately coherent resource management (particularly scheduling) on each node currently involved in that application multi-node behavior. Ideally, that includes scheduling of other sequentially shared hardware resources, notably the network connecting those nodes, and software ones as well, notably synchronizers (e.g., locks).

Thus (in dynamic distributed real-time computing systems) these properties need to be propagated among corresponding computing node resource managers in operating systems, JVM's, middleware, and even (directly or indirectly) device – e.g., network, storage – controllers. Acquiring, propagating, depositing, and employing this information should be done transparently to the application programmers; indeed, often some of this information is not even accessible by the application programmers.

There are many different kinds of distributed systems. However, the vast majority of deployed distributed real-time computing systems employ at least one of the following programming models:

- *control flow*: movement of an execution point, with or without parameters, among application entities – e.g., remote procedure call (RPC) and remote method invocation (RMI)
- *data flow*: movement of data, without an execution point, among application entities – e.g., publish/subscribe and bulk data transfers
- *networked*: asynchronous or synchronous movement of messages, without an execution point, among application entities – e.g., message passing IPC

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The Practical Handbook of Internet Computing Munindar P. Singh, 2004-09-29 The Practical Handbook of Internet Computing analyzes a broad array of technologies and concerns related to the Internet including corporate intranets Fresh and insightful articles by recognized experts address the key challenges facing Internet users designers integrators and policymakers In addition to discussing major applications it also covers the architectures enabling technologies software utilities and engineering techniques that are necessary to conduct distributed computing and take advantage of Web based services The Handbook provides practical advice based upon experience standards and theory It examines all aspects of Internet computing in wide area and enterprise settings ranging from innovative applications to systems and utilities enabling technologies and engineering and management Content includes articles that explore the components that make Internet computing work including storage servers and other systems and utilities Additional articles examine the technologies and structures that support the Internet such as directory services agents and policies The volume also discusses the multidimensional aspects of Internet applications including mobility collaboration and pervasive computing It concludes with an examination of the Internet as a holistic entity with considerations of privacy and law combined with technical content

Handbook of Internet Computing Borko Furht, 2019-07-23 Scientists in different geographical locations conduct real time experiments in a virtual shared workspace E commerce provides an emerging market for businesses large and small E mail Servers and Enterprise Resources Planning have revolutionized businesses on every level People from all over the globe gather in chat rooms The Internet is here to stay and Internet technologies and applications continue to grow and evolve The Handbook of Internet Computing presents comprehensive coverage of all technical issues related to the Internet and its applications It addresses hot topics such as Internet architectures content based multimedia retrieval on the Internet Web based collaboration Web search engines digital libraries and more Real life examples illustrate the concepts so that technical non technical and business people can quickly grasp the fundamentals

Handbook of Software Engineering Sungdeok Cha, Richard N. Taylor, Kyochul Kang, 2019-02-11 This handbook provides a unique and in depth survey of the current state of the art in software engineering covering its major topics the conceptual genealogy of each subfield and discussing future research directions Subjects include foundational areas of software engineering e g software processes requirements engineering software architecture software testing formal methods software maintenance as well as emerging areas e g self adaptive systems software engineering in the cloud coordination technology Each chapter

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Distributed, Embedded and Real-time Java Systems M.

Teresa Higuera-Toledano, Andy J. Wellings, 2012-02-07 Research on real time Java technology has been prolific over the past decade leading to a large number of corresponding hardware and software solutions and frameworks for distributed and embedded real time Java systems This book is aimed primarily at researchers in real time embedded systems particularly those who wish to understand the current state of the art in using Java in this domain Much of the work in real time distributed embedded and real time Java has focused on the Real time Specification for Java RTSJ as the underlying base technology and consequently many of the Chapters in this book address issues with or solve problems using this framework Describes innovative techniques in scheduling memory management quality of service and communication systems supporting real time Java applications Includes coverage of multiprocessor embedded systems and parallel programming Discusses state of the art resource management for embedded systems including Java s real time garbage collection and parallel collectors Considers hardware support for the execution of Java programs including how programs can interact with functional accelerators Includes coverage of Safety Critical Java for development of safety critical embedded systems

Software Similarity and Classification Silvio Cesare, Yang Xiang, 2012-03-05 Software similarity and classification is an emerging topic with wide applications It is applicable to the areas of malware detection software theft detection plagiarism detection and software clone detection Extracting program features processing those features into suitable representations and constructing distance metrics to define similarity and dissimilarity are the key methods to identify software variants clones derivatives and classes of software Software Similarity and Classification reviews the literature of those core concepts in addition to relevant literature in each application and demonstrates that considering these applied problems as a similarity and classification problem enables techniques to be shared between areas Additionally the authors present in depth case studies using the software similarity and classification techniques developed throughout the book

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