

Article

Analysis of Concurrent Systems Based on Interval Order

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Abstract: One way to verify the concurrent system is to sort the read and write events and control events in the concurrent system according to the sequence relationship, either in a partial order, or in a strict order. Due to the concurrency of the events and the timing of the written data events, there is an overlap between the events, which requires an interval order for analysis. The order structure of the entire interval order is represented by the start and end sequences, and the order is observed for all equivalent interval orders. Mazurkiewicz traces, Comtraces are hierarchical traces, but neither can describe the interval trace. The petri interval trace with data is the technique to solve the problem in this paper, DPN, the Petri net with data, to describe the interval trace of read and write data. The method used is a BE (Beginnings and Endings) sequence to represent a class of runs based on the interval sequence. The case multi-threaded system represents the interval of writing events, and according to the unfolding of Petri net, the analysis of the running trace involved by read and write data events is successfully analyzed.

Keywords: Concurrent systems; Mazurkiewicz traces; Interval order; style; Petri net with data

0. Introduction

In concurrent systems, most behavioral semantics are defined according to total order or stratified step order. If the causal relationship is considered, concurrent history is partial order [1–3] or Mazurkiewicz trace[4]. The Mazurkiewicz trace allows an equivalent single sequence, to represent the entire partial order. Traces provide a simple link between the observational and process semantics of concurrency systems. Another trace Comtraces represents the hierarchical sequence structure by a single step sequence, and its related observations can be obtained as a hierarchical or interval extension of the appropriate partial order[5,6]. A sequence of events that contains a causal relationship needs to be represented by a step-by-step sequence, or by a structure using a hierarchical order. An interval order structure is required when modeling the relationship, or when the observation is an interval order. Other relevant observations can be obtained as stratified or interval expansion of appropriate partial order. All observations of causality[7,8] are step sequences, which use stratified order structures. When modeling with the “no later than” relationship or all observations are interval order[9], the interval order structure should be employed to describe the observations.

When studying the behavior patterns of the concurrent system, the read and write data events in the concurrent system are sorted according to the sequence relationship, either in partial orders[10] or in total orders. Because of the concurrency of events[11–13] and the time required to writing events, there will be overlap between events, which requires interval order analysis. For most concurrency models, it is problematic to directly generate

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Specification and Analysis of Concurrent Systems Ryszard Janicki,Peter E. Lauer,2012-12-06 Concurrent systems abound in human experience but their fully adequate conceptualization as yet eludes our most able thinkers The COSY ConcurrentSystem notation and theory was developed in the last decade as one of a number of mathematical approaches for conceptualizing and analyzing concurrent and reactive systems The COSY approach extends the conventional notions of grammar and automaton from formal language and automata theory to collections of synchronized grammars and automata permitting system specification and analysis of true concurrency without reduction to non determinism COSY theory is developed to a great level of detail and constitutes the first uniform and self contained presentation of all results about COSY published in the past as well as including many new results COSY theory is used to analyze a sufficient number of typical problems involving concurrency synchronization and scheduling to allow the reader to apply the techniques presented to similar problems The COSY model is also related to many alternative models of concurrency particularly Petri Nets Communicating Sequential Processes and the Calculus of Communicating Systems *Programming Languages and Systems* Helmut Seidl,2012-03-22 This book constitutes the refereed proceedings of the 21st European Symposium on Programming ESOP 2012 held in Tallinn Estonia as part of ETAPS 2012 in March April 2012 The 28 full papers presented together with one full length invited talk were carefully reviewed and selected from 92 submissions Papers were invited on all aspects of programming language research including programming paradigms and styles methods and tools to write and specify programs and languages methods and tools for reasoning about programs methods and tools for implementation and concurrency and distribution *Proceedings of the 35th Midwest Symposium on Circuits and Systems* George Washington University. Department of Electrical Engineering and Computer Science,IEEE Circuits and Systems Society,IEEE Signal Processing Society,1992 **PROCEEDINGS OF THE 24TH CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2024** Nina Narodytska,Philipp Rümmer,2024-10-01 Die Proceedings zur Konferenz Formal Methods in Computer Aided Design 2024 geben aktuelle Einblicke in ein spannendes Forschungsfeld Zum fünften Mal erscheinen die Beiträge der Konferenzreihe Formal Methods in Computer Aided Design FMCAD als Konferenzband bei TU Wien Academic Press Der aktuelle Band der seit 2006 jährlich veranstalteten Konferenzreihe präsentiert in 35 Beiträgen die neuesten wissenschaftlichen Erkenntnisse aus dem Bereich des computergestützten Entwerfens Die Beiträge behandeln formale Aspekte des computergestützten Systemdesigns einschließlich Verifikation Spezifikation Synthese und Test Die FMCAD Konferenz findet im Oktober 2024 in Prag Tschechische Republik statt Sie gilt als führendes Forum im Bereich des computer aided design und bietet seit ihrer Gründung Forschenden sowohl aus dem akademischen als auch dem industriellen Umfeld die Möglichkeit sich auszutauschen und zu vernetzen **Proceedings of the ACM SIGPLAN--SIGSOFT Workshop on**

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web this rubric is designed to grade a research project using standards based grading 1 4 rubric it is a great tool to quickly grade student work at the end of our adaptations unit each student chooses an animal to research and creates a powerpoint presentation or google slide to demonstrate the knowledge that they learned

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web mar 2 2021 one huge 2nd grade standard is researching and learning about animals and their adaptations students love this unit but teachers can be intimidated by the overwhelming pressure involved in guiding student research at such a young age i love doing this 2nd grade animal research project with my students every march

grassland biome create an animal project teacher made - Sep 19 2022

web students will be guided through a process to create a grassland animal based on facts about the grassland biome and adaptations that are appropriate for this habitat students will also create a common and scientific name based on scientific classification this project includes a rubric for easy assessment