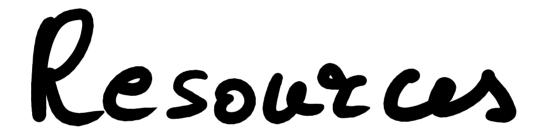


Dagstuhl Seminar 24051 "Next Generation Protocols for Heterogeneous Systems"

29/01/2024

A genda

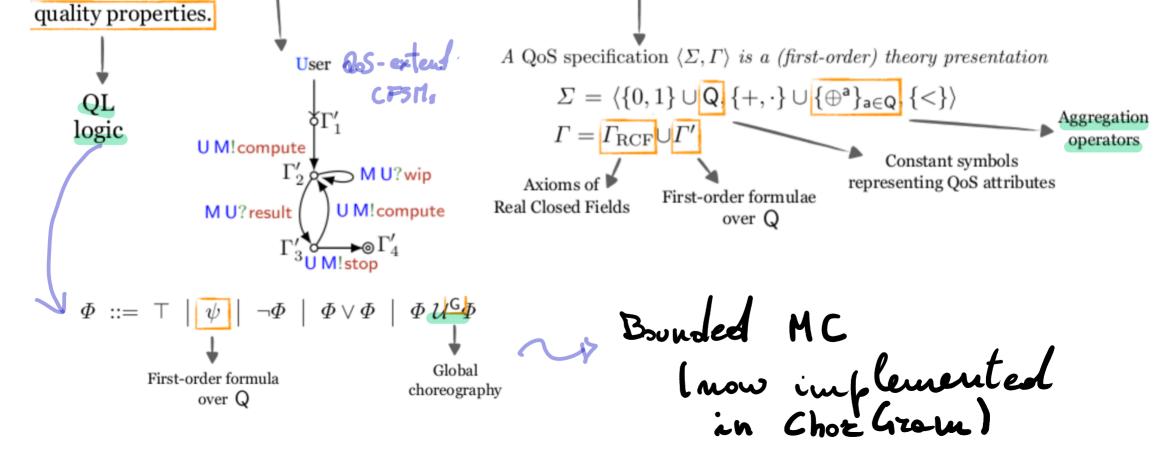


@ (SF21

@ CTAC 23

Lopez Pourlos, Hartimez Suñé, -: À Dynamic Tempozal Logic for QoS in Chozegraphic Kodels

Given a distributed system for which we know the quality of service (QoS) of its components, we want to verify system-wide



Probabilies

@Concur 20

@GNCUR22

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efoll 23



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Kreil, Yi @ CAVOG

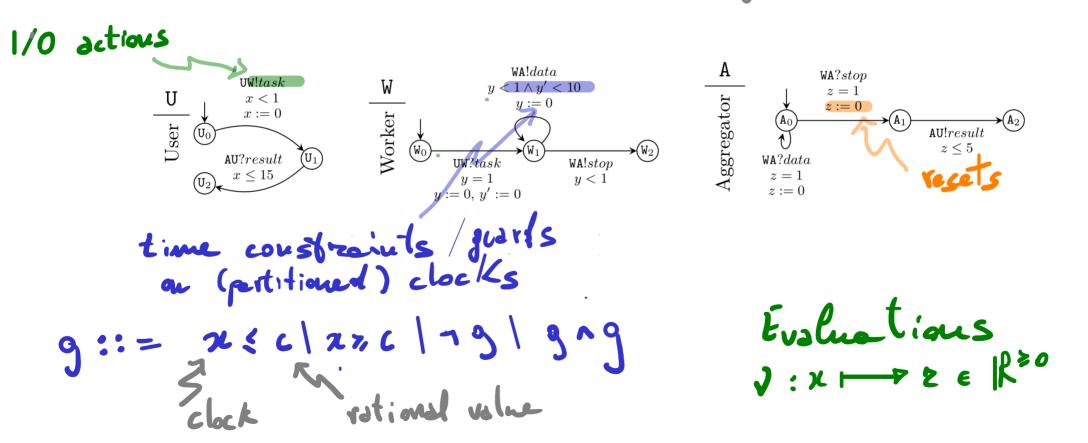
· Communicating Timed Automata

Borchi, Lange, Yoshide C CONCUR 2015

12× 151

Snowod

4:0



@ CONCURIL

@ CONCURIS

.

Bocchi, Lange, Yashida: Heeting Deadlines Topethee
CFSMs/TA ~ CTA
sound membership ducision procedure { sofety to orphan mag.
sound membership ducision procedure { eventual reception
progress ~ sufficient
multiparty competibility
Thm: An M.C. system is sofe
Thm: S M.C.
$$\Rightarrow$$
 S ~ STS(S)
*J*timed bisimilarity

@ OOFSLA 23

Icachi, Chusug, Hu, Ziezek: Valideting lot beview with Pote-based Sts

Grant Iraci, Cheng-En Chuang, Raymond Hu, and Lukasz Ziarek

@Coordination 23

Open Problems (?)

Times	Probabilities	Resources
 (Inter)ection duration CPS challenges asynchronous su typing Relating 	 Relative express. Rates 	 cost analysis for QoS bete dependent QoS
• Tooling •	binery m.P.	· cross cut time/prob./resources

•

Thank Jou

CONCUP 15

Thm: M.C. & Interaction Endladness \Rightarrow Progress 1. a machine in a sending state eventually serols 2. every sent message can be received in the foture ZENO!!!!! & 55tore UP[]]

CONCUR 15

Open problems

- Relative expressiveness e.g. OOPSALAZZ vs ICFF17
 Does relative time make sense?
 More apressive constraints?

- · Shared clocks?

communication duration . not much Toolieg