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# Real Time Systems Lecture Notes Cm Krishna

**real-time systems - computer science and engineering** - hard real-time systems • an overrun in response time leads to potential loss of life and/or big financial damage • many of these systems are considered to be safety critical. • sometimes they are "only" mission critical, with the mission being very expensive. • in general there is a cost function associated with the system. cost ... **real-time operating systems (rtos) 101 - nasa** - real-time operating systems (rtos) 101 real-time system characteristics • a real-time system is a computer system which is required by its specification to adhere to: - functional requirements (behavior) - temporal requirements (timing constraints, deadlines) • specific deterministic timing (temporal) requirements - **real-time systems - university of pennsylvania** - real-time systems fall 2006 real-time scheduling 8 soft temporal constraints • a soft real-time system is one where the response time is normally specified as an average value. this time is normally dictated by the business or market. • a single computation arriving late is not significant to the **real-time systems - university of nebraska-lincoln** - »real-time systems, jane w.s. liu, prentice hall, 2000 real-time systems steve goddard real-time systems admin - 3 principles of real-time systems »mainly real-time scheduling theory »the goal is deterministic behavior (predictability) •this is very different from a general purpose os •systems have both logical and temporal correctness ... **real-time systems - seas.upenn** - what are real-time computer systems? real-time computer system o correct functioning depends on: the values of the results produced. and the physical times at which the results are produced. real-time computer system is embedded in a larger physical system. spring '09 cis 480 4 what are real-time systems? the state of the system evolves with ... **a reference model for real-time systems** - •many real-time systems are required to respond to external events •the jobs resulting from such events are sporadic or aperiodic jobs -a sporadic job has a hard deadlines -an aperiodic job has either a soft deadline or no deadline •the release time for sporadic or aperiodic jobs can be modeled **chapter i: introduction to real-time systems** - 1.1 characteristics of real-time systems the term real-time systems has been used extensively in many applications of computing and control systems. although the term has been well defined in the literature, it is still being misused and misrepresented. we devote the first part of this section to the definitions of terms and the rest **real-time systems: examples / case studies** - real-time systems: examples / case studies • simple control system • sampling periods ... soft real-time systems definition: a real-time system is soft-real-time when jobs have soft deadlines. t u usefulness d non-stringent timing requirements on-line transaction system **real time systems - oakland university** - hard real-time system and soft real-time systems: (1) hard real-time systems - are those where it is absolutely imperative the response occur within the specified deadline. (2) soft real-time systems - are those where response time are important but the system will still function correctly if deadlines are occasionally missed. **real-time systems: examples / case studies** - hard real-time systems "definition: "a real-time system is hard-real-time when a large " "portion "of the deadlines is hard. • examples: - embedded systems - recovery procedures in high-availability systems • does real-time mean fast ? • verification, certification: why not use commercial oss? **real-time payments are changing the reality of payments** - real-time payments are changing the reality of payments 5 real-time payments go global faster and near real-time payments are catching on across the globe in places like mexico, the uk, sweden, india and singapore.4 technology, high speed data networks and consumer behavior are among some of the factors fueling

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