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This article looks at real-time embedded systems including classifications,

constraints, and design patterns. Real-Time

Classifications. A real-time system can be

classified based on the acceptability of missing its timing...

Timing Constraints. Every real-time system has a set of

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A real-time computer system may be a component of a larger system in which it is embedded; reasonably, such a computer component is called an embedded system.

Applications and examples of real-time systems are ubiquitous

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Time Systems
and proliferating,
appearing as part of our
commercial,
government, military,
medical, educational,
and cultural
infrastructures.

What Are Real-Time
Embedded Systems
Real-time computing, or
reactive computing is
the computer science
term for hardware and

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software systems subject to a "real-time constraint", for example from event to system response. Real-time programs must guarantee response within specified time constraints, often referred to as "deadlines". Real-time responses are often understood to be in the order of milliseconds,

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and sometimes
microseconds. A system
not specified as
operating in real time
cannot usually
guarantee a response
within any t

Real-time computing -
Wikipedia

To provide an
understanding of the
essentials of the C
programming language.

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To give you practical experience of writing C for real-time and embedded systems. To demonstrate the traps and pitfalls of the language when used in a real-time system. To give you the confidence to apply these new concepts to your next real-time project.

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applications of the
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systems are woven into
almost every aspect
discussed which of
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The embedded software industry is in the midst of a major revolution.

Tremendous amount of new development lies ahead. This new software needs an actual architecture that is safer, more extensible, and

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to perform in real time— if the data is not ready by a certain deadline, the system breaks. In some cases, failure to meet a deadline is unsafe and can even endanger lives.

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POSIX programming for real-time systems are covered, as are finite state machines and

Time Petri nets. Of special interest to software engineers will be the chapter devoted to model checking, in which the author discusses temporal logic and the NuSMV model checking tool, as well as a chapter tr...

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systems are woven into
almost every aspect

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