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Hard real-time execution environment extension for FreeRTOS

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Author(s)

Stangaciu, C.S. ; Comput. & Software Eng. Dept., Univ. of Timisoara, Timisoara, Romania ; Micea, M.V. ; Cretu, V.I.

Abstract

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In this paper, a hard real-time execution environment extension is proposed for an open source real-time operating system, FreeRTOS, in order to support a special case of hard real-time tasks, called ModXs. The goal is to obtain a real-time system which has both the capabilities offered by a dynamic, preemptive, priority based scheduling and execution environment and the determinism and predictability of a hard real time execution environment. This paper also presents an implementation of the system which was tested and validated on a hardware platform EFM32-G8900-STK.

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