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Predictable Signal Generation with the Hard Real-Time Operating Kernel HARETICK

[Micea, M.V.](#), [Cretu, V.](#), [Groza, V.](#)
Dept. of Comput. Sci. & Eng., "Politehnica" Univ. of Timisoara
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Abstract

This paper addresses the problem of predictability of critical digital signal acquisition and processing applications while interacting with signals. The real-time compact operating kernel, HARETICK, is briefly presented along with the model of hard realtime tasks, the ModX. The work focuses on the specification, analysis, scheduling and implementation of applications able to generate perfectly periodic signals on HARETICK-based platforms. Experimental results are also discussed

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