

Schedulability test for a jobset using Deadline Monotonic algorithm

Youri Klaassens^a, Nick van Endhoven^b

^astudent Computer Engineering Rotterdam University of Applied Science, 0996211@br.nl, Zwaag

^bstudent Computer Engineering Rotterdam University of Applied Science, 1234567@br.nl, Breda

INTRODUCTION

For the Real-Time Operating System (ROS01) course taught at Rotterdam University of Applied Science the authors have to prove they understand the theory of RTOS scheduling and can analyse a jobset for a real time system. After the analysis of the jobset the authors should conclude if the jobset is schedulable according to the Deadline Monotonic algorithm.

The schedulability tests assume that the jobset will be executed on a uniprocessor system where tasks are preemptable. It also assumes that there is no context-switching time. It also assumes that the execution of the scheduler does not require the processor, that is, the scheduler runs on another specialized processor.

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REFERENCES

1. Marquez, V., Frohlich, T., Armache, J. P., Sohmen, D., Donhofer, A., Mikolajka, A., Berninghausen, O., Thomm, M., Beckmann, R., Arnold, G. J., and Wilson, D. N. (2011) Proteomic characterization of archaeal ribosomes reveals the presence of novel archaeal-specific ribosomal proteins, *J Mol Biol* 405, 1215–1232. <https://doi.org/10.33697/ajur.2019.003>
2. Fierke, C. A., and Hammes, G. G. (1996) Transient Kinetic Approaches to Enzyme Mechanisms, in *Contemporary Enzyme Kinetics and Mechanism* (Purich, D., Ed.) 2nd ed., 1–35, Academic Press, New York.
3. Agricultural Research Service, U.S.D.A. National Nutrient Database for Standard Reference, Release 26, <http://ndb.nal.usda.gov/ndb/search/list> (accessed Mar 2014)

ABOUT THE STUDENT AUTHOR

Youri Klaassens is a final year bachelor student at Inholland University of Applied Science studying Computer Engineering.

Nick van Endhoven is a final year bachelor student at Avans University of Applied Science studying Computer Engineering.

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