

Fixed Priorities or EDF for Distributed Real-Time Systems?

Juan M. Rivas, J. Javier Gutiérrez and Michael González Harbour Computers and Real-Time Group, Universidad de Cantabria, 39005-Santander, SPAIN {rivasjm, gutierjj, mgh}@unican.es



MAST home page: http://mast.unican.es/

- G. Buttazzo, "Rate Monotonic vs. EDF: Judgment Day," Real-Time Systems, 29(1), pp. 5-26, 2005.
 M. González Harbour, J. Javier Gutiérrez, J.C. Palencia, and J.M. Drake, "MAST:
- Modeling and Analysis Suite for Real Time Applications," Proceedings of 13th Euromicro Conference on Real-Time Systems, Delft (The Netherlands), pp. 125-134, 2001
- M. González Harbour, J. Javier Gutiérrez, José M. Drake, P. López Martínez and J. C. Palencia, "Modeling distributed real-time systems with MAST 2," In press, Journal of Systems Architecture, Elsevier, 2012.
 J. Liu, "Real-Time Systems," Prentice Hall, 2000.

- Object Management Group, "UML Profile for MARTE: Modeling and Analysis of Real-Time Embedded systems," 2009 OMG Document, v1.0 formal/2009-11-02. J.C. Palencia, and M. González Harbour, "Exploiting Precedence Relations in the Schedulability Analysis of Distributed Real-Time Systems". Proceedings of the 20th [7]
- Schedulability Analysis of Distributed Real-Time Systems. Proceedings of the 20th Real-Time Systems Symposium, IEEE, pp. 328-339, 1999. J.C. Palencia, and M. González Harbour, "Offset-Based Response Time Analysis of Distributed Systems Scheduled under EDF," Proceedings of the 15th Euromicro Conference on Real-Time Systems, ECRTS, Porto (Portugal), 2003. Juan M. Rivas, J. J. Gutiérrez, J. C. Palencia, and M. González Harbour, "Optimized Deadline Assignment and Schedulability Analysis for Distributed Real-Time [8]
- Systems with Local EDF Scheduling". 8th International Conference on Embedded Systems and Applications, in WORLDCOMP'10, Las Vegas (Nevada), USA, 2010. Juan M. Rivas, J. Javier Gutiérrez, J. Carlos Palencia, M. González Harbour, "Schedulability Analysis and Optimization of Heterogeneous EDF and FP "Schedulability Analysis and Optimization of Heterogeneous EDF and FP Distributed Real-Time Systems," Proceedings of the 23th Euromicro Conference on Real-Time Systems, Porto (Portugal), 2011.
 [10] M. Spuri, "Holistic Analysis for Deadline Scheduled Real-Time Distributed Systems," Tech. Rep. Re-2873, INRIA, France, April 1996.
 [11] K. Tindell, and J. Clark, "Holistic Schedulability Analysis for Distributed Hard Real-Time Systems," Microprocessing & Microprogramming, Vol. 40, Nos.2-3, pp. 117-134, 1994.

[9]