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ID	Paper data
1121	<p>"On Real-Time STM Concurrency Control for Embedded Software with Improved Schedulability"</p> <p>Mohammed Elshambakey, Binoy Ravindran (ECE Dept, Virginia Tech, U.S.A.)</p> <p>[Topic1] 4. Embedded and Real-Time Systems</p> <p>[Keywords]</p> <p>stm, real time, contention manager</p> <p>[Abstract]</p> <p>We consider software transactional memory (STM) concurrency control for embedded multicore real-time software, and present a novel contention manager for resolving transactional conflicts, called PNF. We upper bound transactional retries and task response times. Our implementation in RSTM/real-time Linux reveals that PNF yields shorter or comparable retry costs than competitors.</p> <p>[Corresponding Author]</p> <p>Mohammed Elshambakey (ECE Dept, Virginia Tech) Email:shambake@vt.edu</p> <p>Postal code: 24060</p> <p>Address: Blacksburg, VA, USA</p> <p>TEL:+15404491097, FAX:</p> <p>[Uploaded file]</p> <p>File Name: dac_asp_13.pdf</p> <p>File Size(bytes): 131246</p> <p>Checksum(MD5): ae635f0dbb261e0d06cf1d60e79d0653</p> <p>Pages: 6</p> <p>Download the paper file (ASP-DAC 2013-1121-1.pdf)</p>

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