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1121	"On Real-Time STM Concurrency Control for Embedded Software with Improved Schedulability" Mohammed Elshambakey, Binoy Ravindran (ECE Dept, Virginia Tech, U.S.A.) [Topic1] 4. Embedded and Real-Time Systems [Keywords] stm, real time, contention manager [Abstract] 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. [Corresponding Author] Mohammed Elshambakey (ECE Dept, Virginia Tech) Email:shambake@vt.edu Postal code: 24060 Address: Blacksburg, VA, USA TEL:+15404491097, FAX: [Uploaded file] File Name: dac_asp_13.pdf File Size(bytes): 131176 Checksum(MD5): bd099b6291b80e5e8d6ab4253e7bb9df Pages: 6 Download the paper file (ASP-DAC 2013-1121-2.pdf)

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