



Robotics Research Technical Report: Changes in Nrtx (Classic Reprint)

By Lou Salkind

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Robotics Research Technical Report: Changes in Nrtx NRTX is a multi-tasking, real-time operating system developed at ATT Bel) Laboratories for use with Motorola 68000 based systems. Typically, NRTX application programs are written in the C language on a standard UNIX timesharing system, cross-compiled, and then downloaded onto the target NRTX system. The NRTX system call interface is similar to that provided by a UNIX Version 7 system, with various modifications and additions for real time applications. It is further described in [1]. We decided to use the NRTX system for the development of a force-position controller for the PUMA 560 Robot arm. NRTX seemed like the natural choice for the operating system of the controller, since it supported a powerful microprocessor, it had a familiar development environment, and it was already successfully being used in a related lab project, the force control system of a Planar Four Finger Manipulator [2]. Unfortunately, the NRTX system as originally provided could not reliably support the PUMA force control applications. The system could not meet hard real-time constraints, and...



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