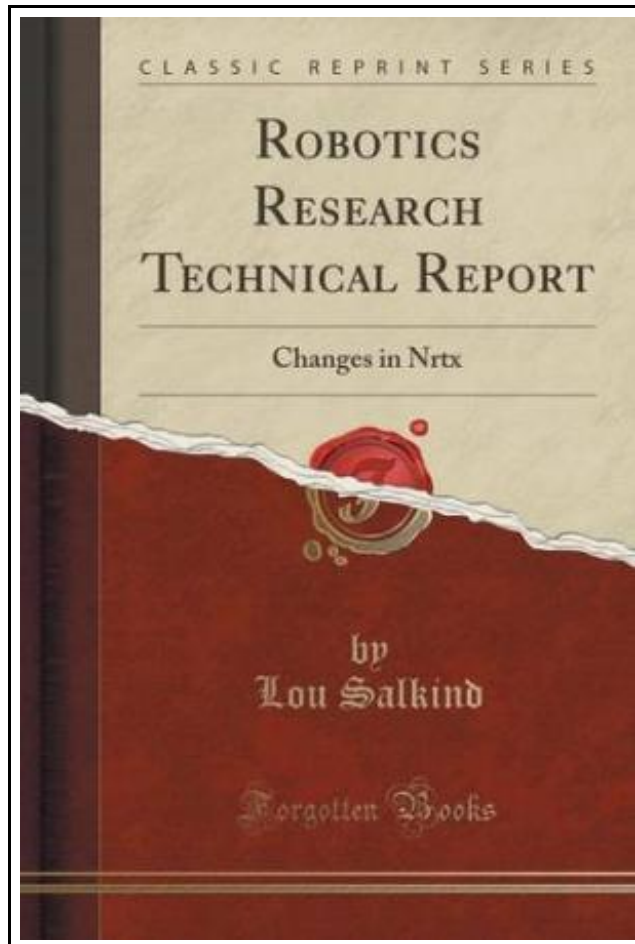# Robotics Research Technical Report: Changes in Nrtx (Classic Reprint) (Paperback)

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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 limitations in the operating system made sophisticated applications difficult to program. It soon became clear that the operating system would have to be modified if more sophisticated applications were to be successfully run. During the last year, the NRTX system has been overhauled in an attempt to overcome the system s key limitations. This paper discusses the changes that have been made to the NRTX system to support the PUMA control system. The changes can roughly be grouped into two major categories: changes to the operating system kernel, and changes to the program support libraries and utilities. About the Publisher...

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