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Arthur R. Miller

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Sunil P. Joshi
A new standard provides a high-performance LAN solution for the quick transfer of large amounts of data.

15 The MC68824 Token Bus Controller: VLSI for the Factory LAN
Rhonda Alexis Dirvin and Arthur R. Miller
This device has been designed to provide IEEE 802.4 media access control in factory networks employing the GM MAP protocol.

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Paolo Corsini and Cosimo Antonio Prete
Intended for designers of kernels for distributed multinode systems, this debugger enables them to work in a Unix environment and to interact with the target nodes via a console.

34 A Programmable Debugging Aid for Real-Time Software Development
Beatrice Lazzerini, Cosimo Antonio Prete, and Lanfranco Lopriore
This specialized hardware assists program debugging and testing and program performance evaluation. It is installed like any other peripheral device.

43 An Intelligent Braille Display Device
Clifford P. Grossner, Thiruvengadam Radhakrishnan, and Alex Schena
The high cost of braille output devices has prevented their wide use among the visually handicapped. Here, a much cheaper device is implemented.

52 Mathematical Software in Basic: RV, Generation of Uniform and Normal Random Variables
David K. Kahaner, Jeffrey Hortick, and Debra K. Foer
Two algorithmic generators available on PC-compatible disk have successfully been moved to other computers.

61 A Cordic Processor for Laser Trimming
T. W. Curtis, Paul Allison, and James A. Howard
A coordinate rotation algorithm can be used to correct the position of a microcircuit on a laser trimming platform. A software implementation of the algorithm was too slow, however. Special-purpose hardware solved the problem.

MICROSTANDARDS SPECIAL FEATURE

72 P1296: The Interprocessor Communication Standard
Michael D. Rap and R. Scott Tetrack
Intermodule communication is integrated into the main system bus in this proposed message passing standard.