An Overview of the Nyu Ultracomputer Project (Classic Reprint) (Paperback)

By Allan Gottlieb

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from An Overview of the Nyu Ultracomputer Project The Nyu Ultracomputer is a shared memory MIMD parallel computer design to contain thousands of processors connected by an Omega network to a like number of memory modules. A new coordination primitive fetch-and-add is defined and the network is enhanced to combine simultaneous requests, including fetch-andadds, directed at the same memory location. The present report, an edited amalgam of papers I have coauthored with other members of the Ultracomputer project, discusses our work on architecture, programming models, system software, hardware and Vlsi design, performance analysis, and simulation studies. 1. Introduction Since its inception in 1979, the Nyu Ultracomputer project has studied the problem of how the fruits of the ongoing microelectronic revolution could be best used to solve problems having computational demands so vast as to make them inaccessible using current technology. Like others, we have always believed that parallelism provides the key new ingredient. With the promise that in 1990 10-20Mips (including floating point instructions) and several megabytes of memory would be available on a handful of...

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