

The Illiac IV was the first large scale array computer. As the fore-runner of today's advanced computers, it brought whole classes of scientific computations into the realm of practicality. Conceived initially as a grand experiment in computer science, the revolutionary architecture incorporated both a high level of parallelism and pipelining. After a difficult gestation, the Illiac IV became operational in November 1952. It has for a decade been a substantial driving force behind the development of computer technology. Today the Illiac IV continues to service large-scale scientific application areas including computational fluid dynamics, seismic stress wave propagation modeling, climate simulation, digital image processing, astrophysics, numerical analysis, spectroscopy and other diverse areas. This volume brings together previously published material, adapted in an effort to provide the reader with a perspective on the strengths and weaknesses of the Illiac IV and the impact this unique computational resource has had on the development of technology. The history and current status of the Illiac system, the design and architecture of the hardware, the programming languages, and a considerable sampling of applications are all covered at some length. A final section is devoted to commentary.

Nutrition: An Applied Approach with 2010 Dietary Guidelines, DRIs and MyPlate Update Study Card and MyDietAnalysis 5.0 Student Access Code Card Package (3rd Edition), Love-Makers: A Dazzling Dynasty of Women in a Novel of Wealth, Power and Passion, 365 Days from Genesis Through Revelation, Illusions, Manuel du parfait petit triathlète: A destination du sportif et de son entourage (French Edition), A Lancaster Amish Storm Collection (Amish Identity) (Volume 1),

The Illiac IV: The First Supercomputer [R.M. Hord] on browsr.com *FREE* shipping on qualifying offers.

Abstract The structure of ILLIAC IV, a parallel-array computer containing . Proceedings of the First USENIX conference on Hot topics in parallelism, p 1-10. Authors - Cited By. The Illiac IV, the First Supercomputer. Front Cover. R. Michael Hord. Computer Science Press, - Illiac (Ordinateur) - pages. The ILLIAC IV, one of the first supercomputers ever built, was shut down on September 7, after almost a decade of service. ILLIAC (Illinois. Written on the yellow post it note is ILIAC [sic] IV (60s) . Parallel Processing appeared in the huge ILLIAC IV, the first computer to abandon the classic. Abstract: Abstract "The structure of ILLIAC IV, a parallel-array computer containing processing elements, is described. Special features include multiarray. The ILLIAC IV was one of the first attempts to build a massively parallel computer. One of a series of research machines (the ILLIACs from the University of. Illiac IV History. ? First massively parallel computer. 0 SIMD (duplicate the PE, not the CU). 0 First large system with semiconductor-based primary memory.

Summary The structure of ILLIAC IV, a parallel-array computer containing processing The Illiac IV array will be discussed first, in a general manner. The first large parallel processing computer, ILLIAC IV, ends its nearly decade-long life at the University of Illinois. In , the Department of.

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