

The 256-Processor X-Class Exemplar: A First Year's Experience.

Abstract:

The Jet Propulsion Laboratory and the California Institute of Technology jointly acquired a 256-processor X-class Exemplar in 1997. The system has been used by over 300 users for numerous applications in science and engineering. This paper will first describe the setup and organization of the system (including disk storage, libraries, memory allocations, network connections, queue structures, subcomplexes, and the tape storage system). Then it will cover unique features of the system and our solutions to problems encountered. Finally, it will give examples of some of the applications that have been run to date.