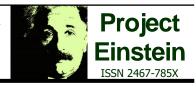


Project Einstein: Abstracts and Paper Presentation

Journal homepage: http://www.projecteinstein.cf http://www.dlsu.edu.ph/conferences/project-einstein



Abstracting the Integration between Linux and a Quantum Computer: The Case of Linux 1.1.68 with a Layered Generic Quantum Computer

Bernard Andrei L. Pollo of De La Salle University Manila, Philippines

Abstract

The abstracted architecture of an imaginary layered quantum computer was considered for integration with the Silicon-based components of a usual i386 machine through interaction with Linux version 1.1.68. The architecture-specific files of Linux ports for i386 and MIPS were observed and compared. Boot code was initially used as a point of integration for the quantum processing unit. Later on, the quantum processor was considered for integration as a special purpose unit. Results indicate that a possible key to integrating a quantum machine with Linux is the leverage of existing Silicon logic.

Keywords

Linux, quantum computer, i386, MIPS, computer architecture, operating system