

Life Without Threads and Quantum Entanglement

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Abstract

The availability of commodity multicore processors has created a pressing need for programming models that enable the efficient use of multiple processors. Multiple threads of execution, sharing a common address space, are commonly used to efficiently utilize multiple processors. This talk explores a more restricted model of memory sharing based on Linux shared libraries and standard Linux processes, resulting in simpler and more reliable programming. The results shows surprising parallels to the “spooky” nature of quantum entanglement. Little known aspects of Linux shared libraries are elucidated and insights into more refined models of shared memory are provided.