

1. An Analysis of Linux Scalability to Many Cores

(1) This paper attempt analyzing scaling a number of system applications on Linux running with a 48-core system and introduce sloppy counter. The researchers found that they can remove most kernel bottlenecks that the applications stress by modifying the applications or kernel slightly. And they introduce MOSBENCH application.

(2)

(+): They analysis scalability

(3) Why Exim application have good performance?

2. The Scalable Commutativity Rule: Designing Scalable Software for Multicore Processors

(1) This paper introduces the rules for scalable software. COMMUTER can evaluate the scalability of an implementation. So, the researchers use COMMUTER in the system call API and analyze the result. As a result of the analysis, COMMUTER finds many problems that limit the scalability of the application.