-Week 9-

2019710305
이호영

1. An Analysis of Linux Scalability to Many Cores

This paper analyzes the scalability of applications such as Exim, memcached, and Apache on Linux on many core system. Experimental results show that all but gmake generate scalability bottlenecks. Accordingly, the paper reduces the application's scalability bottleneck through an approach called sloppy counter. However, I think that this scheme is practically difficult to deploy because it requires changes in the code of the application and the kernel.

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

Existing method to identify scalability bottleneck often new bottleneck for reasons other than scalability. So, This scheme proposes new tool to estimate scalability of application, named COMMUTER. Whenever operations for interface comute, that operations can be implemented in a way that scales on COMMUTER scheme. COMMUTER provides developers with scalability for interface operations to help developers build more scalable applications. However, I think that COMMUTER does not capture the various scalability that can occur in the file systems.