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Kernel Recipes 2015 : Solving the Linux storage scalability bottlenecks

- 6- Webographie -

Date de mise en ligne : dimanche 4 octobre 2015

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Flash devices introduced a sudden shift in the performance profile of direct attached storage. With IOPS rates orders of magnitude higher than rotating storage, it became clear that Linux needed a re-design of its storage stack to properly support and get the most out of these new devices. This talk will detail the architecture of blk-mq, the redesign of the core of the Linux storage stack, and the later set of changes made to adapt the SCSI stack to this new queuing model. Early results of running Facebook infrastructure production workloads on top of the new stack will also be shared. Jense Axboe, Facebook