BROWN UNIVERSITY

The CS Department Undergraduate Group

DISTINGUISHED LECTURES

Matt Dillon
FreeBSD Developer

Thursday, November 21, 2002 at 4:00 PM
CIT 165

"Lecture 1: A New Architecture for Large Distributed Databases"

Abstract

As the need for larger and more robust databases grows, a new set of problems arise. I will discuss my own research in the development of a new distributed database architecture. I will focus on replication and transactional coherency in large distributed databases. I will also talk about commit methods, asynchronous updates (queuing with conflict resolution after the fact), robustness and coherency.

Friday, November 22, 2002 at 3:00 PM
CIT 165

"Lecture 2: Current Methods in Virtual Memory"

Abstract

The virtual memory sub-system is one of the most important factors in the stability and performance of modern computing systems. I will discuss modern designs and techniques used in virtual memory systems, focusing on the FreeBSD VM system architecture. This includes the selection of pages for reuse and the various operational cases with which every VM system must deal.

Matt Dillon is a distinguished member of the FreeBSD development team, and was a founding member of the successful startup company BEST Internet. Matt has been interviewed by kerneltrap.org and osnews.com for his systems work.

The Computer Science Department is located at 115 Waterman Street

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