

Joseph Koshy on FreeBSD

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ACM Tech Talk Abstract

PmcTools in FreeBSD is an innovative measurement platform that uses in-CPU hardware event counters for characterizing system behaviour. PmcTools' low-overheads, useful features and its ability to collect data under production loads have helped it become an integral part of the performance analyst's toolkit in FreeBSD.

This talk introduces PmcTools. We start with a high-level overview of the goals of the project, and go on to cover the architecture of the PmcTools platform, its programming API and a few interesting aspects of its implementation. The changes to the base FreeBSD kernel needed for PmcTools are touched upon. The talk concludes with a discussion on the possible future directions of the project.

About the Speaker

Joseph Koshy has been a user of FreeBSD since 1994 and a volunteer developer of this operating system since 1998.

He is the author of FreeBSD's "PmcTools" performance analysis toolset.

Joseph is mentor to two FreeBSD committers and lives in Chittoor district, Andhra Pradesh, India.

The venue is

Honeywell

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