



**Workshop:  
HPC Meets Dtrace: A Getting Started Tutorial for Dtrace Newbies**

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**June 17, 2009  
Queen's University, Kingston**

In case of performance bottlenecks, either on a system or on an application basis, many developers, researchers and system administrators think primarily about CPU cycles, caches or compiler flags. Influences caused by the operating system or interaction between the applications running at the same time are neglected far too often in real world scenarios.

This perspective is mainly caused by the lack of easy-to-use tools that dynamically cover applications as well user- and kernel-space and which can safely be applied in an production environment.

With the introduction of DTrace in Solaris 10 most of those wishes became true.

The tutorial is targeting DTrace newbies from the development as well as from the system administration side. Attendees will learn how Dtrace works and how easy helpful information from an application or the Solaris kernel can be retrieved. Numerous examples cover a broad range from IO behaviour to in-depth thread scheduling in OpenMP applications. Several live demos will help to understand common pitfalls and best practices.