Abstract

The shift to multi-core processors is having a dramatic effect on the way we design systems and the software that runs on them. It is true that the vast majority of software is not multi-threaded and thus does not take full advantage of the new platform. It is also true that there is a gap in software development skills, techniques, and tools to exploit the multicore platform. So what's there to talk about? The short-term focus is on using virtualization to get the most out of the platform. Up to now this has meant workload consolidation, especially for development and QA. Some but not all workloads have been candidates. 2009 appears to the year this changes. Technologies like Nehalem/QuickPath, Montreal/HT3, PCI Express gen2 (x8/x16), SR-IOV/Multi-Queue NICs, and SSD/Flash will show-up in the scale-out server market next year. This talk will focus on how these will be combined and the impact the resultant platform will have on computational finance.

Biography

Dave's career spans over 25 years. He has spent the past several years working in the Financial Services industry, most recently at Goldman Sachs where he is a senior Storage Strategist. He comes to the Firm from Merrill Lynch where he worked on a variety low latency and utility computing problems.