



پژوهشگاه دانشهای بنیادی
پژوهشکده علوم کامپیوتر

سخنرانی علمی

Memory-Centric Server Architecture

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Abstract

Large-scale IT services are now increasingly run in memory due to tight application latency demands. With services centered mostly around data, datacenter owners often integrate as much DRAM into a single blade as technology allows, and use low-latency high-bandwidth network fabrics to aggregate near-neighbor DRAM into large memory pools. DRAM accounts for a substantial fraction of overall server capital and operation costs, and as such designers are increasingly customizing server hardware, software and infrastructure for online services around memory. In this talk, I will first motivate specialized server design for in-memory computing and then present promising avenues to explore specialization to improve server design.



Short Bio: Babak is Professor in the School of Computer and Communication Sciences and the founding director of the EcoCloud research center at EPFL. He has worked on server architecture for quite some time and has had contributions to a few industrial platforms including the WildFire/WildCat family of multiprocessors by Sun Microsystems (now Oracle), memory system technologies for IBM BlueGene/P and Q, and server evaluation methodologies in use by AMD, HP and Google (PerfKit). His recent work on scale-out server processor design lay the foundation for Cavium ThunderX. He is a fellow of ACM and IEEE.

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