

Bi-weekly Seminar

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UWM EMS 715

The Evolution of Computer Systems 1990-2020 Based Primarily on IBM Power Systems

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Abstract:

The big data explosion in recent years has been changing the world in many ways. One of the major driving forces of this outburst is due to the rapid development of computing hardware to support big data analytics and machine learning. The evolution of computer systems is driven by two main factors, e.g. technologies and applications. This presentation describes how and why the computer systems evolve from a single core system in 1990, multiple core system in 1993, 64 bit system in 1997, NUMA system in 2001, hyperthread system in 2004, virtualized systems in 2010, MPP system in 2015. The discussion is primarily based on IBM Power System. Intel, Sun Micro and HP systems are also briefly covered.