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Polystore Systems and BigDAWG

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Place: Springboard Executive
Conference 205

Abstract:

Modern decision support systems are required to integrate and synthesize a rapidly expanding collection of real-time data feeds: sensor, analysts' reports, social media, chat, documents, manifests, logistical data, and system logs (to name just a few). Custom databases for sensors, graphs, documents, and transactions (just to name a few) provide 100x better performance than general purpose databases. The performance benefits of custom databases have resulted in proliferation of data specific databases and most modern decision support systems contain five or more distinct data storage systems. This diversity of storage has resulted in paradigm shift to the "polystore" database era. In this presentation, I will discuss polystore database, our reference implementation, BigDAWG, and its application to medical and scientific problems.

*The LAS is charged with developing the science of analysis and analytic methodologies.
This simultaneous study of tradecraft and technology serves as the foundation
upon which all LAS efforts are positioned.*