Abstract: Data stream processing systems (DSPS) have attracted significant interest in recent years due to their applicability in monitoring applications requiring the use of continuous queries. In the past, DSPS have offered limited support for data persistence, for two main reasons: First, early DSPS applications focused on the processing of live rather than stored streams, a trend that is currently shifting towards putting equal weight on both cases; second, scalable persistence solutions, which are required by modern scalable DSPS, have not been thoroughly studied on write-intensive DSPS-type workloads.

The work I will describe in this talk advances the state of the art by providing DSPS with a scalable path to persistent storage. This path has low impact on the performance properties of DSPS and allows two fundamental enhancements to their capabilities: First, it allows stream persistence that scales with the number of persisted streams in both capacity and performance; second, fault tolerance is achievable by checkpointing and stream replay schemes that are not constrained by limitations of direct-attached storage systems.

Σύντομο Βιογραφικό

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