Platform-Agnostic Execution Framework Towards RDF Stream Processing

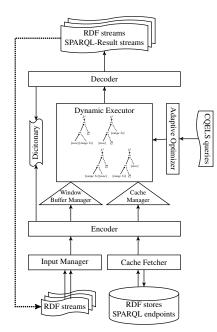
Danh Le-Phuoc <u>Minh Dao-Tran</u> Chan Le Van Anh Le Tuan Manh Nguyen Duc Tuan Tran Nhat Manfred Hauswirth

RDF Stream Processing Workshop

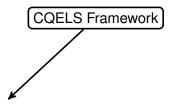
May 31, 2015



Overview of CQELS Framework

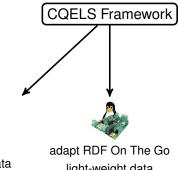


CQELS Framework





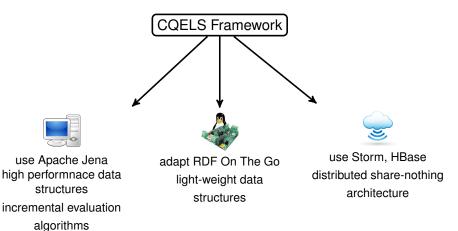
use Apache Jena high performnace data structures incremental evaluation algorithms





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light-weight data structures





Add new features:

- Complex Event Processing
- Rule-based, temporal, spatial, RDFS reasoning

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- Complex Event Processing
- Rule-based, temporal, spatial, RDFS reasoning
- Build smaller CQELS on tiny micro controllers, sensor boards
- Adapt to the standardized query syntax and data model from the RSP working group