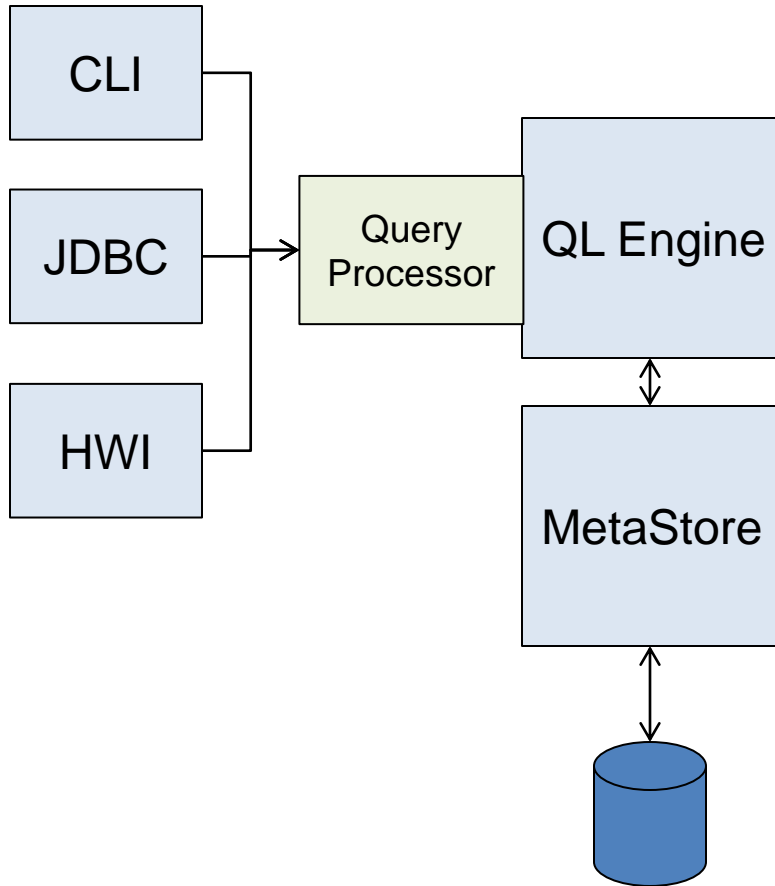


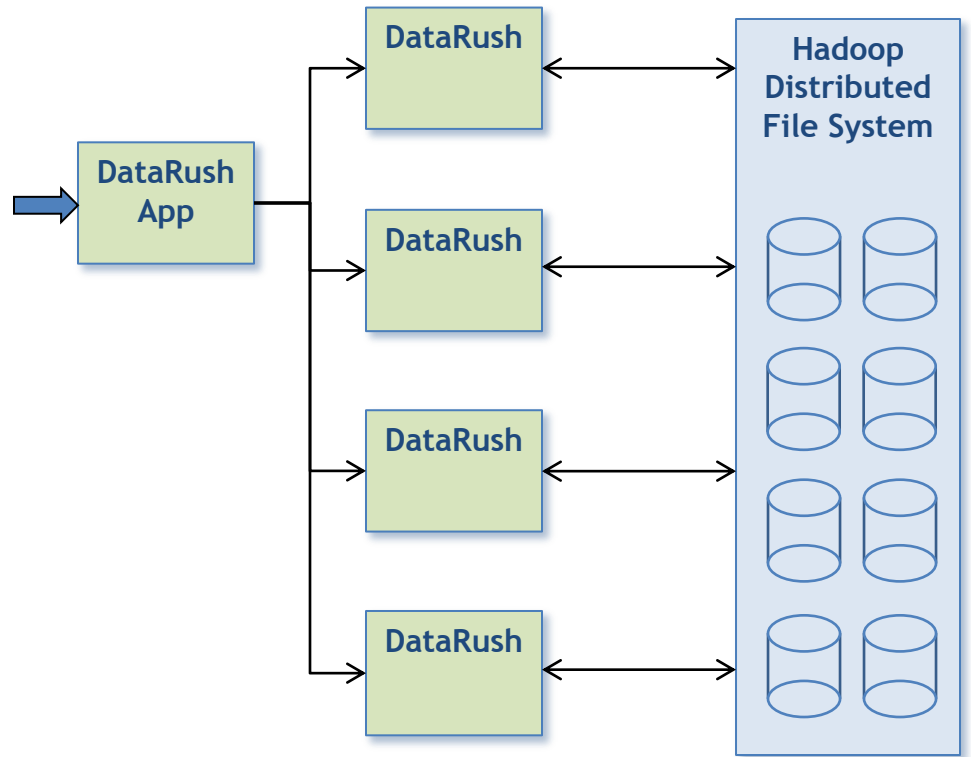
TurboRush for Hive

- Hadoop delivers data scalability
- Hive delivers ease of use
- TurboRush for Hive delivers a performance boost
 - No learning curve – drop in
 - Preserve HiveQL investment
 - Increase workload capacity
 - Utilizing data already in HDFS

Hive Instance (0.7.1)



Distributed DataRush



Features

- Invoking DataRush engine in single-node or distributed mode
- Delimited text and RC input/output formats
- Hive built-in functions
- User defined functions and aggregation functions
- Joins and aggregations
- Full insert support
- Modular design
 - Implements AST, semantic analysis, optimizations and execution plan
 - Pluggable into other frameworks

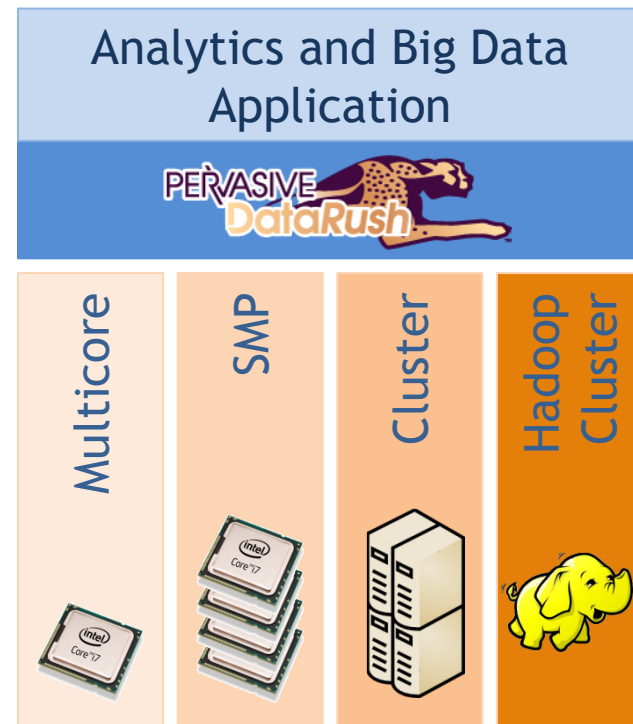
Exclusions

- Transforms - MapReduce scripts
- Arrays and structures
- Lateral Views
- HBase, Sequence and other formats

Pervasive DataRush™ V5

... a patented, parallel dataflow platform that eliminates performance bottlenecks in your data-intensive applications

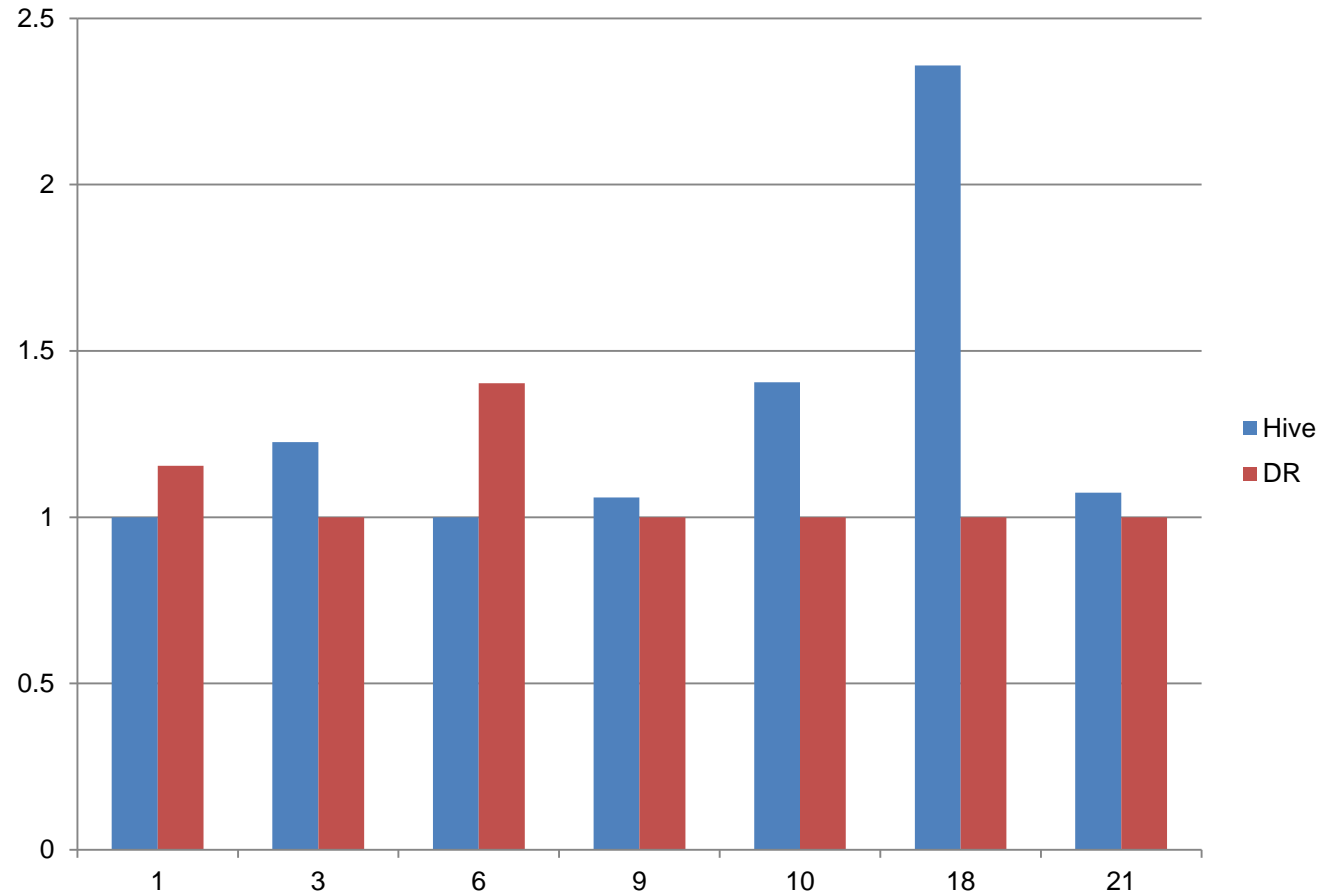
- **Scalable:** Performance dynamically scales with increased core counts and increased nodes.
- **High Throughput:** Fast, deep analysis of large data sets with no limit on input data size.
- **Cost Efficient:** Maximum performance from commodity multicore servers, SMP systems and clusters.
- **Easy to Implement:** No complex parallel processing issues; visual and API level interfaces.
- **Extensible:** Extensible platform so you remain in control of development.



DataRush Apps Scale Up and Out

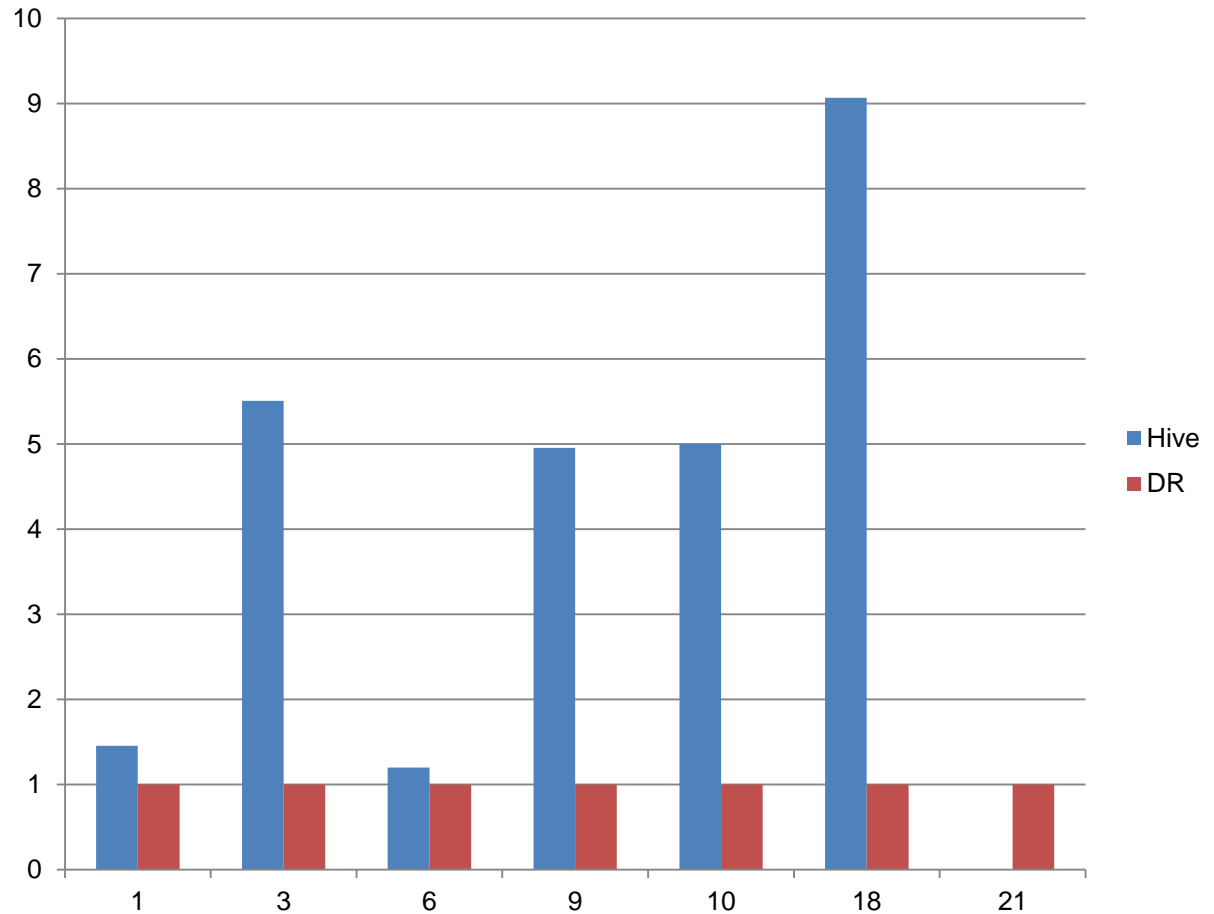
TPC-H Based Benchmark

- TPC-H 1000x
- 1 TB data size
- 5 EC2 HPC nodes
 - 24 GB mem
 - 1.6 TB disk
 - 16 cores



TPC-H Based Benchmark

- TPC-H 100x
- 100 GB data size
- 2 node cluster
 - 128 GB mem
 - 96 TB disk
 - 48 cores



Current State

- Early Beta Program
 - Seeking early adopters
- Logical Plan Work
 - Being used as basis for next generation DataRush
 - Composition model allows building distributed applications easily
 - Integrated GUI for drag-n-drop workflow development

Next Steps

- Integrate with Next-Gen MapReduce
- Allows integrating dataflow as a first class citizen within a Hadoop-based cluster

