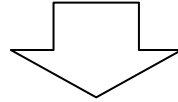


User Queries



MonetDB SQL Parser



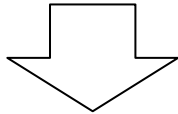
Relational Algebra

MonetDB Logical Plan Optimizer

WideTable Query Rewriting

Pushselect

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MAL instructions

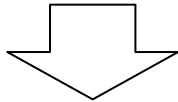
MonetDB MAL Optimizers Framework

Deadcode

GarbageCollector

Fast-MCS

.....



MAL instructions

MonetDB Execution Engine (aka. Goblin Database Kernel)

Grouping

Aggregation-Sum

Aggregation-Count

.....

Code-Massage

SIMD-Sort

ByteSlice-Scan

ByteSlice-Lookup

ByteSlice Storage Manager