

DBMS



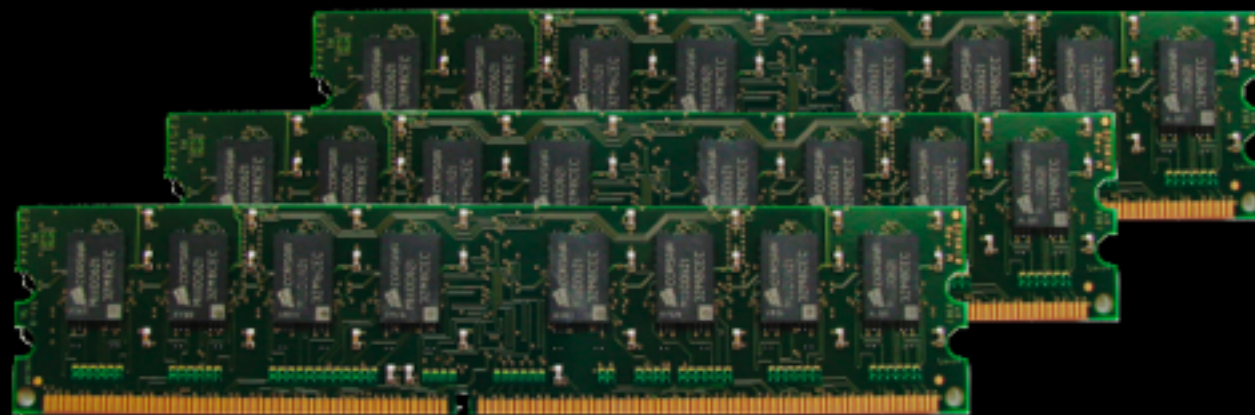
Query Optimizer



Indexer



Store



Overview

WHAT

```
SELECT A.title
FROM   A,B
WHERE  A.name = 'Hugo' AND A.id = B.dz
```

declarative query

↓
HOW

Query Parser

$\Pi_{A.title}(\sigma_{A.name='Hugo' \text{ and } A.id=B.dz} (A \times B))$

algebraic expression

Catalog

Statistics

Query Optimizer

Precompiled
Modules

Query Plan
Interpreter

Code Generation

Code Execution

e.g. C++

physical query
execution plan
(QEP)

executable program

operators



↓ PL compiler

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