

Algorithm
Definition

Parser

Expression IR
(λ calculus based)

Dataflow
Graph

Code
Generation

Runtime

Optimization &
Lowering

Ohua Compiler



```
graph LR; A[Algorithm Definition] -- Parser --> B["Expression IR<br/>(λ calculus based)"]; B --> C["Dataflow Graph"]; C -- "Code Generation" --> D[Runtime]; subgraph Ohua_Compiler [Ohua Compiler]; B; C; end
```

The diagram illustrates the Ohua Compiler workflow. It begins with 'Algorithm Definition', which is processed by a 'Parser' to produce 'Expression IR (λ calculus based)'. This intermediate representation then flows into the 'Dataflow Graph' stage. The 'Dataflow Graph' is then processed through 'Code Generation' to reach the 'Runtime' phase. The 'Expression IR' and 'Dataflow Graph' stages are grouped within a dashed box labeled 'Ohua Compiler', with the text 'Optimization & Lowering' positioned below this box, indicating the internal processes of the compiler.