

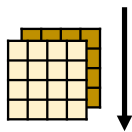
Tensor Property Identifier (§4)

Reduce Dependency: ...

Broadcast: ...

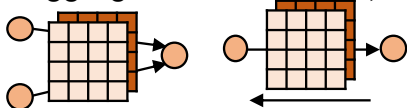
Size: ...

Value: ...



Aggregate

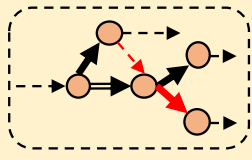
Forward



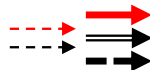
Backward

TA

Tensor Program
with Tensor Property

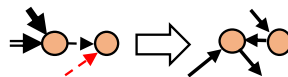


Different
Tensor Property

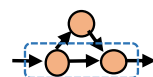


Tensor Property-Aware Optimization (§5)

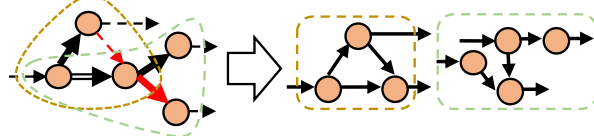
Algebraic Equivalent
Graph Transformation



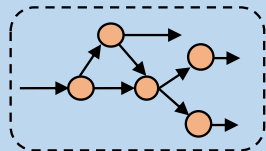
Non-Convex
Kernel Mapping



Lightweight Plan Searching



Input
Tensor Program



Optimized
Tensor Program

