NAIAD EGG
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• Dataflow graph programming language
• DD implementation written in Rust
• used for graph algorithms by distributing nodes of computation across the available nodes
EGG

- Equivalent program representations
- Equivalent graphs collected by a class of graphs
- Allows speedy rewrites and action over equivalences
- Rust implementation
WHAT'S THE PROBLEM?

- Naiad for graph algorithms – GraphLINQ, isn’t adapted to skew, so can get nodes with heavy loads after partitioning
- This partition is basically a graph.
- Use Egg to find equivalent graphs that are more balanced?
- Could extend this to allowing more dynamic scheduling as loads change.
- Apply it to PageRank (well known implementation in GraphLINQ)
- No work done yet.
REFERENCES


