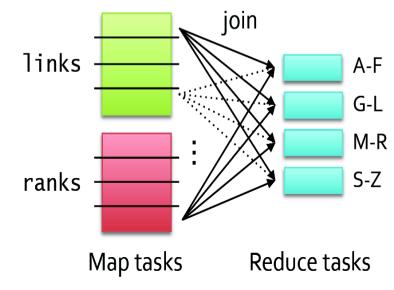
## Optimized Reduce Side Join By Mohit Kumar

## Spark Internals:Pagerank

1 inks and ranks are repeatedly joined

Each join requires a full shuffle over the network

» Hash both onto same nodes



## Spark Internals:Pagerank

