

Netty: 通信框架, AIO

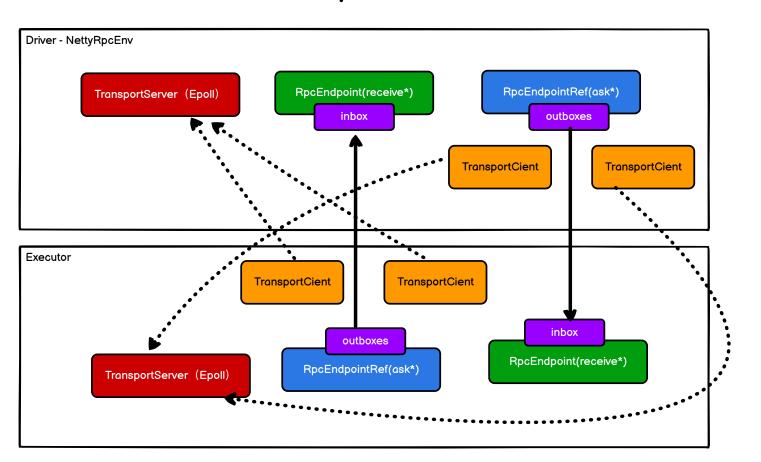
BIO: 阻塞式IO

NIO: 非阻塞式IO

AIO: 异步非阻塞式IO

Linux对AIO支持不够好, Windows支持好

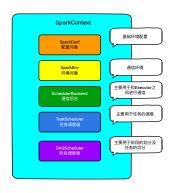
Linux采用Epoll方式模仿AIO操作

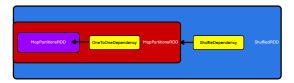


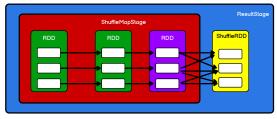
RPCEnv:通信环境

Backend: 后台

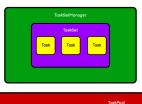
Endpoint: 终端

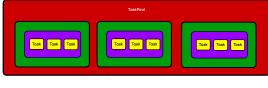


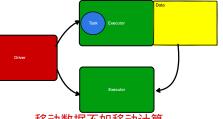




Spark中阶段的划分等于shuffle依赖的数量 + 1





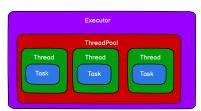


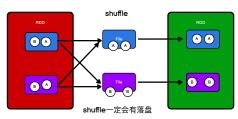
移动数据不如移动计算

计算和数据的位置存在不同的级别,这个级别称之为本地化级别

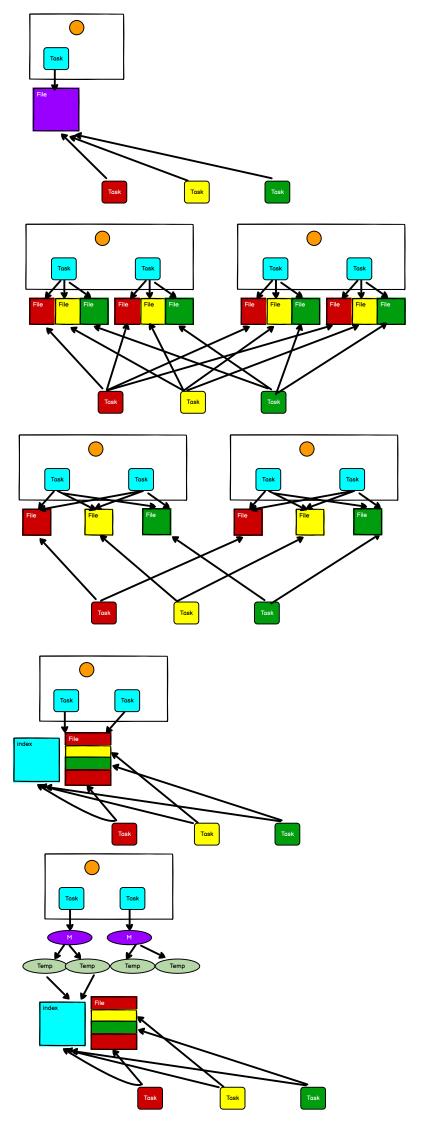
进程本地化:数据和计算在同一个进程中 节点本地化:数据和计算在同一个节点中 机架本地化:数据和计算在同一个机架中

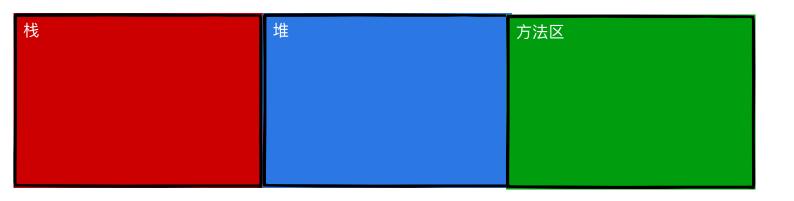
任意

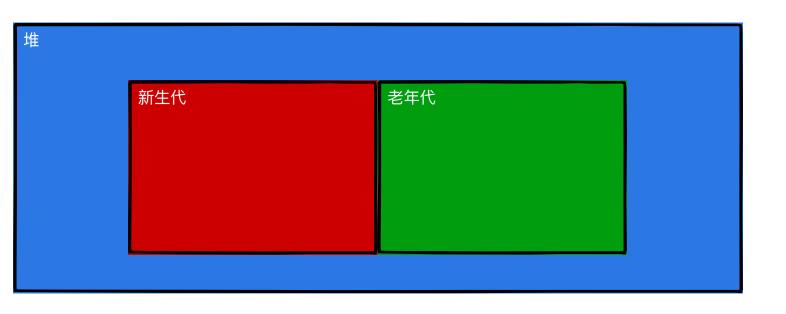


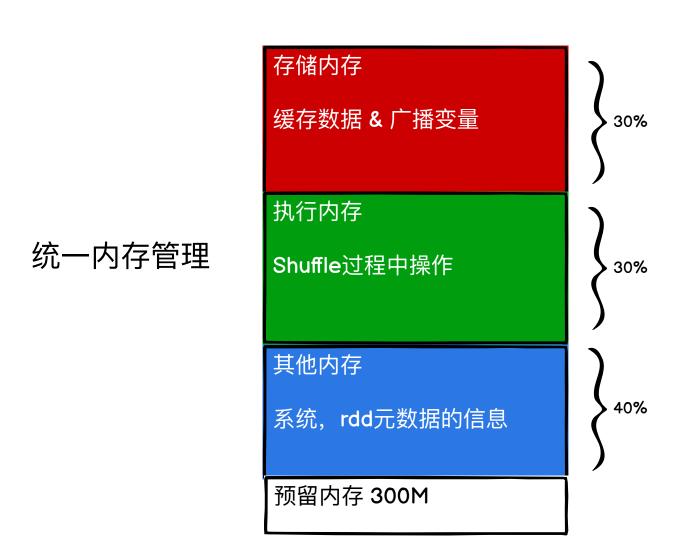


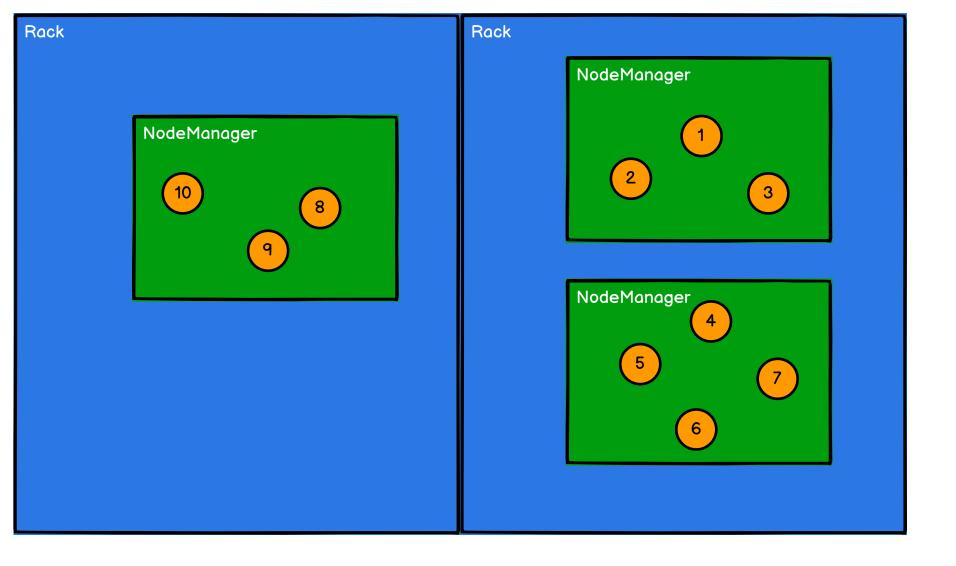
如果shuffle过程中落盘数据量减少,那么可以提高性能 算子如果存在预聚合功能,可以提高shuffle的性能











首选位置