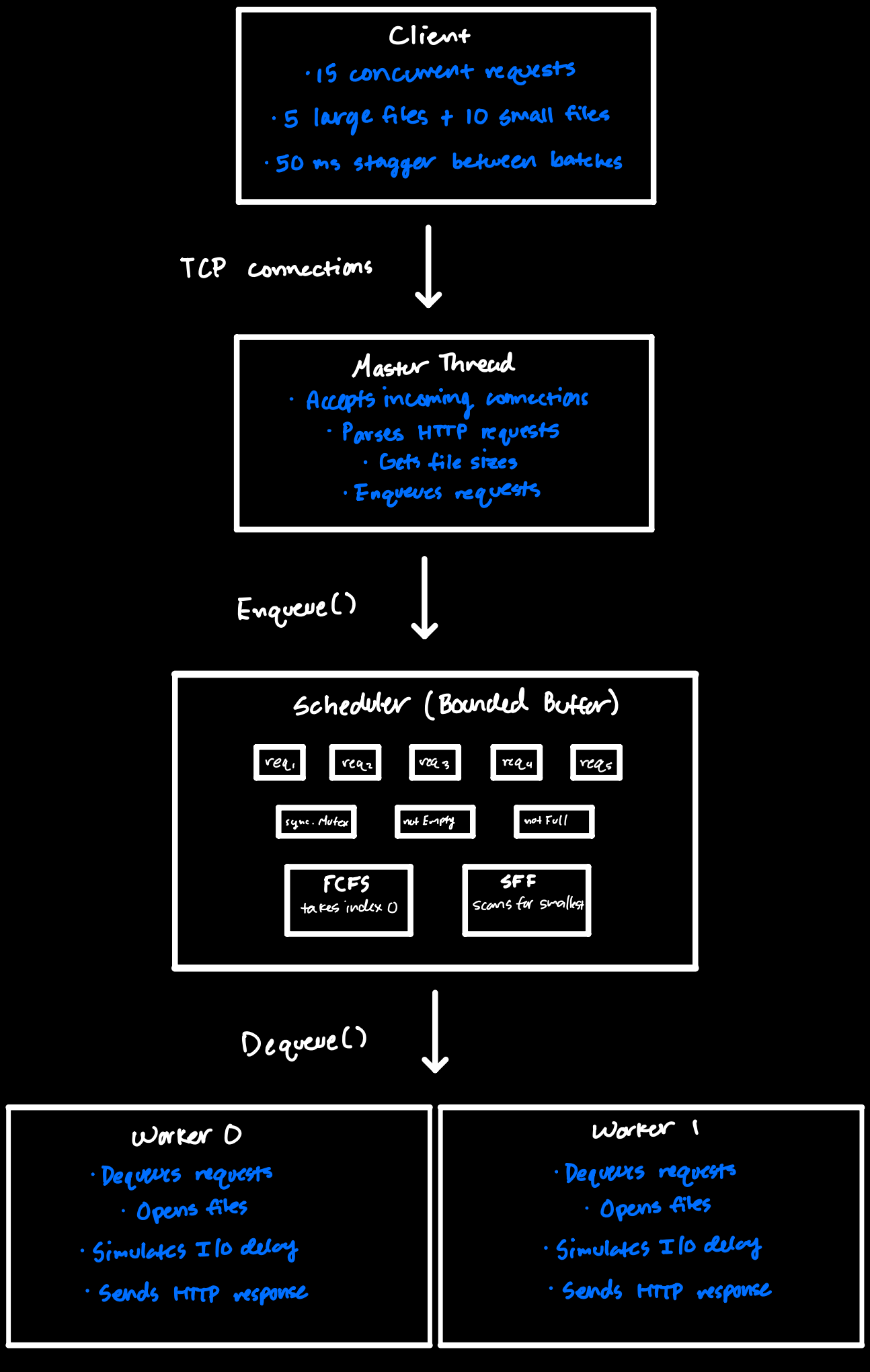
Client
· 15 concurrent requests
· 5 large files + 10 small files
· 50 ms stagger between batches
TCP connections
Master Thread
· Accepts incoming connections
· Parses HTTP requests
· Gets file sizes
· Enqueues requests
Enqueue()
Scheduler (Bounded Buffer)
req1
req2
req3
req4
req5
sync.Mutex
notEmpty
notFull
FCFS
takes index 0
SFF
scans for smallest
Dequeue()
Worker 0
· Dequeues requests
· Opens files
· Simulates I/O delay
· Sends HTTP response
Worker 1
· Dequeues requests
· Opens files
· Simulates I/O delay
· Sends HTTP response