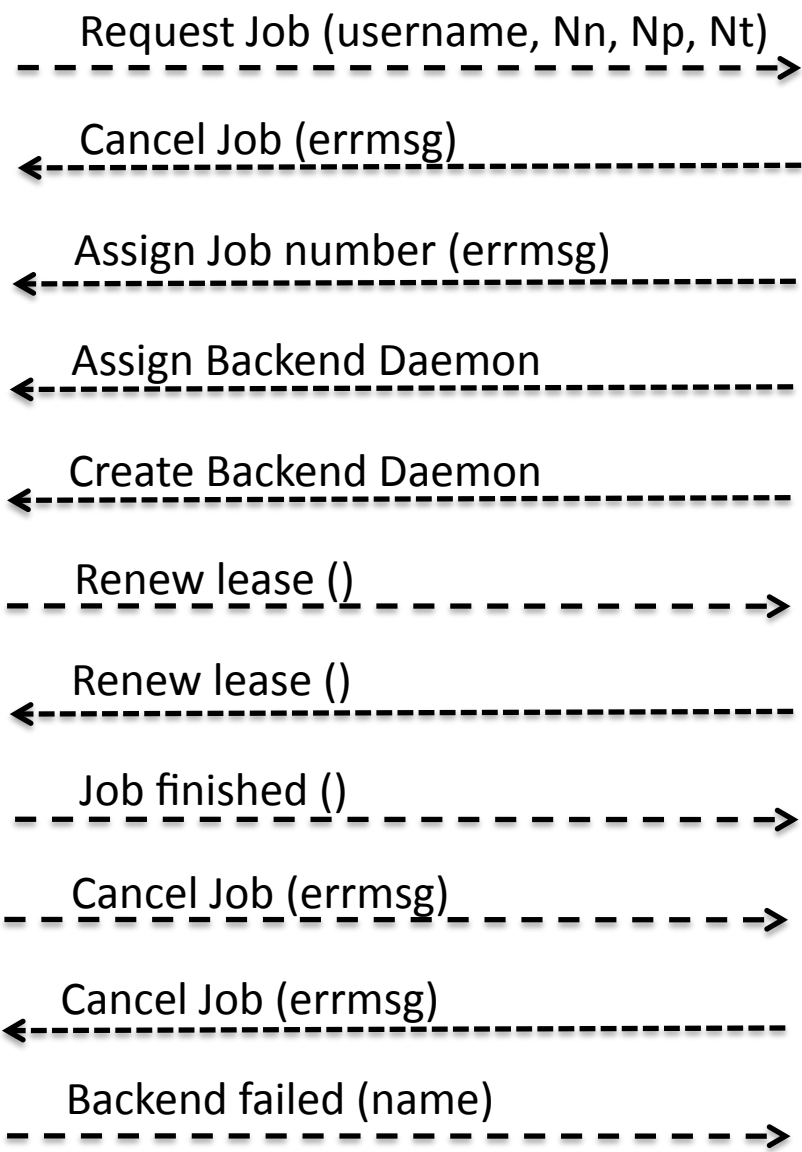


# Job frontend process

# Job Scheduler Daemon



Nn = Number of nodes  
Np = Number of processes  
Nt = Threads per process

If insufficient resources

If sufficient resources

Assign required number of backend nodes. If a backend daemon is already running on the backend node, send "Assign Backend Daemon". Else send "Create Backend Daemon"

Periodically while job is in progress

Periodically while job is in progress

When job finishes

If user cancels job

If error in Job Scheduler, or admin cancels job

If frontend detects backend has failed