Beowulf

mpiAPI starts job

wrapperAPI
n0: wrapper Master

wrapperAPI
n1: Search Master

wrapperAPI
n2: Search Slave

Tell the mpiAPI that the job started

Receive data from datacondAPI

Distribute data to all nodes

Receive data & send to next node

Receive data

Initialize

LALInitSearch()

LALInitSearch()

LALConditionData()

LALConditionData()

LALApplySearch()

Internal communication

LALApplySearch()

Receive results

Send results

Send output to the Event Monitor API

Communicate progress to mpiAPI and receive instructions from mpiAPI

Send mpiAPI instructions

Receive mpiAPI instructions

finished? — No

finished? — No

finished? — No

Yes

Yes

Yes

Finalize

LALFinalizeSearch()

LALFinalizeSearch()