

# Possible patch

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Possible short term solution to run cWB at CNAF (no GRID)

More than one year ago the cWB pipeline was modified to run at CNAF using platform LSF:

- Cwb commands to build automatically the necessary submitting files have been partially implemented in the code
- Each job requires input and configuration files, which are included in the folder transfer to the node for each single jobs. The compiled libraries as also the data frames files instead should to be “visible” to the nodes. Output files transfer to the working folder at the end of the job.
- First minimal (1 jobs) test have been performed in the last week by Vedovato, it works. The test performed was a simulation typeso the reading of data stream was not tested

What should be enhanced/updated:

- Fully include the features/options of cWB pipeline → implementations needed
- Full tests scaling number of jobs and the input/output transfer file are needed to ensure that this enviroment works

Timeline: strongly depends on the results of the ongoing tests

# CPUs - cWB

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CWB jobs run on the LDG -CPU usage (example) :

As example of the cWB usage this analysis includes the quite extensive background estimation of O1 till now (mainly covered by 5 days od overlap analysis). The tag `prod.O1.burst.allsky.cwboffline` has been used since september (not before)

LIGO Analysis	CPU CORE HOURS (7 days) ▼	CPU CORE HOURS (52 weeks)
0 Total	2,525,378	56,809,331
1 <code>ligo.dev.o1.cbc.bbh.pycbcoffline</code>	334,521	2,744,316
2 <code>ligo.dev.o1.cbc.bbh.gstlaloffline</code>	285,394	858,319
3 <code>ligo.prod.o1.hurst.allsky.cwboffline</code>	265,297	330,695

The requirements of the cWB can be found in the official ADE search plan, cWB includes many different analysis: all sky (low and high frequency), low latecy...