

# Minutes of the ABP Computing Working Group meeting

2nd August 2018

**Participants:** D. Amorim, H. Bartosik, X. Buffat, G. Iadarola, N. Karastathis, A. Poyet, G. Rumolo, L. Sabato, G. Sterbini

G. Rumolo mentioned that the CNAF cluster is now fully operational. H. Bartosik asked whether the issue with ifort was solved. G. Iadarola answered that the corresponding licence could not be used when the cluster was re-located due to the floods, however now that the machines are back at CNAF, this problem should no longer appear.

Right now the nodes are not properly connected, therefore jobs requiring more than 48 cores cannot be submitted. This issue will be solved after an intervention when the relevant people are back from holidays.

The current logging system is based on a two stage storage, with 3 month of unfiltered data and indefinite storage of 95% downsampled data. The new system should allow for a reduced filtering, for larger data rate (e.g. diamond BLM) and move away from a dying technology. The new infrastructure is based on Hadoop, with various layers allowing access through Jupyter, Spark and through the old Java API. It is however not clear how the performance of the java API will change with the new infrastructure, since the type of query for which the new databases are optimal might be different from the type of queries that were usually done. G. Iadarola mentioned that if the old API is no longer usable, the workload generated by the re-writing all the automatic analysis tools developed will be large. The database is meant to be efficiently accessible from the large computing resources available through OpenStack. For the moment, it is unclear whether this cloud-like data analysis model can be made compatible with access from the TN, needed for example during MDs. G. Iadarola mentioned that a way to test this new infrastructure using the old API is needed to efficiently test our analysis tools in realistic configurations. In particular, it will be difficult to compare the performance once the analysis tools are re-written in another language and executed on a different hardware infrastructure. G. Sterbini presented a set of questions to be addressed to BE-CO. G. Iadarola proposed to add a question on the time at which the java API to the new infrastructure will be available for testing.