

# sPHENIX Software Status

## **Production and Tools**

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Heavy Flavor Topical Group


# Heavy Flavor Tools

- No updates on DecayFinder and Anti-trigger
- KFPArticle: Changes were pushed
  - **Jenkins complained**
  - **No error was recorded though? Maybe accidentally picked up some other issue?**

sphenix-jenkins-ci bot · commented 6 days ago

### Build & test report

Report for commit 835d0c0f85cc0120711062d286f4984797101e58:



- build **failing** builds and tests overall are FAILURE.
- build **passing** Build with configuration of gcc-8.3 / clang is SUCCESS, clang report (full)/(new), build log
- build **failing** Build with configuration of gcc-8.3 / new is FAILURE, Compiler report (full)/(new), build log
  - build **failing** Generating DST and readback: build is FAILURE
  - build **failing** Calorimeter QA: build is FAILURE
  - build **failing** Tracking QA at high occupancy: build is FAILURE
  - build **failing** Tracking QA at low occupancy: build is FAILURE
  - build **failing** system gcc-8.3, build new: run the default sPHENIX macro: build is FAILURE, output
  - build **failing** system gcc-8.3, build new: run the overlap check for sPHENIX macro: build is FAILURE, output
  - build **unstable** system gcc-8.3, build new: Valgrind test: build is UNSTABLE, valgrind report
- build **passing** Build with configuration of gcc-8.3 / scan is SUCCESS, scan-build report (full)/(new), build log
- build **passing** cpp-check is SUCCESS, cppcheck report (full)/(new)

## New Warnings

Congratulations



No issues have been reported

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Libraries have been installed in:  
/var/lib/jenkins/workspace/sPHENIX/Build-Master-gcc8@5/build/new/install.1/lib

If you ever happen to want to link against installed libraries in a given directory, LIBDIR, you must either use libtool, and specify the full pathname of the library, or use the '-LLIBDIR' flag during linking and do at least one of the following:

- add LIBDIR to the 'LD\_LIBRARY\_PATH' environment variable during execution
- add LIBDIR to the 'LD\_RUN\_PATH' environment variable during linking
- use the '-Wl,-rpath -Wl,LIBDIR' linker flag
- have your system administrator add LIBDIR to '/etc/ld.so.conf'

See any operating system documentation about shared libraries for more information, such as the ld(1) and ld.so(8) manual pages.  
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Information Messages

- Min-bias production was attempted but crashed
  - Traced down to events with no silicon seeds or low number of tracks
  - This meant initial vertexing would segfault
  - [Fix has been implemented](#)
- Chris tried to start signal reprocessing to recover truth matching
  - I kept distracting Chris which has delayed this, sorry

This PR fixes a few issues in the Acts::IVF:

1. It adds a catch for the case where there are no silicon seeds produced. In this case, the IVF returns a dummy vertex of (0,0,0)
2. It adds a catch for the case where the number of silicon tracks is less than the number of centroids in the initial silicon stub cleaning algorithm. In this case, the number of centroids is just set to 1. This only occurs when there are a small number of tracks (i.e. less than 5).
3. It updates the random number generator used in the centroid clustering algorithm to use that of the `RANDOMSEED` flag, so that results are reproducible if a random seed is set at the top most macro level.