Subject: Re: Error in creating R3BRoot Docker container
Posted by Jan Mayer on Fri, 12 Jun 2020 14:11:23 GMT
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Hello,

upexps contains listmode unpackers for individual experiments. You can skip it for the moment until you need to analyze experiments from raw data.

Additional notes:
If you want to use ROOT in Python, including Jupyter Notebooks/Lab, you'll need to make sure a modern Python version is installed and that FairSoft is building ROOT against that Python. As the releases of FairSoft as well as the master branch are quite a bit behind on updating ROOT, I've found it necessary to modify tools/rootconfig.sh

```
if [ "$build_python" = "yes" ];
   then
-     PYTHONBUILD="-Dpython=ON"
+     PYTHONBUILD="-Dpython=ON
-DPYTHON_INCLUDE_DIR=/home/jmayer/.pyenv/versions/3.7.6/include/python3.7m
-DPYTHON_LIBRARY=/home/jmayer/.pyenv/versions/3.7.6/lib/libpython3.7m.so
-DPYTHON_EXECUTABLE=/home/jmayer/.pyenv/versions/3.7.6/bin/python"
   else
     PYTHONBUILD="-Dpython=OFF"
   fi
```

and disable g4py in configure.sh, as it didn't build for me. Newer versions of ROOT integrate better with both Python and Jupyter.

I have a few Jupyter Lab projects using ROOT/FairRoot/R3BRoot in Python, e.g.,
https://github.com/janmayer/NeuLAND-132Sn and
https://github.com/janmayer/NeuLAND-reconstruction-ml - I hope this is helpful.

Jan