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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

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