

LIM, June 19, 2023

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Updates in nightlies/devs since the last meeting

The changes have been explicitly requested in the JIRA tickets. If no JIRA ticket is specified, it indicates that the update was necessary to meet version requirements.

package	was	now	requested by	JIRA
eigen	3.3.7	3.4.0	LHCb	SPI-2368
dask-jobqueue	0.7.3	0.8.1	SWAN	SPI-2362
dask	2023.3.2	2023.4.0	SWAN	
dask_kubernetes	2022.5.2	2023.3.2	SWAN	
bokeh	2.3.1	3.1.1	SWAN	
contourpy		1.0.7	SWAN	
distributed	2023.4.0	2023.5.1	SWAN	
linkify_it_py		2.0.2	SWAN	
markdown_it_py		2.2.0	SWAN	
mdit_py_plugins		0.4.0	SWAN	
mdurl		0.1.2	SWAN	
param	1.10.1	1.13.0	SWAN	
panel	0.11.3	1.1.0	SWAN	Also in SPI-2369
uc_micro_py		1.0.2	SWAN	
xyzservices		2023.5.0	SWAN	

The following upgrades were implemented to prepare the platforms for gcc13/clang16:

package	was	now	requested by	JIRA
acts	6.0.0	26.0.0		
delphes	3.5.1pre05	3.5.1pre05		
fastjet	3.4.0p1	3.4.1		
fjcontrib	1.046	1.052		
gdal	3.6.4	3.7.0		
pygdal	3.6.4	--/--		
ruamel_yaml	0.17.16	0.17.31		
ruamel_yaml_clib	0.2.6	0.2.7		
astropy	5.0.4	5.3		
graphviz	2.40.1	8.0.5		
graphviz_py	0.20	0.20.1		
h5py	3.6.0	3.8.0		
imageio	2.5.0	2.31.0		
lazy_loader		0.2		
pillow	8.2.0	9.5.0		
pipdeptree		2.9.0		
pyerfa	2.0.0.1	2.0.0.3		
pygraphviz	1.9	1.11		
pyshtools	4.10	4.10.3		
pywt	1.0.3	1.4.1		
R	4.1.2	4.3.0		
scikitimage	0.14.3	0.21.0		

In addition to the previously mentioned upgrades, some packages have been patched to support gcc13/clang16 features. The patched packages include Gaudi-v36r12, RooUnfold-3.0.0, cepgen-1.1.0, sherpa-2.2.15, Garfield++, torch-2.0.1, Qt6-6.5.1, VTK-9.2.6, blas-0.3.20.openblas, coin3d-3.1.3p2, fastjet-3.4.0p1, ftjam-2.5.2, igprof-5.9.16, xqilla-2.3.4, and grpcio-1.54.0.

Pending requests

- [SPI-2370](#) Update frontier_client to 2.10.2 (Carl Vuosalo)
- [SPI-2371](#) New version of Coffea and dependencies (Carl Vuosalo)
- [SPI-2366](#) Please add accelerate package and update transformers package
- [SPI-2371](#) LangChain to bleeding edge

Release and layers:

- [SPI-2343](#) LCG_102b_ATLAS_21/22
 - hepmc3 and hepmc2 layers
 - latest version of rivet and yoda
 - new patched version of madgraph 3.5.0
 - patched version of Herwig++
 - latest versions of flake8, mccabe, pyflakes, pycodestyle

LCG_102b_ATLAS_21/22 has been completed, although not without a few hiccups. The update for "mccabe" was missed, and there was a missing installation of "flake8" for the ARM platform.

Preparation for **LCG_103a**

- good progress over the past two weeks.
- we have not attempted to build "aarch64-el9-gcc13-opt" yet as there was an issue with the compiler...
- there have been many changes in the stack. Should we continue with LCG_103a, as it uses the same ROOT version, or would it be better to refer to it as "LCG_104"?

items for discussion:

Round table

ATLAS, ALICE, LHCb, ROOT, NA62, SWAN

Next Meeting:

Scheduled date for our next meeting, July 03, 2023.