x-boa - Bug #1184

Example3 fails - IndexError

05 December 2012 18:16 - Carlisle, Timothy

Status:	Closed		**Start date:**	05 December 2012
Priority:	Normal		**Due date:**	
Assignee:	Rogers, Chris		**% Done:**	100%
Category:			**Estimated time:**	0.00 hour
Target version:				

Description

@ python Example_3.py ========= XBOA example 3 =========
This example shows how to make cuts
Loading file...
Loaded
Traceback (most recent call last):
File "Example_3.py", line 51, in <module>
bunch_list[0].cut({'amplitude x y':30.}, operator.ge, global_cut=True)
File "/home/carlisle/maus2/devel_2/third_party/install/lib/python2.7/site-packages/xboa/Bunch.py", line 741, in cut
if type(Hit()[variable]) != type(0.):
File "/home/carlisle/maus2/devel_2/third_party/install/lib/python2.7/site-packages/xboa/Hit.py", line 88, in *getitem*
return self.get(variable)
File "/home/carlisle/maus2/devel_2/third_party/install/lib/python2.7/site-packages/xboa/Hit.py", line 298, in get
raise IndexError('Key \"'+str(key)+'\' could not be found for Hit.get() - should be one of '+str(Hit.get_variables()))
IndexError: Key 'amplitude x y' could not be found for Hit.get() - should be one of ['x', 'y', 'z', 't', 'px', 'py', 'pz', 'energy', 'mass', 'local_weight', 'global_weight', 'weight', 'bx', 'by', 'bz', 'ex', 'ey', 'ez', 'sx', 'sy', 'sz', 'path_length', 'proper_time', 'e_dep', 'charge', 'event_number', 'station', 'pid', 'status', 'particle_number', 'eventNumber', 'particleNumber', '', 'phi', 'weight', "ct'", 'pt', "z'", "x'", "y'", 'r_squared', 'p', 'r', 'pphi', "r'", "t'", 'kinetic_energy', 'spin', 'l_kin', 'ct']@

Was the amplitude calc. never implemented? Or taken out? Running the Example scripts in addition to the Tests automatically upon installation would ensure the Examples are kept maintained...does this sound sensible? They're very useful...

Thanks,

Tim

History

#1 - 05 December 2012 18:18 - Carlisle, Timothy

- Description updated

Note: I'm using the development version (incl. Issue 89) of the latest release.

#2 - 05 December 2012 21:26 - Rogers, Chris

It's probably a bug introduced by the recent change. I only run the examples before making a release, so I wouldn't have noticed this... apologies.

#3 - 06 December 2012 11:15 - Carlisle, Timothy

ah, ok. It'll sort itself out by the next full release then.

#4 - 07 December 2012 09:00 - Rogers, Chris

Yes, but thanks for spotting it/raising the bug

#5 - 30 January 2013 12:30 - Rogers, Chris

I made the SystemTest handle examples more robustly in r90 - now running e.g.

```
python xboa/test/SystemTest.py
```

will run all 4 examples properly, plus xboa9f script. I note that there are some test failures here...

#6 - 30 January 2013 12:50 - Rogers, Chris

So I added an index by spill as well as event number and particle number; and made the global_weights index into a dict that hashes (spill, event, particle) to (weight). I now need to update the MAUS IO routines to use spill instead of event_number; event_number instead of particle_number; and use particle_number properly.

#7 - 30 January 2013 15:27 - Rogers, Chris

Fixed in r92 - updated cut routine couldn't handle bunch type variables (in this case amplitude). Expanded tests to include this test case.

#8 - 30 January 2013 15:27 - Rogers, Chris

- Status changed from Open to Closed

- % Done changed from 0 to 100