Subject: Probems when installing PandaRoot
Posted by Hang Qi on Wed, 28 Oct 2020 11:52:38 GMT
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Hello everyone,

I tried to install PandaRoot(oct19) on a MacOS Catalina10.15.7 using the guide provided on the Wiki:
ROOT-6, FairSoft-jun19 and FairRoot-v18.2.0 are installed successfully (no error reported) although some output are not exactly same as that shown on the Wiki.
But I got some error when installing PandaRoot-oct19, following are the message I received:

```
  ------------------------------------------------------------------------
  -----------------------------------------------------------
[xxxx] $ cmake ../source
.
.
.
-- FairMultiLinkedData has Print()
-- ROOT-Vc would be too new, compile the external legacy version.
error: could not lock config file .git/modules/external/vc/config: No such file or directory
warning: Could not unset core.worktree setting in submodule 'external/vc'
Cleared directory 'external/vc'
Submodule 'external/vc' (https://github.com/VcDevel/Vc.git) registered for path 'external/vc'
Cloning into '/Users/lebron/Software/PANDA_Software/pandaroot/source/external/vc'...
Submodule path 'external/vc': checked out 'fbdcee6276a4864c1abd0c0cca3625c519c6a6d3'
Using PHOTOS.
-- starting genfit PANDAROOT
-- genfit for panda
CUDA_TOOLKIT_ROOT_DIR not found or specified
-- Could NOT find CUDA (missing: CUDA_TOOLKIT_ROOT_DIR
CUDA_NVCC_EXECUTABLE CUDA_INCLUDE_DIRS CUDA_CUDART_LIBRARY)
-- <MVA_INFO> Building MVA with multiClass.
Found TEve, so the eventdisplay will be compiled.
-- Configuring done
-- Generating done
-- Build files have been written to: /Users/lebron/Software/PANDA_Software/pandaroot/build

[xxxx] $ make
.
.
.
In file included from
/Users/lebron/Software/PANDA_Software/pandaroot/build/external/vc/src/vc
-build/trigonometric_SSE4_1.cpp:20:
In file included from
/Users/lebron/Software/PANDA_Software/pandaroot/source/external/vc/inclu de/Vc/Vc:22:
In file included from
/Users/lebron/Software/PANDA_Software/pandaroot/source/external/vc/inclu
de/Vc/vector.h:33:
In file included from
/Users/lebron/Software/PANDA_Software/pandaroot/source/external/vc/sse/v ector.h:23:
```

/Users/lebron/Software/PANDA_Software/pandaroot/source/external/vc/sse/i
ntrinsics.h:507:13: error: argument to '__builtin_ia32_vec_ext_v4sf' must be a constant integer
     _MM_EXTRACT_FLOAT(f, v, i);
      ^~~~~~~~~~~~~~~~~~~~~~~~
/Applications/Xcode.app/Contents/Developer/Toolchains/XcodeDefault.xctoo
lchain/usr/lib/clang/12.0.0/include/smmintrin.h:876:11: note: expanded from macro
'_MM_EXTRACT_FLOAT'
  { (D) = __builtin_ia32_vec_ext_v4sf((__v4sf)(__m128)(X), (int)(N)); }
     ^   ~~~~~~~~
1 error generated.
make[5]: *** [CMakeFiles/Vc.dir/trigonometric_SSE4_1.cpp.o] Error 1
make[4]: *** [CMakeFiles/Vc.dir/all] Error 2
make[3]: *** [all] Error 2
make[2]: *** [external/vc/src/vc-stamp/vc-build] Error 2
make[1]: *** [external/CMakeFiles/vc.dir/all] Error 2
make: *** [all] Error 2

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did anybody meet this problem before? Look forward to your ideas.

Best Regards!
Hang

Subject: Re: Probems when installing PandaRoot
Posted by Ralf Kliemt on Mon, 04 Jan 2021 15:58:28 GMT
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Dear Hang,

First off sorry for the late reply, I was off for a few months.
This issue is known and there is no way around it other than disabling 2 packages. Basically
the old Vc package is not compatible with newer compilers, which affects also newer Ubuntu
systems. You can either start working on the dev branch or disable manually in your
pandaroot/CMakeLists.txt these lines:

  add_subdirectory (tracking/catracking)
  add_subdirectory (tracking/ftscatracking)

Cheers!
  Ralf