
Subject: The problem when accessing FairLinks in PndEmcPoints

Posted by [Dong Liu](#) on Wed, 26 Sep 2018 11:21:10 GMT

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Dear colleagues,

I am trying to do some simulation on the PndEMC. When I try to access the related MCTrack information of a EmcPoint, there are some problem!

When I use the code:

```
PndEmcPoint* point = (PndEmcPoint*)fPointArray->At(i);
std::set<FairLink> links = point->GetLinks();
```

where, "i" is the index of the EmcPoint in the related TCloneArray, "iomana" is the FairRootManager.

The script works fine. However, when I use

```
point->GetLinksWithType(iomana->GetBranchId("MCTrack"));
```

The script corrupts. The crash information can be found below. I also attached the full code and the root file.

Any ideas on the crash?

Thank you!

Dong

crash information

Processing ReadLink.C...

[INFO] The input consists out of the following trees and files:

[INFO] - cbmsim

[INFO] - sim_ScanMom3.root

[INFO] Object EmcPoint describing the branch in the folder structure was found

[INFO] Object MCTrack describing the branch in the folder structure was found

maxEvtNo 100

points is 4367

branch id 0

*** Break *** segmentation violation

[/usr/lib/system/libsystem_platform.dylib] _sigtramp (no debug info)

[<unknown binary>] (no debug info)

[/Users/danny/software/panda/FairRootInstall/lib/libBase.17.10.2.dylib]

FairMultiLinkedData::GetLinksWithType(int) const (no debug info)

[/Users/danny/software/panda/FairRootInstall/lib/libBase.17.10.2.dylib]

FairMultiLinkedData_Interface::GetLinksWithType(int) const (no debug info)

[<unknown binary>] (no debug info)

[<unknown binary>] (no debug info)

[/Users/danny/software/panda/external/lib/root/libCling.so]

cling::Interpreter::RunFunction(clang::FunctionDecl const*, cling::Value*) (no debug info)

[/Users/danny/software/panda/external/lib/root/libCling.so]
cling::Interpreter::EvaluateInternal(std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > const&, cling::CompilationOptions, cling::Value*, cling::Transaction**, unsigned long) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so]
cling::MetaSema::actOnxCommand(Illvm::StringRef, Illvm::StringRef, cling::Value*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so]
cling::MetaParser::isXCommand(cling::MetaSema::ActionResult&, cling::Value*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so]
cling::MetaParser::isCommand(cling::MetaSema::ActionResult&, cling::Value*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so]
cling::MetaParser::isMetaCommand(cling::MetaSema::ActionResult&, cling::Value*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so] cling::MetaProcessor::process(char const*, cling::Interpreter::CompilationResult&, cling::Value*, bool) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so]
HandleInterpreterException(cling::MetaProcessor*, char const*, cling::Interpreter::CompilationResult&, cling::Value*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so] TCling::ProcessLine(char const*, TInterpreter::EErrorCode*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCling.so] TCling::ProcessLineSynch(char const*, TInterpreter::EErrorCode*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libCore.6.10.so] TApplication::ExecuteFile(char const*, int*, bool) (no debug info)
[/Users/danny/software/panda/external/lib/root/libRint.6.10.so] TRint::ProcessLineNr(char const*, char const*, int*) (no debug info)
[/Users/danny/software/panda/external/lib/root/libRint.6.10.so] TRint::Run(bool) (no debug info)
[/Users/danny/software/panda/external/bin/root.exe] main (no debug info)
[/usr/lib/system/libdyld.dylib] start (no debug info)

File Attachments

- 1) [ReadLinkTest.C](#), downloaded 544 times
 - 2) [sim_ScanMom3.root](#), downloaded 517 times
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