
Subject: Re: Out of memory problem in EmcPoint - FairLink !

Posted by [Florian Uhlig](#) on Tue, 14 Sep 2010 13:50:12 GMT

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Hi Stefano

I also fear that there is a problem with the FairLinks or the way of usage. When running one of the Cbm Macros on the GSI batch farm i end up with a segmentation violation always after around 350 Events. After the third crash i monitored the memory consumption and this was always increasing. When the memory consumption reached the limit of 4GB on the batch farm machines and terminates.

Checking the process with valgrind for some events I found exactly the same problem as you did. The number of lost bytes was increasing with increasing number of events.

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==20123== 7,844,864 bytes in 122,576 blocks are still reachable in loss record 511 of 514
==20123==   at 0x4A1C929: operator new(unsigned long) (vg_replace_malloc.c:230)
==20123==   by 0xE9F04F3: std::_Rb_tree<FairLink, FairLink, std::_Identity<FairLink>,
std::less<FairLink>, std::allocator<FairLink> >::_M_insert(std::_Rb_tree_node_base*,
std::_Rb_tree_node_base*, FairLink const&) (new_allocator.h:88)
==20123==   by 0xE9F0638: std::_Rb_tree<FairLink, FairLink, std::_Identity<FairLink>,
std::less<FairLink>, std::allocator<FairLink> >::insert_unique(FairLink const&) (stl_tree.h:931)
==20123==   by 0xE9F0D5A: FairMultiLinkedData::InsertLink(FairLink) (stl_set.h:321)
==20123==   by 0xE9F2BA6: FairMultiLinkedData::AddLink(FairLink, bool, float)
(FairMultiLinkedData.cxx:123)
==20123==   by 0xEDB17EE: CbmStsDigi::CbmStsDigi(int, int, int, int, int, int, int)
(CbmStsDigi.h:63)
==20123==   by 0xF8E92CD: CbmStsIdealDigitize::Exec(char const*)
(CbmStsIdealDigitize.cxx:186)
==20123==   by 0x4D83402: TTask::ExecuteTasks(char const*) (TTask.cxx:312)
==20123==   by 0x4D83691: TTask::ExecuteTask(char const*) (TTask.cxx:275)
==20123==   by 0xEA06EAA: FairRunAna::Run(int, int) (FairRunAna.cxx:279)
==20123==   by 0xEA1CC1C: G__FairDict_792_0_5(G__value*, char const*, G__param*, int)
(FairDict.cxx:11420)
==20123==   by 0x559C3D0: Cint::G__ExceptionWrapper(int (*)(G__value*, char const*,
G__param*, int), G__value*, char*, G__param*, int) (Api.cxx:385)
==20123==
==20123==
```

Unfortunately i was not able to find out what exactly is the problem. Maybe Tobias has an idea.

Ciao

Florian
