

MAUS - Bug #1431

Memory leaks in MAUS

12 March 2014 06:45 - Rajaram, Durga

Status:	Closed	Start date:	12 March 2014
Priority:	Normal	Due date:	
Assignee:	Rajaram, Durga	% Done:	100%
Category:	Code Management	Estimated time:	0.00 hour
Target version:	MAUS-v0.8.4		
Workflow:	New Issue		
Description			
At CM38 Adam mentioned a slow memory leak in MAUS.			
Indeed, there do seem to be leaks.			
On my machine, running offline reconstruction on a smallish data-set [04995.000], the memory usage climbed from 180MB to 550MB			
[memory monitor log attached]			
Valgrind shows some stuff coming from Python, ROOT and GEANT.			
On the MAUS side, there seem to be lots of leaks from G4 DetectorConstruction, Globals, JsonCpp converters			
Valgrind memcheck log attached			
Related issues:			
Related to MAUS - Bug #1456: Run 4000 job on GRID failed with memory leak		Closed	16 April 2014

History

#1 - 12 March 2014 07:10 - Rogers, Chris

See also

- [#1278](#) - there was a problem where tracker folks were creating a new instance of the datastructure on every tracker recon step (without deleting it)
- [#1293](#) (item 19) - I list the bits of Geant4 that I couldn't figure out how to clean up. I believe the Geant4 memory leaks are only when the geometry is instantiated i.e. at start of run. I guess this was done against G4.9.2, I haven't checked G4.9.6.

#2 - 01 May 2014 12:18 - Rajaram, Durga

- Status changed from Open to Closed

- % Done changed from 0 to 100

Fixed in trunk r710

#3 - 22 May 2014 02:27 - Rajaram, Durga

- Target version changed from Future MAUS release to MAUS-v0.8.4

Files

memory_monitor.log	1.22 KB	12 March 2014	Rajaram, Durga
valgrind.log	7.06 MB	12 March 2014	Rajaram, Durga