

# TMemStat - memory usage debugging and monitoring in ROOT and AliROOT

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Memory monitoring is a very important part of complex project development.

Open Source tools, such as valgrind, are available for the task, however, their performance penalties make them not suitable for debugging long, CPU-intensive programs, such as reconstruction or simulation. We have developed the TMemStat tool, which, while not providing the full functionality of valgrind, gives developers the possibility to find memory problems even in very large projects, such as full simulation of the ALICE detector in high flux environment. TMemStat uses hooks for alloc and internal gcc functions, and provides detailed information about memory leaks and memory usage, with user-defined frequency or at user-defined watch points.

## **Presentation type (oral | poster)**

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**Authors:** MANAFOV, Anar (GSI); IVANOV, Marian (GSI)

**Presenter:** MANAFOV, Anar (GSI)

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