



IPCC ROOT

Princeton/Intel Parallel Computing Center

Progress Report

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Status 20.02.2018—14.03.2018

- ❖ Infrastructure:

- ❖ Enhanced the benchmarks of ROOT covering the python bindings which are widely used by the experiments. We are looking into optimizing the code there.
- ❖ Added an initial version of compiler comparison between clang 3.9, gcc 6.2 and icc 18.
- ❖ Reviewing the first external pull request for ROOT's declarative programming interface TDF

Status 20.02.2018—14.03.2018

- ❖ I/O and Reflection:
 - ❖ Further improved the memory consumption of ROOT by 10% for startup and running some tutorials.
 - ❖ Optimized the hashing of pointer and reference types in clang
 - ❖ Improvements in the area of on-demand dictionary generation

Status 20.02.2018—14.03.2018

- ❖ I/O and Reflection:
 - ❖ Provided feedback on the C++ modules proposal P0947R0 for the C++ Standards Committee Meeting in JAX;
 - ❖ Fixed value printing of C++ objects with overloaded address-of operator;
 - ❖ Progress on the adoption of C++ Modules in ROOT, namely fixing ROOT's autoloading of entities in canonical namespaces

Thank you!