

IPCC ROOT

Princeton/Intel Parallel Computing Center

Progress Report

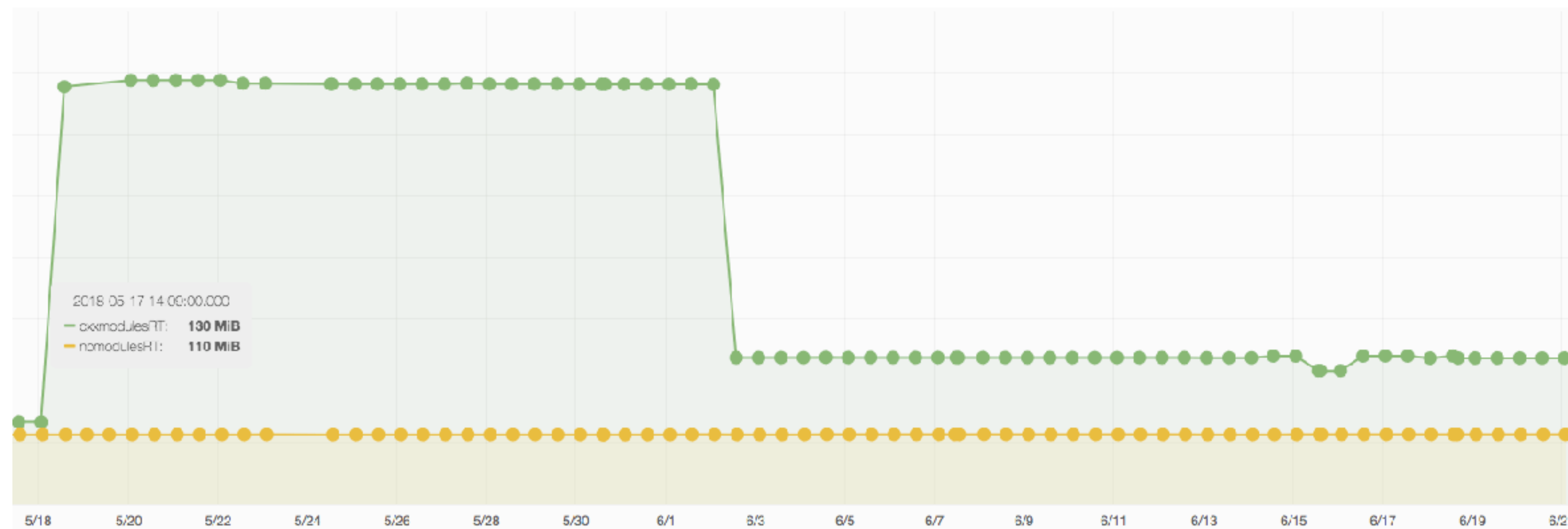
Vassil Vassilev, PhD

21.06.2018

Status 30.05.2018—20.06.2018

❖ I/O and Reflection:

- ❖ Implemented a new way of symbol resolution with higher correctness and very good performance (using bloom filters). Still room for improvement!



Status 30.05.2018—20.06.2018

- ❖ I/O and Reflection:
 - ❖ C++ Modules in the PR builds;
 - ❖ Scheduled as being an experimental feature for fall release of ROOT.

Status 30.05.2018—20.06.2018

- ❖ Clad, automatic differentiation:
 - ❖ Implemented efficient gradient computation (employing reverse autodiff mode)
 - ❖ Working on getting real world examples from ROOT.

Status 30.05.2018—20.06.2018

- ❖ Misc:

- ❖ Attended the ISO Cpp meeting in Rapperswil, CH

- ❖ First successful proposal (constexpr virtual) which will appear in C++20

- ❖ Final effort in organizing CHEP in Sofia, Bulgaria

Thank you!