

Google Summer of Code 2017 at CERN-HSF



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EP-SFT meeting, 18/9/2017

CERN-HSF Umbrella Org

21 Organisations



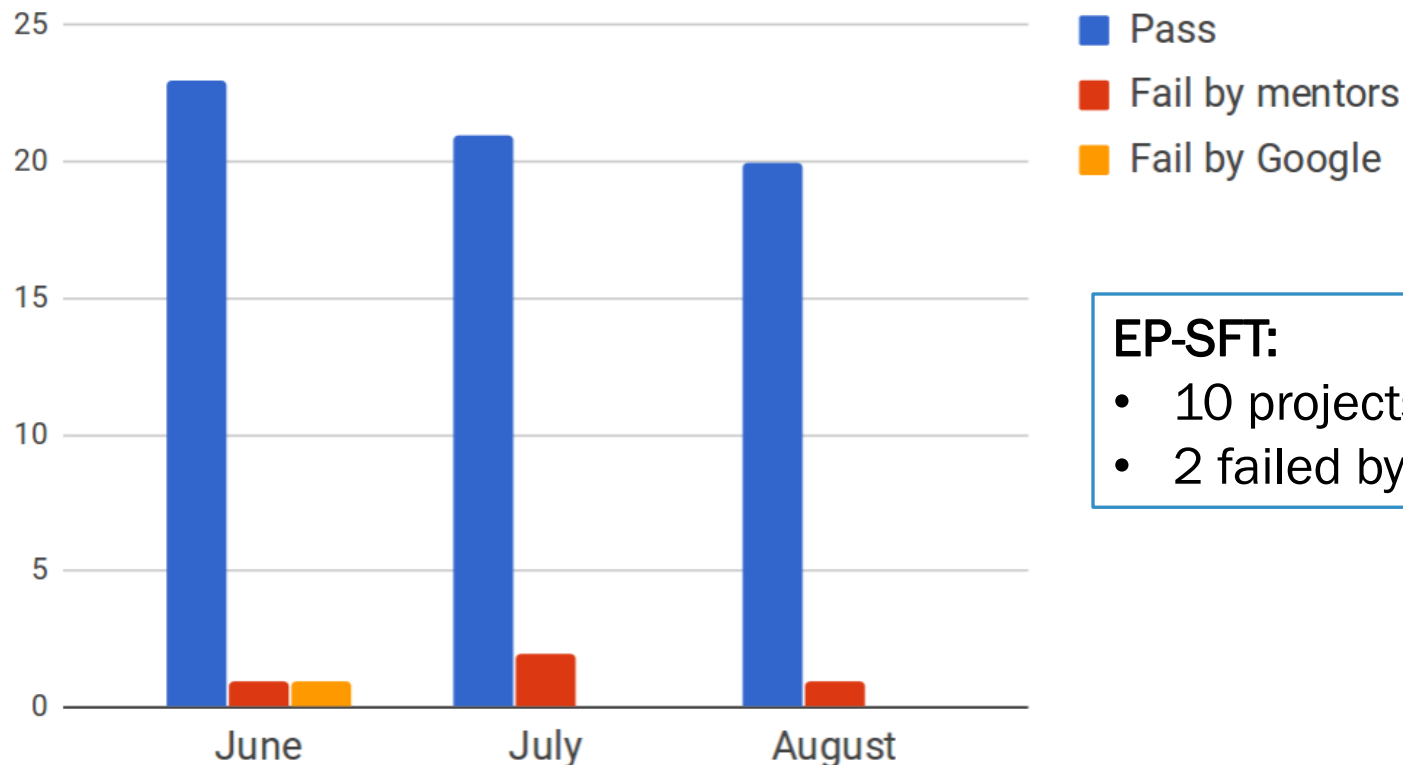
52 Mentors



Student Evaluations

- GSoC students are evaluated 3 times by their mentors
 - This year they were paid per evaluation

Student Evaluations



EP-SFT:

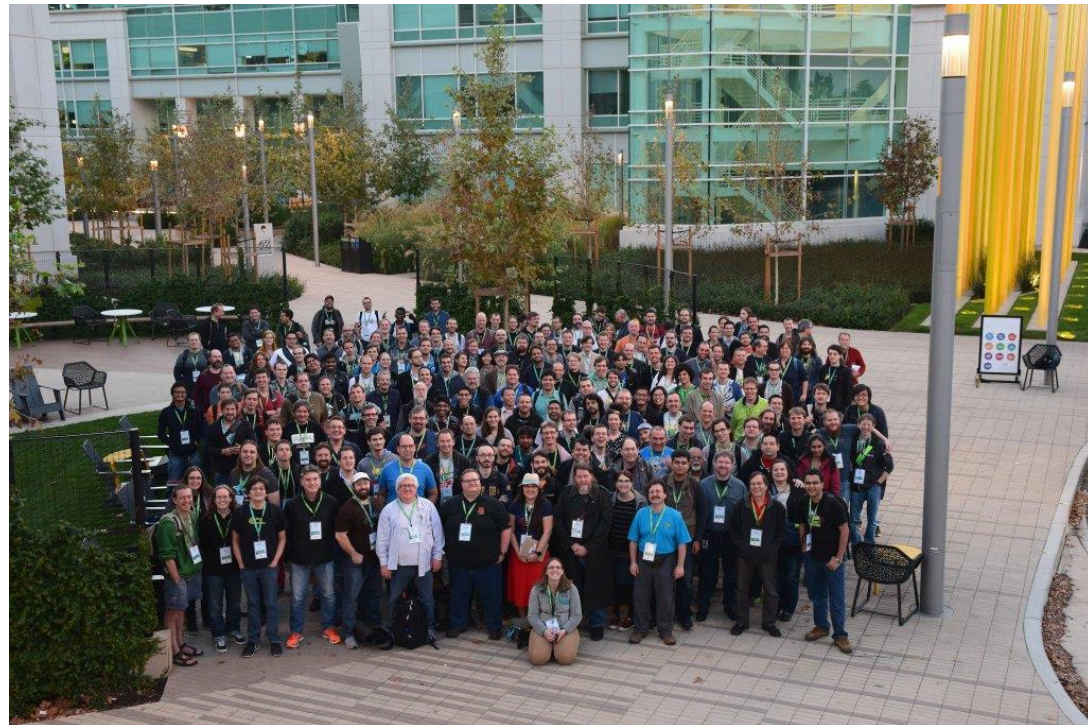
- 10 projects in total
- 2 failed by mentors

Integration Status (EP-SFT)

- ROOT
 - Parallelisation of ROOT math libs: **Done**
 - Big data tools for physics analysis: **In Progress (1M)**
- TMVA
 - Deep auto encoders on GPUs: **In Progress (1M)**
 - Convolutional DNNs on GPUs: **In Progress (1M)**
 - Recurrent DNNs on GPUS: **In Progress (1M)**
 - Multi-target regression: **can't merge?**
 - Integration of Tensorflow analysis chain: **can't merge?**
- Geant4
 - Trajectory integration: **In Progress (1M)**
 - Using pseudo-random numbers repeatably in MT sim: **In Progress (3M)**
- GeantV
 - GeantV HPC workload balancer: **In Progress (1M)**

GSoC Mentor Summit

- 13-15 October, Mountain View (CA, USA)
- 147 organisations and 315 mentors registered
- Unconference: attendees organise sessions
- How to **improve the program**: please provide your feedback!





Backup

Google Summer of Code (GSoC)

- Created in 2005 to:
 - Expose students to real open source projects
 - Bring new talent and ideas into open source
- This year, bigger than ever
 - 201 organisations
 - 1318 students
- SFT participating since 2011
 - Started with 4 students working on CernVM
- 2017 - Evolution into an umbrella organisation:
CERN-HEP Software Foundation
 - **26 students** accepted (12 last year)

SFT and CERN Participation

- SFT participation remains stable
 - 10 projects (ROOT & TMVA, Geant4, GeantV)
 - 12 mentors

CERN-HSF Projects



CERN-HSF Mentors

