SSC Year 3

Wednesday, May 27, 2020 (9 AM 0 10:20 AM US Eastern)

Participants: Sudhir, Henry, David

We will use this zoom for parallel (as zoom that Rob sent is occupied by another meeting, so I am confused)

https://cern.zoom.us/j/99792746273?pwd=M2xMeXNkeVhkVUVMMkxQZWIlcndBQT09&status=success

IRIS-HEP 2020 Retreat Schedule: https://indico.cern.ch/event/896167/timetable/#all.detailed

Discussion on Topics:

- **Standard basic carpentry curriculum (for non-HEP)**
- **Produce a HEP specific training curriculum (for HEP entrants)**
- **Blueprint**

Discussion related links

- Slides from yesterday talk on training:
  - https://docs.google.com/presentation/d/1YKKt6oGPCkD6pfl9SC_GbNJzdo-6BRZ-UF_2uCMBHao/edit?usp=sharing
- TrainingBlueprint:
  - https://docs.google.com/document/d/1uUGOJPp0kH0kTofe5GocfRNhbxm1oPxR9KTSbzvuoIQ/edit
- Training Events
  - https://indico.cern.ch/category/11386/
- Training Material
  - https://github.com/hsf-training

Year 3+ plan:

We reviewed the topics taught for basic carpentry curriculum (non-HEP specific, see the table in blueprint) and we can start with *beta testers* who can go through what has been taught and give feedback how the stuff works and then have experts review it. We can then provide a minimal Q&A kind of help for anyone wishing to use the material. We can add more topics or what is missing

Topics for basic carpentry (non-HEP) : (1)Git/vcs essentials/github, Advanced module for git, Building programs with python, Build systems: from gcc to cmake, Continuous Integration, Unix (shell, bash, scripting)

(2) Data analysis: numpy, pandas, Containerization (docker)

(3) Advanced Unix/terminal, Jupyter notebooks, Package managers and RPMs, Text editors (vim/emacs/ IDE (Linux Integrated Development Environments), Authentication in general; SSH; keys; ssh config; tunneling (advanced unix)

Topics for basic carpentry (HEP): Includes above and more

Advanced python and PyROOT, uproot and other Scikit-HEP tools (https://scikit-hep.org/scikit-hep-tutorials), ROOT, Basic distributed file systems (mounting, access protocols, …) e.g. EOS@CERN, Basic grid (Shouldn't be experiment-specific, There is an open science grid school), C++

Next blueprint (input from non-HEP): next year (or after we have done the above)