Workshop wrapup

Thanks to everyone for a challenging but fun week.

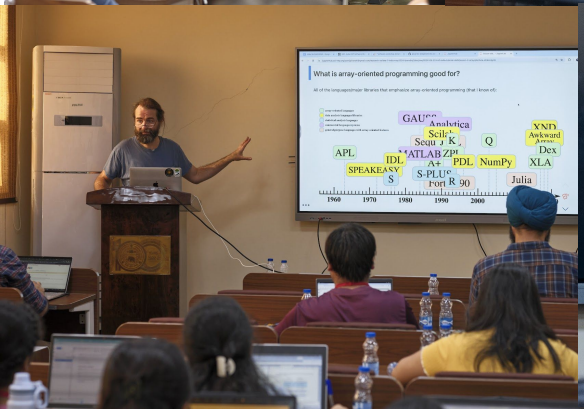
We hope that you enjoyed and learned things beneficial to your everyday work

We found advantages to being in Delhi in summer

We understood that learning software starts at a young age

We were reminded that tea breaks in India are much nicer than US coffee breaks

This week is a rapid introduction to a lot of potentially new concepts.
We encourage you to continue using these materials



Finding our materials later

We are organizing everything into a single github area

https://github.com/orgs/hsf-india-december2024/repositories

Materials on Indico will continue to be accessible. We still need to do some organization of them to make it easier to find things

Your access to the binderhub links will continue for at least a few weeks (maybe longer). Feel free to use them to go through courses again.

We are happy to answer follow-up questions on any topic.

Binderhub links…

Apologies for all of the problems with Binderhub with GPUs. We have homework to make these work better for large groups.

Since these changed during the week, I have a summary here (Instructions on next page):

1. For the first 4 Python lectures, the C++ lectures and the ML lectures https://binderhub.ssl-hep.org/v2/gh/research-software-collaborations/courses-hsf-india-may2024/HEAD
2. For the GPU+Cuda lectures https://binderhub.ssl-hep.org/build/gh/research-software-collaborations/courses-hsf-india-may2024/gpu?gpuModel=NVIDIA-A10&site=nrp&gpuCount=1&qos=Burstable&cpu=1&memory=1.0
3. For the GPU+Python lectures https://binderhub.ssl-hep.org/build/gh/davidlange6/courses-hsf-india-december2023/f96777f?gpuModel=NVIDIA-A10&site=nrp&gpuCount=1&qos=Guaranteed&cpu=1&memory=2.0

Binder instructions

Unlike our experience during this course, the GPU links should work ok when using them by yourself (our group has overloaded the system. We are happy to debug further problems..

Firefox seems to download these links instead of opening them. This does “work” but you can not see it making progress until complete..

For the two GPU binderhubs, open the link, let it run for a while and eventually you will get a text blob with a url starting with “https://jupyterhub.ssl-hep.org/user/”. Opening that link should open Jupyter.

Save and Download is a good way to preserve your work..

Repositories

- All
- Public
- Private
- Sources
- Forks
- Archived
- Templates

All

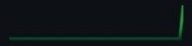
Beta Give feedback **New repository**

Search repositories

6 repositories — Last pushed

PythonGPU Public

Jupyter Notebook · BSD 3-Clause "New" or "Revised" License · 5 · 0 · 0 · 0 · Updated 16 minutes ago



MachineLearning Public

Machine Learning Tutorial

Jupyter Notebook · 2 · 0 · 0 · 0 · Updated 2 hours ago

GPUCuda Private

HTML · 0 · 0 · 0 · 0 · Updated 17 hours ago

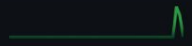
ScientificPython Public

Jim's 4 lessons on Python

Jupyter Notebook · BSD 3-Clause "New" or "Revised" License · 5 · 0 · 0 · 0 · Updated 3 days ago

ModernCpp Public

Jupyter Notebook · 2 · 0 · 0 · 0 · Updated 4 days ago



TestingCI Public

Jim's lesson on testing and continuous integration

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HSF-India program

Our project aims to build international research software collaborations between US, European, and India based researchers to reach the science goals of experimental particle, nuclear and astroparticle research.

- Given the growing complexity of our scientific data and collaborations, these collaborations are increasingly important to raise the collective productivity of our research community.
- It is intended as a long-term investment in international team science.

Focus areas

- Analysis tools and techniques
- Simulation techniques
- Reusable/Reproducible science

HSF-India Program opportunities

We plan to continue these workshops, both in this form and as more advanced/specialized versions.

- Maybe some of you will come back as instructors/tutors

We also run remote 3-6 month research traineeships. The idea of these is to match up students, faculty/staff in India and faculty/staff in US/Europe. Our program for 2024 is now open.

- https://research-software-collaborations.org/trainees.html
- We are happy to help and try to match interested students with research projects. It is best that you have a connection with a faculty in India and some general research topic that is of interest (and connected with our program)

Bidirectional Research Exchange Opportunity

We are also interested in facilitating “research exchanges” that support travel costs for 1-3 months to work directly with another research group

Who can we support

- Researchers affiliated to a US university/lab doing an exchange based in India
- Researchers affiliated to a university/lab in India doing an exchange based in US [or at CERN to work with a US affiliated group]

Interested to talk with anyone about either project or host offers or interest in doing an exchange.

We would like everyone to fill a survey

https://docs.google.com/forms/d/e/1FAIpQLScXm1q6RI74KJKH_Ywhe8x6e2ZcemxNe5sgUxCHSFwXy1_7ag/viewform?usp=sf_link

Please take 10 minutes to do it now before the Closing Session begins