Introduction to Python and Using Python in an HPC environment, day 4, Tuesday, 2025-04-29
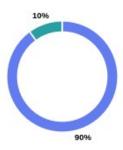
Översikt över svar Stängt

Svar	Genomsnittlig tid	Varaktighet
10	10:51	11 Dagar

1. Give your confidence levels of the following statements

Mer information

- I did not attend that session
- I have no confidence I can do this
- I have low confidence I can do this
- I have some confidence I can do this
- I have good confidence I can do this
- I can absolutely do this!

- I can start a script that uses parallel code
- I can measure the effect of using more nodes for parallel code
- I can write a batch script that uses GPUs
- I can determine which ML and DL modules are installed at a center
- I can load a Python (machine learning) module
- I can run a Python code that uses PyTorch
- I can run a Python code that uses TensorFlow

100%   0%   100%

2. Overall, how would you rate this training event?

Mer information

8.00
Genomsnittligt omdöme

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

Nivå	
Nivå 10	2
Nivå 9	1
Nivå 8	2
Nivå 7	5
Nivå 6	
Nivå 5	
Nivå 4	
Nivå 3	
Nivå 2	
Nivå 1	

3. What do you think about the pace of teaching overall today?

10 Svar

ID ↑	Namn	Svar
1	anonymous	It was okay. I was able to follow
2	anonymous	It was the right pace
3	anonymous	fast
4	anonymous	A bit fast
5	anonymous	considering the time, overall was very well structured and we were well supported by an excellent coordination of the Staff
6	anonymous	The Machine Learning part was hard to follow if you do not have a background on the topic, not clear what the objective was.
7	anonymous	First sections, on multiprocessing, had problems with the exercises and seemed to go by quickly - but I'm not too sure as I was caught up in debugging the environment problems. The section on GPUs, with Brigitte, went smoothly at a nice pace. ML with Jayant also worked well as he took the time to interact with the learners and adapt to how quickly we were able to get through.
8	anonymous	uneven
9	anonymous	Good
10	anonymous	ok

4. Would you recommend this course to your colleagues?

- ● Yes   9
- ● No   0
- ● Not sure   1

10%

90%

5. Which future training topics would you like to be provided by the training host(s)?

6 Svar

ID ↑	Namn	Svar
1	anonymous	spend more time on GPU and high performance computing and parallelism on advanced python script such as fourier transform, matrix operaions, differential equations
2	anonymous	During last session 15:15 Prof. Anders Hast shared his experience and gave us hints on PCA. Hence, another host person, next time, on LLMs (Dr. Jayant) or PINNs (Physics-informed neural network) or other Deep Learnings that are now commonly useful and used, would be very appreciated to see practical applications and implementations of them.
3	anonymous	Better detail on how to prepare code execution for the different HPCs
4	anonymous	LMOD, SLURM, resource monitoring, how to think about and decide upon resource usage
5	anonymous	How to use JAX
6	anonymous	batch jobs with pytorch and tensorflow

6. Do you have any additional comments? Suggestions/ideas: - What did you like best? (materials, exercises, structure) - Where should we improve? (materials, exercises, structure) - Training organization (announcement, registration, participant info, ...): what was good and what should we improve? - Length/depth of the course: too long/short, too superficial/profound, adequate. - Teaching aids used (presentations, slides, videos, ...): well prepared or not? Specific sessions that were better/worse in this? - Hands-ons, exercises, demonstrations: were they well prepared or not? Specific sessions that were better/worse in this? - Hands-ons and demonstrations: too few, too many, adequate amount? - Comments about specific sessions? Good/bad?

6 Svar

ID ↑	Namn	Svar
1	anonymous	I like the exercises and the course material. The course teachers are helpful.
2	anonymous	As aforementioned, add practical applications and implementations are the most valuable asset of this course to encourage students and researchers to exploit and explore novel areas out of our research field or comfort zone
3	anonymous	The parts involving parallelism and Machine learning needed different approaches for different clusters, and it was not always clear what we had to do, as setting interactive jobs and batches are different between them. It was hard to see the point of the Machine Learning part and how it should be done or work in the HPC. It was really good to see the final presentation on Dimensionality reduction with examples from someone else, could maybe be done for other topics to introduce us to them with maybe a more dedicated course.
4	anonymous	We learn that which we end up doing. Today, in the multiprocessing part, the examples were not working and I did not learn Python multiprocessing - instead I learned a few more things about the module system and had continued failures with Python venvs. On the other hand, in the section on GPUs, the examples were working and I learned very little about using GPUs, but I did learn a few things about SLURM and using Snowy. In order to learn I guess we should have incomplete example code that requires us to type in the crucial parts that we need to be learning. It is nice to do this interspersed in the lecture, for really short/safe bits in the main room and for larger pieces where more discussion results in breakout rooms. Now it seems that we have a couple days worth of exercises still to do, but all the teachers and co-learners are not there anymore. This is not fun. I might add that it is stressful trying to get both a cup of tea and a bathroom break into 15 minutes and there is ZERO margin for overtime when the breaks are that short. Please plan your sessions with more time margins, so that discussions can be had and breaks be accomplished and perhaps even catching up when something did not work right could be possible. Far too often we ended up with no time for exercises - maybe some exercises for later is a good idea, but should in that case be clearly marked as such and the examples that are in the material we really should be able to get hands on with in every session. Right now it seems like I need to go back to almost every session from this course for some reason or the other. Finally, I note that Richel from the first day and Anders from the very end are the two teachers that seemed happy about and interested in the topics that they were teaching. That helps a lot, so that is the right teachers at the right parts.
5	anonymous	Why are you talking about julia when it is about python? Please focus on python!
6	anonymous	Very happy that u recorded but could you also record the first day and put with the others?