GPU Community of Practice

CISL/NCAR

May 28, 2021

- Significant challenges to develop and support software to utilize GPU
- Insufficient staffing for a single point of support/knowledge
- Can we build up a crosscutting software development community with a focus on using GPUs for NCAR science?
- Distributed base of knowledge/support
- The community supports itself!

Community of Practice (CoP)

A **community of practice** (**CoP**) is a group of people who "share a concern or a passion for something they do and learn how to do it better as they interact regularly".[1]

[1] "Introduction to communities of practice - A brief overview of the concept and its uses". Etienne and Beverly Wenger-Trayner. Retrieved 13 June 2020.

Likely activities

- Regularly communicate of ongoing GPU activities
- Training on skills
- Sharing of successes, failures, tips and techniques
- Identifying pools of knowledge within the community
- Identifying knowledge gaps within the community

- July 1 @ 2 - 3 pm
- Spread knowledge about activities within the community
- Lightning round talks
  - maximum of 3 minutes
  - maximum of 4 slides
- Will solicit slides from known projects
- Strongly encourage slides from all members
- Please provide slides by June 29 (mickc@ucar.edu)

You can join our slack channel

- Name of activity
- What it does and why you are working on it.
- Programming language(s) used
- Status:
  - production code
  - middle of port
  - just thinking about possibilities
- Results:
  - What issues are you facing?
  - What could the community do for you?