Roofline Data Collection

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Roofline Data Collection

• We are collecting Advisor roofline case studies for a future publication

• We ask attendees of this hackathon to follow the link on the hackathon website and fill in details of their application
  – [https://www.nersc.gov/users/training/events/roofline-training-1182017-1192017/](https://www.nersc.gov/users/training/events/roofline-training-1182017-1192017/)
  – google: nersc training events

• Create a snapshot of Advisor result
  – Integrated roofline is desirable
  – Cache-Aware roofline model results are also valuable
Link to data collection sheet

To pack results and necessary source/binary files for download, run:

```
advice-cl --snapshot --project-dir <same_dir_name> --pack --cache-sources --cache-binaries -- <target_file_name>
```

If overhead from Advisor is too high, try adding these flags to the survey data collection:
- `--interval=40`
- `--stackwalk-mode=online`
- `--no-stack-stitching`

**Data Collection**

Once you have collected rootline data with Advisor
- Please fill in [this spreadsheet](https://docs.google.com/spreadsheets/d/1LzwGhQ9zj2zLa4MfGND6GqOr6W773Fj3gM3s3rskH7mO/edit?usp=sharing)
- Create a snapshot of results and share it with NERSC user tkoskela with the `give` command

**Downloads**

1. [TKoskela-HowTo.pdf](https://docs.google.com/spreadsheets/d/1LzwGhQ9zj2zLa4MfGND6GqOr6W773Fj3gM3s3rskH7mO/edit?usp=sharing) | Adobe Acrobat PDF file
2. [SWilliams-Roofline-Intro.pdf](https://docs.google.com/spreadsheets/d/1LzwGhQ9zj2zLa4MfGND6GqOr6W773Fj3gM3s3rskH7mO/edit?usp=sharing) | Adobe Acrobat PDF file
3. [ZMatveev-Advisor-Intro.pdf](https://docs.google.com/spreadsheets/d/1LzwGhQ9zj2zLa4MfGND6GqOr6W773Fj3gM3s3rskH7mO/edit?usp=sharing) | Adobe Acrobat PDF file
4. [RGreen-Roofline-at-LANL.pdf](https://docs.google.com/spreadsheets/d/1LzwGhQ9zj2zLa4MfGND6GqOr6W773Fj3gM3s3rskH7mO/edit?usp=sharing) | Adobe Acrobat PDF file
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How to Create Advisor Snapshots
Check all boxes!