CompF5: End User Analysis

Snowmass Parallel

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https://snowmass21.org/computational/analysis
Reminder of Scope

Consider:

- Types of resources needed for analysis facilities
- Use of accelerators
- Analysis libraries
- Data storage formats & dataset bookkeeping
- Programming languages
- Software for collaboration: version control, messaging
- “Real-time” analysis
- Long-term reproducibility and preservation

While also considering:

- Sustainability, both technical and human
  - Documentation
  - Training
  - Long-term software support & development
  - Integration with the broader ecosystem
  - Broad applicability to the field
  - Hardware facility evolution
- Interaction with other scientific fields & industry
  - Role of proprietary technology
  - Potential contributions to computing outside HEP
- User experience
  - Ease of use & setup
  - Scalability of technologies
  - Required training and broad applicability of training to other domains
  - Accessibility
What’s happening in this session

End User Analysis Agenda is at:
https://indico.fnal.gov/event/22303/sessions/20648/#20220718

- Introduction
- Summary of Contributions
- Recommendations & Highlights of Report
- General Discussion
Work so far

Aug 10-11 2020, Snowmass Computational Frontier Workshop
https://indico.fnal.gov/event/43829/sessions/15432/#20200810

Feb 28th 2022, CompF5 Town Hall: https://indico.fnal.gov/event/53209/

- Many excellent LOIs and white papers contributed related to CompF5
  - More on those coming up
Get Involved

- Compose an email to listserv@listserv.fnal.gov
  - Leave the subject section of the email blank
- Include in the message body:
  subscribe snowmass-compf05-useranalysis first_name last_name
  Or this link

#compf05-useranalysis

Conveners hosting writing sprint sessions every day: 1 PM Pacific.
In-person: East side of Kane under the umbrella, Zoom: https://ucdenver.zoom.us/j/94815946373
Interested parties are welcome to join and add further discussion

Comments on the draft report can be made
https://app.markup.io/invite/accept/fPba9OKw

Thank you to all contributors so far, and for future input!
Other Related Sessions at the CSS

Monday 7/18
● 10 am, CompF2 (theory)

Tuesday 7/19
● 8 am, CompF3 (ML)
● 10 am, CompF4 (facilities)
● 2 pm, Community Engagement, “Careers and Training the next Generation”

Wednesday 7/20
● 8 am, CompF1 (algorithms)
● 10 am, CompF6 (quantum computing)

Thursday 7/21
● 8 am, CompF Big Experiments forum
● 10 am, CompF7 (data preservation)
● 10 am, Cosmic Frontier “Large Volume data analysis, Simulation, and HPC usage”

Friday 7/22
● 8 am, CompF Frontier Report

Saturday 7/23
● 10 am, CompF Small Experiments forum

Sunday 7/24
● 10 am, AcceleratorF-CompF forum
Backup
CompF5 Sessions of Interest @ Snowmass

Tuesday, 10:50 a.m., Analysis Facilities, 238 HUB
Thursday, 8 a.m., Big Experiments, 110 Kane
Friday, 8 a.m., Frontier Report, 220 Kane
Saturday, 10 a.m., Small Experiments, 111 JHN
Saturday, 3:30 p.m., Future of Computing for HEP

Non-exhaustive.