

# September Workshop Agenda A Proposal

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WLCG HEPscore task force

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# HEPscore Workshop

- ❑ 2 days workshop 19 and 20 of September
  - Agenda to be ready in the coming days, to be announced at GDB if 13 July
- ❑ Expected attendance
  - Not only: Task Force members and WG members,
  - But also: Software experts from the experiments, GDB/HEPiX participants, etc
- ❑ Some known limitation
  - C-RSG meeting involving the Computing Coordinators (only?) will be on the same days
  - CMS week

# Goal

- ❑ Discuss the optimal configuration of a CPU benchmark, based on HEP experiment workloads, that would replace the current HEPSpec06 benchmark.
  - Identify a final candidate benchmark that can be presented to the WLCG and the HEP community.
- ❑ Describe the workloads provided by LHC and other HEP experiments and the foreseen software evolution.
- ❑ Discuss how to benchmark systems with accelerators (e.g. CPU+GPU) that are increasingly being used by the HEP experiments
- ❑ Learn from the Accounting WG how the migration will be done on the accounting portal

# Draft agenda

- ❑ Here a draft agenda
  - Suggestions are welcome
  - Submissions of contributions are welcome
  - Plan to allocate enough time for discussions
    - No packed sessions

# Monday 19

< Mon 19/09 Tue 20/09 All days >

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Session legend

Break HEP Benchmark Suite HEP Workloads HEPscore

10:00	<b>Welcome and purpose of the workshop</b> <i>6/R-012 - conference room, CERN</i>	10:00 - 10:05
	<b>Overview o the work done by the Task Force and the Working Group</b> <i>6/R-012 - conference room, CERN</i>	10:05 - 10:35
	<b>Analysis of the Measurement Campaign</b>	
11:00	<i>6/R-012 - conference room, CERN</i>	10:35 - 11:15
	<b>HEPscore candidates</b> <i>6/R-012 - conference room, CERN</i>	11:15 - 11:45
	<b>The Benchmark DB (demo how to use it)</b> <i>6/R-012 - conference room, CERN</i>	11:45 - 12:05
12:00	<b>Break: Lunch Break</b>	
13:00		
	<i>6/R-012 - conference room, CERN</i>	12:05 - 14:00

14:00	<b>Profiling of HEP Workloads</b> <i>6/R-012 - conference room, CERN</i>	14:00 - 14:30
	<b>Alice Workload</b> <i>6/R-012 - conference room, CERN</i>	14:30 - 14:45
	<b>Atlas workloads</b> <i>6/R-012 - conference room, CERN</i>	14:45 - 15:00
15:00	<b>CMS workloads</b> <i>6/R-012 - conference room, CERN</i>	15:00 - 15:15
	<b>IGWN workload</b> <i>6/R-012 - conference room, CERN</i>	15:15 - 15:30
	<b>Break: Coffee break</b> <i>6/R-012 - conference room, CERN</i>	15:30 - 15:50
	<b>Juno workload</b> <i>6/R-012 - conference room, CERN</i>	15:50 - 16:05
16:00	<b>LHCb workload</b> <i>6/R-012 - conference room, CERN</i>	16:05 - 16:20
	<b>The experience of some data centres in running the suite</b> <i>6/R-012 - conference room, CERN</i>	16:20 - 17:00

# Tuesday 20

< Mon 19/09 **Tue 20/09** All days >

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Session legend

● Extension of HEPscore beyond x86 ● Selection of HEPscore X

09:00

	<b>Madgraph on GPU</b> <i>6/R-012 - conference room, CERN</i>	09:30 - 09:50
10:00	<b>CMS ParticleFlow with ML</b> <i>6/R-012 - conference room, CERN</i>	09:50 - 10:10
	<b>CMS HLT-like</b> <i>6/R-012 - conference room, CERN</i>	10:10 - 10:25
	<b>Experience running workloads on CPU+GPU at HPC</b> <i>6/R-012 - conference room, CERN</i>	10:25 - 10:45
	<b>Run HEPscore "light" on grid</b> <i>6/R-012 - conference room, CERN</i>	10:45 - 11:05
11:00	<b>Coffee break</b> <i>6/R-012 - conference room, CERN</i>	11:05 - 11:25
	<b>Measurements of Power Consumption</b> <i>6/R-012 - conference room, CERN</i>	11:25 - 12:25
12:00	<b>Lunch break</b>	

13:00

14:00

15:00

	<b>Integration of HEPscore in the accounting system</b> <i>6/R-012 - conference room, CERN</i>	12:25 - 14:00
	<b>Golden candidates for HEPscore</b> <i>6/R-012 - conference room, CERN</i>	14:00 - 14:30
		14:30 - 15:10

