HEPscore status

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HEPiX Benchmarking WG 01 Feb 2023



Milestone reminder and Status

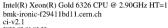
- ☐ 14th Feb. 2023 HEP Workloads frozen
- ☐ Recent workloads released with x86_64/aarch64 support
 - Belle2 gen-sim-reco
 - Alice digi-reco
- ☐ LHCb: intermediate workload released, new workload expected
 - See A. Valassi contribution for details

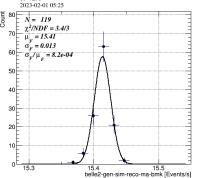
Validation of Belle2 gen-sim-reco MA

- ☐ Continuously tested for multiple days
- Server utilization as expected
- ☐ Spread ≤1%

CPU ↑	Online CPUs	# Copies	# Threads/Copy	# Events/Thread	# reps	Count	p50	spread	Run 1 duration (s)
AMD EPYC 7302 16-Core Processor	0-63	64	1	50	3	92	14.8	1.04%	321
Intel(R) Xeon(R) CPU E5-2630 v3 @ 2.40GHz	0-31	32	1	50	3	91	4.88	0.331%	508
Intel(R) Xeon(R) CPU E5-2650 v4 @ 2.20GHz	0-47	48	1	50	3	92	7.19	0.336%	510
Intel(R) Xeon(R) CPU E5-2680 v4 @ 2.40GHz	0-55	56	1	50	3	91	9.49	0.353%	450
Intel(R) Xeon(R) Gold 6130 CPU @ 2.10GHz	0-63	64	1	50	3	92	10.2	0.453%	471
Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz	0-63	64	1	50	3	91	15.4	0.286%	317

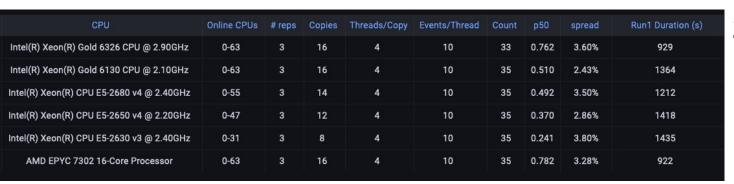






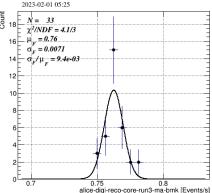
Validation of Alice digi-reco MA

- ☐ Continuously tested for multiple days
- Server utilization as expected
- ☐ Spread ~3%





Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz HT=1 bmk-ironic-f29411bd11.cern.ch ci-v2.0.1



HEPscore beta configuration

- ☐ Prepared a HS23_beta config with all the workloads but LHCb
- Validating it on the CERN servers (including ARM)
- ☐ When validated, will circulate instructions to TF operators
 - Could be delayed if meanwhile the LHCb container is made available



