

Sealed Experiment Record

Sealed 2026-10-11 · Signed by the K-Veritas server
Session f28a2959 · Data hash 568d...8ee6

Abstract

This record seals 1 run (echo 'KVERITAS_METRIC name=phi value=0.804974 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.823658 step=0'; echo 'KVERITAS_METRIC name=phi_bmq value=0.695688 step=0'; echo 'KVERITAS_METRIC name=phi_boz value=0.892011 step=0'; echo 'KVERITAS_METRIC name=phi_dtm value=0.758926 step=0'; echo 'KVERITAS_METRIC name=phi_ful value=0.974206 step=0'; echo 'KVERITAS_METRIC name=phi_mey value=0.768726 step=0'; echo 'KVERITAS_METRIC name=phi_mku value=0.884478 step=0'; echo 'KVERITAS_METRIC name=phi_kao value=0.970238 step=0'; echo 'KVERITAS_METRIC name=phi_myk value=0.763677 step=0'; echo 'KVERITAS_METRIC name=phi_ses value=0.806021 step=0'; echo 'KVERITAS_METRIC name=phi_spp value=0.496919 step=0'; echo 'KVERITAS_METRIC name=phi_snk value=0.781673 step=0'; echo 'KVERITAS_METRIC name=phi_taq value=0.84844 step=0') executed on Intel(R) Xeon(R) CPU @ 2.20GHz between 2026-10-11 03:27 and 03:27 UTC. Reported results: phi 0.804974, phi_bam 0.823658, phi_bmq 0.695688, phi_boz 0.892011. 1 invocation in total, 0 failed. Produced with K-Veritas [1].

What this record proves

These numbers came from the sealed code at this time, unchanged since. Whether the experiment is sound is for the reader to judge.

Verify: kveritas verify <this file> or kveritas.org/verify

1 Setup

Item	Value
Session	f28a2959-78fa-4acc-982d-3c0d152f01cf
Initialized	2026-10-11T02:48:36Z
Machine	937dd175be8ad753
Operating system	linux / amd64
CPU	Intel(R) Xeon(R) CPU @ 2.20GHz, 4 cores
Memory	15.6 GB
GPU	NVIDIA L4, 23034 MiB
Environment, run 1	0c9945f0305d308945205d531d68a5dd1d41bc5e4f0050eb550fda377611bd0d
Disclosure	open
Source code, run 1	328be5b519e078c9d42ecc2e6ebcda11be9f3c9310a92b9515ac87bd7f91b88e

2 Runs

#	Command	Duration	Exit	Anchored
1	sh -c echo 'KVERITAS_METRIC name=phi value=...	0.5 seconds	0	at run end

1 invocation in total: 1 kept in this record, 0 failed, 0 interrupted. Every invocation is recorded by the server, including the ones not kept.

3 Results

Run 1: echo 'KVERITAS_METRIC name=phi value=0.804974 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.823

Metric	Final value	Step	Source
phi	0.804974	0	explicit
phi_bam	0.823658	0	explicit
phi_bmq	0.695688	0	explicit
phi_boz	0.892011	0	explicit
phi_dtm	0.758926	0	explicit
phi_ful	0.974206	0	explicit
phi_mey	0.768726	0	explicit
phi_mku	0.884478	0	explicit
phi_kao	0.970238	0	explicit
phi_myk	0.763677	0	explicit
phi_ses	0.806021	0	explicit
phi_spp	0.496919	0	explicit
phi_snk	0.781673	0	explicit
phi_taq	0.84844	0	explicit

4 Execution evidence

Coherence

Not enough telemetry to judge. This says nothing against the run; the seal and anchors still hold.

Telemetry

Run	Samples	CPU time	Peak memory	Peak GPU
1	3	0.0 s	0.00 GB	0%

5 Provenance

Run 1: echo 'KVERITAS_METRIC name=phi value=0.804974 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.823

Disclosure open. 30 tracked files, 2 snapshots. Every snapshot is bound into the signature.

#	Snapshot	Time	Root	Changed
0	run_start	03:27:20	ea4d4a23ed3ae4f1	30
1	run_end	03:27:20	ea4d4a23ed3ae4f1	0

Activity: 30 files read, 0 files written, 0 subprocesses. Full list in Appendix B.

6 Verification

Field	Value
Signer	Signed by the K-Veritas server
Signed at	2026-10-11T03:27:21.746439+00:00
Algorithm	RSA-PSS-SHA256, 4096-bit key
Key fingerprint	eeac81653cf44ac029c4069cf2a06d9f
Data hash	568d840347201178166f981a0733fbdcf644551cae66705728148f8892748ee6
Code bundle hash	d24548a35bc6e48a86d0fd63431f401491c3b5471ca650c786747e36a3eb3db0

Run anchors: 1 invocations were anchored at the server when they ended.

Checks a verifier runs

1. The stored canonical data hashes to the data hash above, and the signature verifies over data_hash:nonce:signed_at.
2. The signing key is the K-Veritas server key, not one supplied by the author.
3. Nothing was appended after the seal, and these pages hash to the value bound in the seal.
4. Each run matches the digest the server received when it ended.
5. A supplied code bundle hashes to the code bundle hash above.

References

[1] M. K. Keita and C. Homan. Computer Science Conferences Should Require Nonrepudiable Experimental Results. NeurIPS 2026 Position Paper Track. arXiv:2605.08586.

Appendix

A Full metric series

Run 1: echo 'KVERITAS_METRIC name=phi value=0.804974 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.823

Metric	Value	Step	Line	Source
phi	0.804974	0	1	explicit
phi_bam	0.823658	0	2	explicit
phi_bmq	0.695688	0	3	explicit
phi_boz	0.892011	0	4	explicit
phi_dtm	0.758926	0	5	explicit
phi_ful	0.974206	0	6	explicit
phi_mey	0.768726	0	7	explicit
phi_mku	0.884478	0	8	explicit
phi_kao	0.970238	0	9	explicit
phi_myk	0.763677	0	10	explicit
phi_ses	0.806021	0	11	explicit
phi_spp	0.496919	0	12	explicit
phi_snk	0.781673	0	13	explicit
phi_taq	0.84844	0	14	explicit

B Provenance timeline and activity map

Run 1: echo 'KVERITAS_METRIC name=phi value=0.804974 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.823

#	Snapshot	Time	Root	Changed
0	run_start	03:27:20	ea4d4a23ed3ae4f1	30
1	run_end	03:27:20	ea4d4a23ed3ae4f1	0

Event	Path or command	Hash
read	config.yaml	
read	data/resources/bam/hashees.json	
read	data/resources/bmq/hashees.json	
read	data/resources/boz/hashees.json	
read	data/resources/dtm/hashees.json	
read	data/resources/frozen.json	
read	data/resources/ful/hashees.json	
read	data/resources/kao/hashees.json	
read	data/resources/mey/hashees.json	
read	data/resources/mku/hashees.json	
read	data/resources/myk/hashees.json	
read	data/resources/ses/hashees.json	
read	data/resources/snk/hashees.json	
read	data/resources/spp/hashees.json	
read	data/resources/taq/hashees.json	
read	exp/eval.json	
read	exp/manifest.json	
read	exp/sft_label_report.json	
read	models/adapter_config.json	
read	models/checkpoint-100/adapter_config.json	

Event	Path or command	Hash
read	models/checkpoint-100/tokenizer.json	
read	models/checkpoint-100/tokenizer_config.json	
read	models/checkpoint-100/trainer_state.json	
read	models/checkpoint-50/adapter_config.json	
read	models/checkpoint-50/tokenizer.json	
read	models/checkpoint-50/tokenizer_config.json	
read	models/checkpoint-50/trainer_state.json	
read	models/safety_snapshot.json	
read	models/tokenizer.json	
read	models/tokenizer_config.json	

C Run history

Invocation 1, OK, 0.5 seconds, 14 output lines, started 2026-10-11T03:27:20

metric_hash 68c1d6075af4042f7f17eaf1c76880d8d58142aa2f0f2a2c1aa909223b73e351
run_digest 7e065427e94467428914050ef53613f890d4a5e6f2dd594f4aa08ff4f48ff42d
anchored at run end

D Raw seal fields and hashes

Seal

data_hash 568d840347201178166f981a0733fbdcf644551cae66705728148f8892748ee6
signed_message_hash e9facc6790924512ca25e15780c386e5afc2959fceb9a0d7eb714edd6aee470b
nonce 52b4cb850399e57d21287e883259e461
signed_at 2026-10-11T03:27:21.746439+00:00
sealed_at 2026-10-11T03:27:21.777987708Z
checkout_bundle d24548a35bc6e48a86d0fd63431f401491c3b5471ca650c786747e36a3eb3db0

Signature (base64)

rkjco71p3a0Mta0TYqmELiJi7nM2N/MP+Ez4q0biNgAYJPzKcYS+4N6/WzSMJQW/3IDe03KMLY1p4JjJIR6wQb
T1PtAM8aL2ja/zEfPM8+n4NLf+P7ME7szvtXqw7tirCSu9pZuQLUMeCmDA5Ndc16qIkAB0HKH165Gq33+ho68pGT
b8Ecu5M3T6maoA01hfUEP7D1ZE2u4R0Dovlg4w4niFfjoBsyPDEu4J46cX8J9SoI6y94H4P0UA90aLRHKrsVMoS1
YvdiVeoFYq1ZH+F27030jBk1Usf0hetdwDImf49p2GwkFwFPde1K0YU+R7BCF+CraEWJ8eL9Q4AM7wjKI2ql5r14
8SU4RWM+aGNKEdosnEj3aTh0eKiPhftN8vQhEASg4zB3G0hc8dbN7ry8uK+nWFPdZNke2s5vvlQu73p/1aMyHIcp
M5IWCiSRVnLj8xLdBALK4TVJ6WeSaS9KeTGhprMuj6tx+verdMRN6e4JnpBAzwsHpEjwwYnMx84AwzIVOGvW+ape
db9bWRbV94VL97iVzPX1JaxSt690XT8LSpDHySNz/KjHyCnQMrJZIZqW8SH+fgdm/UdEkJAlIvx7Ykr00R0A02r
3rIxSu0EhmK9C7fNXS/kd+7EWG0u4pBasIfei7jHh0EyG7tcDB0gLRGFITMpIWepLI4=

Public key

-----BEGIN PUBLIC KEY-----

MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEA1QL3YyMgeShx8IhTC7jb
sM0w2BnRXgsBn3+SMXKjtwHATqdekM1PlcjayJxD5fcPrOPPCqp/LoUFz5CUZzRi
6+8FTv70dHuIz5A4Lat4vcgwP+iWscPc3HzpmjpsKbTm0emqgp6RB6GNNPpxYa5X
7qU95EfEisX/GfoS9ToxtqPBwCcVWSPBX8efeC4TC58m96Fsp4mC8KIcEadbIbHN
av0JjdTJ//CMOWZSIbdzE6qvEbNFCqPB5tNU7oHfYvBeNLrvPU9TAqdbtozdHQ+D
AhfTRuJNgWEkjWd5lb0Vhi4qlkweS0EMTKT3ye9I15xEaJn4bku4eKqeSV7SZt3o
XbUcmr2H5mKcKsvt6bXmX6ajAmgi900Cm9QJlaQkJM6z2iITnyvDMgueJtFxQpC9
HNBPgPZ242NH8JgE6CNF7ToL9syasS67u7UMgIcNgeNHNCy9bLgPU5annzP9gN2l
6HEMLdkXNdKQRb1rDwyEJf3N/50YHnXXPmuf5sb8R/pxWNqtF04R5UGVV92qd2Mi
1GN7LE3mbQRbPsLL/JapDXMNzNikaFfBsQK7iKxr7vIaTeZckFZWfThcYNT7Hasg
+eE4bf/olCHBCf1VIDCKDxohehdZ0WRRcgM9iK3I/0zZdaBsgdc8WuJRMb8LPP9v
8Jap/1PwjncNku5cdW3gHLCCAWEAAQ==

-----END PUBLIC KEY-----

Run 1 outputs

```
stdout 68c1d6075af4042f7f17eaf1c76880d8d58142aa2f0f2a2c1aa909223b73e351
stderr e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
metrics 68c1d6075af4042f7f17eaf1c76880d8d58142aa2f0f2a2c1aa909223b73e351
digest 7e065427e94467428914050ef53613f890d4a5e6f2dd594f4aa08ff4f48ff42d
```

E BibTeX for [1]

```
@misc{keita2026computerscienceconferencesrequire,
  title={Computer Science Conferences Should Require Nonrepudiable Experimental Results},
  author={Mamadou K. Keita and Christopher Homan},
  year={2026},
  eprint={2605.08586},
  archivePrefix={arXiv},
  primaryClass={cs.CR},
  url={https://arxiv.org/abs/2605.08586},
}
```