

Sealed Experiment Record

Sealed 2026-10-11 · Signed by the K-Veritas server
Session beea38a2 · Data hash 8923...8af6

Abstract

This record seals 1 run (echo 'KVERITAS_METRIC name=phi value=0.644057 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.586164 step=0'; echo 'KVERITAS_METRIC name=phi_bmq value=0.889136 step=0'; echo 'KVERITAS_METRIC name=phi_boz value=0.80303 step=0'; echo 'KVERITAS_METRIC name=phi_dtm value=0.723584 step=0'; echo 'KVERITAS_METRIC name=phi_ful value=0.78921 step=0'; echo 'KVERITAS_METRIC name=phi_mey value=0.428105 step=0'; echo 'KVERITAS_METRIC name=phi_mku value=0.63627 step=0'; echo 'KVERITAS_METRIC name=phi_kao value=0.872754 step=0'; echo 'KVERITAS_METRIC name=phi_myk value=0.498514 step=0'; echo 'KVERITAS_METRIC name=phi_ses value=0.457255 step=0'; echo 'KVERITAS_METRIC name=phi_spp value=0.371716 step=0'; echo 'KVERITAS_METRIC name=phi_snk value=0.543597 step=0'; echo 'KVERITAS_METRIC name=phi_taq value=0.773411 step=0') executed on Intel(R) Xeon(R) CPU @ 2.20GHz between 2026-10-11 19:50 and 19:50 UTC. Reported results: phi 0.644057, phi_bam 0.586164, phi_bmq 0.889136, phi_boz 0.80303. 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	beea38a2 - f4e9 - 4500 - b5e3 - c5bd80e58a91
Initialized	2026-10-11T19:13:34Z
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	0dc3e841c648c09654fd37a16e699308e15bd9b83d69b92b4308ae00333ee99a
Disclosure	open
Source code, run 1	9d2ad9952a8f13bc71dea7482f0170e6acee9077843680c9d45b5b27fc55b49d

2 Runs

#	Command	Duration	Exit	Anchored
1	sh -c echo 'KVERITAS_METRIC name=phi value=...	1.0 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=0.644057 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.586164'

Metric	Final value	Step	Source
phi	0.644057	0	explicit
phi_bam	0.586164	0	explicit
phi_bmq	0.889136	0	explicit
phi_boz	0.80303	0	explicit
phi_dtm	0.723584	0	explicit
phi_ful	0.78921	0	explicit
phi_mey	0.428105	0	explicit
phi_mku	0.63627	0	explicit
phi_kao	0.872754	0	explicit
phi_myk	0.498514	0	explicit
phi_ses	0.457255	0	explicit
phi_spp	0.371716	0	explicit
phi_snk	0.543597	0	explicit
phi_taq	0.773411	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	5	0.0 s	0.00 GB	0%

5 Provenance

Run 1: echo 'KVERITAS_METRIC name=phi value=0.644057 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.586164'

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

#	Snapshot	Time	Root	Changed
0	run_start	19:50:27	39aee559a17a7ba3	30
1	run_end	19:50:28	39aee559a17a7ba3	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	2026-10-11T19:50:30.661186+00:00
Algorithm	RSA-PSS-SHA256, 4096-bit key
Key fingerprint	eeac81653cf44ac029c4069cf2a06d9f
Data hash	89235c39bf714afadfe8ec2a1eae879b68ed3b5476c72204fc63fcf781288af6
Code bundle hash	1b82d8b9baf7bf8657dd0b5326556ed23856203f4a7d21f6b6e6a05a14158422

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=0.644057 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.586164'

Metric	Value	Step	Line	Source
phi	0.644057	0	1	explicit
phi_bam	0.586164	0	2	explicit
phi_bmq	0.889136	0	3	explicit
phi_boz	0.80303	0	4	explicit
phi_dtm	0.723584	0	5	explicit
phi_ful	0.78921	0	6	explicit
phi_mey	0.428105	0	7	explicit
phi_mku	0.63627	0	8	explicit
phi_kao	0.872754	0	9	explicit
phi_myk	0.498514	0	10	explicit
phi_ses	0.457255	0	11	explicit
phi_spp	0.371716	0	12	explicit
phi_snk	0.543597	0	13	explicit
phi_taq	0.773411	0	14	explicit

B Provenance timeline and activity map

Run 1: echo 'KVERITAS_METRIC name=phi value=0.644057 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.586164'

#	Snapshot	Time	Root	Changed
0	run_start	19:50:27	39aee559a17a7ba3	30
1	run_end	19:50:28	39aee559a17a7ba3	0

Event	Path or command	Hash
read	config.yaml	
read	data/resources/bam/hashtes.json	
read	data/resources/bmq/hashtes.json	
read	data/resources/boz/hashtes.json	
read	data/resources/dtm/hashtes.json	
read	data/resources/frozen.json	
read	data/resources/ful/hashtes.json	
read	data/resources/kao/hashtes.json	
read	data/resources/mey/hashtes.json	
read	data/resources/mku/hashtes.json	
read	data/resources/myk/hashtes.json	
read	data/resources/ses/hashtes.json	
read	data/resources/snk/hashtes.json	
read	data/resources/spp/hashtes.json	
read	data/resources/taq/hashtes.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, 1.0 seconds, 14 output lines, started 2026-10-11T19:50:27

metric_hash 122e8b8330e2b73e98974b28228adfcfe477ed19e53cc68f432d46d66ede6dfd0
run_digest b19b3e4633d1e04aa3c3d8fb82eeb7d615f22e887da404fde7362b1aaad90529
anchored at run end

D Raw seal fields and hashes

Seal

data_hash 89235c39bf714afadfe8ec2a1eae879b68ed3b5476c72204fc63fcf781288af6
signed_message_hash 48864b505c15c9bf74bc2d3c74227921d2cecc9ac9539fbcf9685d8416477acb
nonce ce7d518becdf4699b92a207009ce7138
signed_at 2026-10-11T19:50:30.661186+00:00
sealed_at 2026-10-11T19:50:30.695089641Z
checkout_bundle 1b82d8b9baf7bf8657dd0b5326556ed23856203f4a7d21f6b6e6a05a14158422

Signature (base64)

RJXT0BpA9eKYjN3XCAo1HCAn9cD4oWg6vCaqbFc1qsP4IJ1Rlnt5Rgg1DpQt i3NBdzt9VbZDz0y23NtGDlzj0W6d
4CUo1F2Ydb9sfduvS1NZo99G18WzPDKGPTkF9rz5jC4T/3frBQMPPAR0fM/yFeipBwYeiso6GPzs3QePD0/tXgFd
+2LsuJuxdrFmM2iHFZV8HPTWu9bH1MlWlc4dBZRM0GxQqw23CNq6JWiPT6FvvBzy8PYkUICM1tQwVNLjuzI1f08
ZQAide8FHBBIoc4/LGj/S+qtqJxxlClGrvXSqKoPYaMLUVDN1tdXH1zBcPpSXPt7roig2v+JdWo4FymC4K2gcrkw
3pwiaTWLWObNGb0xjen8Jwur6FsJKSLMvGcIsOeUBazciDSP/L73BqVGuHJP/eeWp2TBYpL986fgy2ArCQjebHaS
7BfCMbbXiNdXPfGax47mLkPjadwBudb5tftPtqTvVHTQtvnX5417FNh01KsCpJzSIq3Ar2U17TjHtUCSUuoRwCh
EJAS053yeMW9MRcK+4BxHj+Z4HAMAXrbEzSiMorhDtCUSVVb+g9pj4f9G4w9q/LREKSEfu/N8vG3Z0v695IGcHU7
p69sRGd0E3CRY/SMQmMIxmS50AqWxf5vHaBeMXRGXu2evI7quTnkgf9EKHhoE7WFO0M=

Public key

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

MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCGKCAgEA1QL3YyMgeShx8IhTC7jb
sM0w2BnRXgsBn3+SMXKjtwHATqdekM1PlcjayJxD5fcPrOPPCqp/LoUFz5CUZzRi
6+8FTv70dHuIz5A4Lat4vcgwP+iWscPc3HzpmjpsKbTm0emqgp6RB6GNnPpxYa5X
7qU95EfEisX/GfoS9ToxtqPBwCcVWSPBX8efeC4TC58m96Fsp4mC8KIcEadbIbHN
av0JjdTJ//CMOWZSIbdzE6qvEbNFCqDB5tNU7oHfYvBeNLrvPU9TAqdbtozdHq+D
AhfTRuJNgWEkjWd5lb0Vhi4qlkweS0EMTKT3ye9I1L5xEaJn4bku4eKqeS7VSZt3o
XbUcmr2H5mKcKsvt6bXmX6ajaAmgi900Cm9QJlaQkJM6z2iITnyvDMgueJtFxQpC9
HNBPgPZ242NH8JgE6CNF7ToL9syasS67u7UMgIcNgeNHNCy9bLgPU5annzP9gN2l
6HEMLdkXNdKQRb1rDwyEJf3N/50YHnXXPmuf5sb8R/pxWNqtF04R5UGVV92qd2Mi
1GN7LE3mbQRbPsLL/JapDXMNzNikaFfBsQK7iKxr7vIaTeZckFZWfThcYNT7Hasg
+eE4bf/olCHBCf1VIDCkDxohehdZ0WRRcgM9iK3I/0zZdaBsgdc8WuJRMb8LPP9v
8Jap/1PwjNcNku5cdW3gHLCCAWEAAQ==

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

Run 1 outputs

```
stdout 122e8b8330e2b73e98974b28228adfcfe477ed19e53cc68f432d46d66ede6df0
stderr e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
metrics 122e8b8330e2b73e98974b28228adfcfe477ed19e53cc68f432d46d66ede6df0
digest b19b3e4633d1e04aa3c3d8fb82eeb7d615f22e887da404fde7362b1aaad90529
```

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},
}
```