

Sealed Experiment Record

Sealed 2026-10-12 · Signed by the K-Veritas server
Session 8e79c5ee · Data hash e154...e61b

Abstract

This record seals 1 run (echo 'KVERITAS_METRIC name=phi value=0.524288 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.580331 step=0'; echo 'KVERITAS_METRIC name=phi_bmq value=0.785655 step=0'; echo 'KVERITAS_METRIC name=phi_boz value=0.380148 step=0'; echo 'KVERITAS_METRIC name=phi_dtm value=0.606802 step=0'; echo 'KVERITAS_METRIC name=phi_ful value=0.515136 step=0'; echo 'KVERITAS_METRIC name=phi_mey value=0.334913 step=0'; echo 'KVERITAS_METRIC name=phi_mku value=0.416787 step=0'; echo 'KVERITAS_METRIC name=phi_kao value=0.875303 step=0'; echo 'KVERITAS_METRIC name=phi_myk value=0.317416 step=0'; echo 'KVERITAS_METRIC name=phi_ses value=0.441342 step=0'; echo 'KVERITAS_METRIC name=phi_spp value=0.408253 step=0'; echo 'KVERITAS_METRIC name=phi_snk value=0.466966 step=0'; echo 'KVERITAS_METRIC name=phi_taq value=0.686685 step=0') executed on Intel(R) Xeon(R) CPU @ 2.20GHz between 2026-10-12 03:03 and 03:03 UTC. Reported results: phi 0.524288, phi_bam 0.580331, phi_bmq 0.785655, phi_boz 0.380148. 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	8e79c5ee-57ba-4051-943d-966b09155bae
Initialized	2026-10-12T01:55:23Z
Machine	debd2e227b0a68ef
Operating system	linux / amd64
CPU	Intel(R) Xeon(R) CPU @ 2.20GHz, 8 cores
Memory	31.3 GB
GPU	NVIDIA L4, 23034 MiB
Environment, run 1	e757a3ce908af0991d64ef616a0c3e64b5db625625443e75cac4bf6889fccf76
Disclosure	open
Source code, run 1	8c39803dbb3440b24bd47861610f9340c31444435b79670c6efeac27e2dc8312

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=0.524288 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.580331 step=0';

Metric	Final value	Step	Source
phi	0.524288	0	explicit
phi_bam	0.580331	0	explicit
phi_bmq	0.785655	0	explicit
phi_boz	0.380148	0	explicit
phi_dtm	0.606802	0	explicit
phi_ful	0.515136	0	explicit
phi_mey	0.334913	0	explicit
phi_mku	0.416787	0	explicit
phi_kao	0.875303	0	explicit
phi_myk	0.317416	0	explicit
phi_ses	0.441342	0	explicit
phi_spp	0.408253	0	explicit
phi_snk	0.466966	0	explicit
phi_taq	0.686685	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=0.524288 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.580331 step=0';

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

#	Snapshot	Time	Root	Changed
0	run_start	03:03:36	a76c0bc1d1865afc	30
1	run_end	03:03:36	a76c0bc1d1865afc	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	2026-10-12T03:03:38.662446+00:00
Algorithm	RSA-PSS-SHA256, 4096-bit key
Key fingerprint	eeac81653cf44ac029c4069cf2a06d9f
Data hash	e15452906712e25f123d564364ce8308adeef09a3eaa242cb94fc3016042e61b
Code bundle hash	72fa046766e9d7f9d5970b4fdf32ee6cba76bb236290735637375e5d2198db33

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=0.524288 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.580331'

Metric	Value	Step	Line	Source
phi	0.524288	0	1	explicit
phi_bam	0.580331	0	2	explicit
phi_bmq	0.785655	0	3	explicit
phi_boz	0.380148	0	4	explicit
phi_dtm	0.606802	0	5	explicit
phi_ful	0.515136	0	6	explicit
phi_mey	0.334913	0	7	explicit
phi_mku	0.416787	0	8	explicit
phi_kao	0.875303	0	9	explicit
phi_myk	0.317416	0	10	explicit
phi_ses	0.441342	0	11	explicit
phi_spp	0.408253	0	12	explicit
phi_snk	0.466966	0	13	explicit
phi_taq	0.686685	0	14	explicit

B Provenance timeline and activity map

Run 1: echo 'KVERITAS_METRIC name=phi value=0.524288 step=0'; echo 'KVERITAS_METRIC name=phi_bam value=0.580331'

#	Snapshot	Time	Root	Changed
0	run_start	03:03:36	a76c0bc1d1865afc	30
1	run_end	03:03:36	a76c0bc1d1865afc	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 2026-10-12T03:03:36

metric_hash 255b630fa803b36ddb99fc69d341d2eebe0d64bf00f58f932499cf35a1bfc9
run_digest 9e750ea4da0686d054d828fb1e3e217f5f15e253e04ac952f46a16cc1a36ece0
anchored at run end

D Raw seal fields and hashes

Seal

data_hash e15452906712e25f123d564364ce8308adeef09a3eaa242cb94fc3016042e61b
signed_message_hash c2995cd9ae1e0b284875201cbd088598be837b7fc3e29037c7a5b19feb59f041
nonce dd76de82d3ed43ef0a04fdd1c37a776c
signed_at 2026-10-12T03:03:38.662446+00:00
sealed_at 2026-10-12T03:03:38.694133203Z
checkout_bundle 72fa046766e9d7f9d5970b4fdf32ee6cba76bb236290735637375e5d2198db33

Signature (base64)

RXTiU39MCj+KtB8SHI08U0wkPEgv5k0CkxKjYSAZz8VftuWUcivJm6m8pBm580Bl41HfaZoUssek4mDPnSd3eS
p2avpm/Qsw/ME6xr7N7ndICGt0T9DPNBtotcuB6YT7CP101QF3ENpjICQpWEwVEBvfm0G9urKf3uckcZYprZKfr
63mmfCYdfeMExqoTsx3Mj/v7tG9P4p3AYGj58ye0J10wv5WtbMs+dhtYyaKtEnz8KqV/T/XnT1UJlW0aWi5FSUCH
09KSY0yz5qpnZ+AyHXv7+JtmQML3Lw/0pI lOkHmjVhV+k/UqrPegk5Cvey9MVTf8WshKDgDzZEEYIw9Gx0XwvuXm
ZF5Et6swplzq9tiM9dPC2ACKP81v1W0LjAQkK3I6kivY0gEUNa6W2c7Yc1Wzr6QAIqfTSfm0TRbcSbtR9jr8BdOI
NP1wxPgNs0LDUNJGqCDFKXXDmAmIwK1ShnB50WZp3sIa/QcX7S5K6XMDUc+uQ+w9r3Pv4KldkEAa4fK10Htazjy
fUzNttXiBw8lx0m0Q0oh0I7mrYyBpiivVudWjJ0ub8BhSZXnML3BCik7BOXEwhs7ZGkIQfFfGVW77JZQ1z0wJm0V
VQodiYr2JFWpVJafAQKrI t0GXFv+qAleobUcLqQYXovTU8DLGkuZN7DtQRegHclgHI=

Public key

-----BEGIN PUBLIC KEY-----
MIICIjANBgqhkiG9w0BAQEFAAOCAG8AMIICCGKCAgEA1QL3YyMgeShx8IhTC7jb
sM0w2BnRXgsBn3+SMXKjtwHATqdekmlPlcjayJxD5fcPrOPPCqp/LoUFz5CUZzRi
6+8FTv70dHuIz5A4Lat4vcgwP+iWscPc3HzpmjpsKbTm0emqgp6RB6GNNPpxYa5X
7qU95EfEisX/GfoS9ToxtqPBwCcVWSPBX8efeC4TC58m96Fsp4mC8KICeadbIbHN
av0JjdTJ//CMOWZSIbdzE6qvEbNFCqPB5tNU7oHfYvBeNLrvPU9TAqdbtozdHq+D
AhfTRuJNgWEkjWd5lb0Vhi4qlkweS0EMTKT3ye9I l5xEaJn4bku4eKqeS7VSZt3o
XbUcmr2H5mKcKsvt6bXmX6ajAmgi900Cm9QJlaQkJM6z2iITnyvDMgueJtFxQpC9
HNBPGpZ242NH8JgE6CNF7ToL9syasS67u7UMgIcNgeNHNCy9bLgpU5annzP9gN2l
6HEMLdkXNdKQRb1rDwyEJf3N/50YHnXXPmuf5sb8R/pxWNqtF04R5UGVV92qd2Mi
1GN7LE3mbQRbPsLL/JapDXMNzNikaFfBsQK7iKxr7vIaTeZckFZwfThcYNT7Hasg
+eE4bf/olCHBCf1VIDCKdxohehdZ0WRRcgM9iK3I/0zZdaBsgdc8WuJRMb8LPP9v
8Jap/1PwjNcNku5cdW3gHLCCAWEAAQ==
-----END PUBLIC KEY-----

Run 1 outputs

```
stdout 255b630fa803b36ddb99fc69d341d2eebe0d64bf00f58f932499cf35a1bfc9
stderr e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
metrics 255b630fa803b36ddb99fc69d341d2eebe0d64bf00f58f932499cf35a1bfc9
digest 9e750ea4da0686d054d828fb1e3e217f5f15e253e04ac952f46a16cc1a36ece0
```

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},
}
```