

Sealed Experiment Record

Sealed 2026-10-11 · Signed by the K-Veritas server
Session 37f0a7f9 · Data hash f105...4ec8

Abstract

This record seals 1 run (kv_run.sh) executed on Intel(R) Xeon(R) W-2145 CPU @ 3.70GHz between 2026-10-11 22:08 and 23:24 UTC. Reported results: mnist_final_mean_bin_loss 0.118766, mnist_final_bin0_loss 0.110813, mnist_final_bin5_loss 0.095862, mnist_final_bin9_loss 0.187066. 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	37f0a7f9-f8de-4849-8a3e-5f0fc9db6040
Initialized	2026-10-11T22:08:09Z
Machine	167ec0d6dc9a8170
Operating system	linux / amd64
CPU	Intel(R) Xeon(R) W-2145 CPU @ 3.70GHz, 16 cores
Memory	31.0 GB
GPU	NVIDIA GeForce RTX 5060 Ti, 16311 MiB
Environment, run 1	030a36fbed450bf92da1d94eedd31c54313b53c1861f23f736bd89eb8eeb9dd5
Disclosure	open
Source code, run 1	7722c69feb030f3385683d501249526013a529874e9420c10c85308ba33245d8

2 Runs

#	Command	Duration	Exit	Anchored
1	bash kv_run.sh	1 hours 16 minutes	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: kv_run.sh

Metric	Final value	Step	Source
mnist_mean_bin_loss	0.118766	99 (100 readings)	explicit

Inline claim	Value	Phase	Output line
mnist_final_mean_bin_loss	0.118766		1203
mnist_final_bin0_loss	0.110813		1204
mnist_final_bin5_loss	0.095862		1205
mnist_final_bin9_loss	0.187066		1206

4 Execution evidence

Coherence

Coherent (0.25): the telemetry channels move together, as one process.

Telemetry

Run	Samples	CPU time	Peak memory	Peak GPU
1	7200	4621.6 s	1.85 GB	75%

5 Provenance

Run 1: kv_run.sh

Disclosure open. 10 tracked files, 3 snapshots. Every snapshot is bound into the signature.

#	Snapshot	Time	Root	Changed
0	run_start	22:08:10	fdf8f0622f13abc6	10
2	run_end	23:24:32	fdf8f0622f13abc6	0

1 snapshot with no file change omitted here; full timeline in Appendix B.

Activity: 13 files read, 200 files written, 4 subprocesses. Full list in Appendix B.

6 Verification

Field	Value
Signer	Signed by the K-Veritas server
Signed at	2026-10-11T23:24:35.531830+00:00
Algorithm	RSA-PSS-SHA256, 4096-bit key
Key fingerprint	eeac81653cf44ac029c4069cf2a06d9f
Data hash	f105ddf31520ef52e26955ad38d44cd2e732a78685afe112c514b19c80474ec8
Code bundle hash	cdca2c46d5b235508c8ba4bbfcaa574fa38abf2915b92f1ce0582e6050c2fc85

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: kv_run.sh

Metric	Value	Step	Line	Source
mnist_mean_bin_loss	0.439572	0	1103	explicit
mnist_mean_bin_loss	0.20473	1	1104	explicit
mnist_mean_bin_loss	0.176144	2	1105	explicit
mnist_mean_bin_loss	0.163402	3	1106	explicit
mnist_mean_bin_loss	0.157912	4	1107	explicit
mnist_mean_bin_loss	0.153129	5	1108	explicit
mnist_mean_bin_loss	0.149739	6	1109	explicit
mnist_mean_bin_loss	0.147172	7	1110	explicit
mnist_mean_bin_loss	0.145093	8	1111	explicit
mnist_mean_bin_loss	0.142901	9	1112	explicit
mnist_mean_bin_loss	0.141251	10	1113	explicit
mnist_mean_bin_loss	0.140182	11	1114	explicit
mnist_mean_bin_loss	0.138737	12	1115	explicit
mnist_mean_bin_loss	0.137753	13	1116	explicit
mnist_mean_bin_loss	0.137091	14	1117	explicit
mnist_mean_bin_loss	0.135328	15	1118	explicit
mnist_mean_bin_loss	0.134318	16	1119	explicit
mnist_mean_bin_loss	0.134762	17	1120	explicit
mnist_mean_bin_loss	0.133386	18	1121	explicit
mnist_mean_bin_loss	0.132929	19	1122	explicit
mnist_mean_bin_loss	0.131909	20	1123	explicit
mnist_mean_bin_loss	0.131403	21	1124	explicit
mnist_mean_bin_loss	0.130965	22	1125	explicit
mnist_mean_bin_loss	0.13126	23	1126	explicit
mnist_mean_bin_loss	0.130234	24	1127	explicit
mnist_mean_bin_loss	0.129527	25	1128	explicit
mnist_mean_bin_loss	0.129893	26	1129	explicit
mnist_mean_bin_loss	0.128644	27	1130	explicit
mnist_mean_bin_loss	0.128693	28	1131	explicit
mnist_mean_bin_loss	0.127892	29	1132	explicit
mnist_mean_bin_loss	0.128291	30	1133	explicit
mnist_mean_bin_loss	0.127193	31	1134	explicit
mnist_mean_bin_loss	0.127415	32	1135	explicit
mnist_mean_bin_loss	0.126381	33	1136	explicit
mnist_mean_bin_loss	0.126173	34	1137	explicit
mnist_mean_bin_loss	0.126579	35	1138	explicit
mnist_mean_bin_loss	0.126314	36	1139	explicit
mnist_mean_bin_loss	0.125578	37	1140	explicit
mnist_mean_bin_loss	0.125682	38	1141	explicit
mnist_mean_bin_loss	0.125475	39	1142	explicit
mnist_mean_bin_loss	0.125316	40	1143	explicit
mnist_mean_bin_loss	0.125077	41	1144	explicit
mnist_mean_bin_loss	0.125465	42	1145	explicit
mnist_mean_bin_loss	0.124559	43	1146	explicit

Metric	Value	Step	Line	Source
mnist_mean_bin_loss	0.125175	44	1147	explicit
mnist_mean_bin_loss	0.123746	45	1148	explicit
mnist_mean_bin_loss	0.123702	46	1149	explicit
mnist_mean_bin_loss	0.123438	47	1150	explicit
mnist_mean_bin_loss	0.124117	48	1151	explicit
mnist_mean_bin_loss	0.12362	49	1152	explicit
mnist_mean_bin_loss	0.123542	50	1153	explicit
mnist_mean_bin_loss	0.123451	51	1154	explicit
mnist_mean_bin_loss	0.123114	52	1155	explicit
mnist_mean_bin_loss	0.123525	53	1156	explicit
mnist_mean_bin_loss	0.122819	54	1157	explicit
mnist_mean_bin_loss	0.122412	55	1158	explicit
mnist_mean_bin_loss	0.122654	56	1159	explicit
mnist_mean_bin_loss	0.1224	57	1160	explicit
mnist_mean_bin_loss	0.122359	58	1161	explicit
mnist_mean_bin_loss	0.122423	59	1162	explicit
mnist_mean_bin_loss	0.121978	60	1163	explicit
mnist_mean_bin_loss	0.122575	61	1164	explicit
mnist_mean_bin_loss	0.121523	62	1165	explicit
mnist_mean_bin_loss	0.121689	63	1166	explicit
mnist_mean_bin_loss	0.121374	64	1167	explicit
mnist_mean_bin_loss	0.121576	65	1168	explicit
mnist_mean_bin_loss	0.121012	66	1169	explicit
mnist_mean_bin_loss	0.121288	67	1170	explicit
mnist_mean_bin_loss	0.121452	68	1171	explicit
mnist_mean_bin_loss	0.121054	69	1172	explicit
mnist_mean_bin_loss	0.1215	70	1173	explicit
mnist_mean_bin_loss	0.121087	71	1174	explicit
mnist_mean_bin_loss	0.120735	72	1175	explicit
mnist_mean_bin_loss	0.120861	73	1176	explicit
mnist_mean_bin_loss	0.120615	74	1177	explicit
mnist_mean_bin_loss	0.120232	75	1178	explicit
mnist_mean_bin_loss	0.120302	76	1179	explicit
mnist_mean_bin_loss	0.120351	77	1180	explicit
mnist_mean_bin_loss	0.119997	78	1181	explicit
mnist_mean_bin_loss	0.120272	79	1182	explicit
mnist_mean_bin_loss	0.1209	80	1183	explicit
mnist_mean_bin_loss	0.119628	81	1184	explicit
mnist_mean_bin_loss	0.120115	82	1185	explicit
mnist_mean_bin_loss	0.119732	83	1186	explicit
mnist_mean_bin_loss	0.119437	84	1187	explicit
mnist_mean_bin_loss	0.120279	85	1188	explicit
mnist_mean_bin_loss	0.120097	86	1189	explicit
mnist_mean_bin_loss	0.11992	87	1190	explicit
mnist_mean_bin_loss	0.119416	88	1191	explicit
mnist_mean_bin_loss	0.119541	89	1192	explicit
mnist_mean_bin_loss	0.118957	90	1193	explicit
mnist_mean_bin_loss	0.119655	91	1194	explicit
mnist_mean_bin_loss	0.119838	92	1195	explicit
mnist_mean_bin_loss	0.119051	93	1196	explicit

Metric	Value	Step	Line	Source
mnist_mean_bin_loss	0.119072	94	1197	explicit
mnist_mean_bin_loss	0.119162	95	1198	explicit
mnist_mean_bin_loss	0.11906	96	1199	explicit
mnist_mean_bin_loss	0.119507	97	1200	explicit
mnist_mean_bin_loss	0.11959	98	1201	explicit
mnist_mean_bin_loss	0.118766	99	1202	explicit

Phase	Line	Time	CPU time	Memory	GPU
mnist	1	22:08:10	1.3 s	0.46 GB	

B Provenance timeline and activity map

Run 1: kv_run.sh

#	Snapshot	Time	Root	Changed
0	run_start	22:08:10	fdf8f0622f13abc6	10
1	phase mnist	22:08:10	fdf8f0622f13abc6	0
2	run_end	23:24:32	fdf8f0622f13abc6	0

Event	Path or command	Hash
read	kv_run.sh	
read	rf.py	
read	.kveritasignore	
read	advanced/download.sh	
read	advanced/inference/inference_example.ipynb	
read	advanced/inference/inference_t2i_example.ipynb	
read	advanced/inference/inference_t2i_example_highres.ipynb	
read	advanced/main_t2i.py	
read	advanced/mmdit.py	
read	advanced/run_multi.sh	
read	dit.py	
read	data/MNIST/raw/train-images-idx3-ubyte	
read	data/MNIST/raw/train-labels-idx1-ubyte	
write	contents/sample_0.gif	9f5d2813b290c12a
write	contents/sample_0_last.png	df6bba0863f94680
write	contents/sample_1.gif	8c614e2283ef1cd6
write	contents/sample_1_last.png	84e56f6adaa3ffc0
write	contents/sample_2.gif	5780b2648323cf42
write	contents/sample_2_last.png	e8cfee0ec2ab10a0
write	contents/sample_3.gif	138a8061dda30dbc
write	contents/sample_3_last.png	8b7ef49ac5b8c52c
write	contents/sample_4.gif	16bf052d83db3f5b
write	contents/sample_4_last.png	5a62c2f42a33b52f
write	contents/sample_5.gif	d2907c64f47c9234
write	contents/sample_5_last.png	eb6cb6d39c480bb8
write	contents/sample_6.gif	e9ad45fd27e0038f
write	contents/sample_6_last.png	3588f268045fa0e7
write	contents/sample_7.gif	746bea8c480fbecf
write	contents/sample_7_last.png	3ec266fe9c4084f6
write	contents/sample_8.gif	7d46556328d7884d

Event	Path or command	Hash
write	contents/sample_8_last.png	8cb0ff08efce5b58
write	contents/sample_9.gif	83c5f6b45f88aafe
write	contents/sample_9_last.png	9ba556ebf92d732a
write	contents/sample_10.gif	b82a1b5edb31d7fc
write	contents/sample_10_last.png	a68a03774fb3b9f0
write	contents/sample_11.gif	a82d2b142eae0685
write	contents/sample_11_last.png	9499724383bb61c7
write	contents/sample_12.gif	46402603bca78e53
write	contents/sample_12_last.png	adb0401df6e28373
write	contents/sample_13.gif	b9a7426d214e3854
write	contents/sample_13_last.png	53a9738e73fce05d
write	contents/sample_14.gif	42675ac6ce499416
write	contents/sample_14_last.png	da9713e7d43d9e1d
write	contents/sample_15.gif	2b9b679e54119637
write	contents/sample_15_last.png	1273309ba91e4d56
write	contents/sample_16.gif	d3c3da1f9efa0ffc
write	contents/sample_16_last.png	96bf6d50cb2bbb45
write	contents/sample_17.gif	6649d8da3b4a1b3f
write	contents/sample_17_last.png	c48e52e661136969
write	contents/sample_18.gif	d4f29931b2d11352
write	contents/sample_18_last.png	555976cefb1f99b1
write	contents/sample_19.gif	6a013fc55659b816
write	contents/sample_19_last.png	4178883e0a9782a1
write	contents/sample_20.gif	d61041ca06b5d665
write	contents/sample_20_last.png	7b5427a8756571b8
write	contents/sample_21.gif	ff1280d1bc997e80
write	contents/sample_21_last.png	4bc6c07ccf591e56
write	contents/sample_22.gif	f0b50a91ed18b260
write	contents/sample_22_last.png	6a70d03f3c340d64
write	contents/sample_23.gif	1724488bc5a712c9
write	contents/sample_23_last.png	f72bc9edfe06a9f9
write	contents/sample_24.gif	0b9d494d9ed07894
write	contents/sample_24_last.png	cc828039f292a027
write	contents/sample_25.gif	410e43b979fd64d1
write	contents/sample_25_last.png	3ebc7fe3ef15b923
write	contents/sample_26.gif	f9fe48b9ee10d09e
write	contents/sample_26_last.png	1f0dec0e69049608
write	contents/sample_27.gif	3fcf574b9797af4d
write	contents/sample_27_last.png	2009687caa906323
write	contents/sample_28.gif	6866980f1f33a0fe
write	contents/sample_28_last.png	ad3aba3c752f4e9e
write	contents/sample_29.gif	92a3bf421bbf3d62
write	contents/sample_29_last.png	cc376ed83d1c1af7
write	contents/sample_30.gif	50f415673a102ff0
write	contents/sample_30_last.png	a5124ee214a31372
write	contents/sample_31.gif	48d0be508589eaa9
write	contents/sample_31_last.png	95aead04f65afe88
write	contents/sample_32.gif	57d68e4b5d365ea5
write	contents/sample_32_last.png	be6a493f8c391fc0
write	contents/sample_33.gif	9638b67bef240668

Event	Path or command	Hash
write	contents/sample_33_last.png	4ad169266d768b64
write	contents/sample_34.gif	d83bac4b53dc1a7c
write	contents/sample_34_last.png	4af226edfc02101e
write	contents/sample_35.gif	9199fd04f1859766
write	contents/sample_35_last.png	31eb68a9ddcf75a1
write	contents/sample_36.gif	8c5fe4f07de1f6f6
write	contents/sample_36_last.png	9a147f3566865169
write	contents/sample_37.gif	cedd41edb6f2eb74
write	contents/sample_37_last.png	4a49b2b350884e3d
write	contents/sample_38.gif	3be88a8e7914bd11
write	contents/sample_38_last.png	8d2df7a472d3f561
write	contents/sample_39.gif	32843aa0304f3965
write	contents/sample_39_last.png	c173b76416a56bec
write	contents/sample_40.gif	3c4d39b33522f92b
write	contents/sample_40_last.png	9a357d184b9818a2
write	contents/sample_41.gif	80f38cd9b1d4376e
write	contents/sample_41_last.png	1e36d76010b0fe8c
write	contents/sample_42.gif	d10054635d1c8524
write	contents/sample_42_last.png	30035149f87ca172
write	contents/sample_43.gif	cb7cfc97f29271a4
write	contents/sample_43_last.png	f4c50b48cea92b2a
write	contents/sample_44.gif	d0b7e0cecf6311d
write	contents/sample_44_last.png	62bef56591bf40bf
write	contents/sample_45.gif	5241669cca11ca81
write	contents/sample_45_last.png	55154b69114f08ee
write	contents/sample_46.gif	cab2093c43f78273
write	contents/sample_46_last.png	efe7207f221108d8
write	contents/sample_47.gif	3862759c3abc75d2
write	contents/sample_47_last.png	8d5c75068fa00870
write	contents/sample_48.gif	69a145ee7d51ee67
write	contents/sample_48_last.png	ceb8e9cb0943257a
write	contents/sample_49.gif	153a2f7793bd8fb1
write	contents/sample_49_last.png	35facce68ac1129a
write	contents/sample_50.gif	7369d0e41db33035
write	contents/sample_50_last.png	9e7451abb5a81462
write	contents/sample_51.gif	729773da25c00798
write	contents/sample_51_last.png	8761debbe06c4958
write	contents/sample_52.gif	d7de5485685829bb
write	contents/sample_52_last.png	6a5d67f496613ce2
write	contents/sample_53.gif	040235ae6d76ed62
write	contents/sample_53_last.png	92eed55a6b7348de
write	contents/sample_54.gif	d2b21d26b8b102d7
write	contents/sample_54_last.png	1efe9e3988222c0d
write	contents/sample_55.gif	d0bbd041fa34e86d
write	contents/sample_55_last.png	395518bce685c653
write	contents/sample_56.gif	cf508015e09cc70
write	contents/sample_56_last.png	12fff0d63149d74b
write	contents/sample_57.gif	7d5fc734d7006c93
write	contents/sample_57_last.png	dd90b5bfbe481344
write	contents/sample_58.gif	5b4827d17019a35b

Event	Path or command	Hash
write	contents/sample_58_last.png	6eaa280d230a738f
write	contents/sample_59.gif	48620bba9ff5a1d2
write	contents/sample_59_last.png	7fc9a4d9ce895a2a
write	contents/sample_60.gif	68ca3e5f707236aa
write	contents/sample_60_last.png	74698803794b4be2
write	contents/sample_61.gif	100e4b154af750d1
write	contents/sample_61_last.png	6feefef124418f6e
write	contents/sample_62.gif	f3af393d87805b49
write	contents/sample_62_last.png	a320b78ad337b9a5
write	contents/sample_63.gif	e213fd059f4cf9bd
write	contents/sample_63_last.png	54f8e9b4df992ba6
write	contents/sample_64.gif	fae44d479dedda5a
write	contents/sample_64_last.png	845a737c0905c52a
write	contents/sample_65.gif	e39cec8e5755f0cc
write	contents/sample_65_last.png	fb252074dbc28fe0
write	contents/sample_66.gif	20f0675717c20814
write	contents/sample_66_last.png	4928552df93152c7
write	contents/sample_67.gif	74f527bb51dff432
write	contents/sample_67_last.png	48634b160cbe4bdb
write	contents/sample_68.gif	1e23c09cd12679b3
write	contents/sample_68_last.png	83a4d63ff047df26
write	contents/sample_69.gif	caf50b14f0ff4276
write	contents/sample_69_last.png	2b70fa6c9a49c355
write	contents/sample_70.gif	fb5d292849655a71
write	contents/sample_70_last.png	e3a9289b21b0372f
write	contents/sample_71.gif	3e4553be2f8c3991
write	contents/sample_71_last.png	dc80f1a690de5030
write	contents/sample_72.gif	f35f2a4a6acda334
write	contents/sample_72_last.png	9041e8beec6137f6
write	contents/sample_73.gif	674ae9c9a1f698c9
write	contents/sample_73_last.png	82ad637201368302
write	contents/sample_74.gif	2a8875c2b1ed2f00
write	contents/sample_74_last.png	a736577e3fb45012
write	contents/sample_75.gif	fdee26e702b0c913
write	contents/sample_75_last.png	0bed6664f4857597
write	contents/sample_76.gif	7ba822f57aee3e20
write	contents/sample_76_last.png	474f339f50d06b62
write	contents/sample_77.gif	840bc97ed5ff6572
write	contents/sample_77_last.png	119812e0723ed7ab
write	contents/sample_78.gif	ee5ac7ab787bddbc
write	contents/sample_78_last.png	cd409dd83f0cc381
write	contents/sample_79.gif	85bb2fa1eacf4a93
write	contents/sample_79_last.png	0b9413f796784013
write	contents/sample_80.gif	4068ef8c43075f2b
write	contents/sample_80_last.png	e01fd08f1d046794
write	contents/sample_81.gif	ac8257b1a9984960
write	contents/sample_81_last.png	77043d10b09fccf8
write	contents/sample_82.gif	fb538426ad2ba29
write	contents/sample_82_last.png	6c4b0e92ac341904
write	contents/sample_83.gif	6e404828eb87f143

Event	Path or command	Hash
write	contents/sample_83_last.png	fd2c432560b77f9f
write	contents/sample_84.gif	baed15b6044bd4ec
write	contents/sample_84_last.png	fe44a4dc56d0dcfd
write	contents/sample_85.gif	b71b9a36cfc802d5
write	contents/sample_85_last.png	b749710c29c29e6a
write	contents/sample_86.gif	2cb57386c6b0abc3
write	contents/sample_86_last.png	ebd315edbd9758e0
write	contents/sample_87.gif	171febcd2d37f0a14
write	contents/sample_87_last.png	8fb7797e89465312
write	contents/sample_88.gif	e2835e5310b0b767
write	contents/sample_88_last.png	2348fd266f53b955
write	contents/sample_89.gif	d9440c2fbd7ae992
write	contents/sample_89_last.png	f007bea23235694a
write	contents/sample_90.gif	e75723172a12ecd8
write	contents/sample_90_last.png	e20c9174a7f6960d
write	contents/sample_91.gif	5004617c79235a3f
write	contents/sample_91_last.png	f190174d6d4bc66b
write	contents/sample_92.gif	a7e0015946768b9e
write	contents/sample_92_last.png	b431b8653cae26e3
write	contents/sample_93.gif	088091e8c09fe8b1
write	contents/sample_93_last.png	8217bdaaf123df1d
write	contents/sample_94.gif	4fd117cd6e5840bb
write	contents/sample_94_last.png	622bc027bbc65c5d
write	contents/sample_95.gif	cd73bc2ce6846cfc
write	contents/sample_95_last.png	2e3c44263794759f
write	contents/sample_96.gif	6ffaa5312de94ee0
write	contents/sample_96_last.png	a80082e305f76ad5
write	contents/sample_97.gif	9aa04145b0d085cc
write	contents/sample_97_last.png	4376f40df61e6335
write	contents/sample_98.gif	ee9bebb0621044e5
write	contents/sample_98_last.png	09ea38fb5b328695
write	contents/sample_99.gif	c2ecfc5ab4425f37
write	contents/sample_99_last.png	281470295d17441e
process	grep -v it/s)\s/it)\^[0-9]*it \[	
process	tee /var/tmp/kv-repro/046-cloneofsimo-minRF/data/mnist.log	
process	tr \r \n	
process	python rf.py	

C Run history

Invocation 1, OK, 1 hours 16 minutes, 1206 output lines, started 2026-10-11T22:08:09

```
metric_hash 232d0dd64f0e39b86898bec8acfc94b82b99f14487fd97d83df93fd91a0c13f4
run_digest  265ba06a29bddaf1f2b8f4bbbab9410a45b6091e0b3af5fcd0f5b3fd021ff607
anchored    at run end
```

D Raw seal fields and hashes

Seal

```
data_hash      f105ddf31520ef52e26955ad38d44cd2e732a78685afe112c514b19c80474ec8
signed_message_hash f0cf7bfb93372a2d1c3614773c99290eca4d65d0547bd8190b28e6ae8fd8bce0
nonce         f79fc85dcb40b3eb9817176ce21e1181
signed_at     2026-10-11T23:24:35.531830+00:00
sealed_at     2026-10-11T23:24:35.595149364Z
checkout_bundle cdca2c46d5b235508c8ba4bbfcaa574fa38abf2915b92f1ce0582e6050c2fc85
```

Signature (base64)

```
hBB+uKJiDIZJLf5au+hExSBuVaxnHRMyia6YFbyGz2BKd8TCux0BwuXuPk0LEiu4UX0QFLxsGygkGiA5dNSRqn0m
WRWhYDZvv/NzY6suu92yJuTMBXtIDuW6lKpDUHfiZpihHcGvZSMHrvNLx2AEzfGsp6+EOKmokx4W00+yZAvFGrb
q0fh0zyM8HiWo5hbCrCS0NXGMA02Lo0rciH1cg3IWLoE60GsK1PI0kxTJn5LZ+rWCcGiBXigvtcfEenU8k1m5XL
0WEtYlPLVpjCj3B6jRsviRgG3N6SnYAkMY+L1gID5Kq89U9+9Xa6yMv8XYSCRHQDqydfHnaY9CV8YxykEX1MeavM
JCRw5gkcrd8Ht0eATcPyhWALEybLvuTt1itKl9hTtc+3TA0qzJaLC507CJ0VnLX2QLoaErhsxF/pt0IJBZ3bhoTK
Wu9LJ6Ylab0KJZI5uRBEWAd6KXButseE5N7pjqhce9kZ4q2+oZmIiaLSiNM7tgtBvy+5FbDuCqoT9HUZyeGEqRBI
e6BAbT6BukyPEOHjJxko1Jve2pxbAuDPENeYvDUWL+uRuyEvroj9n71ekBVh5Lo/jqHuIF5f/C220ntzSyVpaIiG
Lh0lihu4cG12ZuIQj1wMSsXZmyYopvZngmHCSKltBZkIeLR41KMJcGhML3+nWVSpN58=
```

Public key

```
-----BEGIN PUBLIC KEY-----
MIICIjANBgkqhkiG9w0BAQEFAAOCAg8AMIICCgKCAgEA1QL3YyMgeShx8IhTC7jb
sM0w2BnRXgsBn3+SMXKjtwHATqdekmlPlcjayJxD5fcProPPCqp/LouFz5CUZzRi
6+8FTv70dHuIz5A4LAT4vcgwP+iWscPc3HzpmjpsKbTm0emqgp6RB6GNNpXyA5X
7qU95EFEEisX/GfoS9ToXtqPBwCcVWSPBX8efec4TC58m96Fsp4mC8KICeAdbIbHN
av0JjdTJ//CM0WZSIbdzE6qvEbNfcqDB5tNU7oHfYvBeNLrvPU9TAqdbtozdHQ+D
AhfTRuJNgWEkjwD5lb0Vhi4qlkweSOEMTKT3ye9IL5xEaJn4bku4eKqeS7VSZt3o
XbUcmr2H5mKcKsvt6bXmX6ajAmgi900Cm9QJlaQkJM6z2iITnyvDMgueJtFxQpC9
HNBPGpZ242NH8JgE6CNF7ToL9syasS67u7UMgIcNgeNHnCy9bLgPU5annzP9gN2l
6HEMldkXNdKQRb1rDwyEJf3N/50YHnXXPmuf5sb8R/pxWNqtF04R5UGVV92qd2Mi
1GN7lE3mbQRbPsLL/JapDXMNzNikaFfBsQK7iKxr7vIaTeZckFZWfThcYNT7Hasg
+eE4bf/olCHBCf1VIDCkDxohehdZ0WRRcgM9iK3I/0zZdaBsgdc8WuJRmb8LPP9v
8Jap/1PWjNcNku5cdW3gHLcCAwEAAQ==
-----END PUBLIC KEY-----
```

Run 1 outputs

```
stdout 31a588515b39a1ce2ddd6d79ae1dd84d82d02fa04b1497d8cb0992fa2ab21fff
stderr e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
metrics 232d0dd64f0e39b86898bec8acfc94b82b99f14487fd97d83df93fd91a0c13f4
digest 265ba06a29bddaf1f2b8f4bbbab9410a45b6091e0b3af5fcd0f5b3fd021ff607
kv_run.sh (unchanged)
pre 0d31d10948a8cc1ed58ecd1e9cea7bfc62210321d283f28de50e56f051556525
post 0d31d10948a8cc1ed58ecd1e9cea7bfc62210321d283f28de50e56f051556525
```

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},
}
```