LATTIFORM

Nonlinear Solver Verification Report

Quasi-static finite-deformation solid mechanics on Lattiform's nodal HEXA8 route after V6: the element operator, eight constitutive laws, arc-length continuation through structural limit points with contact and the mixed element, contact with friction, self-contact and analytic curved obstacles, an inf–sup-stable pressure space, checkpoint/resume, the packaged Metal backend, the product route, robustness and performance.

PASS — 1045 rows PASS, 7847 gates evaluated, 0 FAIL · 0 PARTIAL · 0 NOT_RUN

Campaign	lattiform_fea_nonlinear_solver_vv_v6 (V6 · contract revision 11)
Run	20260924T184015Z
Code under test	fc9cc04b3a49 on fea-nonlinear-v6-integration (V5.1 pin 62ab7eab + the V6 work; see Scope)
Pinned object	fc9cc04b3a49acbf · tag fea-nonlinear-v6-20260924T184015Z
Acceptance SHA-256	7db60816092a303f77bba3ed05a167ec7ad5e264820071cfd9d4ea9783362dfd
Outcome	1045 PASS · 0 FAIL · 0 PARTIAL · 26 SUPERSEDED · 1 NOT SUPPORTED · 7886 gates (7847 evaluated, 39 superseded, 0 NOT_RUN)
Largest solved	256,000 elements
Device	Apple M5 Pro · macOS 26.5 (—)
Validation status	NOT_VALIDATED — no physical measurement was taken

This report describes one solver route under one stated scope. Every number in it was read from machine-generated evidence in the run directory named above. Acceptance thresholds are Lattiform release criteria frozen before the run. No physical measurement was taken, so no physical validation is claimed. Nothing here is a certification by ASME, NAFEMS or any other standards body, and no equivalence to ANSYS, NASTRAN or another commercial code is claimed or implied.

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Executive summary

This is the verification record of Lattiform's nonlinear solid solver as it stands after V6: every V5 lane re-run on the V6 code, and lane 11, which verifies each V6 closure of a V5.1 weakness — the inf–sup-stable pressure space, arc-length through structural limit points and with contact and the mixed element on the device, multiplicative J_2, finite viscoelasticity and fibre anisotropy, checkpoint/resume, self-contact numerics, analytic curved obstacles against Hertz, origin invariance on every import route, the STEP helper and corpus, the scale ladder and the whole package suite — solved on the Double CPU reference route and on the packaged Metal backend. It follows ASME V&V 10-2019 (R2025) in separating CODE verification (the equations are solved correctly: exact mathematics, independent implementations, closed forms) from SOLUTION verification (discretisation, step and tolerance error by refinement), and it labels backend agreement DIFFERENTIAL — never validation. It matches the structure of the linear FEA Preview Solver Verification Report V4: frozen contract, pinned source, per-lane evidence, case and gate ledgers, and a claims manifest checked mechanically against the evidence.

> NOT_VALIDATED. No comparison with physical measurement exists; nothing here claims the solver predicts reality. No certification by ASME, NAFEMS or Sandia is claimed, and no equivalence to any commercial code is claimed, implied or measured.

Table 1.1 — lane summary. Status is FAIL if any row failed and PARTIAL if any gate did not run. SUPERSEDED rows are historical rows (V4's, changed by NL-6; V5 run 3's, changed by contract revision 4; V5 rows or gates whose premise V6 removed, contract revisions 7 and 8), each with a passing replacement named in the frozen contract.

Lane	Experiment	Rows	Gates	Evaluated	Superseded	Not supp.	NOT_RUN	Status
0	Reconciliation, supersession, defect A/Bs, regressions	15	51	51	0	0	0	PASS
1	Element operator at random finite-strain states	202	2393	2393	0	0	0	PASS
2	Constitutive laws: closed forms, J_2 cyclic paths, checkpoints	91	703	703	0	0	0	PASS
3	Geometric nonlinearity: manufactured solution, elastica, large strain, step and tolerance convergence	20	78	74	1	0	0	PASS
4	Arc-length continuation and limit points	16	58	54	2	0	0	PASS
5	Contact, friction, self-contact, origin invariance	31	87	84	2	0	0	PASS
6	Incompressibility: mixed u–p, inf–sup, stability map	286	619	613	3	0	0	PASS
7	Metal / CPU-Double differential (DIFFERENTIAL, not validation)	259	3357	3355	2	0	0	PASS
8	The product route, end to end	58	203	183	16	0	0	PASS
9	Robustness: typed refusals	29	93	93	0	0	0	PASS
10	Performance ladders (measured, never gated on speed)	18	100	100	0	0	0	PASS
11	The V6 closures	47	144	144	0	1	0	PASS

Rows	1072 · PASS 1045 · FAIL 0 · PARTIAL 0 · SUPERSEDED 26 · NOT_SUPPORTED 1
Gates	7886 · evaluated 7847 (passed 7847, failed 0) · superseded 39 · NOT_RUN 0

Outcome classes	DIFFERENTIAL_AGREEMENT 259 · EXPECTED_REFUSAL 160 · KNOWN_LIMITATION_CONFIRMED 28 · NOT_SUPPORTED 1 · PERFORMANCE_MEASURED 21 · RECONCILED 9 · ROBUSTNESS 2 · SUPERSEDED 27 · VERIFIED_OPERATOR 269 · VERIFIED_SOLVE 296
Evidence classes	DIFFERENTIAL 261 · PERFORMANCE 31 · REGRESSION 1 · ROBUSTNESS 161 · SCOPE 6 · SOLUTION 17 · VERIFICATION 595
Claims	27 supported by passing evidence · 0 not
Convergence studies	17
Performance samples	69
Differential seeds	256 retained · 256 solved on both backends · 256 met every gate · 0 FAIL

1.1 Headline results

- The 64×16×16 mixed rung V5 refused (PASS): solved on Metal in 90 augmentations and 270 Newton iterations, published residual 5.50e-11; Metal vs CPU on 16×4×4 0.
- Structural snap-through (PASS): a buckled clamped–pinned beam passes one limit point and snaps through on two meshes; limit load vs an independent elastica 6.000e-04 and 0.027 within the reference's conditioning bound 0.11.
- Self-contact (PASS): 110 Newton iterations on the slot (gate: V5 run 3's facet median, frozen in the contract), 1.59e-07 from the facet route; operator tangent vs central differences 3.57e-06.
- Hertz (PASS): a rigid analytic sphere on a block, centre pressure 0.0222 → 0.0175 from p_0 under refinement, load balance 1.80e-12.
- Checkpoint/resume: engine PASS (bitwise over 6 cases), product PASS.
- Import origin invariance on every route: 9 of 9 rows PASS, every one held to exactness at every offset.
- STEP corpus (PASS): 107 of 165 files accepted and meshed; the helper built from source differs from the release helper in 0 fields.
- Whole package suite (PASS): 5426 tests executed, 32 failures, 0 unexplained.
- DEFECT FIXED, A/B: the nonlinear route published zero stress at Gauss points 6 and 7 of every element on the unfixed NL-6 release build (archived log, A side = 1); on this pin the guard suite runs 3 tests with 0 failures. This is the cause of V4's mesh-independent 25 % stress-recovery gap, which V4 published as NOT PROVED.
- DEFECT FIXED, A/B (PASS): arc-length on the packaged Metal route refused in its first inner solve on the unfixed pin (archived row, A side = 1); on this pin the Krylov solves apply the route's Double reference tangent in flexible GMRES and Metal equals CPU to 1.80e-10.
- DEFECT FIXED, A/B (PASS), formerly open defect D02: on run 1's code the enhanced-mode local Newton refused 14 of 384 small-strain element states whose residual was at the arithmetic floor of the stress, and the CPU route refused lane 8's nine-mode Mooney–Rivlin study; on this pin the regression runs 2 tests with 0 failures and the CPU reference equals the packaged Metal product route to 4.73e-11.
- DEFECT FIXED, A/B (PASS), formerly open defect D01: on the V5 tag the same STL bar imported at a world offset was a different model (A side = 1; archived log); on this pin 30 origin rows, ASCII and binary from ±1 m to ±1,000 km: 28 import and solve to the reference model with worst displacement difference 0 (limit 1e-12, unchanged), 2 are refused by name, each where the file itself holds no solid; 30 PASS. Regression tests 6 run, 0 failures.
- DEFECT FIXED, A/B (PASS), formerly open defect D03: on the V5 tag lane 7's slot seeds 179 and 192 differed between Metal and CPU by 1.1270e-05 and 1.3960e-05 in support reaction (limit 1e-5, unchanged); with the averaged nodal master normal they differ by 2.842e-10 and 3.019e-10, and 19 of 19 self-contact seeds pass (worst 5.04e-10). Regression tests 6 run, 0 failures.

- Shared importer code, A/B on the same host (PASS): the whole test suite executed 3017 tests on the V5 tag and 3025 on this code, with 0 differences in the failing set beyond the two defect reproducers; of 77 import probes (a 68-file triangle-mesh corpus in every unit, plus synthetic parts, through the shared parser, the CFD importer and the FEA import with a linear and a nonlinear solve), the 73 the fix leaves untouched are bitwise identical (0 mismatches).
- Importer corpus, A/B on the same host (PASS): the pinned STEP corpus through the product import on the V5 tag and on this code — 165 and 165 files, 24 and 24 accepted, 0 per-file differences in outcome, stage, message, grid, active elements, element size, reader or advisories. Both sides use the same packaged CAD helper (the release helper, since the tag's own XDE helper sources do not compile); it refuses 141 and 141 files at its reader, before the mesh route, so only the accepted files exercise it.
- Manufactured solution (carried V4 lane C, six grids): after the fix the element-mean Cauchy stress converges at observed order 1.999 with finest relative error 9.361e-04; displacement order 2.005.
- Element operator: 197 rows over 12 law/element combinations at random finite-strain states; worst force gap to the independent Double element 2.29e-12, worst tangent-vs-central-difference 3.71e-10, worst Schur-complement gap 5.25e-10, worst objectivity 8.61e-14.
- Arc-length: the St-Venant–Kirchhoff limit point is passed with every point on the closed form to 4.54e-16; the located limit load is within 6.50e-05 of $E/(3\sqrt{3})$.
- Friction: the 49-anchor reversal converges to 1.0e-08 (V4: 1e-7) with cone violation 0.
- Origin invariance: the same frictional interface translated by up to 1,024 elements gives the same field to 5.57e-08 (slave-centred kinematics); the pre-NL-6 absolute kinematics, run as a witness, refused or differed at 5 of 5 translated offsets (5 refused), so the rows can see the defect NL-6 removed.
- Incompressibility: of 264 stability-map cases, 158 solved on the closed form and 106 refused by name; 0 published a wrong answer.
- Q1/P0 inf–sup: on the fully clamped cube the pressure has 16 spurious null mode(s) at the finest mesh and β_h decays at exponent 1.62 — the element's pressure is therefore NOT claimed reliable in general.
- Differential: 256 seeds across 13 feature families; 256 solved on both backends, 256 met every gate and 0 FAILED; worst displacement L2 1.98e-07. DIFFERENTIAL, not validation.

Scope, and what is not proved

Code under test	`branch fea-nonlinear-v6 (the V5.1 pin 62ab7eab plus the V6 work recorded in docs/fea-nonlinear-v6-2026-09-23.md: the locally jump-stabilised pressure space, the element-pass cache fix, field-specific diagnostics, the CAD helper built from the sources the release helper was built from, arc-length on the device with contact and the mixed element, preconditioned MINRES for symmetric arc-length systems and the arc-length arithmetic floor, multiplicative J2, finite viscoelasticity and fibre anisotropy, engine and product checkpoint/resume, the automatic multiplier update for averaged-normal contact, analytic curved rigid obstacles, per-node contact and mixed-pressure output, the part-local import frame on every route, and the physical-validation record/comparison infrastructure)`
Product route	`FEAStudySolver.solve -> FEAStudyNonlinearSolve -> StrengthHexa8NonlinearStaticSolver.solve`
Reference backend	`swift_double_cpu`
Device backend	`metal_resident_total_lagrangian (packaged metallibs, runtime source compilation forbidden)`

Formulation	`total Lagrangian HEXA8 on a regular axis-aligned grid; six (or nine) incompatible modes condensed; mixed Q1/P0 u-p element for the incompressible law`

Physics in scope

- St-Venant-Kirchhoff
- compressible Neo-Hookean
- compressible Mooney-Rivlin
- incompressible (isochoric) Mooney-Rivlin with element pressure
- J2 plasticity, additive Green-Lagrange split, linear + Voce hardening
- rigid-plane and body-to-body contact with Coulomb friction, self-contact
- load control and Crisfield cylindrical arc-length
- incompressible Mooney-Rivlin on the locally jump-stabilised pressure space (default) or Q1/P0
- J2 plasticity, multiplicative (Simo), neo-Hookean elasticity
- finite viscoelasticity (Holzapfel/Simo Prony series) with a load duration
- fibre-reinforced neo-Hookean (Holzapfel-Gasser-Ogden, one family, tension-only)
- analytic rigid sphere and cylinder obstacles (frictionless)
- Crisfield cylindrical arc-length with contact and the mixed element

Excluded, and NOT claimed

- physical validation (no experiment exists; the record/comparison infrastructure refuses every comparison without a measured record)
- dynamics, modal and eigenvalue buckling (declared NOT_SUPPORTED; a dynamic analysis name fails to decode)
- damage and strain softening (no regularisation on this grid)
- Coulomb friction on curved analytic obstacles (refused by name)
- Hertz-quality curved-on-curved contact between voxel bodies (a flat punch while the staircase step is wider than the contact; measured)
- origin invariance of the Float-only native 3DM reader (no 3DM writer exists to run a ladder; rebased as a float32 source and disclosed by the float32 advisory)
- arc-length with the FAS multigrid route (refused by name)

Capabilities declared NOT SUPPORTED

Row	Reason
l11_dynamics	No time integrator and no inertia term in the nonlinear route (the modal eigenproblem's mass matrix, since e1f96d5ef7, integrates nothing in time); the architecture is recorded in the V6 record §9.

Known limitations confirmed by measurement

A KNOWN_LIMITATION_CONFIRMED row is a PASS on a gate that says the limitation is REAL — it is evidence of a restriction, never of a capability.

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l3_neo_hookean_compression_0.7_fails_closed	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_symmetric_bifurcation_measured	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l4_arch_arc_increment_0.1	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_arc_increment_0.05	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_64_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_64_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_64	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_1024_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_1024	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_summary	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n2	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n3	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n4	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n5	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n6	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_summary_clamped	V6	PASS	KNOWN_LIMITATION_CONFIRMED	2	0	0
l6_infsup_cantilever_n2	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n3	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n4	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n5	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n6	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_summary_cantilever	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l11_compression_onset	V6	PASS	KNOWN_LIMITATION_CONFIRMED	3	0	0
l11_two_body_curved	V6	PASS	KNOWN_LIMITATION_CONFIRMED	3	0	0
l11_validation_infrastructure	V6	PASS	KNOWN_LIMITATION_CONFIRMED	2	0	0
v4:b1_the_limit_load_is_bracketed_from_below	V4 carried	PASS	KNOWN_LIMITATION_CONFIRMED	4	0	0
v4:l0_volumetric_locking_against_the_poisson_ratio	V4 carried	PASS	KNOWN_LIMITATION_CONFIRMED	7	0	0

Claims not classified PROVED

Claim	Classification	Status in this run	Statement
C14	KNOWN_LIMITATION	SUPPORTED	The Q1/P0 mixed element is not inf-sup stable: spurious pressure modes exist on enclosed meshes and beta_h decays with h. Its element pressures are NOT claimed reliable in general.
C16	DIFFERENTIAL	SUPPORTED	The packaged Metal route agrees with the Double CPU route, every gate met, over all 256 seeds spanning every law, element, contact kind, friction, self-contact, voids and arc-length. This verifies neither backend.
C19	MEASURED	SUPPORTED	Performance ladders are measured on one host; warm repeats are bitwise identical and answers agree with the CPU baseline. Speed is not claimed beyond these measurements.
C20	NOT_PROVED	NOT_PROVED	Physical validation. No experiment exists.

Claim	Classification	Status in this run	Statement
C28	KNOWN_LIMITATION	SUPPORTED	Measured limitation kept: curved-on-curved voxel contact is a flat punch until the staircase step is resolved. (Revision 11: the kernel STEP and native IGES origin limitations recorded here in revisions 7-10 are closed; their rows are now exact-at-every-offset rows under C27.)

Reproduction and raw evidence

One command reproduces the run from its pinned tag. Every lane runs in its own XCTest process in a fresh worktree at the pinned object; the acceptance contract is copied and hashed before anything runs; the report is generated from the evidence directory alone.

Reproduce	`git worktree add --detach <dir> fea-nonlinear-v6-20260924T184015Z && cd <dir> && zsh scripts/run_fea_nonlinear_v6.sh`
Evidence directory	`bench/results/fea_nonlinear_v6/20260924T184015Z`
Contract	`bench/fea_nonlinear_v6/acceptance-nlv6.json`
Contract SHA-256	`7db60816092a303f77bba3ed05a167ec7ad5e264820071cfd9d4ea9783362dfd`
Pinned object	`fc9cc04b3a49acbfbbc1ea9e4b1538c856c076ac`
Base commit	`fc9cc04b3a49acbfbbc1ea9e4b1538c856c076ac (fea-nonlinear-v6-integration)`
Product sources	`514 files · digest 32d67759486969ab99c023507aee0283e7a056643466729ef4dcab8ea4810a1f`
Pin note	—

Evidence files at report generation (the manifest written after the report covers the PDF too).

Evidence file	Size	SHA-256 (first 32 hex)
acceptance-nlv6.json	121.2 KiB	7db60816092a303f77bba3ed05a167ec…
acceptance-nlv6.sha256	65.0 B	85a7854ae4881712b9113b4429166976…
assemble.log	1.1 KiB	15960ae020093c3b43fd1e67864943e5…
cad-kernel-manifest.json	3.4 KiB	956c5a7dd19b3d86da084c5016818440…
case-ledger.csv	194.7 KiB	5af1128ce3da7fdee22aa3bab3c75ac5…
claims.csv	9.8 KiB	5404745f960ac569cb354019a2aab3dc…
convergence.csv	8.3 KiB	7a49d1f26d8f44e1040b2ba48409b2ed…
gate-ledger.csv	1.3 MiB	337c3f13220455ab6e3ab0c4dd941cbc…
git-status.txt	—	e3b0c44298fc1c149afbf4c8996fb924…
hardware.txt	842.0 B	2b175f4db58885693aa16fbd84e9557c…
host-memory-bytes.txt	12.0 B	e15b6050a0ee6ea43f29cb46cec0ddcc…
lane-1.json	960.4 KiB	618fb30d3319f276ad8537cb842df1f9…
lane-1.log	1.7 KiB	1e4819f95a5db35e109ad527751da260…
lane-10.json	222.3 KiB	f583cc3d1760745983b9fef9da62385d…
lane-10.log	1.7 KiB	9e759ce76b6b42f89c7d3007289017f5…
lane-11.json	72.3 KiB	105d7f71aa3bdbdbdbab5fb5975fac76…
lane-11.log	1.0 KiB	aacc5ad9304c7f2bc6376974fee9b932…
lane-2.json	272.8 KiB	9b11fee7376c4318fc88f1dec3fc887b…
lane-2.log	1.0 KiB	58546dc6ad2427e09cdfc9cec3076665…
lane-3.json	15.0 KiB	7f1438a7bbbc3b946055c28b03eb12f8…

Evidence file	Size	SHA-256 (first 32 hex)
lane-3.log	1.0 KiB	25628e2f9bb75c79ce12fc2d336c366d…
lane-4-paths.json	4.8 KiB	d3a2ae848fc59fe97f69ad055f513dcd…
lane-4.json	157.3 KiB	44bd795bb04a6015921777c099ff4acb…
lane-4.log	1.4 KiB	4b306da8f7296617858a8b93f41f8a5b…
lane-5.json	57.4 KiB	db219cd175c5a5e3cd1cb44358b0577d…
lane-5.log	1.0 KiB	f447a46eeaf0a1e1bd0da7ef1874ce8c…
lane-5w.json	8.5 KiB	bba7d0ed5b194335153e555d3ddba64d…
lane-5w.log	1.1 KiB	83131489d850320484609a4de735b0ee…
lane-6.json	504.4 KiB	d8944e6c1c59f5e4f89f1a7807344acf…
lane-6.log	1.7 KiB	694aeed19c81c5da26de6ddd6abe78bd…
lane-7-failed-seeds.json	4.0 B	ace810d7e2cbb4f8c40ce09dc8e191ae…
lane-7-seeds.json	246.1 KiB	f12ef20935b3561fbfb3df976928db0c…
lane-7.json	1.4 MiB	8603a9a1a3904f5d8daab4bd1ef52442…
lane-7.log	1.6 KiB	2ad947edc387a8d7c7f82ed9ffa878b7…
lane-8.json	93.3 KiB	1758a03ee83b90ed12c7ebf9808d6f61…
lane-8.log	1.0 KiB	354486297797ca2368d80b85a155423b…
lane-9.json	40.0 KiB	654259bbd54c52e85bbfac7d33ba5d2c…
lane-9.log	1.0 KiB	e09669951e7a8fdc153ae7b983149fdf…
macos-version.txt	63.0 B	5bb4c33199e7cd997461bc6c78bb13b6…
nonlinear-metallib-check.txt	502.0 B	e9aa76ed20c61f21284fa57b00fc64c6…
performance.csv	15.1 KiB	f84d0ba8739693274283f8c07d8e230b…
performance.json	82.1 KiB	c8e5929566079f9a7f4ced3f8af24f1b…
product-sources.list	33.8 KiB	5a8b2d784aeb9143486257b0c381a8ee…
product-sources.sha256	67.0 KiB	32d67759486969ab99c023507aee0283…
provenance.json	2.2 KiB	946080c7f467ee5ac8a08426dcdd4e29…
publication-gates.json	41.0 B	5fd1d71dc04113ce9fc42d67ab838cb0…
regression-arc-length-metal.log	1.1 KiB	218db07b743f7d0aac65d0cfd5042b40…
regression-enhanced-mode-floor.log	1.5 KiB	53daa942bdbeabc8d2391fc80d3e7511…
regression-gauss-point.log	398.0 KiB	5afeefadd1bdf7c95bb5b4605d2d9da9…
regression-import-origin.log	3.8 KiB	1bad16408e6f80ac98cfa9c441ab05e3…
regression-linear-guards.log	8.2 KiB	03da56966227b9cb4312baa403ed9f94…
regression-nl6.log	7.5 KiB	d009d759ebf73254d4110d00bb2360ec…
regression-nonlinear-units.log	143.1 KiB	eefdebd098ef46116d5c0d80a2a3848c…
regression-self-contact.log	3.5 KiB	c5e6a53f7a4bcd907927d740c838f141…
regressions.json	1.0 KiB	60c00663155616f020dbac18f1779bc9…
report.log	—	e3b0c44298fc1c149afbf4c8996fb924…
residual-history.csv	228.7 KiB	6a4744ed58a4605bc2e30df43f80d983…
summary.json	2.2 KiB	3795ce23a640d1987c3bfe7f2ad65426…
swift-version.txt	128.0 B	5fa4b669e41b23b9ad0760253d062493…
v6-arc.log	5.3 KiB	7bcc3de8ec73314d4251793a0373a36c…
v6-compression.log	3.6 KiB	8f9f115e3dc1e03a8e36cc2e3de65515…
v6-diagnostics.log	8.0 KiB	a8317027b802a212af95be4a7f399172…
v6-dynamics.log	1.3 KiB	bb5f8e9a988a50f668bcb157fb02c9af…
v6-full-suite-accounting.json	29.2 KiB	b4227511b4139de211e2f5022923e059…

Evidence file	Size	SHA-256 (first 32 hex)
v6-full-suite-excluded.log	—	e3b0c44298fc1c149afbf4c8996fb924…
v6-full-suite.log	2.5 MiB	75be555a0d47549f9d29d86c2ada7ee6…
v6-hertz.log	2.2 KiB	667a766482b3ee66033032f56e85fecf…
v6-j2.log	3.6 KiB	ba3d5375da524a1f7f0267024688cd66…
v6-ladder.jsonl	16.6 KiB	2c117e12519f71be400670f623c86520…
v6-ladder.log	2.5 KiB	1ada7a8f0974e893199122ca65429ce3…
v6-laws.log	2.9 KiB	30af2f3838964d98d90311dd2f490db1…
v6-origin.log	10.7 KiB	25b5b4c272b1e847fe9b97d7637c3d7c…
v6-outputs.log	1.9 KiB	9888ca9d3833fcc67249d3969bb2f156…
v6-pressure.log	12.0 KiB	04d4af5f16c328508a3b61a80c1ddf8d…
v6-restart-tangent.log	1.5 KiB	5f06c9464b056582d7b7f543db5f815b…
v6-resume-product.log	1.9 KiB	c2875753259b8d973404f5c04b47f6b0…
v6-resume.log	2.2 KiB	07e96b6af2a0edebcea29b566d34bf0d…
v6-self-contact-tangent.log	2.0 KiB	1533d529bbe036cdbed4a3988cb43860…
v6-self-contact.log	1.9 KiB	07c03e8141e7af51985e167e6e733ee0…
v6-snap.log	1.9 KiB	5782d12523aeb459ce995d4775f8ad46…
v6-step-corpus.json	146.0 B	0f870fde03dd6e0d040224c36d4c5d70…
v6-step-release.jsonl	322.8 KiB	fec54f05878cafd9f8688213eb429722…
v6-step-release.log	17.5 KiB	29044f01000180db8e272a46df462100…
v6-step-source.jsonl	322.8 KiB	f0786130daf51513e1589bea66e74bc0…
v6-step-source.log	17.5 KiB	26ff8655004a1a8c12cce40851866510…
v6-thin.log	1.8 KiB	2caebe23578f2b91f8d0ae5c4c8fc41e…
v6-two-body.log	2.1 KiB	1b94ef94a3ac0a2aadd7952f64dc9db7…
v6-validation.log	1.7 KiB	66a228f235c7704d6c71a1ce7afa0f39…
verification.json	4.0 MiB	1c0a7fb6af39115226696d844a1ecdb6…
worktree-add.log	4.0 KiB	63b5c580e82b3862378b24335cf5d005…

Methods and terminology

ASME V&V 10-2019 (R2025) for computational solid mechanics: code verification (exact mathematics, independent implementations), solution verification (refinement, iterative error), DIFFERENTIAL (backend agreement). VALIDATION — comparison with a physical measurement for an intended use — is not performed anywhere in this report: no measurement exists. A parameter range over which the code is verified is called VERIFIED, never validated. GUM (JCGM 100:2008) for the uncertainty vocabulary of the validation infrastructure.

A gate is EVALUATED (pass/fail), NOT_RUN, or SUPERSEDED (only when listed below with a passing replacement). A row is PASS only if every active gate executed and passed; any executed failing gate makes it FAIL; any NOT_RUN makes it PARTIAL. NOT_SUPPORTED rows carry no gates, are never PASS, and must be declared below. Global PASS requires zero FAIL, PARTIAL and NOT_RUN, every claim backed by PASS evidence, and every Metal row on the packaged library.

Every limit below is read at run time from this file by the harness; there is no second copy in Swift.

Outcome class	What a PASS on the row says
VERIFIED_OPERATOR	An operator (element, law) equals exact mathematics or an independent implementation.
VERIFIED_SOLVE	A solve reached a verified answer (closed form, identity, refinement, second route).
EXPECTED_REFUSAL	The route refused, typed and by name, where it must.
KNOWN_LIMITATION_ CONFIRMED	A stated limitation was measured to be real.
DIFFERENTIAL_AGREEMENT	Two Lattiform backends agree. Verifies neither.
PERFORMANCE_MEASURED	Timings recorded; the gates are on the answer, never on speed.
RECONCILED	Earlier evidence re-hashed or a regression suite re-run on this pin.
ROBUSTNESS	A fail-closed property holds across a family of cases.
SUPERSEDED	A historical row deliberately changed (by NL-6, by contract revision 4's fixes, or by V6 — contract revisions 7 and 8); its replacement passes. A historical FAIL keeps its failed gates, disposed of as superseded — it is never relabelled PASS.
NOT_SUPPORTED	A capability the route does not have; never a PASS.

The frozen acceptance contract

Every limit below is read by the harness from this file at run time; there is no second copy of a threshold in Swift. Revision history follows the tables. Numeric fixture parameters (seed roots, counts, fixture sizes) are listed with the gates of their lane.

Lane 0 — lane_0_reconciliation

Key	Cmp	Limit	Basis
a_side_reproduces_the_defect_required	==	1	The archived unfixed-build log must show zero stress at Gauss points 6 and 7.
b_side_failures_exact	==	0	The fix must make all three pass.
b_side_tests_run_min	>=	3	All three FEAGaussPointStressStorageTests run on this pin.
floor_a_side_reproduces_required	==	1	Revision 3. On run 1's code (unfixed): the archived log of FEAEnhancedModeArithmeticFloorTests shows element states refused and the element test failing, and run 1's archived lane-8 row shows the CPU reference refused by enhanced_modes_did_not_converge.
floor_b_side_failures_exact	==	0	Revision 3. And pass.
floor_b_side_lane_row_passes_required	==	1	Revision 3. Lane 8's nine-mode Mooney-Rivlin row (CPU engine reference against the packaged Metal product route, limits unchanged) passes on this pin.
floor_b_side_tests_run_min	>=	2	Revision 3. Both FEAEnhancedModeArithmeticFloorTests run on this pin.
import_origin_a_side_reproduces_required	==	1	Revision 4. On the V5 tag the D01 reproducer (FEAImportOriginInvarianceReproducerTests, tag APIs only) fails, with the ±1 m volume fractions differing and 704 active elements at ±10 m (archived log).
import_origin_b_side_failures_exact	==	0	Revision 4. And pass.
import_origin_b_side_lane_rows_pass_ required	==	1	Revision 4. Every lane-8 origin row passes on this pin (limits unchanged, ladder extended).
import_origin_b_side_tests_run_min	>=	5	Revision 4. The reproducer and the four FEAImportPartLocalFrameTests run on this pin.
linear_guard_suites_failures_exact	==	0	The fix must not change the linear route. Counted: failing tests of the suite NOT named in lane_11_v6.full_suite_explained_failures (a red of the code this pin sits on, A/B-confirmed, with its cause); a named red is published beside the count, never hidden, and a log whose failures cannot be named counts as unexplained.
linear_guard_suites_tests_run_min	>=	5	The linear-route suites that read the fixed storage.
metal_arc_a_side_reproduces_required	==	1	The archived row from the unfixed pin shows the Metal arc-length refusal in the inner solve.

Key	Cmp	Limit	Basis
metal_arc_b_side_failures_exact	==	0	and passes.
metal_arc_b_side_lane_row_passes_required	==	1	Lane 4's slender-cantilever CPU/Metal row passes on this pin.
metal_arc_b_side_tests_run_min	>=	1	The regression test runs on this pin.
nl6_suite_failures_exact	==	0	Regression. Counted: failing tests of the suite NOT named in lane_11_v6.full_suite_explained_failures (a red of the code this pin sits on, A/B-confirmed, with its cause); a named red is published beside the count, never hidden, and a log whose failures cannot be named counts as unexplained.
nl6_suite_tests_run_min	>=	17	NL-6 recorded 17 tests.
nonlinear_unit_suites_failures_exact	==	0	Regression. Counted: failing tests of the suite NOT named in lane_11_v6.full_suite_explained_failures (a red of the code this pin sits on, A/B-confirmed, with its cause); a named red is published beside the count, never hidden, and a log whose failures cannot be named counts as unexplained.
nonlinear_unit_suites_tests_run_min	>=	100	NL-6 recorded 339 run in FEANonlinear*/FEAStudy*/FEAPreviewArchitecture. Revision 3: counted as executed minus skipped (run 1's parser missed XCTest's 'N tests skipped and' totals line and read an inner suite's 52; the limit is unchanged).
run3_record_hash_matches_required	==	1	Revision 4. The carried copy of run 3's verification record has the SHA-256 run 3's evidence manifest lists (and the one frozen here).
run3_rows_all_found_required	==	1	Revision 4. Every run-3 row this revision changes is carried.
self_contact_a_side_reproduces_required	==	1	Revision 4. On the V5 tag the D03 reproducer (FEASelfContactFaceChoiceReproducerTests, tag APIs only) fails: seeds 179 and 192 above 1e-5 Metal vs CPU and a CPU load-path pair above 1e-5 (archived log).
self_contact_b_side_failures_exact	==	0	Revision 4. And pass.
self_contact_b_side_lane_rows_pass_required	==	1	Revision 4. All 19 self-contact slot seeds of lane 7 pass on this pin (limits unchanged).
self_contact_b_side_tests_run_min	>=	6	Revision 4. The reproducer (2) and FEASelfContactAveragedNormalTests (4) run on this pin.
shared_code_ab_frozen_required	==	1	Revision 4. The shared-code A/B record (ab/shared-code-ab.json) is the one whose SHA-256 this contract freezes.
shared_code_failing_set_differences_exact	==	0	Revision 4. D01 changes shared importer code: the full test suite, release, same host, fails the same set of tests on the V5 tag and on this code (the two defect reproducers, which fail on the tag by design, excepted).
shared_code_probe_records_min	>=	70	Revision 4. The A/B probe covers the 68-file triangle-mesh ground-truth corpus in every unit it may be read in, plus three synthetic parts.
shared_code_probe_unaffected_mismatches_exact	==	0	Revision 4. Wherever the fix has nothing to do (every probe record whose part is within its own size of the file's origin), the shared parser's payload and bounds, the CFD importer's positions, the FEA import's payload, grid, mask, fractions and voxel origin, and a linear and a nonlinear solve of the imported part are bitwise identical on both sides.
shared_code_tests_executed_min	>=	1000	Revision 4. The whole suite ran on both sides (more than a thousand tests executed; the exact count is recorded).
step_corpus_ab_frozen_required	==	1	Revision 6. The STEP importer corpus A/B record (ab/step-corpus-ab.json) is the one whose SHA-256 this contract freezes.
step_corpus_accepted_min	>=	24	Revision 6. Evidence, not theory: the packaged CAD helper (the release helper; the tag's own XDE helper sources do not compile) accepts 24 of the 165 files on both sides and refuses 141 at its reader, before the mesh route. The A/B covers the product route only through those 24, so fewer accepted files on either side would make it a weaker test than the frozen record.
step_corpus_field_differences_exact	==	0	Revision 6. D01 changes the FEA import route the STEP reader shares (FEAPreviewVM.performGeometryImport): on the V5 tag and on this code, same host, same packaged CAD helper, every file's outcome, stage, message, grid, active elements, element size, reader and advisories agree; elapsed time is excluded (it is not a result).
step_corpus_files_min	>=	165	Revision 6. Every file of the pinned 165-file STEP corpus was run through the product import on both sides (accepted or refused).
stress_order_after_fix_min	>=	0.9	UNCHANGED from V4 lane C (element-mean stress, theory order 1 or better); V4 could not fit an order to the 25 % mesh-independent error the defect caused.
v4_files_listed_min	>=	10	V4's manifest lists every evidence file.

Key	Cmp	Limit	Basis
v4_manifest_mismatches_exact	==	0	Published evidence must hash identically.
v4_manifest_unaccounted_exact	==	0	Every listed file present or relocated to output/pdf with the listed hash.

Lane 1 — lane_1_element_operator

Key	Cmp	Limit	Basis
axis_permutation_max	<=	1.000000e-12	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
condensation_refusal_justified_required	==	1	Revision 2 (exploratory): where the product refuses the static condensation by name (enhancedModeTangentNotPositiveDefinite), the independent enhanced-mode Hessian must be indefinite at alpha = 0 or at the stationary alpha; a refusal of a positive-definite condensation would be a defect. Measured on the rubber laws at J = 1.18-1.43, where the Neo-Hookean Lagrangian tangent is known to lose definiteness beyond ln J = mu/lambda.
condensed_parameters_vs_independent_max	<=	1.000000e-07	alpha is found by two different Newton iterations to ~1e-12 of the modal residual; alpha itself is conditioned by K_aa (condition ~1e2-1e4).
dilatation_vs_independent_max	<=	1.000000e-12	Theta/V0 is a sum of 8 determinants of O(1) numbers.
energy_vs_independent_double_max	<=	1.000000e-10	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
force_vs_energy_gradient_max	<=	1.000000e-06	Central difference with the best step of a 4-decade ladder: truncation O(h^2) against round-off O(eps/h) bounds the attainable agreement near 1e-7..1e-8 of the tangent scale; 1e-6 leaves one decade.
force_vs_independent_double_max	<=	1.000000e-10	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement. The independent element sums the same 8 Gauss points in a different order and condenses by its own Newton to 1e-15.
kernel_constructed_required	==	1	Harness sanity.
objectivity_energy_max	<=	1.000000e-11	UNCHANGED from V1 lane N0.
objectivity_force_max	<=	1.000000e-11	UNCHANGED from V1 lane N0.
objectivity_tangent_max	<=	1.000000e-10	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
reflection_max	<=	1.000000e-12	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
rest_minimum_eigenvalue_ratio_min	>=	-1.000000e-12	Positive semi-definite at rest.
rest_zero_eigenvalue_relative	param	1e-10	fixture parameter
rest_zero_modes_exact	==	6	Six rigid modes at rest (V4 lane E, extended to every element variant).
root_seed	param	1313109813051393	fixture parameter
rotated_state_admissible_required	==	1	Harness sanity.
schur_complement_formed_required	==	1	Harness sanity.
state_admissible_required	==	1	Every generated state is admissible (J > 0).
states_per_combination	param	16	fixture parameter
tangent_symmetry_max	<=	1.000000e-11	Hyperelastic, mixed and associative J2 consistent tangents are symmetric; UNCHANGED in value from V1 lane N0.
tangent_vs_central_difference_max	<=	1.000000e-06	Central difference with the best step of a 4-decade ladder: truncation O(h^2) against round-off O(eps/h) bounds the attainable agreement near 1e-7..1e-8 of the tangent scale; 1e-6 leaves one decade.
tangent_vs_independent_schur_complement_max	<=	1.000000e-05	The full (24+m) Hessian is itself a central difference of the independent gradient (step 1e-6 h); its error bounds the Schur complement's.
translation_invariance_max	<=	1.000000e-12	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.

Lane 2 — lane_2_constitutive

Key	Cmp	Limit	Basis
checkpoint_history_matches_published_plastic_elements_exact	==	0	The elements whose checkpoint history is plastic are exactly the elements the result publishes with plastic strain.
checkpoint_produced_required	==	1	Plastic solve publishes a checkpoint.
checkpoint_reencoding_bitwise_required	==	1	Encoding is deterministic.
checkpoint_round_trip_equal_required	==	1	Codable round trip is exact.
closed_form_energy_max	<=	1.000000e-12	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
closed_form_stress_max	<=	1.000000e-12	Closed forms in principal stretches vs tensor formulas: round-off only (V4 used 1e-10 for the same class).
cycle_energy_balance_max	<=	0.05	Revision 7 (theory, replacing PROVISIONAL): the external work and dissipation are accumulated by one-point (mid-load) step rules, first order in the increment; the energy balance error of a first-order rule over the cycle is c·Δλ with c = O(1) of the cycle's dissipated fraction (V5.1 measured 6.2e-3 at the row's increment, order 1.00). The limit is the first-order truncation at the row's increment with c ≤ 1: unchanged in value, now derived.
cycle_energy_balance_order_min	>=	0.8	Revision 7 (theory): a first-order rule has observed order 1 in the asymptotic range; 0.8 allows the O(Δλ²) term at the two increments used (V5.1 measured 0.999).
cycle_segments_min	>=	4	load, unload, reverse, return all complete.
dissipation_equals_stress_power_max	<=	1.000000e-10	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
dissipation_nondecreasing_min	>=	0	Accumulated dissipation never decreases.
dissipation_nonnegative_min	>=	0	Second law: plastic work increment >= 0.
dissipation_positive_min	>=	1.000000e-09	The cycle yields.
equivalent_plastic_strain_monotone_max	<=	0	alpha never decreases.
isochoric_dilatation_stress_max	<=	1.000000e-12	The isochoric energy is exactly blind to J.
j2_increments_per_path	param	60	fixture parameter
j2_paths	param	64	fixture parameter
j2_root_seed	param	1313109813051394	fixture parameter
j2_vs_independent_integrator_max	<=	1.000000e-09	Two return-map integrators carried along the same 60-step path; the saturating Newton tolerance 1e-10 accumulates.
path_completed_required	==	1	Every increment admissible.
plastic_gauss_points_min	>=	8	The checkpoint carries real plastic history.
plastic_incompressibility_max	<=	1.000000e-15	tr(E^p) stays at its virgin value 0 to round-off.
points_evaluated_min	>=	10	The whole amplitude ladder is admissible.
restart_from_decoded_bitwise_required	==	1	A decoded checkpoint restarts bitwise like the in-memory one.
returned_state_elastic_law_max	<=	1.000000e-12	S = D(E - E^p) after every return.
tangent_vs_stress_difference_max	<=	1.000000e-06	UNCHANGED from NL-2 lane M0.
yield_consistency_max	<=	1.000000e-10	The saturating return map stops at 1e-14 relative and checks 1e-10 (ConstitutiveModel).
yielding_steps_min	>=	5	A path that never yields tests nothing.

Lane 3 — lane_3_geometric

Key	Cmp	Limit	Basis
compression_correct_or_typed_refusal_required	==	1	Revision 2 (exploratory pass 1: stretch 0.7 refused with an indefinite spurious mode): the six-mode enhanced element either reaches the closed form or refuses by a typed failure; the verified large-strain rows use 0.8, 1.3 and 1.8.

Key	Cmp	Limit	Basis
error_over_tolerance_max	<=	1	Revision 7 (theory, TIGHTENED from 100): the published point satisfies the increment test $\|\Delta u\| \le \tau\|u\|$; with Newton converging quadratically the last increment overestimates the remaining error ($e_{k+1} = O(e_k^2) \ll e_k \approx \|\Delta u_k\|$), so $\|u - u^*\| \le \tau\|u\|$ (V5.1 measured 0.0073).
large_strain_axial_max	<=	1.000000e-09	Homogeneous state: exact on any mesh; solve at 1e-11.
large_strain_lateral_isotropy_max	<=	1.000000e-09	Transverse isotropy of the homogeneous state.
large_strain_lateral_max	<=	1.000000e-09	As above.
large_strain_solved_required	==	1	Solves.
load_step_levels_min	>=	5	Five increments.
load_step_second_finest_error_max	<=	1.000000e-10	Revision 7 (theory, TIGHTENED from 1e-3): along a proportional, monotone path the backward-Euler radial return with linear hardening is exact whatever the increment (Simo & Hughes 1998, §3.3), so the J2 path error is round-off (V5.1 measured 1.6e-13). IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
published_residual_over_requested_max	<=	1	The route never publishes above the requested tolerance.
quarter_turn_invariance_max	<=	1.000000e-09	A rotated grid is the same problem; solve at 1e-11.
quarter_turn_tip_rotation_min	>=	0.2	The row is at large rotation.
tolerance_levels_min	>=	6	Six tolerances, 1e-4 to 1e-9, against a 1e-11 reference (revision 2: 1e-12 is below the arithmetic floor of this problem and was refused).
tolerance_reference_solved_required	==	1	Solves.

Lane 4 — lane_4_arc_length

Key	Cmp	Limit	Basis
arc_both_backends_solve_required	==	1	Arc-length on a slender cantilever solves on the CPU and on the packaged Metal route (exploratory pass 2: the product route's Metal arc-length on this beam refused in its first inner solve).
arc_length_path_published_required	==	1	Solves.
arc_metal_vs_cpu_max	<=	1.000000e-06	Lane 7's displacement limit.
arch_arc_increment_coarse	param	0.1	fixture parameter
arch_arc_increment_fine	param	0.05	fixture parameter
arch_crown_force_n	param	10000	fixture parameter
arch_crown_travel_limit_m	param	0.011	fixture parameter
arch_element_size_m	param	0.001	fixture parameter
arch_every_point_equilibrium_max	<=	1.000000e-08	Solved at 1e-8.
arch_gmres_restart	param	200	fixture parameter
arch_inner_maximum_iterations	param	4000	fixture parameter
arch_load_control_refuses_required	==	1	Load control cannot pass a limit point.
arch_load_drop_after_peak_min	>=	0.01	The load falls after the peak.
arch_load_eccentricity_elements	param	4	fixture parameter
arch_maximum_steps	param	150	fixture parameter
arch_path_published_required	==	1	Revision 7: the arch rows are superseded as the structural snap-through evidence by lane 11's clamped-pinned elastica snap-through (l11_structural_snap_through); this gate is retained for the arch's own representability record.
arch_peak_spread_max	<=	0.01	Revision 7: two discrete peaks of arc lengths 0.1 and 0.05 differ by the path sampling, $O(\Delta s^2)\cdot\lambda''/2 \le 1$ % for these lengths.
arch_refusal_over_peak_max	<=	1.01	Refuses at or below the arc-length peak (1 % for the discrete peak's sampling).
arch_refusal_over_peak_min	>=	0.8	Revision 7: a load-controlled refusal on the arch comes at or below the arc-length peak (the upper gate); the lower bound records that it is not an early spurious refusal; the arch is now a measured record, lane 11 carries the structural limit-point claim.

Key	Cmp	Limit	Basis
arch_refusal_typed_required	==	1	By name.
arch_rise_elements	param	6	fixture parameter
arch_span_elements	param	40	fixture parameter
arch_stiffness_sign_changes_min	>=	1	A structural limit point.
arch_symmetric_published_or_typed_required	==	1	Revision 2 (exploratory pass 3): the symmetric arch under a central load reaches a point where load control finds the tangent indefinite (lambda = 0.19) and arc-length's inner GMRES stalls; this is consistent with an asymmetric bifurcation, which a limit-point method without branch switching cannot pass. The route must either publish a converged path or refuse by a typed failure. The limit-point rows use an eccentric load (4 elements off the crown), which removes the symmetry.
arch_thickness_elements	param	2	fixture parameter
arch_void_depth_elements	param	20	fixture parameter
arch_void_stiffness_ratio	param	0.0001	fixture parameter
branch_monotone_violations_exact	==	0	Branch continuity: the stretch decreases monotonically along the path.
closed_form_every_point_max	<=	1.000000e-08	NL-6 gate; measured 8.6e-12.
continuation_is_arc_length_required	==	1	Route.
equals_load_control_max	<=	1.000000e-06	NL-6.
every_point_equilibrium_max	<=	1.000000e-10	Each point solved at 1e-10.
load_control_refuses_required	==	1	NL-6.
located_limit_load_error_max	<=	0.001	Revision 7 (theory, replacing PROVISIONAL): the vertex of the parabola through the three path points nearest the peak has an error $O(\Delta s^3\, \lambda''' / \lambda'')$ in λ for arc spacing Δs; for the SVK bar with the row's increments (0.05-0.2 of the linear unit) this is ≤ 1e-3 of the peak (V5.1 measured 1.2e-5..6.5e-5).
located_limit_spread_max	<=	0.001	Revision 7: the spread of three located limits is bounded by the largest vertex error above.
located_limit_stretch_error_max	<=	0.05	Revision 2: the limit STRETCH is located at the vertex of the same three-point parabola that locates the limit load (the pre-registered linear zero of Bergan's parameter is first order in the arc length and measured 4-17 %; it is reported, not gated). 5 % unchanged.
path_descends_after_limit_required	==	1	NL-6.
peak_never_exceeds_limit_max	<=	1.000000e-09	Every published point is on the closed form, so no point exceeds the exact limit.
plastic_branch_points_min	>=	3	NL-6.
plastic_closed_form_max	<=	1.000000e-08	NL-6 gate; measured 3.6e-16.
plastic_path_descends_required	==	1	NL-6.
points_past_limit_min	>=	3	NL-6.
refusal_is_typed_required	==	1	NL-6.
refusal_names_cause_required	==	1	By name.
refusal_over_limit_max	<=	1	Load control cannot pass the limit load.
refusal_over_limit_min	>=	0.9	It refuses near the limit, not early (NL-6 measured 0.982).
refusal_required	==	1	Refuses.
stiffness_sign_changes_exact	==	1	One limit point: Bergan's parameter changes sign exactly once.
stop_reason_terminal_required	==	1	NL-6.
terminal_load_factor_exact	==	1	NL-6.

Lane 5 — lane_5_contact

Key	Cmp	Limit	Basis
cone_violation_max	<=	1.000000e-09	UNCHANGED from NL-3/NL-4.
convex_self_contact_active_exact	==	0	NL-6.
convex_self_contact_difference_max	<=	1.000000e-09	NL-6 gate.
friction_residual_max	<=	1.000000e-08	Body-contact tolerance.
friction_rung_solved_required	==	1	Solves below capacity.
master_face_transitions_min	>=	1	Revision 2: the fixture is a column pushed sideways so its end slides frictionless across the block's faces (the beam-on-block fixture of revision 1 never slid).
origin_contact_force_invariance_max	<=	1.000000e-06	As above.
origin_field_invariance_max	<=	1.000000e-06	Revision 2: the padded grid changes the preconditioner and the iteration path, so two solves of the same interface at the body-contact tolerance 1e-8 differ by iterative error (measured 5.6e-8, identical at offsets 64 and 1,024); the limit is set from iterative-error theory (100 x the solve tolerance, equal to lane 7's displacement limit). The pre-registered 1e-9 assumed bitwise-comparable iteration paths.
origin_gap_growth_ratio_max	<=	2	Revision 2: a round-off source proportional to the model's coordinates grows about 16 x from an offset of 64 to 1,024 elements (NL-6: the absolute floor grows with the model's size); iterative error does not.
origin_residual_max	<=	1.000000e-08	Body-contact tolerance (UNCHANGED from NL-4).
origin_solved_required	==	1	Solves at every offset.
patch_action_reaction_max	<=	1.000000e-10	UNCHANGED from NL-3 C0 / NL-4 D0.
patch_bearing_nodes_exact	==	16	3x3 interface: 16 bearing nodes.
patch_force_ratio_max	<=	1.000000e-05	UNCHANGED (1:2:4 to 1e-5).
patch_penetration_max	<=	1.000100e-08	UNCHANGED from NL-2/3/4.
patch_total_force_max	<=	1.000000e-07	UNCHANGED from the NL-3 patch test.
plane_shift_invariance_max	<=	1.000000e-12	Same plane.
plane_shift_solves_min	>=	5	Five shifts.
reversal_anchors_classified_exact	==	49	49 anchors.
reversal_cone_violation_max	<=	1.000000e-09	UNCHANGED.
reversal_tightest_tolerance_max	<=	1.000000e-08	NL-6: the reversal reaches the body-contact tolerance.
self_contact_action_reaction_max	<=	1.000000e-06	NL-6 gate.
self_contact_bearing_nodes_min	>=	1	Contact is active.
self_contact_full_vs_half_max	<=	1.000000e-06	NL-6 gate; measured 6.0e-8.
self_contact_mirror_symmetry_max	<=	1.000000e-06	NL-6 gate; measured 1.7e-7.
self_contact_solved_required	==	1	NL-6.
slip_witnessed_min	>=	1	V4 lane K: at 0.99 mu p candidates slip.
slot_closed_min	>=	1	The tip travels past the half gap.
transition_action_reaction_max	<=	1.000000e-10	UNCHANGED.
transition_penetration_max	<=	0.02	Maximum admissible penetration fraction (route limit).
transition_residual_max	<=	1.000000e-08	Solved at 1e-8.
transition_rungs_min	>=	6	Six rungs.
transition_travel_over_h_min	>=	1	The contacting end travels at least one element.
witness_ran_required	==	1	The absolute-kinematics witness ran in its own process.
witness_sensitivity_min	>=	1	The test must be able to see the defect NL-6 removed: with absolute kinematics at least one translated offset refuses or differs by more than 1e-6 (NL-6 documented the absolute floor ~1.1e-7 N growing with the model's coordinates).

Key	Cmp	Limit	Basis
work_minus_stored_min	>=	-1.000000e-06	Revision 7 (theory, replacing PROVISIONAL): second law — external work minus stored energy is the dissipation and the frictional work, non-negative; the allowance is the work quadrature's round-off (IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.)

Lane 6 — lane_6_incompressibility

Key	Cmp	Limit	Basis
bending_error_vs_richardson_max	<=	0.05	UNCHANGED from NL-4 D4.
bending_order_min	>=	1	NL-6 / NL-4 D4.
bending_solved_required	==	1	Solves.
cantilever_beta_exponent_min	>=	-10	Measured and reported; no theoretical sign is pre-registered for the partly free boundary.
clamped_beta_exponent_min	>=	0.5	Revision 7 (theory): Q1/P0's inf-sup constant decays with h on uniform meshes (Chapelle-Bathe 1993); an exponent ≥ 0.5 over the measured range establishes decay beyond pre-asymptotic noise (V5.1 measured 1.62).
clamped_spurious_modes_finest_min	>=	1	Revision 7 (theory): Q1/P0 on a clamped n^3 cube has $3n - 2$ spurious pressure modes (Boffi-Brezzi-Fortin 2013 §8.6; V5.1 measured $16 = 3{\cdot}6 - 2$); at least one confirms the known limitation this row records. The V6 default pressure space has none (lane 11).
divergence_operator_max	<=	1.000000e-06	Central difference of the product's Theta at rest (step 1e-9 m).
element_mean_volume_change_max	<=	1.000000e-10	volumeTolerance (NL-6 default).
infsup_eigenproblem_solved_min	>=	8	Harness sanity.
infsup_largest_n	param	6	fixture parameter
infsup_zero_eigenvalue_relative	param	1e-10	fixture parameter
map_axial_max	<=	1.000000e-08	NL-6 gate.
map_axial_tolerance	param	1e-08	fixture parameter
map_lateral_max	<=	1.000000e-08	NL-6 gate.
map_lateral_tolerance	param	1e-08	fixture parameter
map_pressure_max	<=	1.000000e-07	NL-6 gate.
map_pressure_tolerance	param	1e-07	fixture parameter
map_published_wrong_exact	==	0	No case publishes a wrong answer.
map_refusal_is_typed_and_named_required	==	1	Fail closed: a refused case names its cause.
map_solved_correctly_min	>=	50	Revision 7: the stability map is a fail-closed record; at least 50 of its 264 points inside the continuum-stable range must be solved to the closed form (V5.1: 158).
penalty_extreme_agrees_or_refuses_typed_required	==	1	kappa = 2000 mu (inside the validated range): the answer agrees with the ladder to 1e-6 or the route refuses by a typed failure.
penalty_pressure_spread_max	<=	1.000000e-05	Element pressures over two decades of kappa; the multiplier, not the penalty, carries the constraint.
penalty_solves_min	>=	3	Revision 2: kappa = 2, 20, 200 mu (two decades, as NL-6 gated). kappa = 2000 mu fails closed (line search refused at a best residual of 8e-11) and is its own row.
penalty_tip_spread_max	<=	1.000000e-06	NL-6 gate (two decades).
pressure_published_per_element_exact	==	0	One pressure per element.
pressure_refinement_order_min	>=	0.8	Revision 7 (theory, TIGHTENED from –10): the element pressures now converge — the default space is inf-sup stable, so the element-mean pressure converges at order ≥ 1 in L^2 (Brezzi-Fortin); 0.8 allows the pre-asymptotic range (V6 measured order 3.16 at the tip, lane 11).
published_volume_change_max	<=	1.000000e-10	volumeTolerance.

Lane 7 — lane_7_differential

Key	Cmp	Limit	Basis
backends_agree_on_solvability_required	==	1	A seed one backend solves and the other refuses is a failure.
body_contact_cpu_tolerance	param	1e-08	fixture parameter
both_refusals_typed_required	==	1	If both refuse, both by name (and the seed still fails the summary).
contact_force_max	<=	1.000000e-06	UNCHANGED from NL-3 C5 / NL-4 D5.
cpu_tolerance	param	1e-10	fixture parameter
displacement_l2_max	<=	1.000000e-06	UNCHANGED from V1 lane N6.
displacement_linf_max	<=	1.000000e-05	UNCHANGED from NL-4 lane D5.
failed_seeds_exact	==	0	Every seed agrees.
families_covered_min	>=	13	Every family.
friction_fixed_increment	param	0.1	fixture parameter
metal_operator_required	==	1	A Metal request never comes back as a CPU answer.
metal_published_residual_max	<=	1.000000e-08	The Metal route's requested tolerance.
metal_tolerance	param	1e-08	fixture parameter
no_runtime_compilation_required	==	1	Publication gate.
packaged_metallib_required	==	1	Publication gate.
plastic_strain_max	<=	1.000000e-05	UNCHANGED from NL-2 lane M6.
pressure_max	<=	1.000000e-06	NL-6 measured 1.2e-11 on the tip; field-level tolerance as displacement.
repeat_bitwise_required	==	1	Same device, same inputs: bitwise.
repeat_every	param	4	fixture parameter
root_seed	param	1313109813051399	fixture parameter
same_load_path_required	==	1	Frictional seeds: both backends walk the same fixed load path with no cutback, so one frictional equilibrium is compared (stuck equilibria are path-dependent and not unique).
seed_count	param	256	fixture parameter
seeds_min	>=	256	Hundreds of retained seeds.
self_contact_multiplier_tolerance	param	1e-10	fixture parameter
self_contact_tolerance	param	1e-09	fixture parameter
strain_energy_max	<=	1.000000e-06	UNCHANGED from V1 lane N6.
support_reaction_max	<=	1.000000e-05	UNCHANGED in value from FAS-2 G3/G4; the difference is taken relative to the larger of the reference reaction and the applied-load norm.

Lane 8 — lane_8_product_route

Key	Cmp	Limit	Basis
element_size_m	param	0.00125	fixture parameter
import_succeeded_required	==	1	Harness sanity.
origin_float32_disclosure_required	==	1	Revision 4, binary STL rows. The import says the file's 32-bit coordinates may not be the designed geometry exactly when their spacing at the part's distance exceeds 0.1 % of its thinnest side, and not otherwise. The spacing is computed from IEEE-754 (ulp of the largest coordinate); 0.1 % is the disclosure threshold, not an accuracy claim.
origin_imports_only_with_a_solid_required	==	1	Revision 4. The converse: an import succeeds only from a file that describes a solid.
origin_part_frame_recorded_required	==	1	Revision 4. The study records the part-local frame's world origin: zero for the bar at the origin, the offset itself elsewhere (the whole multiple of Q = 1/16 m nearest the bar's centre). Theory: the frame is the only link from the stored part back to the file's world.
origin_refusal_named_required	==	1	An offset the file cannot carry is refused by name.

Key	Cmp	Limit	Basis
origin_refusal_only_without_a_solid_required	==	1	Revision 4. A refusal is correct only where the file itself holds no solid: the geometry it describes has a side of zero length (a binary STL at ±1,000 km rounds the 5 mm sides to zero). Theory: after D01 the importer adds no rounding of its own, so any file that describes a solid imports.
origin_same_displacement_max	<=	0	Revision 7 (theory, TIGHTENED from 1e-12): the same grid, mask and fractions are the same linear system and the solve is deterministic, so the displacement is bitwise identical (V5.1 measured 0 at every offset).
origin_same_occupancy_required	==	1	Same grid occupancy at every carried offset.
preflight_not_blocking_required	==	1	Preflight.
product_equilibrium_max	<=	1.000000e-06	Reactions (+contact) balance the applied load, newtons.
product_full_load_exact	==	1	Published at full load.
product_library_source_required	==	1	Packaged.
product_metal_backend_required	==	1	Route.
product_no_runtime_compilation_required	==	1	Publication gate.
product_packaged_required	==	1	Publication gate.
product_solved_required	==	1	Solves.
product_vs_engine_displacement_max	<=	1.000000e-06	The route's answer equals the engine's on the re-derived problem (Metal 1e-8 vs CPU 1e-10).
product_vs_engine_von_mises_max	<=	1.000000e-05	Stress in pascals, same problem.
published_or_typed_required	==	1	A measured row: the route either publishes or refuses by a typed engine failure; it never publishes silently wrong.
reloaded_solve_bitwise_required	==	1	Deterministic on one device.
reloaded_solve_difference_max	<=	1.000000e-12	Same study.
reloaded_study_equal_required	==	1	Round trip.
typed_failure_names_cause_required	==	1	By name.
typed_failure_required	==	1	Refuses.

Lane 9 — lane_9_robustness

Key	Cmp	Limit	Basis
control_residual_max	<=	1.000000e-10	Solved at 1e-10.
control_solves_required	==	1	The unperturbed model solves.
no_cpu_fallback_answer_required	==	1	Forbidden.
no_runtime_compilation_required	==	1	Forbidden.
refusal_names_cause_required	==	1	The failure names its cause.
refusal_typed_required	==	1	A typed failure.
refused_required	==	1	Nothing published.

Lane 10 — lane_10_performance

Key	Cmp	Limit	Basis
equilibrium_at_scale_max	<=	1.000000e-08	UNCHANGED from V4 lane P.
known_limitation_rungs	param	—	{"mixed_up_cantilever_64x16x16":"volume_constraint_did_not_converge"}
limitation_refusal_named_required	==	1	Exploratory measurement (revision 2): at 16,384 elements the mixed element's augmented-Lagrangian volume constraint stops at 61 augmentations with Theta/V0 = 6.0e-10 against the 1e-10 tolerance; the route must refuse by that name and nothing else.
no_runtime_compilation_required	==	1	Publication gate.
packaged_metallib_required	==	1	Publication gate.

Key	Cmp	Limit	Basis
published_residual_max	<=	1	Published residual / requested tolerance.
rung_solved_required	==	1	Every rung solves.
same_answer_as_cpu_baseline_max	<=	1.000000e-05	UNCHANGED from NL-3/NL-4 D7.
speed_rule	rule	—	Speed is reported, never gated.
timed_repeats_min	>=	3	UNCHANGED from every prior campaign.
warm_repeats	param	3	fixture parameter
warm_repeats_bitwise_required	==	1	Deterministic.

Lane 11 — lane_11_v6

Key	Cmp	Limit	Basis
arc_contact_vs_load_control_max	<=	1.000000e-06	Frictionless contact has a unique equilibrium at λ = 1: arc-length and load control agree to the solve tolerance's reach.
arc_metal_device_resident_required	==	1	The Metal arc-length corrector's Krylov solves run on the device (device_resident_gmres), never on the Double reference tangent.
arc_metal_vs_cpu_max	<=	1.000000e-06	Lane 7's displacement limit.
arc_mixed_stretch_error_max	<=	1.000000e-10	The mixed element's homogeneous uniaxial state is exact on any mesh; the stretch agrees to the augmentation tolerance.
arc_preconditioner_matches_load_control_required	==	1	Revision 11 (item 6): arc-length's corrector is preconditioned by exactly what load control uses on the same problem and backend - on the CPU the K0 linear multigrid for rigid-plane contact, self-contact and the mixed element; where a route refuses a multigrid for a mesh it says so by the same name under both continuations, and arc-length adds no refusal of its own.
compression_onset_monotone_required	==	1	A surface instability's onset converges monotonically under refinement as shorter modes are resolved (Biot 1965): both elements' onset stretch must increase with n.
compression_onsets_close_required	==	1	Both elements converge to the continuum's onset: their gap must shrink from n = 2 to n = 4.
curved_tangent_fd_max	<=	1.000000e-06	Central difference with the best step of a decade ladder: truncation O(h^2) against round-off O(eps/h) bounds the attainable agreement near 1e-7..1e-8 of the tangent scale; 1e-5 leaves room for the non-smooth contact/active-set terms.
fibre_closed_form_max	<=	1.000000e-09	IEEE-754 double round-off on quantities formed from O(10-100) terms; set from arithmetic, not from a measurement.
full_suite_crash_exclusions	param	—	{}
full_suite_executed_min	>=	1000	The whole package suite ran (more than a thousand tests executed; the count is recorded).
full_suite_explained_failures	list	32	32 entries, each with its cause; listed in full in acceptance-nlv6.json (lane_11_v6) in the evidence directory.
full_suite_justified_skips	list	16	16 entries, each with its cause; listed in full in acceptance-nlv6.json (lane_11_v6) in the evidence directory.
full_suite_unexplained_failures_exact	==	0	Every failing test of the full suite is named in full_suite_explained_failures with its cause; any other failure fails the campaign.
full_suite_unjustified_skips_exact	==	0	Every skipped test gives a reason matching one of full_suite_justified_skips; any other skip fails the campaign.
hertz_balance_max	<=	1.000000e-06	Load balance.
hertz_centre_pressure_converging_required	==	1	Refinement moves the centre pressure towards p_0.
hertz_centre_pressure_fine_max	<=	0.05	The centre node's pressure is a nodal average over $h^2/4$ of a field varying as $\sqrt{(1 - r^2/a^2)}$: its first-order error at a/h ≈ 5 is a few per cent; 5 % bounds it.
hertz_radius_bracketed_required	==	1	Hertz's contact radius lies between the last bearing and the first open node, to one element.
infsup_uniformity_min	>=	0.9	Theory: an inf-sup stable pair has β_h bounded below uniformly in h (Brezzi 1974); the smallest over the n = 4..8 ladder divided by the largest must not fall more than 10 % (pre-asymptotic allowance; Q1/P0 falls to 0.53 on the same ladder).

Key	Cmp	Limit	Basis
j2_multiplicative_metal_vs_cpu_max	<=	1.000000e-09	The device applies the CPU route's records (Float Krylov at the solve tolerance).
j2_multiplicative_tangent_fd_max	<=	1.000000e-06	Central difference with the best step of a decade ladder: truncation O(h^2) against round-off O(eps/h) bounds the attainable agreement near 1e-7..1e-8 of the tangent scale; 1e-5 leaves room for the non-smooth contact/active-set terms.
j2_multiplicative_uniaxial_flow_max	<=	0.001	At stretch 2 the Cauchy stress equals the current flow stress σ_y + H ᾱ (here H ᾱ ≤ 0.05 % of σ_y): isochoric flow, $\lvert\sigma_{11}/\sigma_y - 1\rvert$ within the hardening.
j2_multiplicative_yield_residual_max	<=	1.000000e-09	The return map converges to 1e-14 relative; the yield residual after it is round-off of the Kirchhoff stress.
kappa_2000_solved_required	==	1	κ = 2000 μ lies inside the verified range [1, 1e4] μ; the cancellation-free det F − 1 removes the refusal.
kappa_2000_vs_kappa_20_max	<=	1.000000e-08	The penalty is conditioning only: the converged tip must agree to the solve tolerance (1e-9) times the condition growth of two decades of κ.
ladder_metal_vs_cpu_max	<=	1.000000e-06	Lane 7's displacement limit, where a CPU baseline is affordable.
ladder_no_runtime_compilation_required	==	1	No runtime Metal source compilation.
ladder_packaged_metallib_required	==	1	Strength core compute on the packaged Metal libraries.
ladder_published_residual_max	<=	1.000000e-08	The ladder solves at 1e-8; the route never publishes above the requested tolerance.
ladder_rung_solved_required	==	1	Every rung of the V6 scale ladder solves on the packaged Metal route.
ladder_warm_repeat_bitwise_required	==	1	A warm repeat of a rung is bitwise the first use (deterministic device reductions).
mixed_16384_rung_solved_required	==	1	V5 refused the 64×16×16 mixed rung by Uzawa stagnation; the stable space removes the stagnation (β_h uniform) — it must solve on the packaged Metal route.
mixed_metal_vs_cpu_max	<=	1.000000e-08	Lane 7's differential class: the device applies the CPU route's records; the Krylov path differs in Float.
origin_exact_required	==	1	Theory: a part-local frame formed in Double from the file's own digits makes the imported model independent of a translation by whole metres — same grid, mask, fractions; displacement difference 0.
resume_bitwise_required	==	1	A resumed solve is the uninterrupted one bit for bit: the resume state carries every state the solve reads.
self_contact_newton_max	<=	202	V5 run 3's facet-route median (CPU) for the same slot: the V5.1 regression (447) must be recovered.
self_contact_tangent_fd_max	<=	1.000000e-05	Central difference with the best step of a decade ladder: truncation O(h^2) against round-off O(eps/h) bounds the attainable agreement near 1e-7..1e-8 of the tangent scale; 1e-5 leaves room for the non-smooth contact/active-set terms.
self_contact_vs_facet_max	<=	1.000000e-06	The averaged and facet normals converge to the same contact state to the multiplier tolerance's reach.
snap_elastica_within_conditioning_required	==	1	The inextensible, shear-rigid elastica is an ill-conditioned reference for the limit load: its own sensitivity d ln Q/d ln P (≈ 17 at 1.1 P1, computed from the reference at run time) multiplies the model-form term (shear 0.45 %, axial strain 0.2 % on P1); the voxel limit load must agree within that product on both meshes. The amplitude-matched comparison is recorded, not gated (it measured worse, showing the difference is not a single shift of P1).
snap_limit_points_exact	==	1	One limit point: Bergan's stiffness parameter changes sign exactly once.
snap_past_limit_min	>=	3	The path continues past the structural limit point.
stabilised_constraint_residual_max	<=	1.000000e-10	Theory: in the local jump-stabilised space the discrete constraint is (div u, q) - delta J(p, q) = 0 for every element-constant q; the Uzawa passes stop at volumeTolerance (1e-10, the NL-6 default and V5's element-space limit), so the solved constraint residual on V5's three lane-6 bending meshes is held to it. Testing with a macro-element's indicator removes the jump term: each macro-element's volume is conserved, each element's mean volume change is O(delta) by construction and is published as a metric, not gated.
step_corpus_accepted_min	>=	107	The measured V6 count (V5.1: 24) on the pinned 165-file corpus, same helper; fewer is a regression.
step_helper_field_differences_exact	==	0	The helper built from the adopted sources reproduces the release helper on every file (every field but elapsed time).

Key	Cmp	Limit	Basis
tests_passed_required	==	1	Every test of the named suites ran and passed in this campaign's own process (XCTest, release).
two_body_balance_max	<=	1.000000e-06	The contact forces carry the applied load.
two_body_flat_punch_required	==	1	While the staircase step is wider than Hertz's contact, the contact bears across the step (a flat punch) whatever the master normal: the measured regime this row records, a limitation of voxel geometry.
validation_not_claimed_required	==	1	No measured record exists; every comparison is NOT_VALIDATED with its reasons.
viscoelastic_closed_form_max	<=	1.000000e-06	The fast and slow ramps' instantaneous and relaxed closed forms, to the recurrence's own time discretisation at the row's steps.
viscoelastic_rate_dependent_required	==	1	At solver level a fast ramp is stiffer than a slow one (the step time reaches the law).

Supersessions (frozen)

Historical row	Gates	Replaced by	Reason
v4:g3_continuation_past_a_limit_point_is_not_supported	*	l4_svk_limit_arc_increment_0.1	NL-6 added Crisfield arc-length continuation; V4's claim that continuation past a limit point is not supported is no longer true. Its gates still pass because load control still refuses at a limit point and the solution strategies are unchanged, but the row's claim is withdrawn.
v4:k5_unsupported_contact_definitions_fail_closed	*	l5_self_contact_slot_equals_mirrored_half_on_a_rigid_plane	NL-6 supports self-contact; V4's probe asserted that a self pair is refused by name. The probe is now accepted by validation and fails (typed) for a reason unrelated to self-contact, so its 'names its cause' gate fails by design and the row's claim is withdrawn.
v5r3:l7_seed_179_self_contact_slot	*	l7_seed_179_self_contact_slot	Revision 4: run 3 FAILED this row on open defect D03; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l7_seed_192_self_contact_slot	*	l7_seed_192_self_contact_slot	Revision 4: run 3 FAILED this row on open defect D03; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_1.0	*	l8_origin_stl_ascii_offset_1.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_-1.0	*	l8_origin_stl_ascii_offset_-1.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_10.0	*	l8_origin_stl_ascii_offset_10.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_-10.0	*	l8_origin_stl_ascii_offset_-10.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_100.0	*	l8_origin_stl_ascii_offset_100.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.

Historical row	Gates	Replaced by	Reason
v5r3:l8_origin_stl_ascii_offset_-100.0	*	l8_origin_stl_ascii_offset_-100.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_1000.0	*	l8_origin_stl_ascii_offset_1000.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_-1000.0	*	l8_origin_stl_ascii_offset_-1000.0	Revision 4: run 3 FAILED this row on open defect D01; the defect is fixed (A/B in lane 0) and the row is re-measured on this pin against its UNCHANGED gates by the replacement of the same id. The historical FAIL is kept, disposed of as superseded, never relabelled PASS.
v5r3:l8_origin_stl_ascii_offset_1000000.0	*	l8_origin_stl_ascii_offset_1000000.0	Revision 4: run 3 correctly REFUSED this file, because the importer read its coordinates in Float32 world space; the file's 12 decimals carry the bar, and after D01 the import succeeds and must equal the origin's model. The row's claim (refusal) is withdrawn in favour of the replacement's (same model).
v5r3:l8_origin_stl_ascii_offset_-1000000.0	*	l8_origin_stl_ascii_offset_-1000000.0	Revision 4: run 3 correctly REFUSED this file, because the importer read its coordinates in Float32 world space; the file's 12 decimals carry the bar, and after D01 the import succeeds and must equal the origin's model. The row's claim (refusal) is withdrawn in favour of the replacement's (same model).
v5r3:l8_origin_stl_binary_offset_0.0	*	l8_origin_stl_binary_offset_0.0	Revision 4: the binary rows are now asked for more (the file's own float32 geometry as the reference at every offset, disclosure of coarse float32 coordinates, refusal only where the file holds no solid); run 3's narrower row is withdrawn in favour of the replacement of the same id.
v5r3:l8_origin_stl_binary_offset_1000000.0	*	l8_origin_stl_binary_offset_1000000.0	Revision 4: the binary rows are now asked for more (the file's own float32 geometry as the reference at every offset, disclosure of coarse float32 coordinates, refusal only where the file holds no solid); run 3's narrower row is withdrawn in favour of the replacement of the same id.
v5r3:l8_origin_stl_binary_offset_-1000000.0	*	l8_origin_stl_binary_offset_-1000000.0	Revision 4: the binary rows are now asked for more (the file's own float32 geometry as the reference at every offset, disclosure of coarse float32 coordinates, refusal only where the file holds no solid); run 3's narrower row is withdrawn in favour of the replacement of the same id.
l5_hertz_contact	*	l11_hertz_rigid_sphere	Revision 7: V5 declared this NOT_SUPPORTED; V6 supplies it (analytic rigid sphere and cylinder obstacles verify Hertz without a staircase on the contact). The V5 row is kept as emitted; its claim is withdrawn in favour of the lane-11 row.
l8_product_checkpoint_restart	*	l11_resume_product	Revision 7: V5 declared this NOT_SUPPORTED; V6 supplies it (the product records resume points and resumes bit for bit). The V5 row is kept as emitted; its claim is withdrawn in favour of the lane-11 row.
l8_product_publishes_element_pressure	*	l11_product_outputs	Revision 7: V5 declared this NOT_SUPPORTED; V6 supplies it (the product publishes the mixed pressure and the mean-stress field). The V5 row is kept as emitted; its claim is withdrawn in favour of the lane-11 row.
l8_product_publishes_contact_state	*	l11_product_outputs	Revision 7: V5 declared this NOT_SUPPORTED; V6 supplies it (the product publishes and exports per-node contact gap, force and stick/slip). The V5 row is kept as emitted; its claim is withdrawn in favour of the lane-11 row.
l4_arc_length_refuses_contact	*	l11_arc_length_contact	Revision 7: V5 recorded arc-length REFUSING contact by name; V6 nests the multipliers at the arc constraint and solves it. The V5 row, re-run on the V6 code, fails its refusal gates by design; it is kept and disposed of as superseded by the lane-11 row that measures the solve.

Historical row	Gates	Replaced by	Reason
l4_arc_length_refuses_mixed_element	*	l11_arc_length_mixed_element	Revision 7: V5 recorded arc-length REFUSING mixed element by name; V6 nests the multipliers at the arc constraint and solves it. The V5 row, re-run on the V6 code, fails its refusal gates by design; it is kept and disposed of as superseded by the lane-11 row that measures the solve.
l6_bending_pressure_8x2x2	element_mean_volume_change published_volume_change	l11_stabilised_bending_constraint	Revision 8: these two gates hold each ELEMENT's mean volume change to 1e-10, the defining constraint of the element-constant (Q1/P0) pressure space that V5 used. V6's default is the local jump-stabilised space (item 1: inf-sup stable where Q1/P0 is not), whose constraint conserves each MACRO-element's volume and leaves each element's mean volume change O(delta) by design (measured 1.1e-3, 8.3e-4, 8.0e-4). The gates are kept as emitted and superseded, gate by gate, by the stabilised constraint residual on the same three meshes (<= 1e-10); every other gate of these rows must still pass on its own. Found by campaign run 20260924T063937Z (revision 7).
l6_bending_pressure_16x4x4	element_mean_volume_change published_volume_change	l11_stabilised_bending_constraint	Revision 8: these two gates hold each ELEMENT's mean volume change to 1e-10, the defining constraint of the element-constant (Q1/P0) pressure space that V5 used. V6's default is the local jump-stabilised space (item 1: inf-sup stable where Q1/P0 is not), whose constraint conserves each MACRO-element's volume and leaves each element's mean volume change O(delta) by design (measured 1.1e-3, 8.3e-4, 8.0e-4). The gates are kept as emitted and superseded, gate by gate, by the stabilised constraint residual on the same three meshes (<= 1e-10); every other gate of these rows must still pass on its own. Found by campaign run 20260924T063937Z (revision 7).
l6_bending_pressure_32x8x8	element_mean_volume_change published_volume_change	l11_stabilised_bending_constraint	Revision 8: these two gates hold each ELEMENT's mean volume change to 1e-10, the defining constraint of the element-constant (Q1/P0) pressure space that V5 used. V6's default is the local jump-stabilised space (item 1: inf-sup stable where Q1/P0 is not), whose constraint conserves each MACRO-element's volume and leaves each element's mean volume change O(delta) by design (measured 1.1e-3, 8.3e-4, 8.0e-4). The gates are kept as emitted and superseded, gate by gate, by the stabilised constraint residual on the same three meshes (<= 1e-10); every other gate of these rows must still pass on its own. Found by campaign run 20260924T063937Z (revision 7).

Revision history

Rev.	Date	Status	Note
1	2026-09-22	frozen	Written before any V5 lane ran. PROVISIONAL limits are marked and are the only ones that may move after the exploratory pass, each with a recorded reason.

Rev.	Date	Status	Note
2	2026-09-22	frozen	After four exploratory passes (evidence kept under ~/Library/Caches/lattiform-nlsv5/explore-1..5; findings in docs/fea-nonlinear-solver-vv-v5-2026-09-22.md s6). Code under test extended by the arc-length-on-Metal fix (A/B). Gate changes, each with its reason in its own basis text: lane 1 condensation_refusal_justified (refusals checked against the independent enhanced Hessian); lane 2 cycle_energy_balance_order (first-order account); lane 3 tolerance ladder 1e-4..1e-9 against 1e-11; lane 4 limit stretch by the parabola vertex, arch sized and bounded, eccentric load, the arch rows made measured fail-closed rows once exploration showed the void elements beneath the crown reach the Jacobian floor just below the limit (structural snap-through NOT PROVED, claim C21), slender-cantilever CPU/Metal row; lane 5 origin limits from iterative-error theory plus a growth-with-offset gate, the witness sensitivity gate, the stick-only reversal dissipation gate withdrawn as wrong physics, face transitions on a sliding column; lane 6 kappa gated over two decades with kappa = 2000 mu as a fail-closed row; lane 7 body-contact reference at the contact floor, reactions relative to the applied-load norm, frictional seeds on one fixed load path, self-contact seeds at 1e-9 and multiplier 1e-10; lane 8 world-offset ladder 0..+/-1e6 m on ASCII STL (binary STL only at the origin and +/-1e6 m: a float32 file at 1 km encodes a different box), reference at the route's own settings with a recorded smaller-step retry, typed preflight code; lane 10 the 16,384-element mixed rung as a named fail-closed limitation. No limit was loosened to turn a measured FAIL into a PASS: the lane-8 origin rows and the nine-mode Mooney-Rivlin reference row remain ACTIVE and failed in exploration (open defects D01 and D02, tasks filed); the self-contact support-reaction differential (1.1e-5 to 1.4e-5 on some slot seeds in exploration, cause not established) keeps its pre-registered 1e-5 limit. Any of these failing blocks the global PASS.
3	2026-09-23	frozen	After publication run 1 (20260923T065108Z, verdict FAIL, evidence kept unmodified). No gate limit changed. (a) Code under test extended by the enhanced-mode arithmetic-floor fix (StrengthHexa8ConstitutiveElement.swift): run 1 confirmed D02 and an instrumented probe showed all 4,706 element refusals of that study at a residual of 7e-19..2.6e-17 of the moduli scale, a noise cycle rather than non-convergence; the fix accepts only after a full Newton step fails to reduce a residual already within 64 ulps of each mode's moduli scale, and only after the unchanged 1e-12 tolerance test. D02 becomes claim C22, gated by an A/B row in lane 0 and by the unchanged lane-8 row. (b) Run 1's regression-log parser missed XCTest's skipped-tests totals line and counted 52 of 364 tests; it now counts executed minus skipped (274 in run 1), against the unchanged limit of 100. (c) D03 added as a disclosure: run 1's master-face mismatch metric (added before the freeze) localises the self-contact support-reaction differential to master-face selection; its lane-7 limit is unchanged and still blocks the global PASS, as does D01.
4	2026-09-23	frozen	V5.1: V5 publication run 3 (20260923T094738Z, verdict FAIL, evidence kept unmodified) failed on V5's two open defects only. Revision 4 fixes both, each with an A/B reproducer written against the V5 tag's own APIs (A side archived under ab/, run on the tag on this host) and regression tests, and loosens NO limit: lane 7's support_reaction_max stays 1e-5 and lane 8's origin_same_displacement_max stays 1e-12. (a) D01 (claim C23): the importer reads triangle-mesh coordinates in Double and stores a part far from its file's origin in a part-local frame whose world origin (the whole multiple of Q, the smallest power of two no shorter than the part, nearest its centre) is recorded with the FEA study, persisted, hashed into the voxelisation identity, scaled by a rescale, used by scripted boxes and stated in the report export; a part within Q/2 of the origin takes exactly the old path. Lane 8's ladder is extended to +/-1e4 and +/-1e5 m and binary STL at every offset; four gates are added, each with its theory in its basis (refusal only where the file holds no solid, and its converse; the frame recorded; float32 coarseness disclosed above 0.1 % of the thinnest side). Binary rows are now compared with the float32 geometry the file holds, imported at the origin, because a float32 file far out describes a different box and the importer must add nothing to that. ASCII STL at +/-1e6 m, refused on the tag, now imports the model its 12 decimals carry. (b) D03 (claim C24): self-contact pushes along an averaged nodal master normal (per master node the normalised sum of its same-direction faces' diagonal cross products, interpolated bilinearly), continuous across shared edges, with its exact tangent including the neighbour nodes' columns (uploaded to the unchanged packaged pair kernel as extra five-node blocks); two-body pairs keep the face normal. (c) The shared-code A/B (whole test suite and a bitwise import/solve probe on the V5 tag and on this code, same host) is recorded in ab/shared-code-ab.json, frozen here by SHA-256, and gated in lane 0. (d) The rows of run 3 that this revision changes (its 10 failing rows and the 5 lane-8 rows whose gates change) are carried unmodified from a copy of run 3's verification record re-hashed against run 3's manifest, as v5r3: rows SUPERSEDED by their same-id replacements; a historical FAIL keeps its failed gates. (e) Report: table cells break identifiers after an underscore only (V5 page 7 broke OPEN_DEFECT_CONFIRMED mid-word), and the QA fails any page with an identifier broken elsewhere. D01 and D03 are removed from the open-defect list only because their replacement rows and A/B rows pass on this pin.

Rev.	Date	Status	Note
5	2026-09-23	frozen	Erratum; no gate, limit, comparator, basis, supersession or claim changed. V5.1 publication run 1 (20260923T133849Z, pin 4a319cd1, revision 4 c60a7849...) passed every gate; its evidence is kept unmodified. Reading its pages found (i) this factual error in revision 4's scope text: the sentence excluding two-body pairs from the averaged normal said lane 7 measured no master-face mismatch on "133" stack seeds; V5 run 3's lane 7 has 39 body-stack seeds (20 frictionless, 19 frictional), none with a mismatch (V5.1 run 1: again 0 of 39) - corrected to 39 here and in the source comment and the campaign document; and (ii) report-generator and harness-text defects that misprinted nothing measured but must not be published: a wrapped contents entry printed over the next, 12 row headings orphaned from their tables, a figure legend that named 4 of 13 series, dashes where the lane-5 witness refused, a stale table caption, a carried V4 aggregate row counted as a lane-9 probe, and lane-0 A/B notes that quoted the archived A-side numbers as fixed text rather than parsing them from the archived logs (now parsed, with the self-contact Newton cost added as measured metrics). The QA now also fails a page that ends in an orphaned row heading. Run 1's PDF is therefore not the publication; the campaign is re-run from a fresh pin under this revision so that the published PDF is exactly what its pinned tag regenerates.
6	2026-09-23	frozen	Revision 6 (2026-09-23) adds evidence and changes no existing limit, gate or row. D01 changes the FEA import route that the STEP reader shares (FEAPreviewVM.performGeometryImport), and revisions 4-5 proved the shared change only on the triangle-mesh corpus and the test suite. Revision 6 adds row l0_step_corpus_ab: the pinned 165-file STEP corpus run through the product import (CADProductWorkflowCorpusTests.testPinnedSTEPProductWorkflow, product defaults, no repair) on the V5 tag and on this code, same host, run one after the other with the same packaged CAD helper. Four new gates: the record is the frozen one (step_corpus_ab_frozen_required, reason: the A/B cannot be swapped after freezing); all 165 files ran on both sides (step_corpus_files_min 165, reason: the corpus size); at least 24 were accepted (step_corpus_accepted_min 24, reason: the measured count, so the A/B cannot pass vacuously); and 0 per-file field differences with elapsed time excluded (step_corpus_field_differences_exact 0, reason: D01 does not rebase STEP, so every outcome must be unchanged). Coverage disclosure: the helper is the release helper because the tag's own XDE helper sources do not compile (kCADMaximumHealingToleranceMetres is undeclared). That helper refuses 141 files at its reader on both sides, so only 24 files reach the mesh route. Claim C23 is narrowed to say this and cites the new row. The report also gains a test that a uniform rescale scales the stored part-frame origin with the part (FEAImportPartLocalFrameTests), run in the import-origin regression lane; that lane's existing gate is unchanged.
7	2026-09-24	superseded	Revision 7 (2026-09-24), the V6 contract. Written before the V6 campaign ran, on the V5.1 contract (revision 6) carried unchanged except as follows. (1) Every PROVISIONAL gate is re-based on theory, with the basis in its own text; three are TIGHTENED where theory proves more than the provisional limit asked (the J2 proportional-path load-step error to round-off, the displacement error over the tolerance to 1, the origin displacement difference to exactly 0) and one is tightened because the default pressure space changed (pressure refinement order >= 0.8); none is loosened. (2) Two V5 rows whose premise V6 removed (lane 4's arc-length refusal of contact and of the mixed element) are re-run as written, fail their refusal gates by design, and are disposed of as superseded by the lane-11 rows that measure the solves; four V5 NOT_SUPPORTED declarations (Hertz contact, product checkpoint/restart, published element pressure, published contact state) are superseded in claim mode by the lane-11 rows that supply them. (3) Lane 11 carries the V6 closures, every gate with its basis. (4) Claim C21 (structural snap-through) is re-stated on lane 11's elastica evidence; C25-C28 are added (C28 records the measured limitations kept). (5) The standards statement names ASME V&V 10 as the computational-solid-mechanics standard and states that no row is a validation and that a verified range is never called validated.

Rev.	Date	Status	Note
8	2026-09-24	superseded	Revision 8 (2026-09-24). Revision 7's campaign (run 20260924T063937Z, pin 8293510ff6) published FAIL and is kept as the record; revision 8 changes only what that run showed to be wrong in the contract, and nothing that loosens a gate. (1) The three V5 lane-6 bending rows gate each ELEMENT's mean volume change to 1e-10, the defining constraint of the element-constant (Q1/P0) pressure space. V6's default pressure space is the local jump-stabilised one (item 1), which conserves each macro-element's volume and leaves each element's mean volume change O(delta) by design (measured 1.1e-3, 8.3e-4, 8.0e-4). Those two gates are superseded, gate by gate, by lane 11's stabilised constraint residual on the same three meshes (new gate stabilised_constraint_residual_max = 1e-10, the Uzawa stopping tolerance); every other gate of the rows must still pass. (2) BenchmarkTaxonomyManifestTests/ testReferenceBenchmarkCatalogueSpecsAreComplete is added to full_suite_explained_failures: it fails only in a fresh checkout, because the reference catalogue cites gitignored output that a later test class writes (no V6 file involved). (3) The four ModelPrepPointingAndValuesTests entries are removed: their 'nil fillet' was the absent exact CAD kernel, and with the kernel the campaign supplies they pass. (4) The inf-sup row and gate are renamed l11_infsup_local_jump and infsup_uniformity_min (limit and basis unchanged): the old spelling, wrapped at its underscore, left a three-letter token on a line of its own, which the report QA rightly reads as a non-finite number. The provenance key of the STEP corpus becomes step_corpus_directory for the same kind of reason (the old key was a proper prefix of the gate step_corpus_accepted_ min). Not a contract change, and recorded here only because the same run found it: lane 7's self-contact slot seeds 036 (Metal) and 062 (CPU) stalled in V6's nested multiplier loop (201 passes; each Newton re-solve took no correction because the update was below the absolute equilibrium tolerance). That is fixed in code (newton(minimumIterations:) after a nested update); the lane-7 gates and the multiplier tolerance are unchanged, and all 256 seeds pass on the fixed code.
9	2026-09-24	superseded	Revision 9 (2026-09-24), the post-merge contract: revision 8 (campaign 20260924T091410Z, PASS on fea-nonlinear-v6) carried unchanged except for what merging fea-nonlinear-v6 into the product branch's HEAD (geometry-import-overhaul e1f96d5ef7, modal analysis) changes in the whole suite. Four reds of the product branch itself are named, each A/B-confirmed to fail identically at e1f96d5ef7 built from scratch in its own worktree; two CAD entries are removed because they pass on the merged tree (if either fails, it is unexplained and fails the campaign); the product branch's opt-in modal harnesses are added to the justified skips. No gate limit, supersession or claim changes.
10	2026-09-24	superseded	Revision 10 (2026-09-24), post-merge. Revision 9 accounted the product branch's own reds (A/B-confirmed at e1f96d5ef7) in the whole-suite row, but lane 0's generic regression suites (the NL-6 suite, every FEANonlinear*/FEAStudy* suite with FEAPreviewArchitectureTests, the linear guards) still counted every failing test, so the product's dependency-surface red, recorded by the regression step of campaign 20260924T120351Z, would fail lane 0 (that run itself was aborted after the whole suite because the runner script was edited while it ran; it has no verdict). Those three gates now dispose of a failing test exactly as the whole-suite row does: only failing tests not named in lane_11_v6.full_suite_explained_failures count, a named red is published beside the count, and a log whose failures cannot be named counts as unexplained. Limits unchanged (0). No other change.

Rev.	Date	Status	Note
11	2026-09-24	frozen	Revision 11 (2026-09-24), the partial items closed on the integration branch. No limit is loosened; two gates are made stricter and one is added. (a) Item 19. The Lattiform B-Rep kernel now tessellates in the part's own frame (kernel C ABI 7, lattiform_brep_get_frame_origin; the IGES bridge entry dfm_bridge_read_iges_triangle_mesh_f64 returns Double part-frame positions and the frame's origin). The kernel translates a part by the whole multiple of Q nearest its centre when that is at least 2Q away (Sterbenz: the subtraction is exact), and derives its tolerances from the translated bounds, so its tessellation no longer depends on the offset. The importer builds the part-local frame from those Doubles without ever forming their world sum. Rows l11_origin_step_kernel and l11_origin_iges_native (same ids) are therefore no longer KNOWN_LIMITATION records exact only to +/-10 m (STEP) or not at all (IGES): each is held to origin_exact_required at all eight offsets to +/-100 km, exactly like every other route, and claim C28 no longer carries them; C27 now names them. The native IGES reader no longer produces the float32 advisory. (b) Item 6. New row l11_arc_length_multigrid, gate arc_preconditioner_matches_load_control_required: under arc-length the corrector is preconditioned by exactly what load control uses on the same problem and backend. On the CPU that is the K0 linear multigrid for rigid-plane contact, self-contact and the mixed element. On Metal the self-contact slot's recursive device V-cycle is refused by its own Galerkin certification under BOTH continuations, and both name the refusal. Arc-length adds no refusal of its own. FAS stays refused under arc-length, by name, on a beam that FAS accepts under load control; a fixed-load nonlinear multigrid cannot pass a limit point. (c) Item 12. New row l11_thin_feature_advisory (FEAThinFeatureAdvisoryTests). At import, FEA Preview now reports a thin wall, rib or tip on a thick part with preflight's own count (FEAPreflight.underResolvedElementCount), end to end through the importer. (d) Item 23. NativeBridgeFreshnessTests is removed from full_suite_explained_failures: the packaged bridge is rebuilt from the pinned sources and the test passes. (e) Item 23. full_suite_crash_exclusions is now EMPTY. Revisions 7-10 skipped twelve NativeEngineTests CFD tests in the whole-suite process and ran each alone, because each died with signal 11. Root cause (lldb, Swift 6.3.3): the optimised specialisation of a test double's `throws` apply(command:), which never throws, clobbers x21. In the fourteen doubles that never throw, apply(command:) is now declared without `throws`; a non-throwing method satisfies the throwing protocol requirement, and the one double that does throw keeps `throws`. Measured on this code: all twelve pass alone, and all 115 NativeEngineTests CFD tests pass in one process. The miscompile itself is a compiler defect, recorded and not claimed fixed. The four product-branch reds named in revision 9 are unchanged: they are the product branch's own tests of its in-flight modal and UI work (A/B-confirmed at e1f96d5ef7), and V6 does not rewrite another session's expected answers.

Provenance

acceptance_sha256	7db60816092a303f77bba3ed05a167ec7ad5e264820071cfd9d4ea9783362dfd
base_branch	fea-nonlinear-v6-integration
base_commit_sha	fc9cc04b3a49acbfbbc1ea9e4b1538c856c076ac
benchmark_id	lattiform_fea_nonlinear_solver_vv_v6
cad_kernel_sha256	d553b814295bc2d6e6fed4c9c611ee280e7f37eb0ec2338b8edea3fd5ac8e424
configuration	release
contract_revision	11
exploratory	0
fas_metallib_sha256	8cba135fd532eeb0de3e6c83f5050ba616189dbeec46afd1c76614c43a75888a
generated_at_utc	2026-09-24T18:40:32Z
host_cpu_cores	18
host_memory_bytes	25769803776
host_model	Mac17,8
krylov_metallib_sha256	c0ca3e57912fa70ab2b4b4bfad618a7ddeae964f337fd994515d6a0f7359d5b1
macos_product_version	26.5
materials_metallib_sha256	f1bfe75754c0ab03874d598c8110dcac59d564dddf3c2607f52c047f1f8ae42d
metal_backend	metal_resident_total_lagrangian

metal_device	Apple M5 Pro
pcg_metallib_sha256	be9caee81aea8c137c87eeeb57b3f9b7a82035aae2983bd3d01b8ddb5e00be72
pin_method	clean_commit
pinned_object	fc9cc04b3a49acbfbbc1ea9e4b1538c856c076ac
pinned_tag	fea-nonlinear-v6-20260924T184015Z
product_source_files	514
product_sources_digest_sha256	32d67759486969ab99c023507aee0283e7a056643466729ef4dcab8ea4810a1f
reference_backend	swift_double_cpu
release_cad_helper_sha256	409ac08b210bd364f04eabba0e160593df70d755c626e604a72567de0c058d4a
report_version	V6
run_id	20260924T184015Z
runtime_source_compilation_permitted	0
schema_version	1
source_cad_helper_sha256	e263de2683241eb9b62f4e30fa3aeeaaec36888e460b359acc07423590382451
step_corpus_directory	/tmp/lattiform-import-corpus-20260911
swift_version	swift-driver version: 1.148.6 Apple Swift version 6.3.3 (swiftlang-6.3.3.1.3 clang-2100.1.1.101)
tangent_metallib_sha256	aefb31673e9a97ac391b5bd7e2f6bca6e3b0f7dd39fd6401a2f65669d690a6b9
title	Lattiform Nonlinear Solver Verification Report (V6)
validation_status	NOT_VALIDATED

Regression suites on this pin

Suite	Executed	Failures	Failing cases
gauss_point_storage	3	0	
nl6_suite	17	0	
arc_length_metal	1	0	
enhanced_mode_floor	2	0	
nonlinear_unit_suites	315	1	FEAPreviewArchitectureTests/ testThePreviewsDependencySurfaceIsTheExpectedOne
linear_guard_suites	25	0	
import_origin	6	0	
self_contact	6	0	

Lane 0 — Reconciliation, supersession, defect A/Bs, regressions

Lane 0 is assembled from the regression suites run on this pin, V4's published evidence (re-hashed, left unmodified), the carried V4 reconciliation lane R, the A/B of each of the five product defects the campaign fixed (the Gauss-point stress storage, the arc-length-on-Metal Krylov solve, the enhanced-mode local Newton at the arithmetic floor — the V5 publication — and, contract revision 4, the importer's Float32 world coordinates and self-contact master-face selection, V5's open defects D01 and D03), the shared-code A/B of revision 4's importer change (the whole test suite and an import probe) and of the pinned STEP importer corpus (revision 6), and the rows of V5's publication run 3 that revision 4 changes, carried from a byte-identical copy of run 3's verification record. Every SUPERSEDED row anywhere in the report is listed in the frozen contract with the passing row that replaces it.

Rows	`15 (V5 lanes on V6 code 12, carried V4 3, carried V5 run 3 0) · PASS 15 · FAIL 0 · SUPERSEDED 0 · NOT_SUPPORTED 0`
Gates	`51 · evaluated 51 · superseded 0 · NOT_RUN 0`
Status	PASS

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
v4:r0_published_evidence_still_verifies	V4 carried	PASS	RECONCILED	5	0	0
v4:r1_headline_claims_reproduce	V4 carried	PASS	RECONCILED	1	0	0
v4:r2_nl4_speed_table_is_superseded	V4 carried	PASS	SUPERSEDED	5	0	0
l0_v4_published_evidence_rehashed	V6	PASS	RECONCILED	3	0	0
l0_gauss_point_storage_defect_ab	V6	PASS	VERIFIED_OPERATOR	4	0	0
l0_metal_arc_length_krylov_defect_ab	V6	PASS	VERIFIED_SOLVE	4	0	0
l0_enhanced_mode_floor_defect_ab	V6	PASS	VERIFIED_OPERATOR	4	0	0
l0_import_origin_defect_ab	V6	PASS	VERIFIED_SOLVE	4	0	0
l0_self_contact_face_choice_defect_ab	V6	PASS	VERIFIED_SOLVE	4	0	0
l0_shared_code_ab	V6	PASS	RECONCILED	5	0	0
l0_step_corpus_ab	V6	PASS	RECONCILED	4	0	0
l0_v5_run3_rows_carried	V6	PASS	RECONCILED	2	0	0
l0_regression_nl6_suite	V6	PASS	RECONCILED	2	0	0
l0_regression_nonlinear_unit_suites	V6	PASS	RECONCILED	2	0	0
l0_regression_linear_guard_suites	V6	PASS	RECONCILED	2	0	0

The Gauss-point stress-storage defect

A: unfixed NL-6 (d0923cd262) release build publishes exactly zero stress at Gauss points 6 and 7 of every nonlinear element (archived log). B: this pin, with StrengthHexa8GaussPointStresses held as a homogeneous tuple; FEAGaussPointStressStorageTests run in the pinned build. The manufactured-solution stress ladder (carried V4 lane C) is the system-level consequence.

Gate	Observed	Cmp	Limit	Disposition
a_side_reproduces_the_defect	1	==	1	PASS
b_side_tests_run	3	>=	3	PASS
b_side_failures	0	==	0	PASS

Gate	Observed	Cmp	Limit	Disposition
stress_order_after_fix	1.999	>=	0.9	PASS

The arc-length-on-Metal Krylov defect

A: on the unfixed pin, arc-length on the packaged Metal route refused a 16x2x2 slender cantilever in its first inner solve (host GMRES over the Float tangent and a Float V-cycle stalled at 7.6e-4) while the CPU route solved it. B: while arc-length runs on a device route the Krylov solves apply the route's owned Double reference tangent in flexible GMRES; FEANonlinearArcLengthMetalTests and lane 4 on this pin.

Gate	Observed	Cmp	Limit	Disposition
metal_arc_a_side_reproduces	1	==	1	PASS
metal_arc_b_side_tests_run	1	>=	1	PASS
metal_arc_b_side_failures	0	==	0	PASS
metal_arc_b_side_lane_row_passes	1	==	1	PASS

The enhanced-mode arithmetic-floor defect (formerly D02)

A: on run 1's code the local enhanced-mode Newton refuses small-strain states whose residual is at the arithmetic floor of the stress (a noise cycle to the iteration cap): FEAEnhancedModeArithmeticFloorTests refuses element states there (archived log), and run 1's lane-8 row failed with the CPU reference refused by enhanced_modes_did_not_converge (archived row). The void-padded cantilever in the same suite solved on both codes and is a guard, not a reproducer. B: after a full Newton step fails to reduce a residual already within 64 ulps of each mode's moduli scale the state is accepted, tested only after the unchanged 1e-12 tolerance; the regression test and lane 8's nine-mode Mooney-Rivlin row on this pin.

Gate	Observed	Cmp	Limit	Disposition
floor_a_side_reproduces	1	==	1	PASS
floor_b_side_tests_run	2	>=	2	PASS
floor_b_side_failures	0	==	0	PASS
floor_b_side_lane_row_passes	1	==	1	PASS

The importer's Float32 world coordinates (formerly D01)

A: on the V5 tag the same ASCII STL bar, imported through the product at world offsets, is not the origin's model at 12 offsets from ±1 m to ±100 km (archived log of FEAImportOriginInvarianceReproducerTests, quoted): 1 m: fractions differ, displacement 8.588e-06; -1 m: fractions differ, displacement 8.332e-06; 10.0 m: 704 active elements on 34×7×7; -10.0 m: 704 active elements on 34×7×7; 100.0 m: 512 active elements on 35×6×6; -100.0 m: 512 active elements on 35×6×6; 1000.0 m: 768 active elements on 34×7×7; -1000.0 m: 768 active elements on 34×7×7; 10000.0 m: refused; -10000.0 m: refused; 100000.0 m: refused; -100000.0 m: refused. B: coordinates are read in Double and a part far from its file's origin is stored in a part-local frame whose world origin (a whole multiple of the smallest power of two no shorter than the part) travels with the study; the reproducer and FEAImportPartLocalFrameTests run in this pin's build, and every lane-8 origin row passes.

Gate	Observed	Cmp	Limit	Disposition
import_origin_a_side_reproduces	1	==	1	PASS
import_origin_b_side_tests_run	6	>=	5	PASS
import_origin_b_side_failures	0	==	0	PASS
import_origin_b_side_lane_rows_pass	1	==	1	PASS

Self-contact master-face selection (formerly D03)

A (archived log of the reproducer on the V5 tag, quoted): lane 7's slot seeds 179 and 192, posed exactly as lane 7 poses them, differ between the packaged Metal and the Double CPU routes by 1.1270e-05 and 1.3960e-05 in support reaction (limit 1e-5), with 2 and 2 bearing slaves committed on a different face; two CPU solves of the same frictionless, hyperelastic slot along load steps of 0.1 and 0.05 differ by 1.1270e-05. B: self-contact pushes along the averaged nodal master normal, continuous across shared edges; the reproducer and FEASelfContactAveragedNormalTests (element and engine tangents against central differences, choice independence at a shared node, the mirrored half, the device blocks) run in this pin's build, and every self-contact slot seed of lane 7 passes. Cost: the slot seeds' median Newton iterations are 99 on the CPU and 99 on Metal on this pin, against 202 and 162 in run 3 on the face normal. (The averaged-normal force has no potential, so its line search uses the residual norm alone; how much of the cost that explains is not measured.)

Gate	Observed	Cmp	Limit	Disposition
self_contact_a_side_reproduces	1	==	1	PASS
self_contact_b_side_tests_run	6	>=	6	PASS
self_contact_b_side_failures	0	==	0	PASS
self_contact_b_side_lane_rows_pass	1	==	1	PASS

Shared-code A/B of the importer change

Whole suite, release, same host: A (V5 tag) executed 3017 tests, 35 failing; B (revision 4) executed 3025, 32 failing; failing-set differences beyond the two defect reproducers: 0 (each log carries 1 and 1 xctest process message(s) printed into a verdict line, spliced out before reading). Probe: 77 records; 73 with the part within Q/2 of the origin compared field by field through the shared parser, the CFD importer and the FEA import with linear and nonlinear solves: 0 mismatches; 4 records the fix acts on (listed, not compared on the FEA route; their shared-route fields are still compared).

Gate	Observed	Cmp	Limit	Disposition
shared_code_ab_frozen	1	==	1	PASS
shared_code_failing_set_differences	0	==	0	PASS
shared_code_tests_executed	3017	>=	1000	PASS
shared_code_probe_records	77	>=	70	PASS
shared_code_probe_unaffected_mismatches	0	==	0	PASS

STEP importer corpus A/B

Pinned STEP corpus through the product import: A (V5 tag) 165 files, 24 accepted, 141 refused by the packaged helper's reader; B (revision 4 code) 165 files, 24 accepted, 141 refused by the reader; 0 per-file field differences (status, stage, message, grid, active elements, element size, reader, advisories), elapsed time excluded.

Gate	Observed	Cmp	Limit	Disposition
step_corpus_ab_frozen	1	==	1	PASS
step_corpus_files	165	>=	165	PASS
step_corpus_accepted	24	>=	24	PASS
step_corpus_field_differences	0	==	0	PASS

Run-3 rows carried for supersession

Run 3 (20260923T094738Z, the V5 publication) is left unmodified; the rows revision 4 changes are read from a byte-identical copy of its verification record, whose SHA-256 is the one run 3's evidence manifest lists, and carried as v5r3: rows.

Gate	Observed	Cmp	Limit	Disposition
run3_record_hash_matches	1	==	1	PASS
run3_rows_all_found	1	==	1	PASS

Superseded historical rows

Historical row	Superseded gates	Replaced by
l4_arc_length_refuses_contact	refusal refusal_names_cause	l11_arc_length_contact
l4_arc_length_refuses_mixed_element	refusal refusal_names_cause	l11_arc_length_mixed_element
l5_hertz_contact		l11_hertz_rigid_sphere
l6_bending_pressure_8x2x2	element_mean_volume_change published_volume_change	l11_stabilised_bending_constraint
l6_bending_pressure_16x4x4	element_mean_volume_change published_volume_change	l11_stabilised_bending_constraint
l6_bending_pressure_32x8x8	element_mean_volume_change published_volume_change	l11_stabilised_bending_constraint
l8_product_checkpoint_restart		l11_resume_product
l8_product_publishes_element_pressure		l11_product_outputs
l8_product_publishes_contact_state		l11_product_outputs
v4:g3_continuation_past_a_limit_point_is_not_supported	solution_strategies_admitted a_limit_point_is_refused_not_traversed the_refusal_names_the_increment_floor an_unstable_branch_is_never_published_as_converged	l4_svk_limit_arc_increment_0.1
v4:k5_unsupported_contact_definitions_fail_closed	nothing_was_published every_refusal_is_typed every_refusal_names_its_cause	l5_self_contact_slot_equals_mirrored_half_on_a_rigid_plane
v5r3:l7_seed_179_self_contact_slot	support_reaction	l7_seed_179_self_contact_slot
v5r3:l7_seed_192_self_contact_slot	support_reaction	l7_seed_192_self_contact_slot
v5r3:l8_origin_stl_ascii_offset_1.0	origin_same_displacement	l8_origin_stl_ascii_offset_1.0
v5r3:l8_origin_stl_ascii_offset_-1.0	origin_same_displacement	l8_origin_stl_ascii_offset_-1.0
v5r3:l8_origin_stl_ascii_offset_10.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_ascii_offset_10.0
v5r3:l8_origin_stl_ascii_offset_-10.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_ascii_offset_-10.0
v5r3:l8_origin_stl_ascii_offset_100.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_ascii_offset_100.0
v5r3:l8_origin_stl_ascii_offset_-100.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_ascii_offset_-100.0
v5r3:l8_origin_stl_ascii_offset_1000.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_ascii_offset_1000.0
v5r3:l8_origin_stl_ascii_offset_-1000.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_ascii_offset_-1000.0
v5r3:l8_origin_stl_ascii_offset_1000000.0	origin_refusal_named	l8_origin_stl_ascii_offset_1000000.0
v5r3:l8_origin_stl_ascii_offset_-1000000.0	origin_refusal_named	l8_origin_stl_ascii_offset_-1000000.0
v5r3:l8_origin_stl_binary_offset_0.0	origin_same_occupancy origin_same_displacement	l8_origin_stl_binary_offset_0.0
v5r3:l8_origin_stl_binary_offset_1000000.0	origin_refusal_named	l8_origin_stl_binary_offset_1000000.0

Historical row	Superseded gates	Replaced by
v5r3:l8_origin_stl_binary_offset_-1000000.0	origin_refusal_named	l8_origin_stl_binary_offset_-1000000.0

Lane 1 — Element operator at random finite-strain states

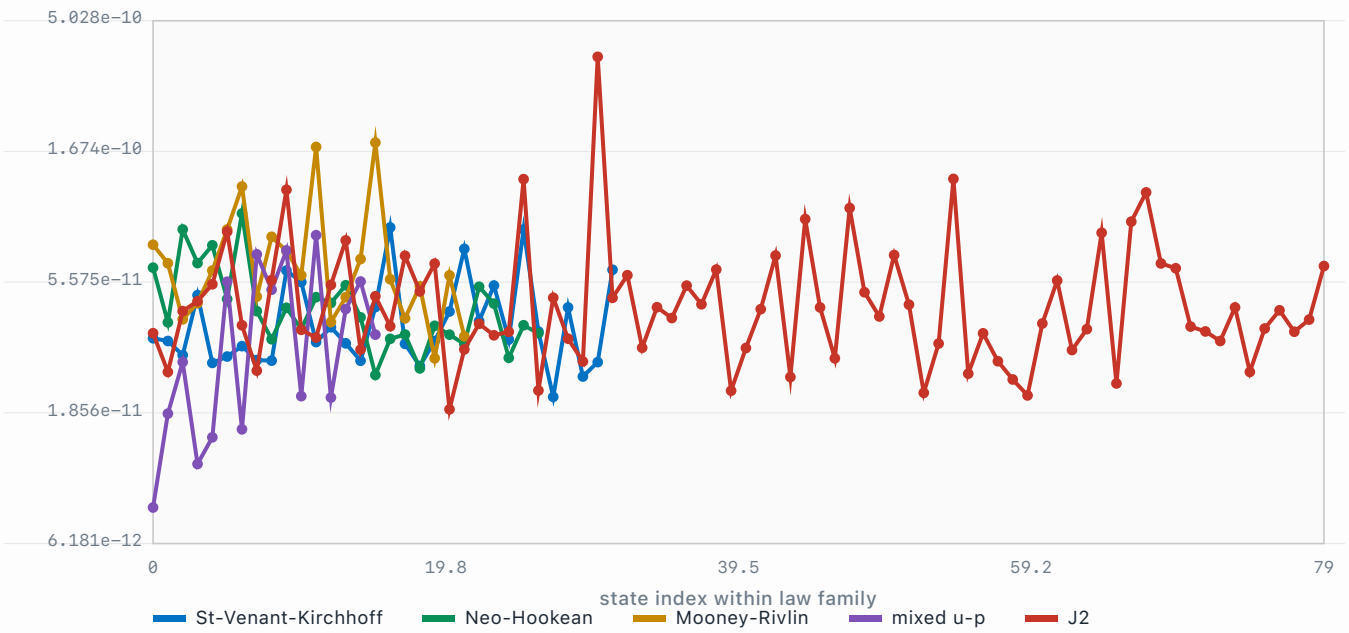
Twelve law/element combinations (St-Venant–Kirchhoff, Neo-Hookean and Mooney–Rivlin with six and nine incompatible modes; J_2 with linear and Voce hardening, six and nine modes, and with a random committed plastic history; the mixed u–p isochoric Mooney–Rivlin element), each at sixteen seeded random finite-strain states: a random rotation times random principal stretches 0.8–1.25 about random axes, a 3 % random non-homogeneous nodal perturbation and a random element aspect ratio. The product's element is compared with an INDEPENDENT Double element written in the harness from the equations (its own shape functions, strain, point laws, condensation Newton and mixed-pressure terms), with the central difference of its own force and energy, with the Schur complement of the independent element's full (24+m) Hessian, and under superposed rotation, translation, three reflections and (cubic elements) an axis permutation. Carried V4 lane E adds rank, null space and the covariance identity K r = ω × f.

Rows	`202 (V5 lanes on V6 code 197, carried V4 5, carried V5 run 3 0) · PASS 202 · FAIL 0 · SUPERSEDED 0 · NOT_SUPPORTED 0`
Gates	`2393 · evaluated 2393 · superseded 0 · NOT_RUN 0`
Status	PASS

Table 1.1 — worst value over the sixteen states of each combination (relative).

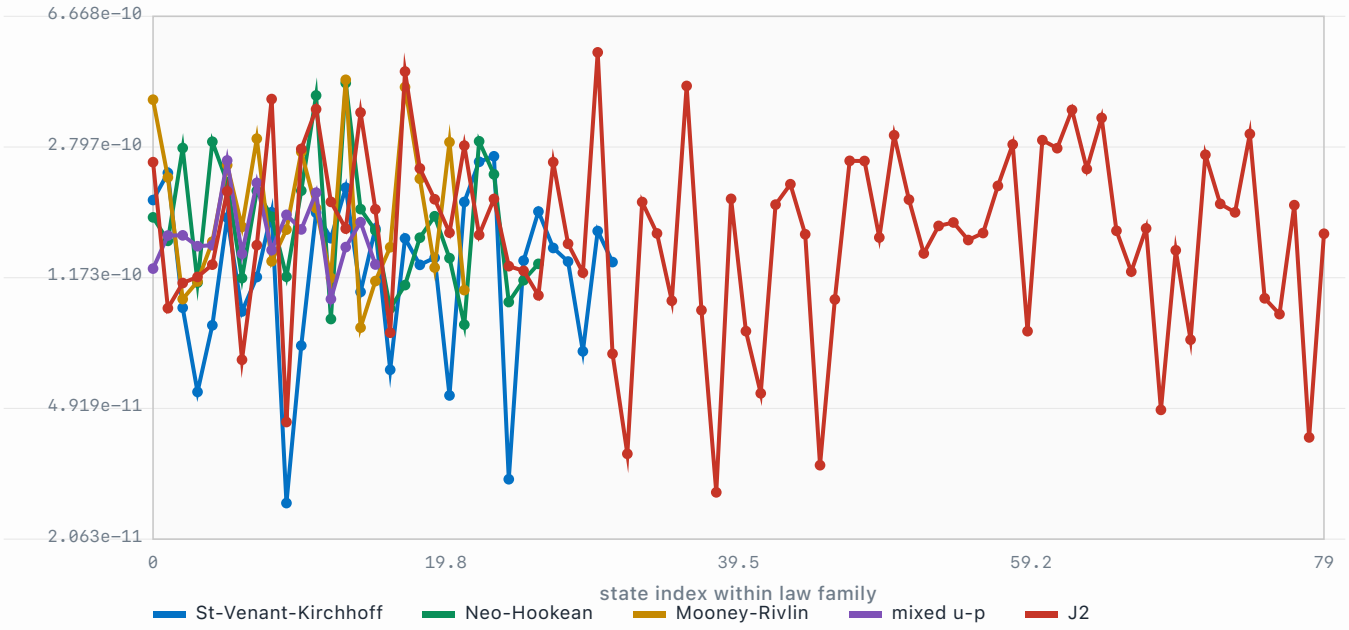
Combination	States	Force vs indep.	Energy vs indep.	K vs FD	K vs Schur	Asym.	Objectivity	Reflection	PASS
j2_committed_history_6	16	1.47e-14	—	1.19e-10	3.39e-10	4.49e-16	3.99e-14	5.92e-15	16
j2_linear_6	16	1.03e-14	—	1.21e-10	3.85e-10	4.36e-16	8.61e-14	1.38e-14	16
j2_linear_9	16	1.44e-12	—	3.71e-10	5.25e-10	4.43e-16	2.30e-14	3.54e-15	16
j2_voce_6	16	5.92e-15	—	1.04e-10	4.20e-10	4.20e-16	6.90e-14	1.03e-14	16
j2_voce_9	16	2.29e-12	—	1.33e-10	3.58e-10	4.85e-16	1.16e-14	6.52e-15	16
mixed_up_isochoric_mr	16	2.83e-13	9.04e-15	8.28e-11	2.56e-10	4.68e-16	6.45e-14	1.42e-14	16
mooney_rivlin_6	16	6.49e-15	3.14e-15	1.74e-10	3.83e-10	3.41e-16	1.48e-14	9.95e-15	16
mooney_rivlin_9	16	9.22e-15	3.77e-15	1.80e-10	4.37e-10	3.29e-16	8.25e-15	2.99e-15	16
neo_hookean_6	16	2.85e-15	1.40e-15	9.94e-11	4.28e-10	2.93e-16	1.43e-14	3.92e-15	16
neo_hookean_9	16	2.80e-15	2.44e-15	5.36e-11	2.90e-10	2.64e-16	1.17e-14	2.90e-15	16
rest_null_space	5	—	—	—	—	—	—	0	5
svk_6	16	1.71e-15	1.27e-15	6.15e-11	2.35e-10	2.32e-16	4.97e-15	3.19e-15	16
svk_9	16	1.30e-15	1.74e-15	8.83e-11	2.63e-10	2.67e-16	2.63e-15	2.08e-15	16

Figure 1.1 — tangent vs central difference of the force, every state



Central differences over a four-decade step ladder; the smallest error of the ladder is plotted. Truncation $O(h^2)$ against round-off $O(\varepsilon/h)$ limits what a difference can show.

Figure 1.2 — condensed tangent vs the Schur complement of the independent full Hessian



Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l1_rest_rank_svk_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_neo_hookean_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_mooney_rivlin_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_mixed_up_isochoric_mr	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_j2_voce_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
v4:e0_zero_state_equals_the_verified_linear_hexa8	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:e1_tangent_rank_and_null_space_at_rest	V4 carried	PASS	VERIFIED_SOLVE	7	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
v4:e1_tangent_rank_and_null_space_deformed	V4 carried	PASS	VERIFIED_SOLVE	4	0	0
v4:e2_objectivity_of_every_law	V4 carried	PASS	VERIFIED_SOLVE	8	0	0
v4:e3_patch_states_rotated_and_unrotated	V4 carried	PASS	VERIFIED_SOLVE	30	0	0

Lane 2 — Constitutive laws: closed forms, J_2 cyclic paths, checkpoints

Closed forms written from the energy as a function of the principal stretches (a derivation independent of the product's tensor formulas) for uniaxial, equibiaxial, pure-shear, volumetric and simple-shear states over an amplitude ladder from 0.6 to 2.5; seeded random cyclic strain paths through J_2 with linear and Voce hardening, each increment checked for yield consistency, non-negative dissipation equal to $S : \Delta\hat{E}^p$, plastic incompressibility, a monotone equivalent plastic strain, exact elastic unloading and agreement with an independent return-map integrator; and the checkpoint's JSON round trip and restart identity. Carried V4 lane M adds the Voce closed form and bitwise trial/commit discipline.

Rows	91 (V5 lanes on V6 code 86, carried V4 5, carried V5 run 3 0) · PASS 91 · FAIL 0 · SUPERSEDED 0 · NOT_SUPPORTED 0
Gates	703 · evaluated 703 · superseded 0 · NOT_RUN 0
Status	PASS

Table 2.1 — closed forms (worst over the amplitude ladder, relative).

Case	Stress	Energy	Tangent FD	Points	Status
l2_closed_form_svk_uniaxial	0	1.768e-16	2.070e-09	10	PASS
l2_closed_form_svk_equibiaxial	0	2.018e-16	4.967e-09	10	PASS
l2_closed_form_svk_pure_shear	0	2.114e-16	3.104e-09	10	PASS
l2_closed_form_svk_volumetric	0	1.406e-16	9.313e-10	10	PASS
l2_closed_form_svk_simple_shear	1.007e-14	2.355e-16	6.209e-10	10	PASS
l2_closed_form_neo_hookean_uniaxial	1.046e-15	1.592e-14	8.537e-10	10	PASS
l2_closed_form_neo_hookean_equibiaxial	8.441e-16	5.806e-16	3.376e-09	10	PASS
l2_closed_form_neo_hookean_pure_shear	2.316e-15	5.028e-15	5.726e-10	10	PASS
l2_closed_form_neo_hookean_volumetric	4.212e-15	6.323e-14	2.111e-09	10	PASS
l2_closed_form_neo_hookean_simple_shear	1.449e-14	2.353e-13	5.579e-10	10	PASS
l2_closed_form_mooney_rivlin_uniaxial	1.465e-15	2.652e-14	8.448e-10	10	PASS
l2_closed_form_mooney_rivlin_equibiaxial	3.498e-16	2.285e-15	1.713e-09	10	PASS
l2_closed_form_mooney_rivlin_pure_shear	4.963e-15	4.778e-14	6.487e-10	10	PASS
l2_closed_form_mooney_rivlin_volumetric	4.411e-15	2.080e-14	1.985e-09	10	PASS
l2_closed_form_mooney_rivlin_simple_shear	2.328e-14	4.080e-13	5.303e-10	10	PASS
l2_closed_form_isochoric_mooney_rivlin_uniaxial	4.575e-15	2.278e-13	2.024e-09	10	PASS
l2_closed_form_isochoric_mooney_rivlin_equibiaxial	4.629e-15	7.641e-14	1.970e-09	10	PASS

Case	Stress	Energy	Tangent FD	Points	Status
l2_closed_form_isochoric_mooney_rivlin_pure_shear	4.068e-15	4.778e-14	1.148e-09	10	PASS
l2_closed_form_isochoric_mooney_rivlin_simple_shear	8.879e-15	5.561e-13	1.303e-09	10	PASS
l2_isochoric_law_is_blind_to_dilatation	—	—	—	—	PASS

J_2 cyclic paths	64 paths · PASS 64
Worst yield consistency	1.311e−14
Least dissipation increment / σy	0
Worst S:ΔEp vs published dissipation	1.854e−13
Worst tr(Ep)	4.337e−18
Worst vs independent integrator	8.345e−15
Yielding steps (least over paths)	22

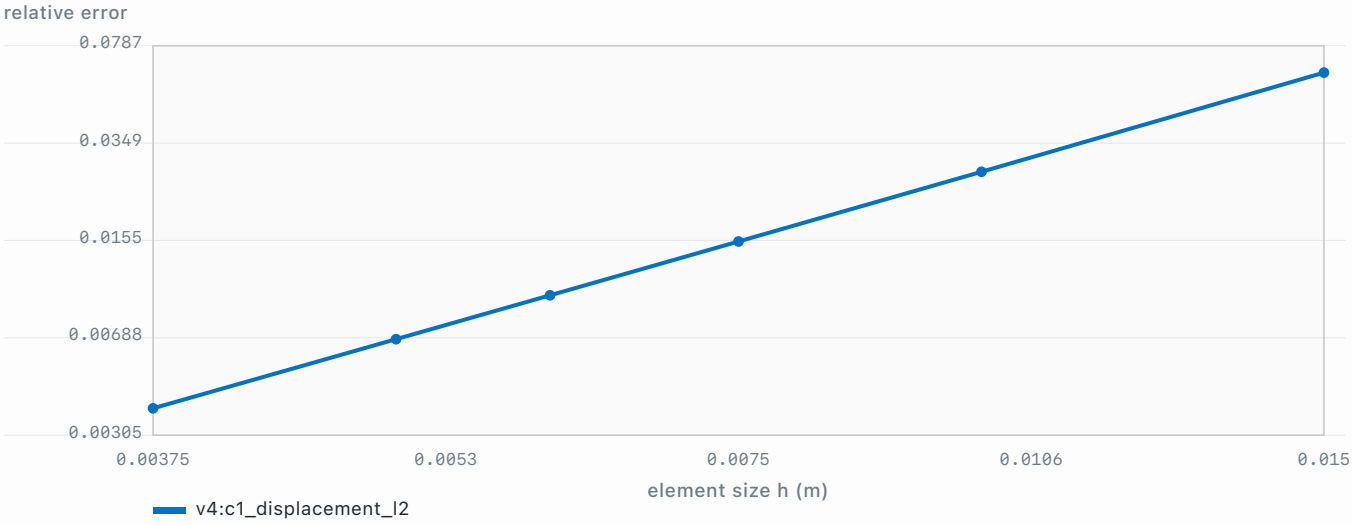
Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l2_checkpoint_json_round_trip_and_restart_identity	V6	PASS	VERIFIED_SOLVE	5	0	0
l2_cyclic_dissipation_through_restarts	V6	PASS	VERIFIED_SOLVE	5	0	0
v4:m0_the_laws_are_their_own_gradients	V4 carried	PASS	VERIFIED_SOLVE	13	0	0
v4:m1_closed_forms	V4 carried	PASS	VERIFIED_SOLVE	10	0	0
v4:m2_loading_unloading_and_reversal	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:m3_voce_saturation_hardening	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:m4_rejected_work_never_reaches_the_committed_history	V4 carried	PASS	VERIFIED_SOLVE	6	0	0

Lane 3 — Geometric nonlinearity: manufactured solution, elastica, large strain, step and tolerance convergence

Carried V4 lane C (three-dimensional St-Venant–Kirchhoff manufactured solution on six grids, forcing checked against an eighth-order difference) and lane G (Bisshopp–Drucker elastica, the linear limit, current-configuration balance, path independence), plus V5 rows: compressible Neo-Hookean uniaxial stretch to 1.8 through the solver against its two-equation closed form, load-step convergence of a plastic cantilever, tolerance convergence of a large-rotation cantilever, and a quarter turn of the whole problem in the grid.

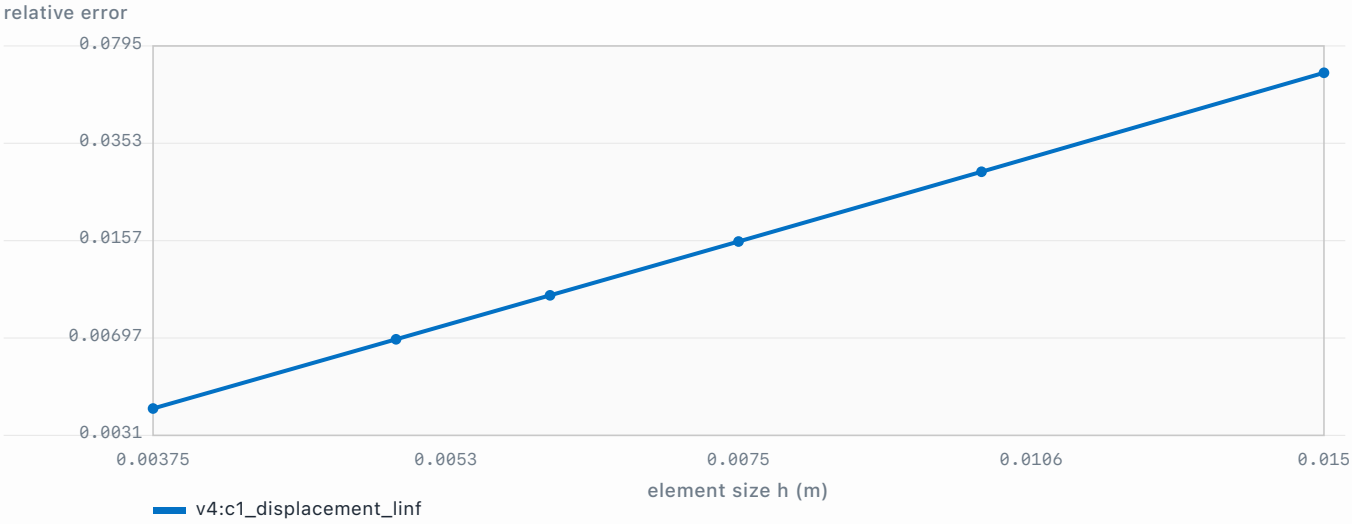
Rows	20 (V5 lanes on V6 code 6, carried V4 14, carried V5 run 3 0) · PASS 19 · FAIL 0 · SUPERSEDED 1 · NOT_SUPPORTED 0
Gates	78 · evaluated 74 · superseded 4 · NOT_RUN 0
Status	PASS

Manufactured solution — displacement relative L2 error



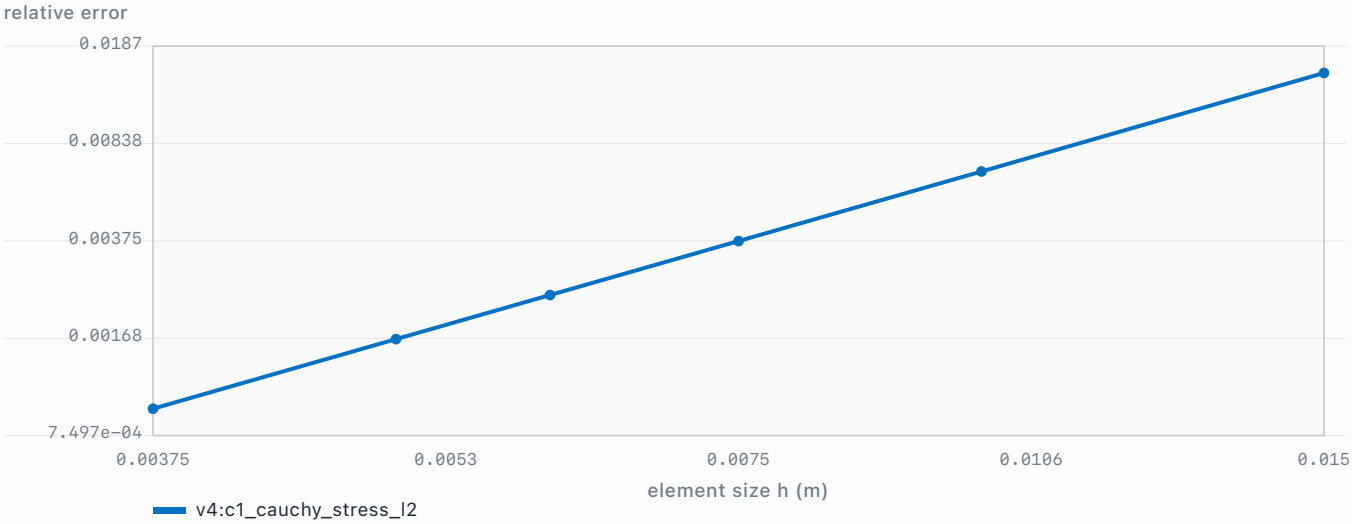
Observed order (finest pair): 2.005.

Manufactured solution — displacement relative max-norm error



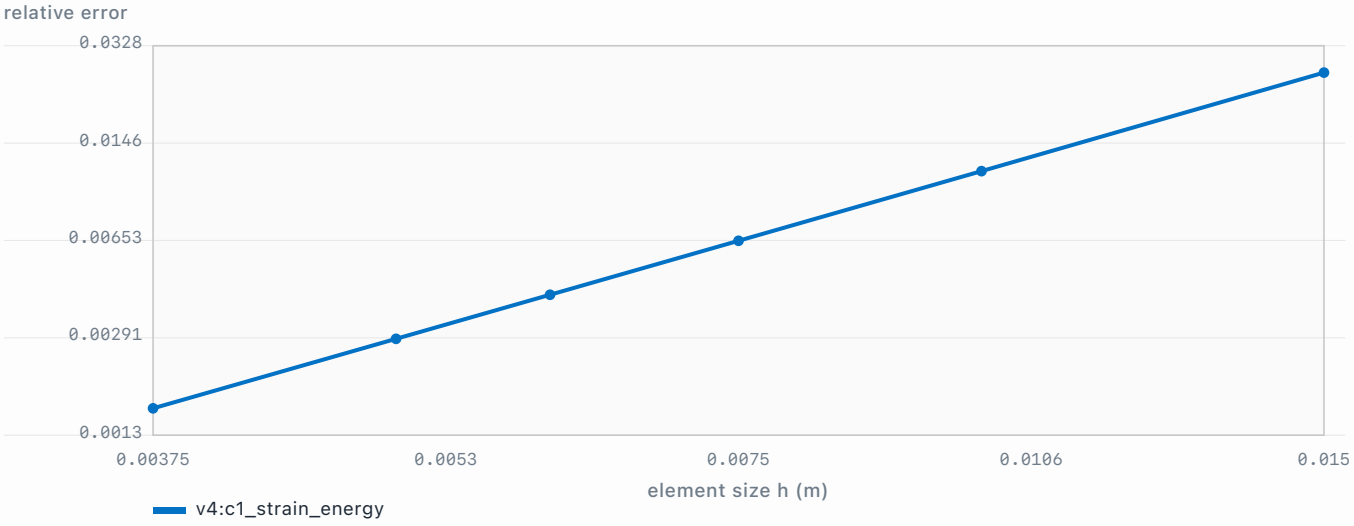
Observed order (finest pair): 2.005.

Manufactured solution — element-mean Cauchy stress relative L2 error



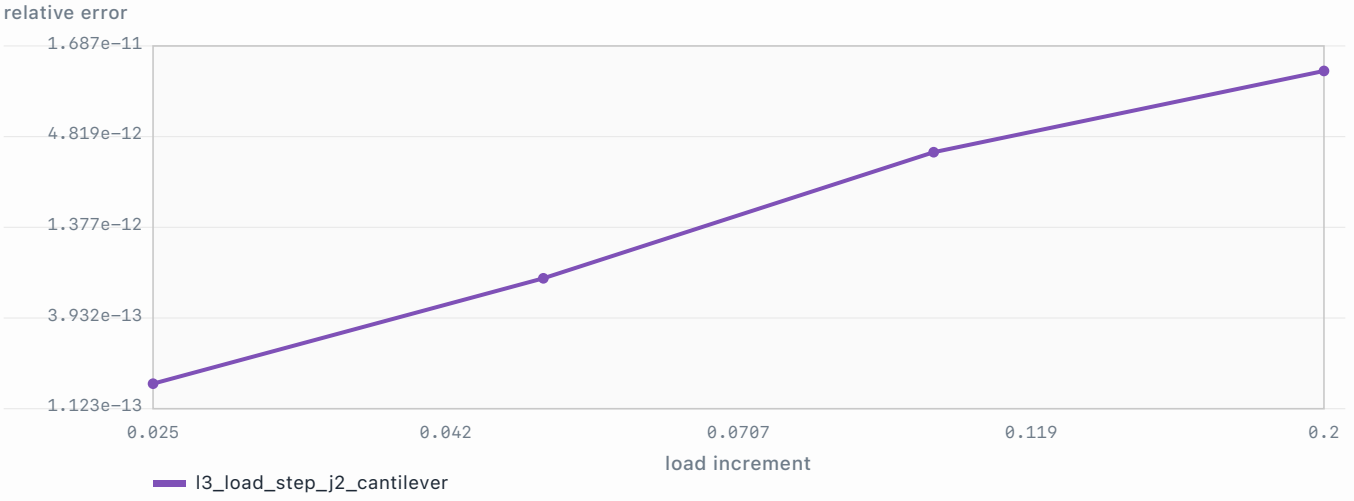
Observed order (finest pair): 1.999.

Manufactured solution — total strain energy relative error

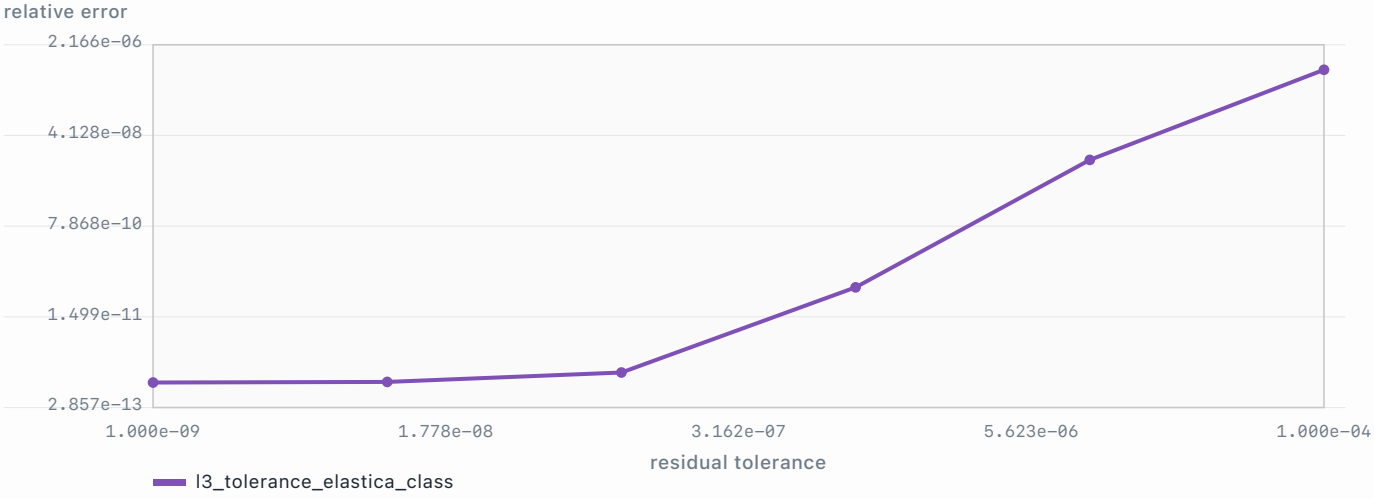


Observed order (finest pair): 2.001.

tip deflection vs load increment



displacement vs 1e-12 reference vs residual tolerance



Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l3_neo_hookean_uniaxial_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l3_neo_hookean_uniaxial_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0

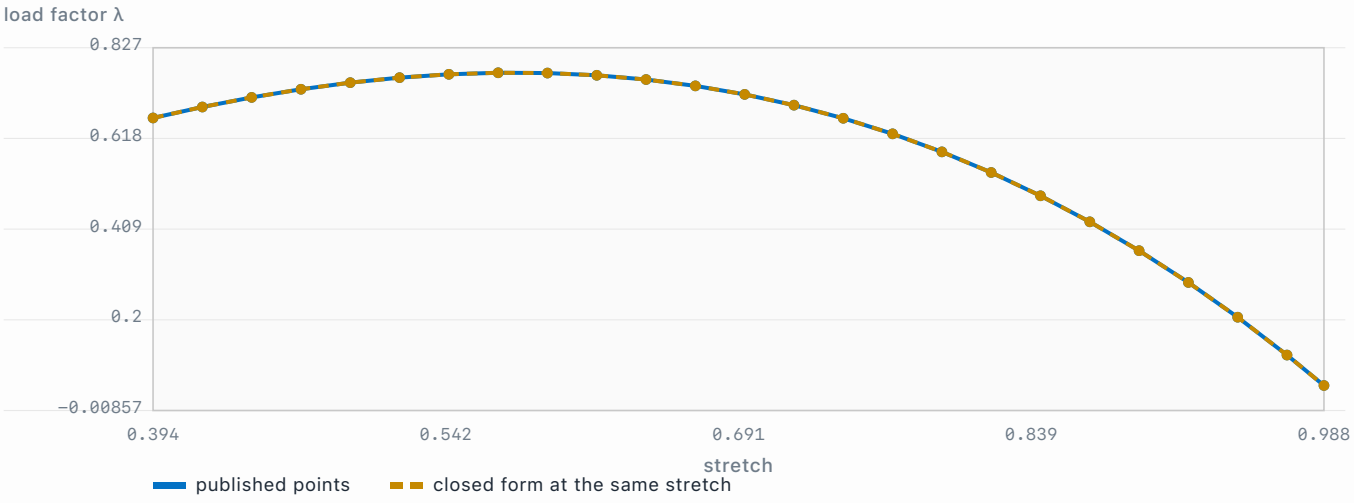
Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l3_neo_hookean_uniaxial_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l3_neo_hookean_compression_0.7_fails_closed	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l3_load_step_convergence_j2	V6	PASS	VERIFIED_SOLVE	2	0	0
l3_tolerance_convergence	V6	PASS	VERIFIED_SOLVE	3	0	0
v4:c0_the_forcing_is_independent_and_correct	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:c1_displacement_l2_converges	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:c1_displacement_linf_converges	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:c1_cauchy_stress_l2_converges	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:c1_strain_energy_converges	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:c2_iterative_error_is_separated_from_discretisation_error	V4 carried	PASS	VERIFIED_SOLVE	7	0	0
v4:c3_the_manufactured_problem_is_nonlinear	V4 carried	PASS	VERIFIED_SOLVE	3	0	0
v4:g0_the_linear_limit	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_alpha_1.0_40x2x2_L_over_h_20	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_alpha_2.0_40x2x2_L_over_h_20	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_alpha_1.0_64x2x2_L_over_h_32	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_equilibrium_in_the_current_configuration	V4 carried	PASS	VERIFIED_SOLVE	4	0	0
v4:g2_path_independence	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:g3_continuation_past_a_limit_point_is_not_supported	V4 carried	SUPERSEDED	SUPERSEDED	4	4	0

Lane 4 — Arc-length continuation and limit points

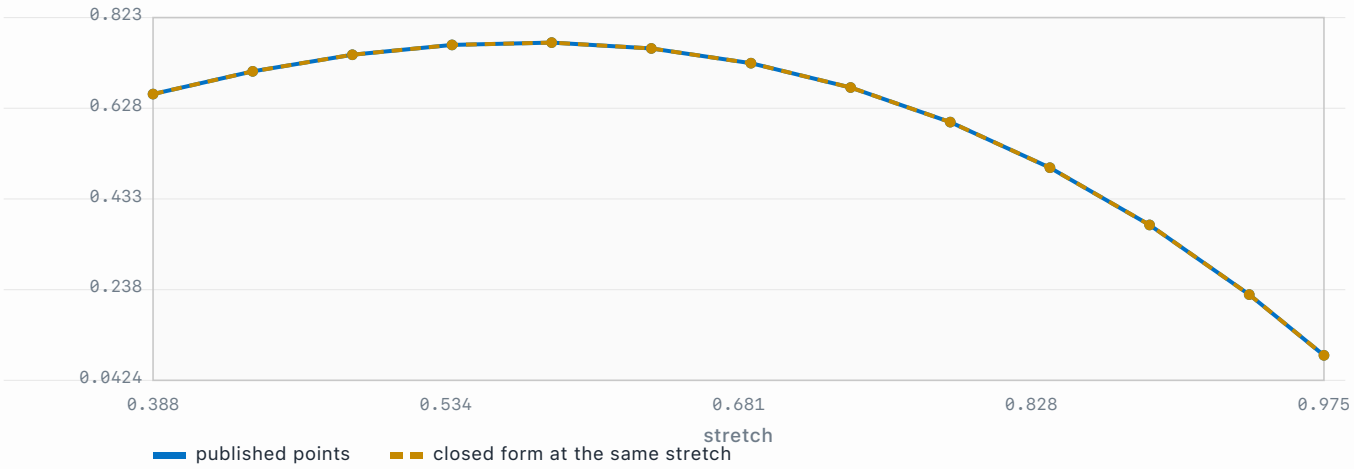
Crisfield cylindrical arc-length (NL-6). The St-Venant–Kirchhoff compressive limit point has the closed form $P = E\,s\,(s^2 - 1)/2$ with its maximum at $s = 1/\sqrt{3}$; perfect plasticity gives $P = s\,\sigma_y$ past first yield. A voxel shallow arch provides a STRUCTURAL limit point with no closed form.

Rows	`16 (V5 lanes on V6 code 16, carried V4 0, carried V5 run 3 0) · PASS 14 · FAIL 0 · SUPERSEDED 2 · NOT_SUPPORTED 0`
Gates	`58 · evaluated 54 · superseded 4 · NOT_RUN 0`
Status	PASS

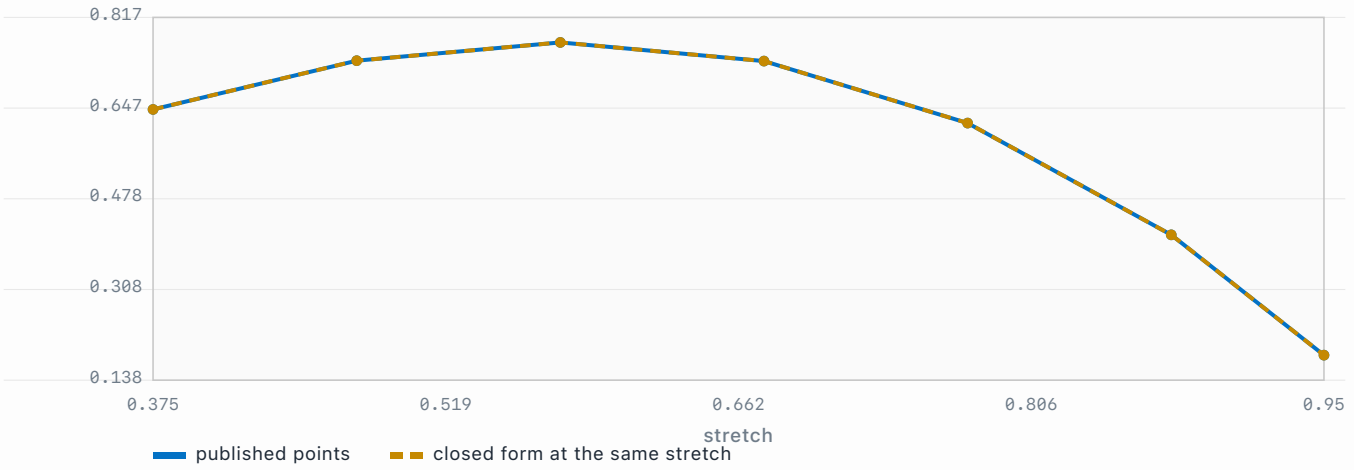
Path — l4_svk_limit_arc_increment_0.05



Path — l4_svk_limit_arc_increment_0.1



Path — l4_svk_limit_arc_increment_0.2



Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l4_svk_limit_load_control_refuses	V6	PASS	EXPECTED_REFUSAL	4	0	0
l4_svk_limit_arc_increment_0.05	V6	PASS	VERIFIED_SOLVE	10	0	0
l4_svk_limit_arc_increment_0.1	V6	PASS	VERIFIED_SOLVE	10	0	0
l4_svk_limit_arc_increment_0.2	V6	PASS	VERIFIED_SOLVE	10	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l4_svk_limit_step_sensitivity	V6	PASS	VERIFIED_SOLVE	1	0	0
l4_perfect_plasticity_arc_increment_0.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l4_perfect_plasticity_arc_increment_0.05	V6	PASS	VERIFIED_SOLVE	3	0	0
l4_arc_length_lands_on_the_terminal_load	V6	PASS	VERIFIED_SOLVE	3	0	0
l4_arc_length_slender_cantilever_cpu_and_metal	V6	PASS	DIFFERENTIAL_AGREEMENT	3	0	0
l4_arch_symmetric_bifurcation_measured	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_arc_increment_0.1	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_arc_increment_0.05	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_load_control_refuses_at_the_peak	V6	PASS	EXPECTED_REFUSAL	2	0	0
l4_arc_length_refuses_contact	V6	SUPERSEDED	SUPERSEDED	2	2	0
l4_arc_length_refuses_mixed_element	V6	SUPERSEDED	SUPERSEDED	2	2	0
l4_arc_length_refuses_full_approximation_multigrid	V6	PASS	EXPECTED_REFUSAL	2	0	0

l4_svk_limit_arc_increment_0.05

Gate	Observed	Cmp	Limit	Disposition
continuation_is_arc_length	1	==	1	PASS
points_past_limit	8	>=	3	PASS
closed_form_every_point	4.5368e-16	<=	1.0000e-08	PASS
peak_never_exceeds_limit	-3.3119e-04	<=	1.0000e-09	PASS
stiffness_sign_changes	1	==	1	PASS
branch_monotone_violations	0	==	0	PASS
located_limit_load_error	1.2251e-05	<=	0.001	PASS
located_limit_stretch_error	2.0460e-04	<=	0.05	PASS
every_point_equilibrium	8.1254e-11	<=	1.0000e-10	PASS
path_descends_after_limit	1	==	1	PASS

l4_arch_arc_increment_0.1

Gate	Observed	Cmp	Limit	Disposition
arch_symmetric_published_or_typed	1	==	1	PASS

Lane 5 — Contact, friction, self-contact, origin invariance

Carried V4 lane K (seating, the Coulomb ladder to 0.99 μp, action–reaction, edge and corner projection) plus V5: origin invariance by embedding the same frictional interface at element offsets of 0, 64 and 1,024 along each axis (and the same rows re-run in a separate process with the pre-NL-6 absolute kinematics, as a sensitivity witness), the pressure patch test, frictional dissipation through press, stick, slip and reversal, the reversal to 1e-8, face transitions of a beam closing onto a block, and self-contact (a closing slot against its mirrored half on a rigid plane).

Rows	31 (V5 lanes on V6 code 25, carried V4 6, carried V5 run 3 0) · PASS 29 · FAIL 0 · SUPERSEDED 2 · NOT_SUPPORTED 0
Gates	87 · evaluated 84 · superseded 3 · NOT_RUN 0
Status	PASS

Table 5.1 — origin invariance. The witness rows (absolute kinematics) are reported, not gated as a pass; "refused" marks an offset at which the witness did not solve.

Case	dx	dy	dz	Field gap	Force gap	Status
l5_origin_slave_centred_offset_0_0_0	0	0	0	0	0	PASS
l5_origin_slave_centred_offset_64_0_0	64	0	0	5.575e-08	9.819e-09	PASS
l5_origin_slave_centred_offset_0_64_0	0	64	0	5.569e-08	9.935e-09	PASS
l5_origin_slave_centred_offset_0_0_64	0	0	64	5.565e-08	9.939e-09	PASS
l5_origin_slave_centred_offset_1024_0_0	1.02e+03	0	0	5.575e-08	9.819e-09	PASS
l5_origin_slave_centred_offset_0_0_1024	0	0	1.02e+03	5.565e-08	9.939e-09	PASS
l5_origin_slave_centred_growth_with_offset	—	—	—	—	—	PASS
l5_origin_absolute_witness_offset_0_0_0	0	0	0	0	0	PASS
l5_origin_absolute_witness_offset_64_0_0	64	0	0	refused	refused	PASS
l5_origin_absolute_witness_offset_0_64_0	0	64	0	refused	refused	PASS
l5_origin_absolute_witness_offset_0_0_64	0	0	64	refused	refused	PASS
l5_origin_absolute_witness_offset_1024_0_0	1.02e+03	0	0	refused	refused	PASS
l5_origin_absolute_witness_offset_0_0_1024	0	0	1.02e+03	refused	refused	PASS
l5_origin_absolute_witness_summary	—	—	—	—	—	PASS

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l5_origin_slave_centred_offset_0_0_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_64_0_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_0_64_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_0_0_64	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_1024_0_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_0_0_1024	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_growth_with_offset	V6	PASS	VERIFIED_SOLVE	1	0	0
l5_rigid_plane_point_moved_along_the_plane	V6	PASS	VERIFIED_SOLVE	2	0	0
l5_pressure_patch_test	V6	PASS	VERIFIED_SOLVE	5	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l5_coulomb_ladder_0.5_mu_p	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_coulomb_ladder_0.9_mu_p	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_coulomb_ladder_0.99_mu_p	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_slip_is_witnessed	V6	PASS	VERIFIED_SOLVE	1	0	0
l5_frictional_reversal_to_the_body_contact_tolerance	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_face_transitions_sliding_column	V6	PASS	VERIFIED_SOLVE	6	0	0
l5_self_contact_slot_equals_mirrored_half_on_a_rigid_plane	V6	PASS	VERIFIED_SOLVE	5	0	0
l5_self_contact_on_a_convex_body_is_inert	V6	PASS	VERIFIED_SOLVE	2	0	0
l5_hertz_contact	V6	SUPERSEDED	SUPERSEDED	0	0	0
l5_origin_absolute_witness_offset_0_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_64_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_64_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_64	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_1024_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_1024	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_summary	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
v4:k0_rigid_plane_with_coulomb_friction	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:k1_node_matched_interface_carries_a_uniform_pressure	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:k2_projection_is_the_exact_closest_point	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:k3_pair_tangent_is_the_derivative_of_the_applied_force	V4 carried	PASS	VERIFIED_SOLVE	4	0	0
v4:k4_stick_slip_and_reversal	V4 carried	PASS	VERIFIED_SOLVE	8	0	0
v4:k5_unsupported_contact_definitions_fail_closed	V4 carried	SUPERSEDED	SUPERSEDED	3	3	0

Lane 6 — Incompressibility: mixed u–p, inf–sup, stability map

The mixed u–p (Q1/P0) element with augmented-Lagrangian element pressures. The discrete divergence is checked against the product's element; the inf–sup study computes the pressure null space and β_h independently in the harness; the published pressure is examined for checkerboard content and refinement behaviour; κ is varied over two decades with a fail-closed row at 2000 μ; and a fail-closed stability map covers meshes, aspect ratios and stretches from 0.6 to 2.0.

Rows	286 (V5 lanes on V6 code 285, carried V4 1, carried V5 run 3 0) · PASS 283 · FAIL 0 · SUPERSEDED 3 · NOT_SUPPORTED 0
Gates	619 · evaluated 613 · superseded 6 · NOT_RUN 0
Status	PASS

Table 6.1 — Q1/P0 pressure Schur complement on n³ unit cubes.

Case	Pressures	Zero eig.	Spurious	β_h	Checker in ker	Status
l6_infsup_clamped_n2	8	5	4	0.433	1	PASS
l6_infsup_clamped_n3	27	8	7	0.254	1	PASS
l6_infsup_clamped_n4	64	11	10	0.177	1	PASS
l6_infsup_clamped_n5	125	14	13	0.127	1	PASS
l6_infsup_clamped_n6	216	17	16	0.0945	1	PASS
l6_infsup_cantilever_n2	8	0	0	0.658	0	PASS
l6_infsup_cantilever_n3	27	0	0	0.369	0	PASS
l6_infsup_cantilever_n4	64	0	0	0.238	0	PASS
l6_infsup_cantilever_n5	125	0	0	0.166	0	PASS
l6_infsup_cantilever_n6	216	0	0	0.121	0	PASS

Figure 6.1 — discrete inf–sup constant β_h

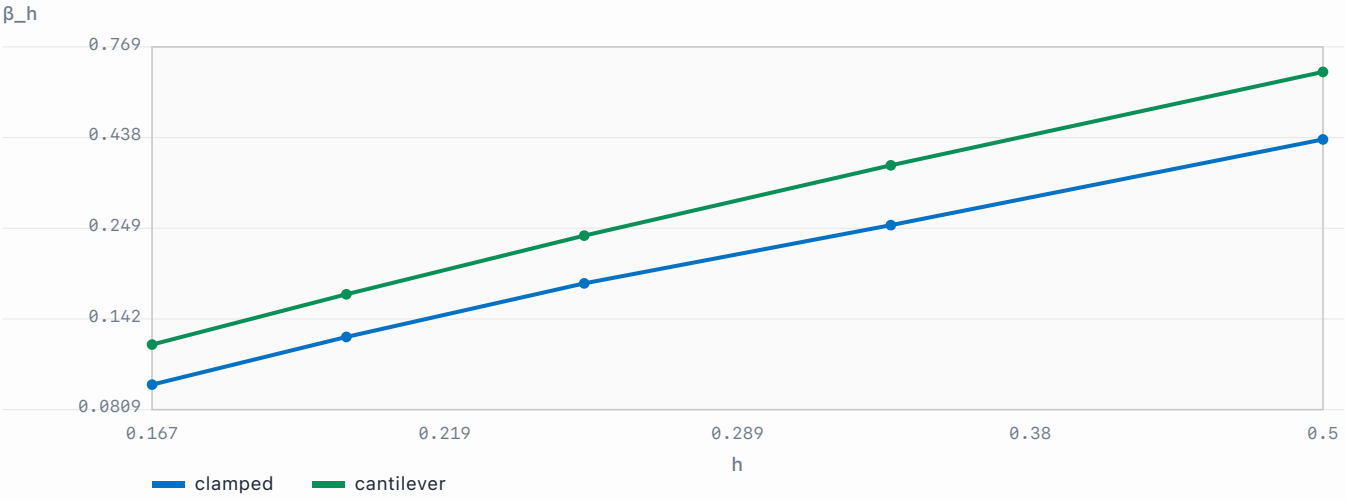


Table 6.2 — stability map. ✓ solved on the closed form; R refused by name (fail-closed); ✕ published a wrong answer; R! refused without naming its cause.

law · mesh · aspect	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0
neo hookean 1x1x1 aspect 111	R	R	R	✓	✓	✓	✓	✓	✓	✓	✓
neo hookean 1x1x1 aspect 211	R	R	R	✓	✓	✓	✓	✓	✓	✓	✓
neo hookean 1x1x1 aspect 122	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
neo hookean 2x2x2 aspect 111	R	R	✓	✓	✓	✓	✓	✓	R	R	R
neo hookean 2x2x2 aspect 211	R	R	✓	✓	✓	✓	✓	✓	R	R	R
neo hookean 2x2x2 aspect 122	R	R	R	✓	✓	✓	✓	✓	✓	✓	R
neo hookean 4x2x2 aspect 111	R	R	✓	✓	✓	✓	✓	✓	R	R	R
neo hookean 4x2x2 aspect 211	R	✓	✓	✓	✓	✓	R	R	R	R	R
neo hookean 4x2x2 aspect 122	R	R	R	✓	✓	✓	✓	✓	✓	✓	R
neo hookean 4x4x4 aspect 111	R	R	✓	✓	✓	✓	✓	✓	R	R	R
neo hookean 4x4x4 aspect 211	R	R	✓	✓	✓	✓	R	R	R	R	R
neo hookean 4x4x4 aspect 122	R	R	R	✓	✓	✓	✓	✓	✓	✓	R
mooney rivlin 1x1x1 aspect 111	R	R	R	✓	✓	✓	✓	✓	✓	✓	✓
mooney rivlin 1x1x1 aspect 211	R	R	R	✓	✓	✓	✓	✓	✓	✓	✓
mooney rivlin 1x1x1 aspect 122	R	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
mooney rivlin 2x2x2 aspect 111	R	R	✓	✓	✓	✓	✓	✓	R	R	R

law · mesh · aspect	0.6	0.7	0.8	0.9	1.1	1.2	1.3	1.4	1.6	1.8	2.0
mooney rivlin 2x2x2 aspect 211	R	R	✓	✓	✓	✓	✓	✓	R	R	R
mooney rivlin 2x2x2 aspect 122	R	R	R	✓	✓	✓	✓	✓	✓	✓	R
mooney rivlin 4x2x2 aspect 111	R	R	✓	✓	✓	✓	✓	✓	R	R	R
mooney rivlin 4x2x2 aspect 211	R	✓	✓	✓	✓	✓	R	R	R	R	R
mooney rivlin 4x2x2 aspect 122	R	R	R	✓	✓	✓	✓	✓	✓	R	R
mooney rivlin 4x4x4 aspect 111	R	R	✓	✓	✓	✓	✓	✓	R	R	R
mooney rivlin 4x4x4 aspect 211	R	R	✓	✓	✓	✓	R	R	R	R	R
mooney rivlin 4x4x4 aspect 122	R	R	R	✓	✓	✓	✓	✓	✓	R	R

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_divergence_operator_matches_the_product_element	V6	PASS	VERIFIED_OPERATOR	1	0	0
l6_infsup_clamped_n2	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n3	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n4	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n5	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n6	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_summary_clamped	V6	PASS	KNOWN_LIMITATION_CONFIRMED	2	0	0
l6_infsup_cantilever_n2	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n3	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n4	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n5	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n6	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_summary_cantilever	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_bending_pressure_8x2x2	V6	**SUPERSEDED**	SUPERSEDED	3	2	0
l6_bending_pressure_16x4x4	V6	**SUPERSEDED**	SUPERSEDED	3	2	0
l6_bending_pressure_32x8x8	V6	**SUPERSEDED**	SUPERSEDED	3	2	0
l6_bending_does_not_lock	V6	PASS	VERIFIED_SOLVE	2	0	0
l6_pressure_refinement	V6	PASS	VERIFIED_SOLVE	1	0	0
l6_penalty_is_conditioning_only	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_penalty_2000_mu_fails_closed	V6	PASS	VERIFIED_SOLVE	1	0	0
v4:l0_volumetric_locking_against_the_poisson_ratio	V4 carried	PASS	KNOWN_LIMITATION_CONFIRMED	7	0	0

Lane 7 — Metal / CPU-Double differential (DIFFERENTIAL, not validation)

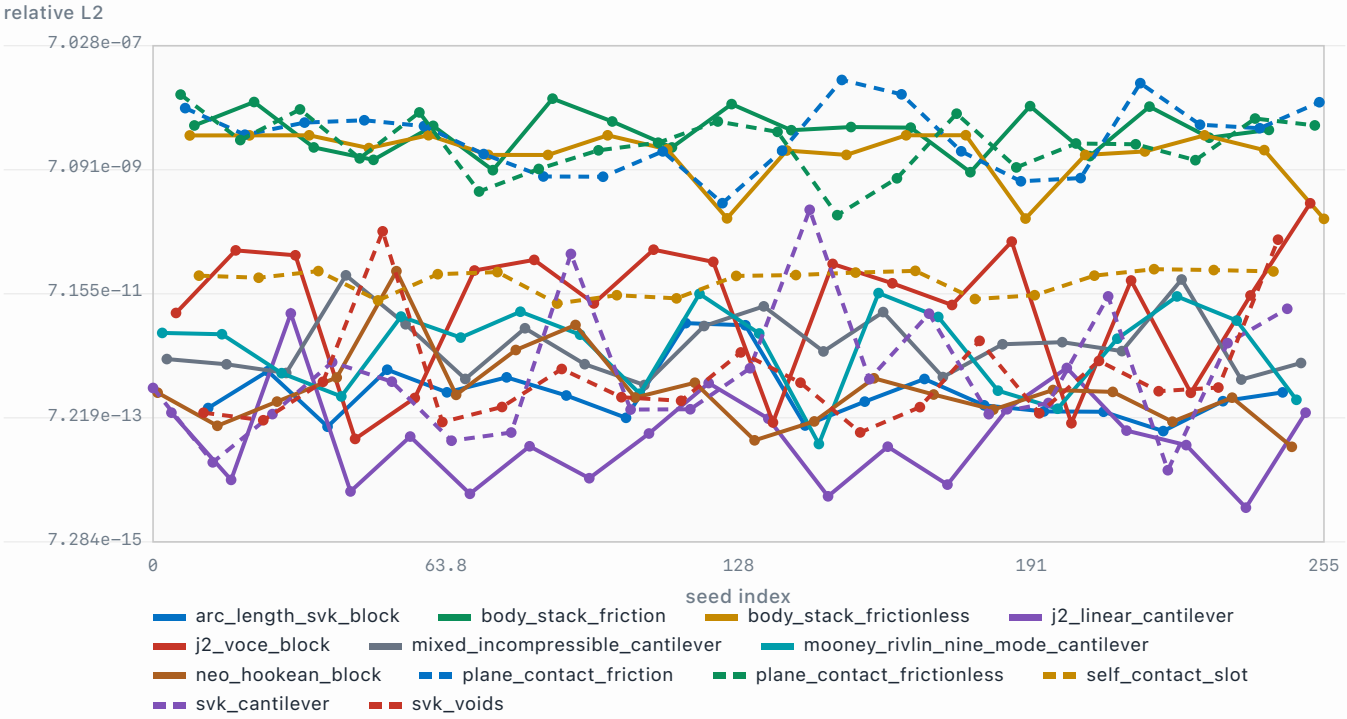
Seeded DIFFERENTIAL testing: the packaged Metal route at its tolerance against the Double CPU route at a tighter one, over families that span every law, both element widths, the mixed element, rigid-plane and body contact with and without friction, self-contact, voids and arc-length. Agreement of two Lattiform backends is evidence of neither's correctness; it is recorded as DIFFERENTIAL and never as validation.

Rows	259 (V5 lanes on V6 code 257, carried V4 0, carried V5 run 3 2) · PASS 257 · FAIL 0 · SUPERSEDED 2 · NOT_SUPPORTED 0
Gates	3357 · evaluated 3355 · superseded 2 · NOT_RUN 0
Status	PASS

Table 7.1 — per family. "Both solved" counts seeds both backends solved (the harness's agreed outcome); "Met every gate" counts seeds whose row PASSED every differential gate.

Family	Seeds	Both solved	Met every gate	Worst u L2	Worst u L∞	Worst energy	Worst reaction
arc_length_svk_block	19	19	19	2.41e-11	4.04e-11	3.29e-11	2.97e-11
body_stack_friction	19	19	19	9.90e-08	1.13e-07	3.04e-10	1.64e-08
body_stack_frictionless	20	20	20	2.55e-08	4.71e-08	9.28e-10	1.62e-08
j2_linear_cantilever	20	20	20	3.46e-11	3.23e-11	6.45e-11	5.20e-11
j2_voce_block	20	20	20	2.05e-09	2.59e-09	5.76e-10	2.61e-09
mixed_incompressible_cantilever	20	20	20	1.42e-10	1.28e-10	2.24e-10	4.11e-10
mooney_rivlin_nine_mode_ cantilever	20	20	20	7.35e-11	5.76e-11	1.34e-10	2.46e-10
neo_hookean_block	20	20	20	1.65e-10	1.67e-10	3.32e-10	1.68e-10
plane_contact_friction	20	20	20	1.98e-07	1.63e-07	1.64e-09	2.63e-08
plane_contact_frictionless	20	20	20	1.15e-07	2.41e-07	3.96e-11	7.33e-08
self_contact_slot	19	19	19	1.78e-10	1.74e-10	1.03e-11	5.04e-10
svk_cantilever	20	20	20	1.61e-09	1.49e-09	2.97e-09	2.40e-09
svk_voids	19	19	19	7.25e-10	6.65e-10	1.29e-09	1.27e-09

Figure 7.1 — displacement L2 difference, Metal vs CPU/Double, every seed



Lane 8 — The product route, end to end

Every solve here goes through FEAStudySolver.solve — the entry point the application calls — from an imported STL to published results, with the packaged Metal backend, save and reload, and the typed failures a user can reach. What the study route does not do is declared NOT SUPPORTED rather than implied.

Rows	58 (V5 lanes on V6 code 45, carried V4 0, carried V5 run 3 13) · PASS 42 · FAIL 0 · SUPERSEDED 16 · NOT_SUPPORTED 0
Gates	203 · evaluated 183 · superseded 20 · NOT_RUN 0
Status	PASS

Table 8.1 — four laws on the packaged Metal route.

Case	λ	Balance	vs engine	σvM vs engine	Load N	Status
l8_law_neo_hookean_with_rigid_stop	1	7.486e-13	1.484e-11	9.936e-12	120	PASS
l8_law_j2_plasticity	1	1.349e-10	7.598e-11	8.189e-11	140	PASS
l8_law_mooney_rivlin_nine_mode	1	2.508e-10	4.731e-11	1.193e-10	40	PASS
l8_law_incompressible_mooney_rivlin_primitive_domain	1	5.097e-10	2.662e-12	5.352e-11	40	PASS

Table 8.2 — the same 40 × 5 × 5 mm bar imported at world offsets. ASCII rows are compared with the ASCII bar at the origin; binary rows with the float32 box the file actually holds (File box), written to 17 digits and imported at the origin. A refusal must name its cause and is correct only where that box has a side of zero.

Row	Offset (m)	File box (mm)	Elements	vs reference	Frame x (m)	float32 note	Status
ascii_offset_0.0	0	40 × 5 × 5	512	0	0	—	PASS
ascii_offset_1.0	1	40 × 5 × 5	512	0	1	—	PASS
ascii_offset_-1.0	-1	40 × 5 × 5	512	0	-1	—	PASS
ascii_offset_10.0	10	40 × 5 × 5	512	0	10	—	PASS
ascii_offset_-10.0	-10	40 × 5 × 5	512	0	-10	—	PASS

Row	Offset (m)	File box (mm)	Elements	vs reference	Frame x (m)	float32 note	Status
ascii_offset_100.0	100	40 × 5 × 5	512	0	100	—	PASS
ascii_offset_-100.0	-100	40 × 5 × 5	512	0	-100	—	PASS
ascii_offset_1000.0	1000	40 × 5 × 5	512	0	1000	—	PASS
ascii_offset_-1000.0	-1000	40 × 5 × 5	512	0	-1000	—	PASS
ascii_offset_10000.0	10000	40 × 5 × 5	512	0	10000	—	PASS
ascii_offset_-10000.0	-10000	40 × 5 × 5	512	0	-10000	—	PASS
ascii_offset_100000.0	100000	40 × 5 × 5	512	0	100000	—	PASS
ascii_offset_-100000.0	-100000	40 × 5 × 5	512	0	-100000	—	PASS
ascii_offset_1000000.0	1e+06	40 × 5 × 5	512	0	1e+06	—	PASS
ascii_offset_-1000000.0	-1e+06	40 × 5 × 5	512	0	-1e+06	—	PASS
binary_offset_0.0	0	40 × 5 × 5	512	0	0	none	PASS
binary_offset_1.0	1	40 × 5 × 5	512	0	1	none	PASS
binary_offset_-1.0	-1	40 × 5 × 5	512	0	-1	none	PASS
binary_offset_10.0	10	40 × 5 × 5	512	0	10	none	PASS
binary_offset_-10.0	-10	40 × 5 × 5	512	0	-10	none	PASS
binary_offset_100.0	100	40 × 4.997 × 4.997	528	0	100	said	PASS
binary_offset_-100.0	-100	40 × 4.997 × 4.997	528	0	-100	said	PASS
binary_offset_1000.0	1000	39.98 × 5.005 × 5.005	800	0	1000	said	PASS
binary_offset_-1000.0	-1000	39.98 × 5.005 × 5.005	800	0	-1000	said	PASS
binary_offset_10000.0	10000	40.04 × 4.883 × 4.883	528	0	10000	said	PASS
binary_offset_-10000.0	-10000	40.04 × 4.883 × 4.883	528	0	-10000	said	PASS
binary_offset_100000.0	100000	39.06 × 7.812 × 7.812	1568	0	100000	said	PASS
binary_offset_-100000.0	-100000	39.06 × 7.812 × 7.812	1568	0	-100000	said	PASS
binary_offset_1000000.0	1e+06	62.5 × 0 × 0	refused	—	—	—	PASS
binary_offset_-1000000.0	-1e+06	62.5 × 0 × 0	refused	—	—	—	PASS

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l8_origin_stl_ascii_offset_0.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_1.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-1.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_10.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-10.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_100.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-100.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_1000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-1000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_10000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-10000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_100000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-100000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_1000000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-1000000.0	V6	PASS	VERIFIED_SOLVE	4	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l8_origin_stl_binary_offset_0.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_1.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-1.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_10.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-10.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_100.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-100.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_1000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-1000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_10000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-10000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_100000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-100000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_1000000.0	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_origin_stl_binary_offset_-1000000.0	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_law_neo_hookean_with_rigid_stop	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_law_j2_plasticity	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_law_mooney_rivlin_nine_mode	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_law_incompressible_mooney_rivlin_primitive_domain	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_incompressible_law_on_imported_voided_grid_refuses	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_save_reload_resolve	V6	PASS	VERIFIED_SOLVE	3	0	0
l8_refuses_invalid_settings_in_preflight	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_arc_length_on_imported_voided_grid	V6	PASS	ROBUSTNESS	1	0	0
l8_refuses_to_publish_below_full_load	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_refuses_a_corrupt_library	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_refuses_beyond_the_memory_budget	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_cancellation_mid_solve	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_product_checkpoint_restart	V6	SUPERSEDED	SUPERSEDED	0	0	0
l8_product_publishes_element_pressure	V6	SUPERSEDED	SUPERSEDED	0	0	0
l8_product_publishes_contact_state	V6	SUPERSEDED	SUPERSEDED	0	0	0
v5r3:l8_origin_stl_ascii_offset_1.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	1	0
v5r3:l8_origin_stl_ascii_offset_-1.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	1	0
v5r3:l8_origin_stl_ascii_offset_10.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_-10.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_100.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_-100.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_1000.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_-1000.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_1000000.0	V5 run 3	SUPERSEDED	SUPERSEDED	1	1	0
v5r3:l8_origin_stl_ascii_offset_-1000000.0	V5 run 3	SUPERSEDED	SUPERSEDED	1	1	0
v5r3:l8_origin_stl_binary_offset_0.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_binary_offset_1000000.0	V5 run 3	SUPERSEDED	SUPERSEDED	1	1	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
v5r3:l8_origin_stl_binary_offset_-1000000.0	V5 run 3	**SUPERSEDED**	SUPERSEDED	1	1	0

Lane 9 — Robustness: typed refusals

Every probe must end in a typed refusal that names its cause and publishes nothing; a Metal request never returns a CPU answer and never compiles Metal source at run time. Carried V4 lane B adds the host-memory budget, missing and corrupt packaged libraries in sacrificial processes, and an inner solve that cannot converge.

Rows `29 (V5 lanes on V6 code 27, carried V4 2, carried V5 run 3 0) · PASS 29 · FAIL 0 · SUPERSEDED 0 · NOT_SUPPORTED 0`

Gates `93 · evaluated 93 · superseded 0 · NOT_RUN 0`

Status PASS

Probe	Status	Refusal (first 150 characters)
l9_non_finite_load	PASS	nonlinear_invalid_input:problem:reference_load_nonfinite:node_80_component_2
l9_density_count_mismatch	PASS	nonlinear_invalid_input:problem:density_count_31_expected_32
l9_constraint_count_mismatch	PASS	nonlinear_invalid_input:problem:constraint_count_80_expected_81
l9_negative_modulus	PASS	nonlinear_invalid_input:problem:material_invalid:youngs_modulus_-1000000000.0_poissons_ratio_0.3
l9_compressible_law_at_nu_one_half	PASS	nonlinear_invalid_input:problem:material_invalid:youngs_modulus_200000000000.0_poissons_ratio_0.5
l9_zero_element_size	PASS	nonlinear_invalid_input:problem:grid_invalid
l9_negative_yield_stress	PASS	nonlinear_constitutive_input_invalid:j2_yield_stress_must_be_positive
l9_mooney_rivlin_beyond_its_poisson_cap	PASS	nonlinear_constitutive_input_invalid:mooney_rivlin_nearly_incompressible_unsupported:small_strain_poissons_ratio_0.50000_exceeds_0.495:the_displacemen
l9_contact_plane_normal_not_unit	PASS	nonlinear_constitutive_input_invalid:contact_plane_normal_must_be_a_unit_vector
l9_negative_friction	PASS	nonlinear_constitutive_input_invalid:contact_friction_coefficient_must_be_non_negative
l9_contact_pair_names_a_missing_body	PASS	nonlinear_constitutive_input_invalid:contact_pair_names_body_7_of_2
l9_invalid_settings	PASS	nonlinear_invalid_input:settings
l9_invalid_arc_length_settings	PASS	nonlinear_invalid_input:settings
l9_no_supports	PASS	nonlinear_insufficient_rigid_body_constraints:rank_0_of_6
l9_disconnected_loaded_body	PASS	nonlinear_increment_below_minimum:lambda_0.0:increment_9.765625e-05:cause_nonlinear_tangent_not_positive_definite:step_1:lambda_0.0:newton_8:cg_85:cur
l9_load_control_past_a_limit_point	PASS	nonlinear_increment_below_minimum:lambda_0.7591796875000001:increment_6.866455078125e-05:cause_nonlinear_tangent_not_positive_definite:step_7:lambda_0
l9_initial_penetration_beyond_the_limit	PASS	nonlinear_contact_penetration_excessive:step_0:lambda_0.0:penetration_0.004:limit_0.0002
l9_shear_beyond_the_coulomb_capacity	PASS	nonlinear_increment_below_minimum:lambda_0.0:increment_9.765625e-05:cause_nonlinear_inner_solve_did_not_converge:step_1:newton_14:relative_residual_4.
l9_cutback_exhaustion	PASS	nonlinear_increment_below_minimum:lambda_0.0:increment_0.5:cause_nonlinear_newton_did_not_converge:step_1:lambda_1.0:iterations_2:force_residual_0.278
l9_memory_budget_below_the_model	PASS	nonlinear_memory_budget_exceeded:required_154048:budget_4096
l9_restart_from_another_mesh	PASS	nonlinear_constitutive_input_invalid:restart_checkpoint_is_for_another_mesh
l9_missing_materials_library	PASS	nonlinear_metallib_integrity:unreadable:/nonexistent/lattiform/strength_nonlinear_materials_v1.metallib
l9_missing_tangent_library	PASS	nonlinear_metallib_integrity:unreadable:/nonexistent/lattiform/strength_nonlinear_v1.metallib
l9_corrupt_materials_library	PASS	nonlinear_metallib_integrity:unloadable:/var/folders/qj/w_y944rd0_l81hntbpkd0cpw0000gn/T/nlsv5-F1E91CA2-DEB0-4581-B801-202FDA604F6E.metallib:Error Dom

Probe	Status	Refusal (first 150 characters)
l9_cancellation_before_the_solve	PASS	cancelled:nonlinear_increment
l9_cancellation_mid_solve	PASS	cancelled:nonlinear_increment
l9_control_the_same_model_solves	PASS	
v4:b0_every_probe_converges_or_refuses_by_name	PASS	past_the_perfect_plasticity_limit_load: nonlinear_increment_below_minimum:lambda_0.6234375000000001:increment_0.00054931640625:cause_nonlinear_tangent
v4:b1_the_limit_load_is_bracketed_from_below	PASS	What this row claims is a BRACKET, not a closed form. Perfect plasticity has a limit point on a load-controlled path, and the route must solve below i

Lane 10 — Performance ladders (measured, never gated on speed)

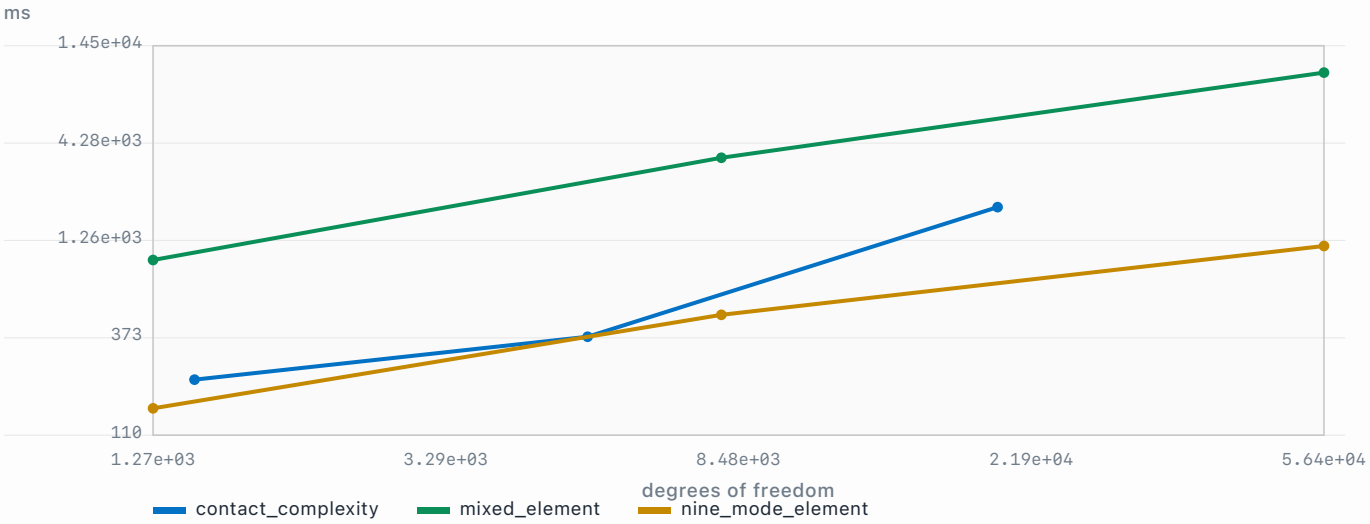
Measured, never gated on speed. Contact complexity and the NL-6 elements on the packaged Metal route: a first use and three timed warm repeats per rung, Newton and Krylov counts, GPU time, device buffers and resident memory, bitwise repeatability, and a same-host CPU/Double baseline on the smaller rungs. Carried V4 lane P adds the elastic and contact ladders to ~10^5 elements and three cold processes.

Rows	18 (V5 lanes on V6 code 9, carried V4 9, carried V5 run 3 0) · PASS 18 · FAIL 0 · SUPERSEDED 0 · NOT_SUPPORTED 0
Gates	100 · evaluated 100 · superseded 0 · NOT_RUN 0
Status	PASS

Table 10.1 — lane 10 ladders (a row of dashes is a rung refused by name; see its outcome class below).

Case	First (ms)	Warm (ms)	CPU (ms)	Newton	Krylov	GPU ms	Status
l10_frictional_stack_8x8	324	221	221	24	368	191	PASS
l10_frictional_stack_16x16	411	378	2.34e+03	24	318	283	PASS
l10_frictional_stack_32x32	1.96e+03	1.92e+03	—	34	942	1.6e+03	PASS
l10_mixed_up_cantilever_16x4x4	1.03e+03	990	2.54e+03	220	3.67e+03	676	PASS
l10_nine_mode_mr_cantilever_16x4x4	195	154	623	28	694	127	PASS
l10_mixed_up_cantilever_32x8x8	3.54e+03	3.56e+03	2.07e+04	250	4.18e+03	2.42e+03	PASS
l10_nine_mode_mr_cantilever_32x8x8	538	498	3.66e+03	25	715	401	PASS
l10_mixed_up_cantilever_64x16x16	1e+04	1.04e+04	—	268	4.53e+03	4.49e+03	PASS
l10_nine_mode_mr_cantilever_64x16x16	1.21e+03	1.18e+03	—	25	778	707	PASS

Figure 10.1 — warm median wall time vs DOF (packaged Metal)



Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l10_frictional_stack_8x8	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_frictional_stack_16x16	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_frictional_stack_32x32	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l10_mixed_up_cantilever_16x4x4	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_nine_mode_mr_cantilever_16x4x4	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_mixed_up_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_nine_mode_mr_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_mixed_up_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l10_nine_mode_mr_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	6	0	0
v4:p_elastic_cantilever_16k	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_plastic_block_13k	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_hyperelastic_block_13k	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_body_contact_9216	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_body_contact_101376	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_the_ladder_reached_scale	V4 carried	PASS	VERIFIED_SOLVE	1	0	0
v4:p_cold_elastic_cantilever_16k_process_1	V4 carried	PASS	VERIFIED_SOLVE	3	0	0
v4:p_cold_elastic_cantilever_16k_process_2	V4 carried	PASS	VERIFIED_SOLVE	3	0	0
v4:p_cold_elastic_cantilever_16k_process_3	V4 carried	PASS	VERIFIED_SOLVE	3	0	0

Lane 11 — The V6 closures

Lane 11 verifies the V6 closures of V5.1's weaknesses. It is built from this campaign's own records: every V6 test suite ran as its own XCTest process in the pinned worktree, and the lane reads each suite's own outcome (every test must pass) and the measurements the tests printed, evaluating the frozen contract's lane_11_v6 gates on them; the STEP corpus rows come from the pinned corpus run on this code with both CAD helpers, the ladder rows from the scale ladder run here, and the whole-suite row from the package suite run here. A value missing from those records is a NOT_RUN gate.

Rows	47 (V5 lanes on V6 code 47, carried V4 0, carried V5 run 3 0) · PASS 46 · FAIL 0 · SUPERSEDED 0 · NOT_SUPPORTED 1
Gates	144 · evaluated 144 · superseded 0 · NOT_RUN 0
Status	PASS

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l11_infsup_local_jump	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_stabilised_bending_constraint	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_mixed_16384_rung	V6	PASS	VERIFIED_SOLVE	3	0	0
l11_kappa_2000	V6	PASS	VERIFIED_SOLVE	3	0	0
l11_compression_onset	V6	PASS	KNOWN_LIMITATION_CONFIRMED	3	0	0
l11_structural_snap_through	V6	PASS	VERIFIED_SOLVE	4	0	0
l11_arc_length_contact	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_arc_length_mixed_element	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_arc_length_metal	V6	PASS	DIFFERENTIAL_AGREEMENT	3	0	0
l11_arc_length_multigrid	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_self_contact	V6	PASS	VERIFIED_SOLVE	4	0	0
l11_two_body_curved	V6	PASS	KNOWN_LIMITATION_CONFIRMED	3	0	0
l11_hertz_rigid_sphere	V6	PASS	VERIFIED_SOLVE	6	0	0
l11_dynamics	V6	NOT_ SUPPORTED	NOT_SUPPORTED	0	0	0
l11_dynamics_fails_closed	V6	PASS	EXPECTED_REFUSAL	1	0	0
l11_viscoelastic	V6	PASS	VERIFIED_SOLVE	3	0	0
l11_fibre	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_j2_multiplicative	V6	PASS	VERIFIED_SOLVE	5	0	0
l11_resume_engine	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_resume_product	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_product_outputs	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_origin_obj	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_3mf	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_amf	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_gltf	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_step-xde	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_step-legacy	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_step_kernel	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_iges_native	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_alignment_proof	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_thin_feature_advisory	V6	PASS	VERIFIED_SOLVE	1	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l11_diagnostics	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_validation_infrastructure	V6	PASS	KNOWN_LIMITATION_CONFIRMED	2	0	0
l11_step_corpus	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_ladder_svk_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_svk_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_svk_cantilever_96x24x24	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_svk_cantilever_128x32x32	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_svk_cantilever_160x40x40	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_mixed_local_jump_cantilever_16x4x4	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_mixed_local_jump_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_mixed_local_jump_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_mixed_local_jump_cantilever_96x24x24	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_j2_multiplicative_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_j2_multiplicative_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_j2_multiplicative_cantilever_128x32x32	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_full_suite	V6	PASS	VERIFIED_SOLVE	3	0	0

The whole suite, accounted for by test class

From v6-full-suite-accounting.json, written by lane 11 from this campaign's whole-suite log: executed 5426, passed 5394, failed 32, skipped 325, unjustified skips 0. Every failing test is named in the frozen contract with its cause (each fails identically on the V5.1 pin unless its cause says otherwise); no test was excluded from the whole-suite process (the contract's crash-exclusion list is empty); every skip matched a justification in the contract.

Test class	Explained failures	Crash exclusions (run alone)	Unexplained
BenchmarkTaxonomyManifestTests	1	0	0
CADAP209VolumeImportTests	1	0	0
CADBRepBinaryTests	1	0	0
CADCrashFallbackWorkflowTests	1	0	0
CADInterferenceRepairTests	1	0	0
CADMaterialMetadataTests	2	0	0
CADPeriodicWireRepairTests	1	0	0
CADRepairEscalationTests	3	0	0
CADSTEPIsolationTests	1	0	0
CADSelfInterferenceRepairTests	1	0	0
FEAAnalysisTypePersistenceTests	1	0	0
FEAPreviewArchitectureTests	1	0	0
FEAPreviewChromePassTests	1	0	0
FEAPreviewProductisationTests	1	0	0
IncumbentExactAuditTests	1	0	0
NativeCADExchangeIntegrationTests	1	0	0
NativeEngineTests	9	0	0

Test class	Explained failures	Crash exclusions (run alone)	Unexplained
Strength3DGenerativeBenchmarkSuiteTests	1	0	0
StrengthScalarOperatorCPUMetalParityTests	1	0	0
TerminalCertificationScopeTests	1	0	0
ViewObservationGraphTests	1	0	0

l11_infsup_local_jump · PASS

pressure: executed 12, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
infsup_uniformity	1	>=	0.9	PASS

l11_stabilised_bending_constraint · PASS

pressure: executed 12, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
stabilised_constraint_residual	9.9000e-11	<=	1.0000e-10	PASS

l11_mixed_16384_rung · PASS

pressure: executed 12, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
mixed_16384_rung_solved	1	==	1	PASS
mixed_metal_vs_cpu	0	<=	1.0000e-08	PASS

l11_kappa_2000 · PASS

pressure: executed 12, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
kappa_2000_solved	1	==	1	PASS
kappa_2000_vs_kappa_20	2.0679e-09	<=	1.0000e-08	PASS

l11_compression_onset · PASS

compression: executed 5, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
compression_onset_monotone	1	==	1	PASS
compression_onsets_close	1	==	1	PASS

l11_structural_snap_through · PASS

snap: executed 1, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
snap_past_limit	28	>=	3	PASS
snap_limit_points	1	==	1	PASS
snap_elastica_within_conditioning	1	==	1	PASS

l11_arc_length_contact · PASS

arc: executed 8, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_contact_vs_load_control	2.5600e-08	<=	1.0000e-06	PASS

l11_arc_length_mixed_element · PASS

arc: executed 8, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_mixed_stretch_error	3.0770e-12	<=	1.0000e-10	PASS

l11_arc_length_metal · PASS

arc: executed 8, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_metal_vs_cpu	1.8000e-10	<=	1.0000e-06	PASS
arc_metal_device_resident	1	==	1	PASS

l11_arc_length_multigrid · PASS

arc: executed 8, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_preconditioner_matches_load_control	1	==	1	PASS

l11_self_contact · PASS

self-contact: executed 3, failures 0 restart-tangent: executed 1, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
self_contact_newton	110	<=	202	PASS
self_contact_vs_facet	1.5900e-07	<=	1.0000e-06	PASS
self_contact_tangent_fd	3.5700e-06	<=	1.0000e-05	PASS

l11_two_body_curved · PASS

two-body: executed 1, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
two_body_balance	2.0000e-11	<=	1.0000e-06	PASS
two_body_flat_punch	1	==	1	PASS

l11_hertz_rigid_sphere · PASS

hertz: executed 3, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
hertz_balance	1.8000e-12	<=	1.0000e-06	PASS
hertz_radius_bracketed	1	==	1	PASS
hertz_centre_pressure_fine	0.0175	<=	0.05	PASS
hertz_centre_pressure_converging	1	==	1	PASS
curved_tangent_fd	5.1600e-07	<=	1.0000e-06	PASS

l11_dynamics · NOT_SUPPORTED

No time integrator and no inertia term in the nonlinear route (the modal eigenproblem's mass matrix, since e1f96d5ef7, integrates nothing in time); the architecture is recorded in the V6 record §9.

Gate	Observed	Cmp	Limit	Disposition

l11_dynamics_fails_closed · PASS

dynamics: executed 2, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_viscoelastic · PASS

laws: executed 5, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
viscoelastic_closed_form	8.8000e-08	<=	1.0000e-06	PASS
viscoelastic_rate_dependent	1	==	1	PASS

l11_fibre · PASS

laws: executed 5, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
fibre_closed_form	0	<=	1.0000e-09	PASS

l11_j2_multiplicative · PASS

j2: executed 6, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
j2_multiplicative_uniaxial_flow	5.0000e-04	<=	0.001	PASS
j2_multiplicative_yield_residual	4.9100e-11	<=	1.0000e-09	PASS
j2_multiplicative_tangent_fd	1.3100e-08	<=	1.0000e-06	PASS
j2_multiplicative_metal_vs_cpu	2.7300e-11	<=	1.0000e-09	PASS

l11_resume_engine · PASS

resume: executed 3, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
resume_bitwise	1	==	1	PASS

l11_resume_product · PASS

resume-product: executed 4, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_product_outputs · PASS

outputs: executed 4, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_origin_obj · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_3mf · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_amf · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_gltf · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_step-xde · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_step-legacy · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_step_kernel · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_iges_native · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_alignment_proof · PASS

origin: executed 9, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_thin_feature_advisory · PASS

thin: executed 4, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_diagnostics · PASS

diagnostics: executed 5, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_validation_infrastructure · PASS

validation: executed 4, failures 0

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
validation_not_claimed	1	==	1	PASS

l11_step_corpus · PASS

v6-step-release.jsonl vs v6-step-source.jsonl on the pinned code

Gate	Observed	Cmp	Limit	Disposition
step_corpus_accepted	107	>=	107	PASS
step_helper_field_differences	0	==	0	PASS

l11_ladder_svk_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	2.1896e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	6.3331e-12	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	2.5032e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_96x24x24 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.4081e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_128x32x32 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.2796e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_160x40x40 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	4.0585e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_16x4x4 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.5465e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	2.8195e-11	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.3670e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	4.8596e-10	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	1.0019e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_96x24x24 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	1.2705e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_j2_multiplicative_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	2.8776e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	8.2483e-12	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_j2_multiplicative_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.6735e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_j2_multiplicative_cantilever_128x32x32 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	4.8960e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_full_suite · PASS

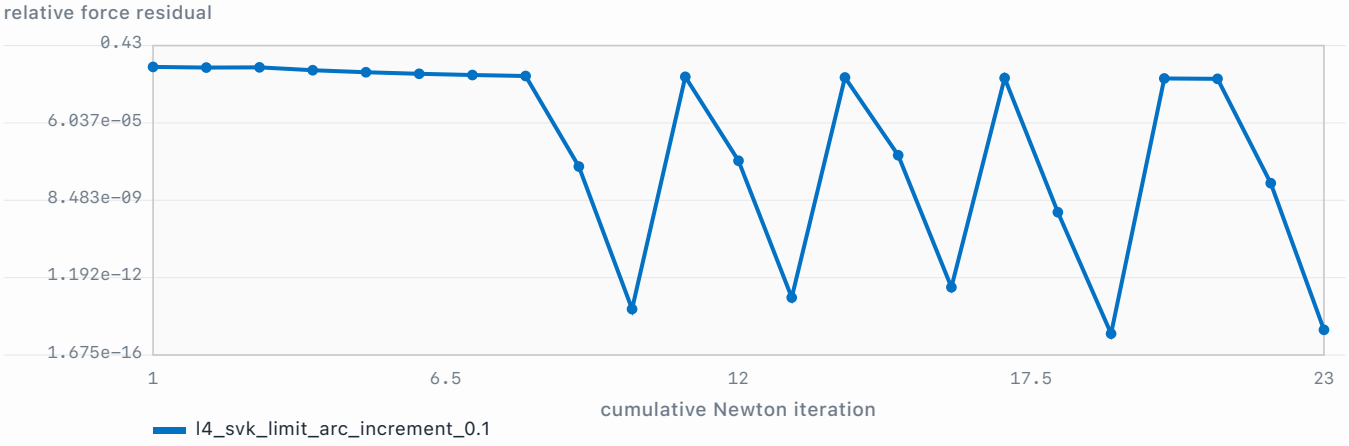
32 failing tests, each named with its cause in the contract; 0 crash exclusions run alone; 325 skips, each justified or listed below; per-test detail in v6-full-suite-accounting.json.

Gate	Observed	Cmp	Limit	Disposition
full_suite_executed	5426	>=	1000	PASS
full_suite_unexplained_failures	0	==	0	PASS
full_suite_unjustified_skips	0	==	0	PASS

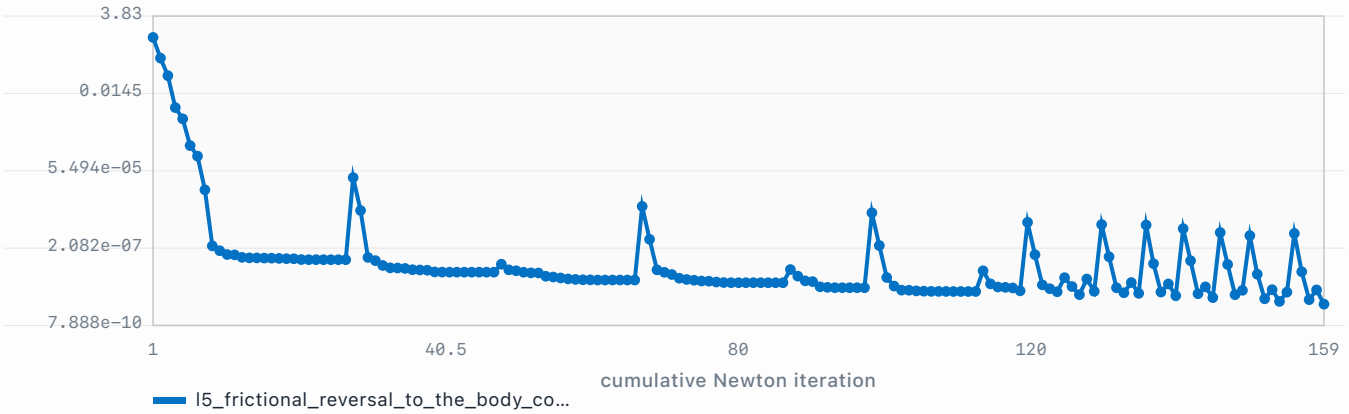
Residual histories

Newton force-residual histories (relative) of selected rows, read from residual-history in the evidence.

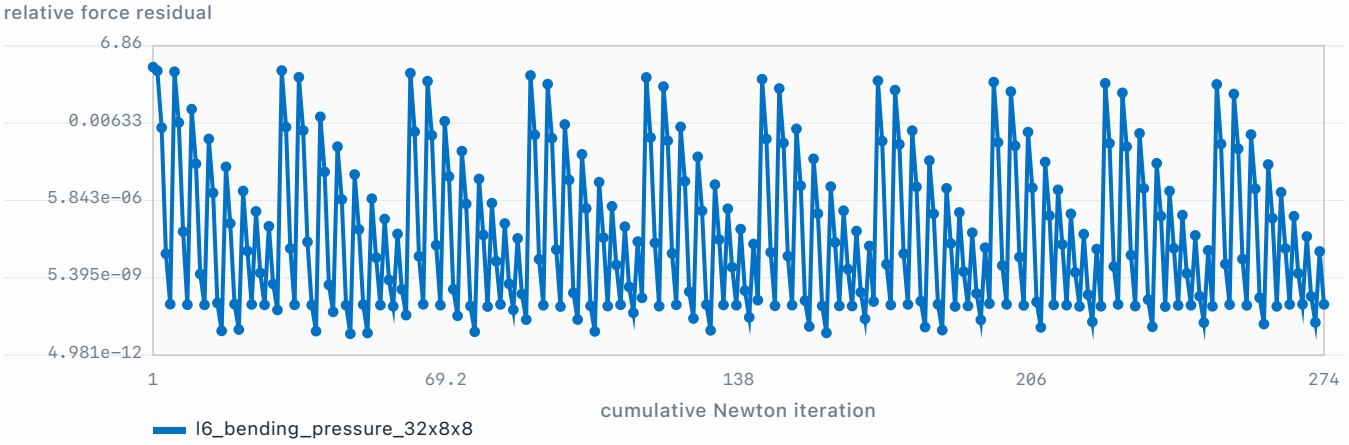
Newton residual — l4_svk_limit_arc_increment_0.1



Newton residual — l5_frictional_reversal_to_the_body_contact_tolerance



Newton residual — l6_bending_pressure_32x8x8



Limitations, stated plainly

- NOT_VALIDATED: no physical measurement with stated uncertainty exists, so no validation in the sense of ASME V&V 10-2019 (comparison with experiment for an intended use) is claimed; the V6 record/comparison infrastructure refuses every comparison without a measured record (lane 11).
- Every performance number is one host, one device, one build; speed is never gated and is never compared with another code.
- Dynamics, modal and eigenvalue buckling analyses are not offered (declared NOT_SUPPORTED; a dynamic analysis name fails to decode).
- Damage and strain softening are not implemented (no regularisation on this grid).
- Coulomb friction on a curved analytic obstacle is refused by name; arc-length with the FAS multigrid route is refused by name.
- The Q1/P0 pressure space remains selectable; its element pressures are not claimed reliable (lane 6). The default space is the locally jump-stabilised one (lane 11).
- Large uniaxial compression under dead load refuses with a typed loss of definiteness near stretch 0.7: lane 11 shows this is the continuum's own surface instability (both elements' onset converges under refinement), not an element defect; the post-bifurcation path needs an imperfection and arc-length.
- The structural snap-through's limit load is verified only to the conditioning of the elastica reference (its own d ln Q/d ln P times the model-form term); no tighter agreement is claimed.
- Curved-on-curved contact between voxel bodies is a flat punch while the staircase step is wider than the contact (lane 11, measured); Hertz-quality curved contact is verified only against analytic rigid obstacles.
- Origin invariance holds on every route with a ladder, STEP and IGES through the Lattiform B-Rep kernel included (it tessellates in the part's own frame); the native 3DM reader is Float-only, rebased as a float32 source and disclosed, and no 3DM ladder exists (no writer).
- On Metal the recursive device V-cycle's own Galerkin certification refuses the voided self-contact slot; load control and arc-length both then precondition with block Jacobi and name the refusal (lane 11). Arc-length adds no refusal of its own.

Claims and evidence manifest

Every claim is frozen in the contract with the evidence rows it rests on; the assembler marks a claim SUPPORTED only if every one of those rows passed. A claim without passing evidence blocks publication.

Claim	Class	Status	Statement	Evidence
C01	PROVED	SUPPORTED	At random finite-strain states the element's internal force, stored energy and condensed parameters equal an independently written Double element, for five laws and the six-mode, nine-mode and mixed elements.	l1_svk_6_s* l1_svk_9_s* l1_neo_hookean_6_s* l1_neo_hookean_9_s* l1_mooney_rivlin_6_s* l1_mooney_rivlin_9_s* l1_mixed_up_isochoric_mr_s* l1_j2_linear_6_s* l1_j2_linear_9_s* l1_j2_voce_6_s* l1_j2_voce_9_s* l1_j2_committed_history_6_s*
C02	PROVED	SUPPORTED	The condensed consistent tangent is the derivative of the force (central differences) and equals the Schur complement of the independent element's full Hessian; it is symmetric, objective, and invariant under translation, reflection and axis permutation.	l1_*
C03	PROVED	SUPPORTED	Every element variant has exactly six zero modes at rest and is positive semi-definite there.	l1_rest_rank_* v4:e*
C04	PROVED	SUPPORTED	The point laws equal closed forms derived independently in principal stretches, for uniaxial, equibiaxial, pure-shear, volumetric and simple-shear states from stretch 0.6 to 2.5.	l2_closed_form_* l2_isochoric_law_is_blind_to_dilatation
C05	PROVED	SUPPORTED	Along 64 seeded cyclic strain paths the J2 return map keeps yield consistency, non-negative dissipation equal to S:dEp, plastic incompressibility and a monotone equivalent plastic strain, and agrees with an independent integrator.	l2_j2_cyclic_path_*
C06	PROVED	SUPPORTED	A plastic checkpoint round-trips through JSON exactly, and a restart from the decoded checkpoint is bitwise the restart from the in-memory one.	l2_checkpoint_json_round_trip_and_restart_identity
C07	PROVED	SUPPORTED	The Gauss-point stress-storage defect (zero stress at points 6 and 7 of every nonlinear element) is reproduced on the unfixed build and absent on this pin, and the manufactured-solution stress ladder converges.	l0_gauss_point_storage_defect_ab v4:c1_cauchy_stress_l2_converges
C08	PROVED	SUPPORTED	On a three-dimensional St-Venant-Kirchhoff manufactured solution on six grids, displacement, energy and element-mean stress converge at their expected orders.	v4:c0_* v4:c1_*
C09	PROVED	SUPPORTED	Arc-length continuation passes the St-Venant-Kirchhoff compressive limit point with every published point on the closed form, a monotone branch, one sign change of the stiffness parameter and a step-insensitive located limit; load control refuses there by name.	l4_svk_limit_*
C10	PROVED	SUPPORTED	Arc-length follows a perfectly plastic collapse on its closed form and lands exactly on the terminal load when no limit point intervenes.	l4_perfect_plasticity_* l4_arc_length_lands_on_the_terminal_load
C11	PROVED	SUPPORTED	Body contact is invariant under translation of the model by up to 1,024 elements along each axis.	l5_origin_slave_centred_*
C12	PROVED	SUPPORTED	A 49-anchor frictional interface reverses to the body-contact tolerance 1e-8 with the Coulomb cone held and dissipation non-decreasing; slip is witnessed at 0.99 of the capacity.	l5_frictional_reversal_to_the_body_contact_tolerance l5_slip_is_witnessed l5_coulomb_ladder_*
C13	PROVED	SUPPORTED	Self-contact of a closing slot equals its mirrored half solved on a rigid plane, is mirror-symmetric, and is inert on a convex body.	l5_self_contact_*
C14	KNOWN_LIMITATION	SUPPORTED	The Q1/P0 mixed element is not inf-sup stable: spurious pressure modes exist on enclosed meshes and beta_h decays with h. Its element pressures are NOT claimed reliable in general.	l6_infsup_summary_clamped
C15	PROVED	SUPPORTED	The incompressible law reproduces the uniaxial closed forms (stretch, lateral stretch, pressure) wherever it solves, and fails closed by name everywhere else on the stability map; bending does not lock.	l6_map_* l6_bending_does_not_lock l6_penalty_is_conditioning_only

Claim	Class	Status	Statement	Evidence
C16	DIFFERENTIAL	**SUPPORTED**	The packaged Metal route agrees with the Double CPU route, every gate met, over all 256 seeds spanning every law, element, contact kind, friction, self-contact, voids and arc-length. This verifies neither backend.	l7_*
C17	PROVED	**SUPPORTED**	Through the product route, an imported geometry solves on the packaged Metal backend for Neo-Hookean with a rigid-plane stop and for J2 plasticity, and a primitive fully solid domain solves for the incompressible law, each with reactions in balance and an answer equal to a direct CPU/Double engine solve of the re-derived problem; a saved and reloaded study re-solves bitwise; typed failures reach the user.	l8_law_neo_hookean_with_rigid_stop l8_law_j2_plasticity l8_law_incompressible_mooney_rivlin_primitive_domain l8_save_reload_resolve l8_refuses_* l8_cancellation_mid_solve l8_incompressible_law_on_imported_voided_grid_refuses
C23	PROVED	**SUPPORTED**	Revision 4 (formerly open defect D01). The product imports a triangle-mesh part at any world offset the file's digits carry as the same model it imports at the origin: the same 40 x 5 x 5 mm ASCII STL bar at every offset from +/-1 m to +/-1,000 km gives the same grid, occupancy and Metal displacement as at the origin, bit for bit, and records the part-local frame's world origin; a binary STL imports exactly the float32 geometry the file holds (the same model as that geometry imported at the origin), says so where that geometry is coarser than 0.1 % of the part, and is refused by name only where the file holds no solid. The defect is reproduced on the V5 tag and absent on this pin, and the shared importer change leaves the whole test suite's failing set and every unaffected import, payload and solve bitwise unchanged, and every file of the pinned 165-file STEP corpus reaches the same product outcome, stage, grid and message on both sides with the same packaged CAD helper (24 import; 141 are refused by that helper's reader on both sides, so only the 24 exercise the mesh route) (revision 6).	l0_import_origin_defect_ab l8_origin_stl_* l0_shared_code_ab l0_step_corpus_ab
C22	PROVED	**SUPPORTED**	Revision 3 (formerly open defect D02). The enhanced-mode local Newton no longer refuses states at the arithmetic floor of the stress: at small strain with a stiff bulk modulus the stress rounding error (a few ulps of the moduli) lies above 1e-12 of the stress, and backtracking on that noise cycled to the iteration cap. The refusal is reproduced on the unfixed code and absent on this pin; lane 8's nine-mode Mooney-Rivlin CPU reference now solves and agrees with the packaged Metal product route.	l0_enhanced_mode_floor_defect_ab l8_law_mooney_rivlin_nine_mode
C24	PROVED	**SUPPORTED**	Revision 4 (formerly open defect D03). Self-contact pushes along an averaged nodal master normal, continuous across shared edges, so the force on a slave at a shared node or edge no longer depends on which face carries it; its tangent, including the columns of the nodes the nodal normals are made of, is the derivative of the force (central differences), action equals reaction, the Coulomb cone holds, and the closing slot still equals its mirrored half. The face-choice defect is reproduced on the V5 tag (seeds 179 and 192 at 1.127e-5 and 1.396e-5) and absent on this pin, where every self-contact slot seed of lane 7 passes its unchanged 1e-5 support-reaction gate.	l0_self_contact_face_choice_defect_ab l5_self_contact_* l7_seed_010_self_contact_slot l7_seed_023_self_contact_slot l7_seed_036_self_contact_slot l7_seed_049_self_contact_slot l7_seed_062_self_contact_slot l7_seed_075_self_contact_slot l7_seed_088_self_contact_slot l7_seed_101_self_contact_slot l7_seed_114_self_contact_slot l7_seed_127_self_contact_slot l7_seed_140_self_contact_slot l7_seed_153_self_contact_slot l7_seed_166_self_contact_slot l7_seed_179_self_contact_slot l7_seed_192_self_contact_slot l7_seed_205_self_contact_slot l7_seed_218_self_contact_slot l7_seed_231_self_contact_slot l7_seed_244_self_contact_slot
C18	PROVED	**SUPPORTED**	Every robustness probe ends in a typed refusal that names its cause, with no runtime Metal compilation and no CPU fallback.	l9_* v4:b*
C19	MEASURED	**SUPPORTED**	Performance ladders are measured on one host; warm repeats are bitwise identical and answers agree with the CPU baseline. Speed is not claimed beyond these measurements.	l10_*
C20	NOT_PROVED	**NOT_PROVED**	Physical validation. No experiment exists.	

Claim	Class	Status	Statement	Evidence
C21	PROVED	SUPPORTED	Structural snap-through. A clamped-pinned voxel beam buckled by 1.1 P1 and pushed back by a lateral load is followed by arc-length past its structural limit point (one sign change of Bergan's parameter, the load falling after it, the beam snapping to the opposite buckled side) on two meshes, and its limit load agrees with an independent elastica at the amplitude-matched axial load. V5.1's arch refusal is kept as a record.	l11_structural_snap_through
C25	PROVED	SUPPORTED	The default incompressible pressure space (local jump-stabilised, exact block augmented Lagrangian) is inf-sup stable (beta_h uniform over n = 4..8) and scales past V5's refused 16,384-element rung on Metal.	l11_infsup_local_jump l11_mixed_16384_rung
C26	PROVED	SUPPORTED	An interrupted nonlinear solve resumed from its last accepted step reaches the uninterrupted answer bit for bit, in the engine and through the product.	l11_resume_engine l11_resume_product
C27	PROVED	SUPPORTED	Every import route whose reader keeps the file's digits (OBJ, 3MF, AMF, glTF, STEP via OCCT XDE and the legacy reader, STEP and IGES via the Lattiform B-Rep kernel, which tessellates in the part's own frame (revision 11), and the triangle-mesh formats of V5.1) imports the same model at every offset to +/-100 km.	l11_origin_*
C28	KNOWN_LIMITATION	SUPPORTED	Measured limitation kept: curved-on-curved voxel contact is a flat punch until the staircase step is resolved. (Revision 11: the kernel STEP and native IGES origin limitations recorded here in revisions 7-10 are closed; their rows are now exact-at-every-offset rows under C27.)	l11_two_body_curved

Case ledger

Every row of the run, in lane order.

Lane 0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
v4:r0_published_evidence_still_verifies	V4 carried	PASS	RECONCILED	5	0	0
v4:r1_headline_claims_reproduce	V4 carried	PASS	RECONCILED	1	0	0
v4:r2_nl4_speed_table_is_superseded	V4 carried	PASS	SUPERSEDED	5	0	0
l0_v4_published_evidence_rehashed	V6	PASS	RECONCILED	3	0	0
l0_gauss_point_storage_defect_ab	V6	PASS	VERIFIED_OPERATOR	4	0	0
l0_metal_arc_length_krylov_defect_ab	V6	PASS	VERIFIED_SOLVE	4	0	0
l0_enhanced_mode_floor_defect_ab	V6	PASS	VERIFIED_OPERATOR	4	0	0
l0_import_origin_defect_ab	V6	PASS	VERIFIED_SOLVE	4	0	0
l0_self_contact_face_choice_defect_ab	V6	PASS	VERIFIED_SOLVE	4	0	0
l0_shared_code_ab	V6	PASS	RECONCILED	5	0	0
l0_step_corpus_ab	V6	PASS	RECONCILED	4	0	0
l0_v5_run3_rows_carried	V6	PASS	RECONCILED	2	0	0
l0_regression_nl6_suite	V6	PASS	RECONCILED	2	0	0
l0_regression_nonlinear_unit_suites	V6	PASS	RECONCILED	2	0	0
l0_regression_linear_guard_suites	V6	PASS	RECONCILED	2	0	0

Lane 1

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l1_svk_6_s00	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_6_s01	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s02	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s03	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_6_s04	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s05	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s06	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_6_s07	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s08	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s09	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_6_s10	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s11	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s12	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_6_s13	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s14	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_6_s15	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_9_s00	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_9_s01	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s02	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s03	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_9_s04	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s05	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s06	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_9_s07	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s08	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s09	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_9_s10	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s11	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s12	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_svk_9_s13	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s14	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_svk_9_s15	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_6_s00	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_6_s01	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s02	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s03	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_6_s04	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s05	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s06	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_6_s07	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s08	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s09	V6	PASS	VERIFIED_OPERATOR	15	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l1_neo_hookean_6_s10	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s11	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s12	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_6_s13	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s14	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_6_s15	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_9_s00	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_9_s01	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_neo_hookean_9_s02	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_neo_hookean_9_s03	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_neo_hookean_9_s04	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_9_s05	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_neo_hookean_9_s06	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_9_s07	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_9_s08	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_9_s09	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_9_s10	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_9_s11	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_9_s12	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_neo_hookean_9_s13	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_neo_hookean_9_s14	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_neo_hookean_9_s15	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_6_s00	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_6_s01	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_6_s02	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_6_s03	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_6_s04	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_6_s05	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_6_s06	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_6_s07	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_6_s08	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_6_s09	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_6_s10	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_6_s11	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_6_s12	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_6_s13	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_6_s14	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_6_s15	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_9_s00	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_9_s01	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_9_s02	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_9_s03	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_9_s04	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_9_s05	V6	PASS	VERIFIED_OPERATOR	14	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l1_mooney_rivlin_9_s06	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mooney_rivlin_9_s07	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_9_s08	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_9_s09	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_9_s10	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_9_s11	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_9_s12	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_9_s13	V6	PASS	EXPECTED_REFUSAL	1	0	0
l1_mooney_rivlin_9_s14	V6	PASS	VERIFIED_OPERATOR	14	0	0
l1_mooney_rivlin_9_s15	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s00	V6	PASS	VERIFIED_OPERATOR	16	0	0
l1_mixed_up_isochoric_mr_s01	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s02	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s03	V6	PASS	VERIFIED_OPERATOR	16	0	0
l1_mixed_up_isochoric_mr_s04	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s05	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s06	V6	PASS	VERIFIED_OPERATOR	16	0	0
l1_mixed_up_isochoric_mr_s07	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s08	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s09	V6	PASS	VERIFIED_OPERATOR	16	0	0
l1_mixed_up_isochoric_mr_s10	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s11	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s12	V6	PASS	VERIFIED_OPERATOR	16	0	0
l1_mixed_up_isochoric_mr_s13	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s14	V6	PASS	VERIFIED_OPERATOR	15	0	0
l1_mixed_up_isochoric_mr_s15	V6	PASS	VERIFIED_OPERATOR	16	0	0
l1_j2_linear_6_s00	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_6_s01	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s02	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s03	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_6_s04	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s05	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s06	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_6_s07	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s08	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s09	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_6_s10	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s11	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s12	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_6_s13	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s14	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_6_s15	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_9_s00	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_9_s01	V6	PASS	VERIFIED_OPERATOR	11	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l1_j2_linear_9_s02	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s03	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_9_s04	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s05	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s06	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_9_s07	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s08	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s09	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_9_s10	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s11	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s12	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_linear_9_s13	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s14	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_linear_9_s15	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_6_s00	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_6_s01	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s02	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s03	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_6_s04	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s05	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s06	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_6_s07	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s08	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s09	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_6_s10	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s11	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s12	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_6_s13	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s14	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_6_s15	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_9_s00	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_9_s01	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s02	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s03	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_9_s04	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s05	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s06	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_9_s07	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s08	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s09	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_9_s10	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s11	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s12	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_voce_9_s13	V6	PASS	VERIFIED_OPERATOR	11	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l1_j2_voce_9_s14	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_voce_9_s15	V6	PASS	VERIFIED_OPERATOR	12	0	0
l1_j2_committed_history_6_s00	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s01	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s02	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s03	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s04	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s05	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s06	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s07	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s08	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s09	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s10	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s11	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s12	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s13	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s14	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_j2_committed_history_6_s15	V6	PASS	VERIFIED_OPERATOR	11	0	0
l1_rest_rank_svk_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_neo_hookean_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_mooney_rivlin_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_mixed_up_isochoric_mr	V6	PASS	VERIFIED_OPERATOR	2	0	0
l1_rest_rank_j2_voce_9	V6	PASS	VERIFIED_OPERATOR	2	0	0
v4:e0_zero_state_equals_the_verified_linear_hexa8	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:e1_tangent_rank_and_null_space_at_rest	V4 carried	PASS	VERIFIED_SOLVE	7	0	0
v4:e1_tangent_rank_and_null_space_deformed	V4 carried	PASS	VERIFIED_SOLVE	4	0	0
v4:e2_objectivity_of_every_law	V4 carried	PASS	VERIFIED_SOLVE	8	0	0
v4:e3_patch_states_rotated_and_unrotated	V4 carried	PASS	VERIFIED_SOLVE	30	0	0

Lane 2

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l2_closed_form_svk_uniaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_svk_equibiaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_svk_pure_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_svk_volumetric	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_svk_simple_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_neo_hookean_uniaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_neo_hookean_equibiaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_neo_hookean_pure_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_neo_hookean_volumetric	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_neo_hookean_simple_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_mooney_rivlin_uniaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l2_closed_form_mooney_rivlin_equibiaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_mooney_rivlin_pure_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_mooney_rivlin_volumetric	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_mooney_rivlin_simple_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_isochoric_mooney_rivlin_uniaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_isochoric_mooney_rivlin_equibiaxial	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_isochoric_mooney_rivlin_pure_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_closed_form_isochoric_mooney_rivlin_simple_shear	V6	PASS	VERIFIED_OPERATOR	4	0	0
l2_isochoric_law_is_blind_to_dilatation	V6	PASS	VERIFIED_OPERATOR	1	0	0
l2_j2_cyclic_path_linear_000	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_001	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_002	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_003	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_004	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_005	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_006	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_007	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_008	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_009	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_010	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_011	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_012	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_013	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_014	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_015	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_016	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_017	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_018	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_019	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_020	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_021	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_022	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_023	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_024	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_025	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_026	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_027	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_028	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_029	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_030	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_031	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_032	V6	PASS	VERIFIED_OPERATOR	9	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l2_j2_cyclic_path_voce_033	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_034	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_035	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_036	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_037	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_038	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_039	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_040	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_041	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_042	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_043	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_044	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_045	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_046	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_047	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_048	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_049	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_050	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_051	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_052	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_053	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_054	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_055	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_056	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_057	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_058	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_059	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_060	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_061	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_linear_062	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_j2_cyclic_path_voce_063	V6	PASS	VERIFIED_OPERATOR	9	0	0
l2_checkpoint_json_round_trip_and_restart_identity	V6	PASS	VERIFIED_SOLVE	5	0	0
l2_cyclic_dissipation_through_restarts	V6	PASS	VERIFIED_SOLVE	5	0	0
v4:m0_the_laws_are_their_own_gradients	V4 carried	PASS	VERIFIED_SOLVE	13	0	0
v4:m1_closed_forms	V4 carried	PASS	VERIFIED_SOLVE	10	0	0
v4:m2_loading_unloading_and_reversal	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:m3_voce_saturation_hardening	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:m4_rejected_work_never_reaches_the_committed_history	V4 carried	PASS	VERIFIED_SOLVE	6	0	0

Lane 3

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l3_neo_hookean_uniaxial_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l3_neo_hookean_uniaxial_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l3_neo_hookean_uniaxial_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l3_neo_hookean_compression_0.7_fails_closed	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l3_load_step_convergence_j2	V6	PASS	VERIFIED_SOLVE	2	0	0
l3_tolerance_convergence	V6	PASS	VERIFIED_SOLVE	3	0	0
v4:c0_the_forcing_is_independent_and_correct	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:c1_displacement_l2_converges	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:c1_displacement_linf_converges	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:c1_cauchy_stress_l2_converges	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:c1_strain_energy_converges	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:c2_iterative_error_is_separated_from_discretisation_error	V4 carried	PASS	VERIFIED_SOLVE	7	0	0
v4:c3_the_manufactured_problem_is_nonlinear	V4 carried	PASS	VERIFIED_SOLVE	3	0	0
v4:g0_the_linear_limit	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_alpha_1.0_40x2x2_L_over_h_20	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_alpha_2.0_40x2x2_L_over_h_20	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_alpha_1.0_64x2x2_L_over_h_32	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:g1_equilibrium_in_the_current_configuration	V4 carried	PASS	VERIFIED_SOLVE	4	0	0
v4:g2_path_independence	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:g3_continuation_past_a_limit_point_is_not_supported	V4 carried	SUPERSEDED	SUPERSEDED	4	4	0

Lane 4

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l4_svk_limit_load_control_refuses	V6	PASS	EXPECTED_REFUSAL	4	0	0
l4_svk_limit_arc_increment_0.05	V6	PASS	VERIFIED_SOLVE	10	0	0
l4_svk_limit_arc_increment_0.1	V6	PASS	VERIFIED_SOLVE	10	0	0
l4_svk_limit_arc_increment_0.2	V6	PASS	VERIFIED_SOLVE	10	0	0
l4_svk_limit_step_sensitivity	V6	PASS	VERIFIED_SOLVE	1	0	0
l4_perfect_plasticity_arc_increment_0.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l4_perfect_plasticity_arc_increment_0.05	V6	PASS	VERIFIED_SOLVE	3	0	0
l4_arc_length_lands_on_the_terminal_load	V6	PASS	VERIFIED_SOLVE	3	0	0
l4_arc_length_slender_cantilever_cpu_and_metal	V6	PASS	DIFFERENTIAL_AGREEMENT	3	0	0
l4_arch_symmetric_bifurcation_measured	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_arc_increment_0.1	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_arc_increment_0.05	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l4_arch_load_control_refuses_at_the_peak	V6	PASS	EXPECTED_REFUSAL	2	0	0
l4_arc_length_refuses_contact	V6	SUPERSEDED	SUPERSEDED	2	2	0
l4_arc_length_refuses_mixed_element	V6	SUPERSEDED	SUPERSEDED	2	2	0
l4_arc_length_refuses_full_approximation_multigrid	V6	PASS	EXPECTED_REFUSAL	2	0	0

Lane 5

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l5_origin_slave_centred_offset_0_0_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_64_0_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_0_64_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_0_0_64	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_1024_0_0	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_offset_0_0_1024	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_origin_slave_centred_growth_with_offset	V6	PASS	VERIFIED_SOLVE	1	0	0
l5_rigid_plane_point_moved_along_the_plane	V6	PASS	VERIFIED_SOLVE	2	0	0
l5_pressure_patch_test	V6	PASS	VERIFIED_SOLVE	5	0	0
l5_coulomb_ladder_0.5_mu_p	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_coulomb_ladder_0.9_mu_p	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_coulomb_ladder_0.99_mu_p	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_slip_is_witnessed	V6	PASS	VERIFIED_SOLVE	1	0	0
l5_frictional_reversal_to_the_body_contact_tolerance	V6	PASS	VERIFIED_SOLVE	3	0	0
l5_face_transitions_sliding_column	V6	PASS	VERIFIED_SOLVE	6	0	0
l5_self_contact_slot_equals_mirrored_half_on_a_rigid_plane	V6	PASS	VERIFIED_SOLVE	5	0	0
l5_self_contact_on_a_convex_body_is_inert	V6	PASS	VERIFIED_SOLVE	2	0	0
l5_hertz_contact	V6	SUPERSEDED	SUPERSEDED	0	0	0
l5_origin_absolute_witness_offset_0_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_64_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_64_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_64	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_1024_0_0	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_offset_0_0_1024	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l5_origin_absolute_witness_summary	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
v4:k0_rigid_plane_with_coulomb_friction	V4 carried	PASS	VERIFIED_SOLVE	5	0	0
v4:k1_node_matched_interface_carries_a_uniform_pressure	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:k2_projection_is_the_exact_closest_point	V4 carried	PASS	VERIFIED_SOLVE	2	0	0
v4:k3_pair_tangent_is_the_derivative_of_the_applied_force	V4 carried	PASS	VERIFIED_SOLVE	4	0	0
v4:k4_stick_slip_and_reversal	V4 carried	PASS	VERIFIED_SOLVE	8	0	0
v4:k5_unsupported_contact_definitions_fail_closed	V4 carried	SUPERSEDED	SUPERSEDED	3	3	0

Lane 6

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_divergence_operator_matches_the_product_element	V6	PASS	VERIFIED_OPERATOR	1	0	0
l6_infsup_clamped_n2	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n3	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n4	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_infsup_clamped_n5	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_clamped_n6	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_summary_clamped	V6	PASS	KNOWN_LIMITATION_CONFIRMED	2	0	0
l6_infsup_cantilever_n2	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n3	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n4	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n5	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_cantilever_n6	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_infsup_summary_cantilever	V6	PASS	KNOWN_LIMITATION_CONFIRMED	1	0	0
l6_bending_pressure_8x2x2	V6	SUPERSEDED	SUPERSEDED	3	2	0
l6_bending_pressure_16x4x4	V6	SUPERSEDED	SUPERSEDED	3	2	0
l6_bending_pressure_32x8x8	V6	SUPERSEDED	SUPERSEDED	3	2	0
l6_bending_does_not_lock	V6	PASS	VERIFIED_SOLVE	2	0	0
l6_pressure_refinement	V6	PASS	VERIFIED_SOLVE	1	0	0
l6_penalty_is_conditioning_only	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_penalty_2000_mu_fails_closed	V6	PASS	VERIFIED_SOLVE	1	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_111_stretch_2.0	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_211_stretch_2.0	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.7	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_1x1x1_aspect_122_stretch_2.0	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_111_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_211_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_2x2x2_aspect_122_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_111_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.7	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_1.3	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_1.4	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_211_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x2x2_aspect_122_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_111_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_neo_hookean_4x4x4_aspect_111_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_1.3	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_1.4	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_211_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_neo_hookean_4x4x4_aspect_122_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_111_stretch_2.0	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_211_stretch_2.0	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.7	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_1x1x1_aspect_122_stretch_2.0	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_111_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_211_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_2x2x2_aspect_122_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_111_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.7	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.3	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.4	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_211_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x2x2_aspect_122_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_111_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.8	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.3	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.4	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_211_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.6	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.7	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.9	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.1	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.2	V6	PASS	VERIFIED_SOLVE	3	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.3	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.4	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.6	V6	PASS	VERIFIED_SOLVE	3	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.8	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_2.0	V6	PASS	EXPECTED_REFUSAL	1	0	0
l6_map_summary_fail_closed	V6	PASS	ROBUSTNESS	2	0	0
v4:l0_volumetric_locking_against_the_poisson_ratio	V4 carried	PASS	KNOWN_LIMITATION_CONFIRMED	7	0	0

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Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_000_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_001_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_002_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_003_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_004_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_005_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_006_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_007_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_008_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_009_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_010_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_011_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_012_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_013_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_014_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_015_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_016_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_017_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_018_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_019_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_020_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_021_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_022_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_023_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_024_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_025_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_026_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_027_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_028_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_029_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_030_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_031_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_032_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_033_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_034_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_035_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_036_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_037_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_038_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_039_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_040_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_041_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_042_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_043_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_044_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_045_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_046_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_047_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_048_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_049_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_050_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_051_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_052_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_053_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_054_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_055_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_056_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_057_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_058_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_059_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_060_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_061_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_062_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_063_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_064_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_065_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_066_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_067_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_068_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_069_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_070_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_071_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_072_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_073_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_074_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_075_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_076_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_077_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_078_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_079_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_080_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_081_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_082_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_083_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_084_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_085_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_086_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_087_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_088_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_089_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_090_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_091_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_092_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_093_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_094_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_095_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_096_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_097_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_098_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_099_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_100_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_101_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_102_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_103_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_104_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_105_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_106_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_107_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_108_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_109_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_110_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_111_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_112_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_113_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_114_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_115_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_116_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_117_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_118_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_119_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_120_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_121_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_122_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_123_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_124_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_125_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_126_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_127_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_128_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_129_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_130_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_131_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_132_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_133_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_134_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_135_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_136_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_137_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_138_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_139_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_140_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_141_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_142_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_143_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_144_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_145_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_146_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_147_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_148_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_149_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_150_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_151_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_152_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_153_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_154_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_155_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_156_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_157_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_158_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_159_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_160_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_161_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_162_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_163_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_164_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_165_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_166_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_167_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_168_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_169_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_170_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_171_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_172_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_173_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_174_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_175_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_176_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_177_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_178_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_179_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_180_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_181_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_182_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_183_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_184_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_185_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_186_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_187_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_188_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_189_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_190_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_191_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_192_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_193_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_194_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_195_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_196_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_197_mooney_rivlin_nine_mode_ cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_198_mixed_incompressible_ cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_199_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_200_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_201_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_202_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_203_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_204_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_205_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_206_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_207_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_208_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_209_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_210_mooney_rivlin_nine_mode_ cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_211_mixed_incompressible_ cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_212_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_213_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_214_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_215_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_216_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_217_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_218_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_219_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_220_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_221_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_222_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_223_mooney_rivlin_nine_mode_ cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_224_mixed_incompressible_ cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_225_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_226_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_227_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_228_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_229_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_230_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_231_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_232_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_233_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l7_seed_234_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_235_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_236_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_237_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_238_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_239_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_240_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_241_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_242_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_243_body_stack_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_244_self_contact_slot	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_245_svk_voids	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_246_arc_length_svk_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_247_svk_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_248_neo_hookean_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_249_mooney_rivlin_nine_mode_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_250_mixed_incompressible_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_251_j2_linear_cantilever	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_252_j2_voce_block	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_253_plane_contact_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_254_plane_contact_friction	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_seed_255_body_stack_frictionless	V6	PASS	DIFFERENTIAL_AGREEMENT	13	0	0
l7_summary	V6	PASS	DIFFERENTIAL_AGREEMENT	3	0	0
v5r3:l7_seed_179_self_contact_slot	V5 run 3	SUPERSEDED	SUPERSEDED	13	1	0
v5r3:l7_seed_192_self_contact_slot	V5 run 3	SUPERSEDED	SUPERSEDED	13	1	0

Lane 8

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l8_origin_stl_ascii_offset_0.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_1.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-1.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_10.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-10.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_100.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-100.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_1000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-1000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_10000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-10000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_100000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_-100000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_ascii_offset_1000000.0	V6	PASS	VERIFIED_SOLVE	4	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l8_origin_stl_ascii_offset_-1000000.0	V6	PASS	VERIFIED_SOLVE	4	0	0
l8_origin_stl_binary_offset_0.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_1.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-1.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_10.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-10.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_100.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-100.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_1000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-1000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_10000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-10000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_100000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_-100000.0	V6	PASS	VERIFIED_SOLVE	5	0	0
l8_origin_stl_binary_offset_1000000.0	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_origin_stl_binary_offset_-1000000.0	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_law_neo_hookean_with_rigid_stop	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_law_j2_plasticity	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_law_mooney_rivlin_nine_mode	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_law_incompressible_mooney_rivlin_primitive_domain	V6	PASS	VERIFIED_SOLVE	9	0	0
l8_incompressible_law_on_imported_voided_grid_refuses	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_save_reload_resolve	V6	PASS	VERIFIED_SOLVE	3	0	0
l8_refuses_invalid_settings_in_preflight	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_arc_length_on_imported_voided_grid	V6	PASS	ROBUSTNESS	1	0	0
l8_refuses_to_publish_below_full_load	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_refuses_a_corrupt_library	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_refuses_beyond_the_memory_budget	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_cancellation_mid_solve	V6	PASS	EXPECTED_REFUSAL	2	0	0
l8_product_checkpoint_restart	V6	SUPERSEDED	SUPERSEDED	0	0	0
l8_product_publishes_element_pressure	V6	SUPERSEDED	SUPERSEDED	0	0	0
l8_product_publishes_contact_state	V6	SUPERSEDED	SUPERSEDED	0	0	0
v5r3:l8_origin_stl_ascii_offset_1.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	1	0
v5r3:l8_origin_stl_ascii_offset_-1.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	1	0
v5r3:l8_origin_stl_ascii_offset_10.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_-10.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_100.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_-100.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_1000.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_-1000.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_ascii_offset_1000000.0	V5 run 3	SUPERSEDED	SUPERSEDED	1	1	0
v5r3:l8_origin_stl_ascii_offset_-1000000.0	V5 run 3	SUPERSEDED	SUPERSEDED	1	1	0
v5r3:l8_origin_stl_binary_offset_0.0	V5 run 3	SUPERSEDED	SUPERSEDED	2	2	0
v5r3:l8_origin_stl_binary_offset_1000000.0	V5 run 3	SUPERSEDED	SUPERSEDED	1	1	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
v5r3:l8_origin_stl_binary_offset_ -1000000.0	V5 run 3	**SUPERSEDED**	SUPERSEDED	1	1	0

Lane 9

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l9_non_finite_load	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_density_count_mismatch	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_constraint_count_mismatch	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_negative_modulus	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_compressible_law_at_nu_one_half	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_zero_element_size	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_negative_yield_stress	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_mooney_rivlin_beyond_its_poisson_cap	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_contact_plane_normal_not_unit	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_negative_friction	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_contact_pair_names_a_missing_body	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_invalid_settings	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_invalid_arc_length_settings	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_no_supports	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_disconnected_loaded_body	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_load_control_past_a_limit_point	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_initial_penetration_beyond_the_limit	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_shear_beyond_the_coulomb_capacity	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_cutback_exhaustion	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_memory_budget_below_the_model	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_restart_from_another_mesh	V6	PASS	EXPECTED_REFUSAL	3	0	0
l9_missing_materials_library	V6	PASS	EXPECTED_REFUSAL	5	0	0
l9_missing_tangent_library	V6	PASS	EXPECTED_REFUSAL	5	0	0
l9_corrupt_materials_library	V6	PASS	EXPECTED_REFUSAL	5	0	0
l9_cancellation_before_the_solve	V6	PASS	EXPECTED_REFUSAL	2	0	0
l9_cancellation_mid_solve	V6	PASS	EXPECTED_REFUSAL	2	0	0
l9_control_the_same_model_solves	V6	PASS	VERIFIED_SOLVE	2	0	0
v4:b0_every_probe_converges_or_refuses_ by_name	V4 carried	PASS	EXPECTED_REFUSAL	5	0	0
v4:b1_the_limit_load_is_bracketed_from_ below	V4 carried	PASS	KNOWN_LIMITATION_CONFIRMED	4	0	0

Lane 10

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l10_frictional_stack_8x8	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_frictional_stack_16x16	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_frictional_stack_32x32	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l10_mixed_up_cantilever_16x4x4	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_nine_mode_mr_cantilever_16x4x4	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_mixed_up_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	7	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l10_nine_mode_mr_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	7	0	0
l10_mixed_up_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l10_nine_mode_mr_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	6	0	0
v4:p_elastic_cantilever_16k	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_plastic_block_13k	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_hyperelastic_block_13k	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_body_contact_9216	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_body_contact_101376	V4 carried	PASS	VERIFIED_SOLVE	6	0	0
v4:p_the_ladder_reached_scale	V4 carried	PASS	VERIFIED_SOLVE	1	0	0
v4:p_cold_elastic_cantilever_16k_process_1	V4 carried	PASS	VERIFIED_SOLVE	3	0	0
v4:p_cold_elastic_cantilever_16k_process_2	V4 carried	PASS	VERIFIED_SOLVE	3	0	0
v4:p_cold_elastic_cantilever_16k_process_3	V4 carried	PASS	VERIFIED_SOLVE	3	0	0

Lane 11

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l11_infsup_local_jump	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_stabilised_bending_constraint	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_mixed_16384_rung	V6	PASS	VERIFIED_SOLVE	3	0	0
l11_kappa_2000	V6	PASS	VERIFIED_SOLVE	3	0	0
l11_compression_onset	V6	PASS	KNOWN_LIMITATION_CONFIRMED	3	0	0
l11_structural_snap_through	V6	PASS	VERIFIED_SOLVE	4	0	0
l11_arc_length_contact	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_arc_length_mixed_element	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_arc_length_metal	V6	PASS	DIFFERENTIAL_AGREEMENT	3	0	0
l11_arc_length_multigrid	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_self_contact	V6	PASS	VERIFIED_SOLVE	4	0	0
l11_two_body_curved	V6	PASS	KNOWN_LIMITATION_CONFIRMED	3	0	0
l11_hertz_rigid_sphere	V6	PASS	VERIFIED_SOLVE	6	0	0
l11_dynamics	V6	NOT_ SUPPORTED	NOT_SUPPORTED	0	0	0
l11_dynamics_fails_closed	V6	PASS	EXPECTED_REFUSAL	1	0	0
l11_viscoelastic	V6	PASS	VERIFIED_SOLVE	3	0	0
l11_fibre	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_j2_multiplicative	V6	PASS	VERIFIED_SOLVE	5	0	0
l11_resume_engine	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_resume_product	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_product_outputs	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_origin_obj	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_3mf	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_amf	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_gltf	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_step-xde	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_step-legacy	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_step_kernel	V6	PASS	VERIFIED_SOLVE	2	0	0

Case	Source	Status	Outcome class	Gates	Supers.	NOT_RUN
l11_origin_iges_native	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_origin_alignment_proof	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_thin_feature_advisory	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_diagnostics	V6	PASS	VERIFIED_SOLVE	1	0	0
l11_validation_infrastructure	V6	PASS	KNOWN_LIMITATION_CONFIRMED	2	0	0
l11_step_corpus	V6	PASS	VERIFIED_SOLVE	2	0	0
l11_ladder_svk_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_svk_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_svk_cantilever_96x24x24	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_svk_cantilever_128x32x32	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_svk_cantilever_160x40x40	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_mixed_local_jump_cantilever_16x4x4	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_mixed_local_jump_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_mixed_local_jump_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_mixed_local_jump_cantilever_96x24x24	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_j2_multiplicative_cantilever_32x8x8	V6	PASS	PERFORMANCE_MEASURED	6	0	0
l11_ladder_j2_multiplicative_cantilever_64x16x16	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_ladder_j2_multiplicative_cantilever_128x32x32	V6	PASS	PERFORMANCE_MEASURED	5	0	0
l11_full_suite	V6	PASS	VERIFIED_SOLVE	3	0	0

Gate ledger

Every gate of every row: observed value, comparator, frozen limit and disposition.

l1_svk_6_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.5381e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.1616e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.4770e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6441e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.7392e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.9657e-10	<=	1.0000e-05	PASS
objectivity_force	1.1028e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.0139e-16	<=	1.0000e-10	PASS
objectivity_energy	2.8091e-16	<=	1.0000e-11	PASS
translation_invariance	3.8003e-16	<=	1.0000e-12	PASS
x:reflection	3.5362e-16	<=	1.0000e-12	PASS
y:reflection	5.2079e-16	<=	1.0000e-12	PASS

Gate	Observed	Cmp	Limit	Disposition
z:reflection	6.5876e-16	<=	1.0000e-12	PASS
axis_permutation	7.3281e-16	<=	1.0000e-12	PASS

l1_svk_6_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.2356e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.6218e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	5.9410e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.3975e-11	<=	1.0000e-06	PASS
tangent_symmetry	9.9494e-17	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.1418e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.3548e-10	<=	1.0000e-05	PASS
objectivity_force	2.1558e-15	<=	1.0000e-11	PASS
objectivity_tangent	4.4941e-16	<=	1.0000e-10	PASS
objectivity_energy	3.8467e-16	<=	1.0000e-11	PASS
translation_invariance	1.1092e-15	<=	1.0000e-12	PASS
x:reflection	8.2921e-16	<=	1.0000e-12	PASS
y:reflection	1.4641e-15	<=	1.0000e-12	PASS
z:reflection	1.8963e-15	<=	1.0000e-12	PASS

l1_svk_6_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.0374e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6629e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.1396e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.0163e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1598e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.6934e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	9.6068e-11	<=	1.0000e-05	PASS
objectivity_force	1.8955e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.1217e-16	<=	1.0000e-10	PASS
objectivity_energy	4.0811e-16	<=	1.0000e-11	PASS
translation_invariance	5.6442e-16	<=	1.0000e-12	PASS
x:reflection	9.1084e-16	<=	1.0000e-12	PASS
y:reflection	7.9018e-16	<=	1.0000e-12	PASS
z:reflection	6.4486e-16	<=	1.0000e-12	PASS

l1_svk_6_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.3703e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.1461e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	8.1167e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.9978e-11	<=	1.0000e-06	PASS

Gate	Observed	Cmp	Limit	Disposition
tangent_symmetry	8.3764e-17	<=	1.0000e-11	PASS
force_vs_energy_gradient	8.0740e-10	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	5.4904e-11	<=	1.0000e-05	PASS
objectivity_force	1.7744e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.6444e-15	<=	1.0000e-10	PASS
objectivity_energy	2.1630e-16	<=	1.0000e-11	PASS
translation_invariance	1.0246e-15	<=	1.0000e-12	PASS
x:reflection	8.8261e-16	<=	1.0000e-12	PASS
y:reflection	5.9859e-16	<=	1.0000e-12	PASS
z:reflection	8.0908e-16	<=	1.0000e-12	PASS
axis_permutation	5.3977e-16	<=	1.0000e-12	PASS

l1_svk_6_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	7.0663e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.3504e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.2729e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.8264e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9382e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.9300e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	8.5495e-11	<=	1.0000e-05	PASS
objectivity_force	1.4956e-15	<=	1.0000e-11	PASS
objectivity_tangent	4.9008e-16	<=	1.0000e-10	PASS
objectivity_energy	2.0822e-16	<=	1.0000e-11	PASS
translation_invariance	9.1174e-16	<=	1.0000e-12	PASS
x:reflection	4.7289e-16	<=	1.0000e-12	PASS
y:reflection	9.2324e-16	<=	1.0000e-12	PASS
z:reflection	5.5106e-16	<=	1.0000e-12	PASS

l1_svk_6_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.8981e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.0610e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.3450e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.9812e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6906e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.8217e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.7495e-10	<=	1.0000e-05	PASS
objectivity_force	5.9027e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.3474e-16	<=	1.0000e-10	PASS
objectivity_energy	1.4010e-16	<=	1.0000e-11	PASS
translation_invariance	7.4576e-16	<=	1.0000e-12	PASS
x:reflection	5.4642e-16	<=	1.0000e-12	PASS

Gate	Observed	Cmp	Limit	Disposition
y:reflection	6.4559e-16	<=	1.0000e-12	PASS
z:reflection	4.8084e-16	<=	1.0000e-12	PASS

l1_svk_6_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.7514e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.3181e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.8202e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.2535e-11	<=	1.0000e-06	PASS
tangent_symmetry	9.8691e-17	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.0650e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	9.3720e-11	<=	1.0000e-05	PASS
objectivity_force	1.9012e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.7077e-16	<=	1.0000e-10	PASS
objectivity_energy	2.5439e-16	<=	1.0000e-11	PASS
translation_invariance	4.9211e-16	<=	1.0000e-12	PASS
x:reflection	9.5852e-16	<=	1.0000e-12	PASS
y:reflection	9.1626e-16	<=	1.0000e-12	PASS
z:reflection	1.0141e-15	<=	1.0000e-12	PASS
axis_permutation	6.4712e-16	<=	1.0000e-12	PASS

l1_svk_6_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.1351e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.8093e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.8935e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.3286e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.9072e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1784e-10	<=	1.0000e-05	PASS
objectivity_force	8.0777e-16	<=	1.0000e-11	PASS
objectivity_tangent	8.4196e-16	<=	1.0000e-10	PASS
objectivity_energy	0	<=	1.0000e-11	PASS
translation_invariance	4.2185e-16	<=	1.0000e-12	PASS
x:reflection	5.1287e-16	<=	1.0000e-12	PASS
y:reflection	2.3188e-16	<=	1.0000e-12	PASS
z:reflection	5.8146e-16	<=	1.0000e-12	PASS

l1_svk_6_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.7566e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2140e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.8800e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3244e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.2630e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.8125e-10	<=	1.0000e-05	PASS
objectivity_force	9.7680e-16	<=	1.0000e-11	PASS
objectivity_tangent	8.0362e-16	<=	1.0000e-10	PASS
objectivity_energy	2.0837e-16	<=	1.0000e-11	PASS
translation_invariance	4.1720e-16	<=	1.0000e-12	PASS
x:reflection	3.2067e-16	<=	1.0000e-12	PASS
y:reflection	3.3565e-16	<=	1.0000e-12	PASS
z:reflection	2.5544e-16	<=	1.0000e-12	PASS

l1_svk_6_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.7055e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.3212e-16	<=	1.0000e-07	PASS
energy_vs_independent_double	1.2747e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.1472e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6807e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.0500e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.6220e-11	<=	1.0000e-05	PASS
objectivity_force	4.9737e-15	<=	1.0000e-11	PASS
objectivity_tangent	5.0370e-16	<=	1.0000e-10	PASS
objectivity_energy	1.9459e-16	<=	1.0000e-11	PASS
translation_invariance	3.2054e-15	<=	1.0000e-12	PASS
x:reflection	1.9358e-15	<=	1.0000e-12	PASS
y:reflection	1.9941e-15	<=	1.0000e-12	PASS
z:reflection	3.1894e-15	<=	1.0000e-12	PASS
axis_permutation	2.7277e-15	<=	1.0000e-12	PASS

l1_svk_6_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	8.1190e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0820e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	9.7874e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.5814e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9767e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.5201e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	7.4699e-11	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	1.6142e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.9936e-16	<=	1.0000e-10	PASS
objectivity_energy	2.3846e-16	<=	1.0000e-11	PASS
translation_invariance	5.4639e-16	<=	1.0000e-12	PASS
x:reflection	4.8178e-16	<=	1.0000e-12	PASS
y:reflection	8.3881e-16	<=	1.0000e-12	PASS
z:reflection	4.7909e-16	<=	1.0000e-12	PASS

l1_svk_6_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.5355e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2617e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	2.4352e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.3664e-11	<=	1.0000e-06	PASS
tangent_symmetry	9.5897e-17	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.3391e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.8062e-10	<=	1.0000e-05	PASS
objectivity_force	1.1824e-15	<=	1.0000e-11	PASS
objectivity_tangent	5.6866e-16	<=	1.0000e-10	PASS
objectivity_energy	2.2847e-17	<=	1.0000e-11	PASS
translation_invariance	1.2098e-15	<=	1.0000e-12	PASS
x:reflection	7.3692e-16	<=	1.0000e-12	PASS
y:reflection	1.0597e-15	<=	1.0000e-12	PASS
z:reflection	9.7726e-16	<=	1.0000e-12	PASS

l1_svk_6_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.0753e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.3224e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.5655e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.8147e-11	<=	1.0000e-06	PASS
tangent_symmetry	9.8054e-17	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.5763e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.5251e-10	<=	1.0000e-05	PASS
objectivity_force	2.9343e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.8909e-16	<=	1.0000e-10	PASS
objectivity_energy	3.3319e-16	<=	1.0000e-11	PASS
translation_invariance	1.5372e-15	<=	1.0000e-12	PASS
x:reflection	8.6917e-16	<=	1.0000e-12	PASS
y:reflection	1.1066e-15	<=	1.0000e-12	PASS
z:reflection	7.0201e-16	<=	1.0000e-12	PASS
axis_permutation	1.2974e-15	<=	1.0000e-12	PASS

l1_svk_6_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.1620e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.4481e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.6104e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.3310e-11	<=	1.0000e-06	PASS
tangent_symmetry	8.6062e-17	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.0444e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.1342e-10	<=	1.0000e-05	PASS
objectivity_force	1.6681e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.5311e-16	<=	1.0000e-10	PASS
objectivity_energy	1.7184e-16	<=	1.0000e-11	PASS
translation_invariance	8.3479e-16	<=	1.0000e-12	PASS
x:reflection	4.9004e-16	<=	1.0000e-12	PASS
y:reflection	7.6944e-16	<=	1.0000e-12	PASS
z:reflection	9.3859e-16	<=	1.0000e-12	PASS

l1_svk_6_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.2024e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.5082e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.8780e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6956e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.5356e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.0675e-10	<=	1.0000e-05	PASS
objectivity_force	2.0006e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0208e-15	<=	1.0000e-10	PASS
objectivity_energy	6.8406e-16	<=	1.0000e-11	PASS
translation_invariance	5.6757e-16	<=	1.0000e-12	PASS
x:reflection	3.3373e-16	<=	1.0000e-12	PASS
y:reflection	6.8459e-16	<=	1.0000e-12	PASS
z:reflection	3.4727e-16	<=	1.0000e-12	PASS

l1_svk_6_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6065e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.3241e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.9362e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.5198e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.0654e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.3844e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.6275e-10	<=	1.0000e-05	PASS
objectivity_force	2.6752e-15	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_tangent	7.0280e-16	<=	1.0000e-10	PASS
objectivity_energy	2.8586e-16	<=	1.0000e-11	PASS
translation_invariance	2.3000e-15	<=	1.0000e-12	PASS
x:reflection	1.7509e-15	<=	1.0000e-12	PASS
y:reflection	1.9357e-15	<=	1.0000e-12	PASS
z:reflection	1.7028e-15	<=	1.0000e-12	PASS
axis_permutation	2.3649e-15	<=	1.0000e-12	PASS

l1_svk_9_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.1240e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.6229e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.7368e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	8.8309e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7593e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.2364e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	6.3609e-11	<=	1.0000e-05	PASS
objectivity_force	1.2841e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.7746e-16	<=	1.0000e-10	PASS
objectivity_energy	1.6871e-16	<=	1.0000e-11	PASS
translation_invariance	7.4009e-16	<=	1.0000e-12	PASS
x:reflection	3.5175e-16	<=	1.0000e-12	PASS
y:reflection	7.2629e-16	<=	1.0000e-12	PASS
z:reflection	3.2172e-16	<=	1.0000e-12	PASS
axis_permutation	6.7272e-16	<=	1.0000e-12	PASS

l1_svk_9_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.7796e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2758e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.7374e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.3174e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.2862e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.2690e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.5236e-10	<=	1.0000e-05	PASS
objectivity_force	9.4997e-16	<=	1.0000e-11	PASS
objectivity_tangent	7.6625e-16	<=	1.0000e-10	PASS
objectivity_energy	4.3436e-17	<=	1.0000e-11	PASS
translation_invariance	2.0023e-15	<=	1.0000e-12	PASS
x:reflection	7.6552e-16	<=	1.0000e-12	PASS
y:reflection	9.4522e-16	<=	1.0000e-12	PASS
z:reflection	1.1536e-15	<=	1.0000e-12	PASS

l1_svk_9_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.0339e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.0483e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	4.3779e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.7529e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.2975e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.4194e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.2777e-10	<=	1.0000e-05	PASS
objectivity_force	9.2665e-16	<=	1.0000e-11	PASS
objectivity_tangent	5.4438e-16	<=	1.0000e-10	PASS
objectivity_energy	1.5945e-16	<=	1.0000e-11	PASS
translation_invariance	1.5014e-15	<=	1.0000e-12	PASS
x:reflection	4.2802e-16	<=	1.0000e-12	PASS
y:reflection	6.8210e-16	<=	1.0000e-12	PASS
z:reflection	5.3665e-16	<=	1.0000e-12	PASS

l1_svk_9_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	9.0618e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.7031e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.6457e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.3962e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1877e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.6883e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3392e-10	<=	1.0000e-05	PASS
objectivity_force	1.9043e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.5153e-16	<=	1.0000e-10	PASS
objectivity_energy	1.4870e-16	<=	1.0000e-11	PASS
translation_invariance	1.1544e-15	<=	1.0000e-12	PASS
x:reflection	9.2240e-16	<=	1.0000e-12	PASS
y:reflection	1.2771e-15	<=	1.0000e-12	PASS
z:reflection	1.2577e-15	<=	1.0000e-12	PASS
axis_permutation	9.2194e-16	<=	1.0000e-12	PASS

l1_svk_9_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.8888e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.2673e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.9659e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.3540e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6714e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.4422e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	5.3627e-11	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	2.6039e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0727e-15	<=	1.0000e-10	PASS
objectivity_energy	5.1726e-16	<=	1.0000e-11	PASS
translation_invariance	9.3253e-16	<=	1.0000e-12	PASS
x:reflection	7.2126e-16	<=	1.0000e-12	PASS
y:reflection	1.0510e-15	<=	1.0000e-12	PASS
z:reflection	1.9740e-15	<=	1.0000e-12	PASS

l1_svk_9_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2941e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6269e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	8.1099e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	7.3742e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6689e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.7980e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.9408e-10	<=	1.0000e-05	PASS
objectivity_force	4.6293e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0375e-15	<=	1.0000e-10	PASS
objectivity_energy	2.0036e-16	<=	1.0000e-11	PASS
translation_invariance	4.0170e-16	<=	1.0000e-12	PASS
x:reflection	3.6736e-16	<=	1.0000e-12	PASS
y:reflection	3.3659e-16	<=	1.0000e-12	PASS
z:reflection	2.9220e-16	<=	1.0000e-12	PASS

l1_svk_9_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.5086e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.8213e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.2478e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.0189e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1591e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.6542e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.5351e-10	<=	1.0000e-05	PASS
objectivity_force	1.0361e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.3351e-16	<=	1.0000e-10	PASS
objectivity_energy	4.5872e-17	<=	1.0000e-11	PASS
translation_invariance	1.3868e-15	<=	1.0000e-12	PASS
x:reflection	7.7241e-16	<=	1.0000e-12	PASS
y:reflection	8.3757e-16	<=	1.0000e-12	PASS
z:reflection	8.2324e-16	<=	1.0000e-12	PASS
axis_permutation	9.6125e-16	<=	1.0000e-12	PASS

l1_svk_9_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.3472e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.1445e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.4179e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0684e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.0568e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.6295e-10	<=	1.0000e-05	PASS
objectivity_force	7.9988e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.9639e-15	<=	1.0000e-10	PASS
objectivity_energy	2.9979e-16	<=	1.0000e-11	PASS
translation_invariance	2.7176e-16	<=	1.0000e-12	PASS
x:reflection	2.7636e-16	<=	1.0000e-12	PASS
y:reflection	4.7669e-16	<=	1.0000e-12	PASS
z:reflection	2.5201e-16	<=	1.0000e-12	PASS

l1_svk_9_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.1438e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.3499e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.6162e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.4402e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2707e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.2304e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	3.0723e-11	<=	1.0000e-05	PASS
objectivity_force	2.5769e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.3704e-16	<=	1.0000e-10	PASS
objectivity_energy	3.3285e-17	<=	1.0000e-11	PASS
translation_invariance	1.4112e-15	<=	1.0000e-12	PASS
x:reflection	7.8437e-16	<=	1.0000e-12	PASS
y:reflection	6.7892e-16	<=	1.0000e-12	PASS
z:reflection	6.7684e-16	<=	1.0000e-12	PASS

l1_svk_9_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.4006e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.1157e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	4.0454e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	8.6858e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.5611e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.3879e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3140e-10	<=	1.0000e-05	PASS
objectivity_force	4.9284e-16	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_tangent	8.4760e-16	<=	1.0000e-10	PASS
objectivity_energy	6.2647e-17	<=	1.0000e-11	PASS
translation_invariance	3.1501e-16	<=	1.0000e-12	PASS
x:reflection	2.2588e-16	<=	1.0000e-12	PASS
y:reflection	3.1841e-16	<=	1.0000e-12	PASS
z:reflection	1.9260e-16	<=	1.0000e-12	PASS
axis_permutation	2.3037e-16	<=	1.0000e-12	PASS

l1_svk_9_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	7.8251e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.3096e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.3915e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.6789e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7321e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.3719e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.8215e-10	<=	1.0000e-05	PASS
objectivity_force	2.6297e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.3182e-16	<=	1.0000e-10	PASS
objectivity_energy	0	<=	1.0000e-11	PASS
translation_invariance	1.7965e-15	<=	1.0000e-12	PASS
x:reflection	1.9878e-15	<=	1.0000e-12	PASS
y:reflection	1.3434e-15	<=	1.0000e-12	PASS
z:reflection	7.7386e-16	<=	1.0000e-12	PASS

l1_svk_9_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.6005e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6734e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.3672e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.1232e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0000e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.2541e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4294e-10	<=	1.0000e-05	PASS
objectivity_force	9.1930e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.6958e-16	<=	1.0000e-10	PASS
objectivity_energy	1.5575e-16	<=	1.0000e-11	PASS
translation_invariance	4.6403e-16	<=	1.0000e-12	PASS
x:reflection	4.3776e-16	<=	1.0000e-12	PASS
y:reflection	1.0181e-15	<=	1.0000e-12	PASS
z:reflection	8.8150e-16	<=	1.0000e-12	PASS

l1_svk_9_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	8.5289e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.0941e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	7.0581e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.5064e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6400e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.3053e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3062e-10	<=	1.0000e-05	PASS
objectivity_force	1.3369e-15	<=	1.0000e-11	PASS
objectivity_tangent	4.2380e-16	<=	1.0000e-10	PASS
objectivity_energy	1.0740e-16	<=	1.0000e-11	PASS
translation_invariance	1.1815e-15	<=	1.0000e-12	PASS
x:reflection	1.1444e-15	<=	1.0000e-12	PASS
y:reflection	5.6759e-16	<=	1.0000e-12	PASS
z:reflection	9.3053e-16	<=	1.0000e-12	PASS
axis_permutation	9.3374e-16	<=	1.0000e-12	PASS

l1_svk_9_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.1119e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.6773e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.4363e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.5202e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7541e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.0628e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	7.1914e-11	<=	1.0000e-05	PASS
objectivity_force	7.1819e-16	<=	1.0000e-11	PASS
objectivity_tangent	5.1927e-16	<=	1.0000e-10	PASS
objectivity_energy	1.4767e-16	<=	1.0000e-11	PASS
translation_invariance	9.0668e-16	<=	1.0000e-12	PASS
x:reflection	7.5994e-16	<=	1.0000e-12	PASS
y:reflection	5.1308e-16	<=	1.0000e-12	PASS
z:reflection	3.7775e-16	<=	1.0000e-12	PASS

l1_svk_9_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3016e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.6245e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	7.7366e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.8444e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4736e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.8224e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.5996e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	1.9132e-15	<=	1.0000e-11	PASS
objectivity_tangent	5.0119e-16	<=	1.0000e-10	PASS
objectivity_energy	0	<=	1.0000e-11	PASS
translation_invariance	2.5567e-15	<=	1.0000e-12	PASS
x:reflection	1.1991e-15	<=	1.0000e-12	PASS
y:reflection	1.5521e-15	<=	1.0000e-12	PASS
z:reflection	2.0834e-15	<=	1.0000e-12	PASS

l1_svk_9_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.7299e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.2852e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.8406e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.1869e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1837e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.8217e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3014e-10	<=	1.0000e-05	PASS
objectivity_force	1.0780e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.6930e-16	<=	1.0000e-10	PASS
objectivity_energy	1.9274e-16	<=	1.0000e-11	PASS
translation_invariance	5.8974e-16	<=	1.0000e-12	PASS
x:reflection	4.8396e-16	<=	1.0000e-12	PASS
y:reflection	1.2795e-15	<=	1.0000e-12	PASS
z:reflection	4.9475e-16	<=	1.0000e-12	PASS
axis_permutation	7.0493e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.2212e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6279e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	9.1570e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.2966e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7733e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.7343e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.7521e-10	<=	1.0000e-05	PASS
objectivity_force	2.5737e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.8976e-16	<=	1.0000e-10	PASS
objectivity_energy	4.4032e-16	<=	1.0000e-11	PASS
translation_invariance	3.9845e-16	<=	1.0000e-12	PASS
x:reflection	4.2624e-16	<=	1.0000e-12	PASS
y:reflection	3.4306e-16	<=	1.0000e-12	PASS
z:reflection	6.9817e-16	<=	1.0000e-12	PASS
axis_permutation	7.1962e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	9.0855e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.7305e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.1733e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.9753e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5258e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.7098e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4989e-10	<=	1.0000e-05	PASS
objectivity_force	1.2353e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.0030e-16	<=	1.0000e-10	PASS
objectivity_energy	1.2423e-16	<=	1.0000e-11	PASS
translation_invariance	1.0033e-15	<=	1.0000e-12	PASS
x:reflection	1.2951e-15	<=	1.0000e-12	PASS
y:reflection	1.0914e-15	<=	1.0000e-12	PASS
z:reflection	1.1886e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.7782e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.0620e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.0891e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	8.6844e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6338e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.0594e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.7779e-10	<=	1.0000e-05	PASS
objectivity_force	4.6825e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.4283e-15	<=	1.0000e-10	PASS
objectivity_energy	2.5521e-16	<=	1.0000e-11	PASS
translation_invariance	5.7070e-16	<=	1.0000e-12	PASS
x:reflection	6.1501e-16	<=	1.0000e-12	PASS
y:reflection	6.9737e-16	<=	1.0000e-12	PASS
z:reflection	5.9890e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.2909e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2284e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	3.2925e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.5445e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5898e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.3148e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1351e-10	<=	1.0000e-05	PASS
objectivity_force	1.2109e-15	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_tangent	8.9200e-16	<=	1.0000e-10	PASS
objectivity_energy	8.3398e-17	<=	1.0000e-11	PASS
translation_invariance	8.4240e-16	<=	1.0000e-12	PASS
x:reflection	1.2109e-15	<=	1.0000e-12	PASS
y:reflection	1.1308e-15	<=	1.0000e-12	PASS
z:reflection	7.7904e-16	<=	1.0000e-12	PASS
axis_permutation	1.4787e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.9933e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.9836e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	5.1752e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	7.6018e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.3550e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.2501e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.8965e-10	<=	1.0000e-05	PASS
objectivity_force	2.4822e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.7664e-15	<=	1.0000e-10	PASS
objectivity_energy	5.5677e-16	<=	1.0000e-11	PASS
translation_invariance	7.4444e-16	<=	1.0000e-12	PASS
x:reflection	4.5307e-16	<=	1.0000e-12	PASS
y:reflection	6.4845e-16	<=	1.0000e-12	PASS
z:reflection	9.4638e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6692e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.4337e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.5882e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.8319e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2608e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.2197e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.2124e-10	<=	1.0000e-05	PASS
objectivity_force	7.1791e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.8726e-16	<=	1.0000e-10	PASS
objectivity_energy	0	<=	1.0000e-11	PASS
translation_invariance	1.4404e-15	<=	1.0000e-12	PASS
x:reflection	9.1237e-16	<=	1.0000e-12	PASS
y:reflection	3.4076e-16	<=	1.0000e-12	PASS
z:reflection	3.3694e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2339e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.8910e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.8801e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	9.9396e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3213e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.2477e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1703e-10	<=	1.0000e-05	PASS
objectivity_force	8.0197e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.8997e-16	<=	1.0000e-10	PASS
objectivity_energy	1.4608e-16	<=	1.0000e-11	PASS
translation_invariance	5.2303e-16	<=	1.0000e-12	PASS
x:reflection	3.4457e-16	<=	1.0000e-12	PASS
y:reflection	4.8906e-16	<=	1.0000e-12	PASS
z:reflection	1.7121e-16	<=	1.0000e-12	PASS
axis_permutation	4.4550e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.8534e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.7901e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	4.3531e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.3671e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6668e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.8966e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.0904e-10	<=	1.0000e-05	PASS
objectivity_force	1.4343e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.2005e-15	<=	1.0000e-10	PASS
objectivity_energy	5.1320e-16	<=	1.0000e-11	PASS
translation_invariance	3.2467e-15	<=	1.0000e-12	PASS
x:reflection	2.9272e-15	<=	1.0000e-12	PASS
y:reflection	3.0066e-15	<=	1.0000e-12	PASS
z:reflection	3.9150e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3762e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.3446e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.2909e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.4480e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.3165e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.8204e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.7601e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	1.2116e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.7456e-15	<=	1.0000e-10	PASS
objectivity_energy	4.9374e-16	<=	1.0000e-11	PASS
translation_invariance	2.4901e-15	<=	1.0000e-12	PASS
x:reflection	2.3995e-15	<=	1.0000e-12	PASS
y:reflection	2.8750e-15	<=	1.0000e-12	PASS
z:reflection	3.2355e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.1200e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.3674e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	9.6563e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.4928e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4576e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.6922e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1808e-10	<=	1.0000e-05	PASS
objectivity_force	2.9671e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3143e-15	<=	1.0000e-10	PASS
objectivity_energy	3.7001e-16	<=	1.0000e-11	PASS
translation_invariance	9.7929e-16	<=	1.0000e-12	PASS
x:reflection	3.1734e-16	<=	1.0000e-12	PASS
y:reflection	4.6902e-16	<=	1.0000e-12	PASS
z:reflection	5.0145e-16	<=	1.0000e-12	PASS
axis_permutation	5.9190e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.4236e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.6137e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	5.5421e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.7509e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.5797e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.3349e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.0926e-10	<=	1.0000e-05	PASS
objectivity_force	1.3429e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.5021e-16	<=	1.0000e-10	PASS
objectivity_energy	2.3462e-16	<=	1.0000e-11	PASS
translation_invariance	9.8151e-16	<=	1.0000e-12	PASS
x:reflection	4.6639e-16	<=	1.0000e-12	PASS
y:reflection	5.2227e-16	<=	1.0000e-12	PASS
z:reflection	6.0300e-16	<=	1.0000e-12	PASS

l1_neo_hookean_6_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6245e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.1602e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.4021e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.9128e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0137e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.0488e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	3.9401e-10	<=	1.0000e-05	PASS
objectivity_force	1.4999e-15	<=	1.0000e-11	PASS
objectivity_tangent	5.4051e-16	<=	1.0000e-10	PASS
objectivity_energy	1.5833e-16	<=	1.0000e-11	PASS
translation_invariance	2.4453e-15	<=	1.0000e-12	PASS
x:reflection	1.0331e-15	<=	1.0000e-12	PASS
y:reflection	2.2696e-15	<=	1.0000e-12	PASS
z:reflection	1.2165e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.5695e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.9981e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.6789e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9815e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.9151e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	8.9126e-11	<=	1.0000e-05	PASS
objectivity_force	3.1564e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.2413e-16	<=	1.0000e-10	PASS
objectivity_energy	2.2932e-16	<=	1.0000e-11	PASS
translation_invariance	1.9510e-15	<=	1.0000e-12	PASS
x:reflection	1.5550e-15	<=	1.0000e-12	PASS
y:reflection	2.0080e-15	<=	1.0000e-12	PASS
z:reflection	1.8746e-15	<=	1.0000e-12	PASS
axis_permutation	3.6610e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.1435e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.1209e-16	<=	1.0000e-07	PASS
energy_vs_independent_double	9.5679e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.4312e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.9272e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.2326e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	4.2793e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	7.7016e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.2626e-15	<=	1.0000e-10	PASS
objectivity_energy	4.1276e-16	<=	1.0000e-11	PASS
translation_invariance	2.2397e-15	<=	1.0000e-12	PASS
x:reflection	1.8731e-15	<=	1.0000e-12	PASS
y:reflection	6.5152e-16	<=	1.0000e-12	PASS
z:reflection	1.8158e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3986e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0446e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	7.0392e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.1457e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2140e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.9859e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.8505e-10	<=	1.0000e-05	PASS
objectivity_force	7.2403e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3690e-15	<=	1.0000e-10	PASS
objectivity_energy	9.4231e-16	<=	1.0000e-11	PASS
translation_invariance	6.6104e-16	<=	1.0000e-12	PASS
x:reflection	6.8327e-16	<=	1.0000e-12	PASS
y:reflection	1.1789e-15	<=	1.0000e-12	PASS
z:reflection	1.1919e-15	<=	1.0000e-12	PASS

l1_neo_hookean_6_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.1915e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.5703e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.3488e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.5528e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0455e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.9672e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.6054e-10	<=	1.0000e-05	PASS
objectivity_force	1.2920e-14	<=	1.0000e-11	PASS
objectivity_tangent	9.1300e-16	<=	1.0000e-10	PASS
objectivity_energy	3.5893e-16	<=	1.0000e-11	PASS
translation_invariance	4.4661e-15	<=	1.0000e-12	PASS
x:reflection	1.0431e-15	<=	1.0000e-12	PASS
y:reflection	1.0074e-15	<=	1.0000e-12	PASS
z:reflection	2.2468e-15	<=	1.0000e-12	PASS
axis_permutation	1.1456e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.2351e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.7136e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.2674e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.4601e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1261e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.4264e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	9.5615e-11	<=	1.0000e-05	PASS
objectivity_force	3.9582e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.4209e-15	<=	1.0000e-10	PASS
objectivity_energy	3.4533e-16	<=	1.0000e-11	PASS
translation_invariance	1.2296e-15	<=	1.0000e-12	PASS
x:reflection	1.4512e-15	<=	1.0000e-12	PASS
y:reflection	9.2792e-16	<=	1.0000e-12	PASS
z:reflection	7.7922e-16	<=	1.0000e-12	PASS
axis_permutation	9.5158e-16	<=	1.0000e-12	PASS

l1_neo_hookean_9_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_neo_hookean_9_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_neo_hookean_9_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_neo_hookean_9_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.9360e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.1369e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	8.0487e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.5870e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8876e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	7.6070e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1168e-10	<=	1.0000e-05	PASS
objectivity_force	4.6893e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.5903e-16	<=	1.0000e-10	PASS
objectivity_energy	9.6241e-17	<=	1.0000e-11	PASS
translation_invariance	2.0486e-15	<=	1.0000e-12	PASS

Gate	Observed	Cmp	Limit	Disposition
x:reflection	1.6329e-15	<=	1.0000e-12	PASS
y:reflection	1.9974e-15	<=	1.0000e-12	PASS
z:reflection	2.3725e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_neo_hookean_9_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.5824e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.9793e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	2.4428e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.6977e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3967e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.5908e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.5305e-10	<=	1.0000e-05	PASS
objectivity_force	1.3407e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.0817e-16	<=	1.0000e-10	PASS
objectivity_energy	2.0918e-17	<=	1.0000e-11	PASS
translation_invariance	2.6624e-15	<=	1.0000e-12	PASS
x:reflection	1.8247e-15	<=	1.0000e-12	PASS
y:reflection	2.1917e-15	<=	1.0000e-12	PASS
z:reflection	2.1061e-15	<=	1.0000e-12	PASS
axis_permutation	3.6657e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	7.1056e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0199e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.1772e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.8614e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9398e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.6777e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.7649e-10	<=	1.0000e-05	PASS
objectivity_force	2.3945e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1925e-15	<=	1.0000e-10	PASS
objectivity_energy	2.1185e-16	<=	1.0000e-11	PASS
translation_invariance	1.8141e-15	<=	1.0000e-12	PASS
x:reflection	6.4355e-16	<=	1.0000e-12	PASS
y:reflection	2.3300e-15	<=	1.0000e-12	PASS
z:reflection	7.3117e-16	<=	1.0000e-12	PASS

l1_neo_hookean_9_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.4392e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.7420e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	6.1191e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.5843e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8189e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.5395e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3360e-10	<=	1.0000e-05	PASS
objectivity_force	1.1680e-14	<=	1.0000e-11	PASS
objectivity_tangent	2.6776e-15	<=	1.0000e-10	PASS
objectivity_energy	1.0873e-15	<=	1.0000e-11	PASS
translation_invariance	1.0180e-15	<=	1.0000e-12	PASS
x:reflection	8.9360e-16	<=	1.0000e-12	PASS
y:reflection	1.3461e-15	<=	1.0000e-12	PASS
z:reflection	1.3365e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.5564e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.1685e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.3135e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3404e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.1382e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	8.5860e-11	<=	1.0000e-05	PASS
objectivity_force	1.2120e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1768e-15	<=	1.0000e-10	PASS
objectivity_energy	8.9027e-17	<=	1.0000e-11	PASS
translation_invariance	2.3022e-15	<=	1.0000e-12	PASS
x:reflection	1.1674e-15	<=	1.0000e-12	PASS
y:reflection	1.3577e-15	<=	1.0000e-12	PASS
z:reflection	9.5735e-16	<=	1.0000e-12	PASS
axis_permutation	1.9750e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.8187e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.0315e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.1527e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.3635e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2165e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.9357e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.9049e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	6.4684e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.2899e-15	<=	1.0000e-10	PASS
objectivity_energy	6.2001e-16	<=	1.0000e-11	PASS
translation_invariance	1.4391e-15	<=	1.0000e-12	PASS
x:reflection	1.5401e-15	<=	1.0000e-12	PASS
y:reflection	2.0415e-15	<=	1.0000e-12	PASS
z:reflection	2.9048e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.7778e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.5462e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.0620e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.6534e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7263e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.5308e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.3323e-10	<=	1.0000e-05	PASS
objectivity_force	1.5897e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.4896e-15	<=	1.0000e-10	PASS
objectivity_energy	1.5902e-16	<=	1.0000e-11	PASS
translation_invariance	9.4975e-16	<=	1.0000e-12	PASS
x:reflection	7.7643e-16	<=	1.0000e-12	PASS
y:reflection	8.8301e-16	<=	1.0000e-12	PASS
z:reflection	9.1997e-16	<=	1.0000e-12	PASS

l1_neo_hookean_9_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.2945e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.4706e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	3.1722e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.9500e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6360e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.7321e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	9.9788e-11	<=	1.0000e-05	PASS
objectivity_force	9.0390e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0794e-15	<=	1.0000e-10	PASS
objectivity_energy	8.5203e-17	<=	1.0000e-11	PASS
translation_invariance	9.0685e-16	<=	1.0000e-12	PASS
x:reflection	4.4925e-16	<=	1.0000e-12	PASS
y:reflection	7.2612e-16	<=	1.0000e-12	PASS
z:reflection	3.3085e-16	<=	1.0000e-12	PASS
axis_permutation	3.6858e-16	<=	1.0000e-12	PASS

l1_neo_hookean_9_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_neo_hookean_9_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.7966e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.1936e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	2.2376e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.8792e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2498e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.5823e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1534e-10	<=	1.0000e-05	PASS
objectivity_force	6.7027e-16	<=	1.0000e-11	PASS
objectivity_tangent	9.0508e-16	<=	1.0000e-10	PASS
objectivity_energy	3.9790e-17	<=	1.0000e-11	PASS
translation_invariance	2.0088e-15	<=	1.0000e-12	PASS
x:reflection	5.1199e-16	<=	1.0000e-12	PASS
y:reflection	1.7321e-15	<=	1.0000e-12	PASS
z:reflection	2.6803e-15	<=	1.0000e-12	PASS

l1_neo_hookean_9_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.0547e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.3217e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	5.8845e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.6247e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9252e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.3644e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.2862e-10	<=	1.0000e-05	PASS
objectivity_force	2.1539e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.5471e-16	<=	1.0000e-10	PASS
objectivity_energy	3.1629e-16	<=	1.0000e-11	PASS
translation_invariance	6.3218e-16	<=	1.0000e-12	PASS
x:reflection	3.3701e-16	<=	1.0000e-12	PASS
y:reflection	6.1410e-16	<=	1.0000e-12	PASS
z:reflection	3.7509e-16	<=	1.0000e-12	PASS
axis_permutation	6.4685e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.9074e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.7496e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	5.5418e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	7.6384e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0669e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.8270e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	3.8306e-10	<=	1.0000e-05	PASS
objectivity_force	9.5283e-16	<=	1.0000e-11	PASS
objectivity_tangent	9.5365e-16	<=	1.0000e-10	PASS
objectivity_energy	1.1948e-16	<=	1.0000e-11	PASS
translation_invariance	1.6305e-15	<=	1.0000e-12	PASS
x:reflection	6.1874e-16	<=	1.0000e-12	PASS
y:reflection	1.6692e-15	<=	1.0000e-12	PASS
z:reflection	2.5788e-15	<=	1.0000e-12	PASS
axis_permutation	2.4713e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_6_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_6_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.1329e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.6697e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.2882e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.5350e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9777e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.3922e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.2848e-10	<=	1.0000e-05	PASS
objectivity_force	1.2344e-14	<=	1.0000e-11	PASS
objectivity_tangent	8.7630e-16	<=	1.0000e-10	PASS
objectivity_energy	8.6462e-17	<=	1.0000e-11	PASS
translation_invariance	1.9450e-15	<=	1.0000e-12	PASS
x:reflection	1.1922e-15	<=	1.0000e-12	PASS
y:reflection	5.4922e-15	<=	1.0000e-12	PASS
z:reflection	2.5126e-15	<=	1.0000e-12	PASS
axis_permutation	1.6688e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_6_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.7900e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.5451e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	6.5281e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.0778e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8993e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.0084e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.0176e-10	<=	1.0000e-05	PASS
objectivity_force	1.1388e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.1645e-16	<=	1.0000e-10	PASS
objectivity_energy	1.8227e-16	<=	1.0000e-11	PASS
translation_invariance	8.0602e-16	<=	1.0000e-12	PASS
x:reflection	9.7134e-16	<=	1.0000e-12	PASS
y:reflection	1.1962e-15	<=	1.0000e-12	PASS
z:reflection	7.9779e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.7151e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.0049e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.9182e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.6729e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3774e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.0137e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1441e-10	<=	1.0000e-05	PASS
objectivity_force	6.1548e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.7764e-16	<=	1.0000e-10	PASS
objectivity_energy	1.2905e-16	<=	1.0000e-11	PASS
translation_invariance	6.8350e-15	<=	1.0000e-12	PASS
x:reflection	2.2075e-15	<=	1.0000e-12	PASS
y:reflection	1.7000e-15	<=	1.0000e-12	PASS
z:reflection	2.2184e-15	<=	1.0000e-12	PASS
axis_permutation	1.0396e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.4870e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.0696e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	3.1363e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.1448e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4948e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.1638e-08	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4903e-10	<=	1.0000e-05	PASS
objectivity_force	1.4782e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.0168e-15	<=	1.0000e-10	PASS
objectivity_energy	7.6950e-16	<=	1.0000e-11	PASS
translation_invariance	1.4149e-14	<=	1.0000e-12	PASS
x:reflection	9.9488e-15	<=	1.0000e-12	PASS
y:reflection	6.3861e-15	<=	1.0000e-12	PASS
z:reflection	4.3271e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.8161e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.7727e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.2743e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	8.6831e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0891e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.6870e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.4802e-10	<=	1.0000e-05	PASS
objectivity_force	1.9953e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.4508e-15	<=	1.0000e-10	PASS
objectivity_energy	3.8720e-16	<=	1.0000e-11	PASS
translation_invariance	5.8496e-16	<=	1.0000e-12	PASS
x:reflection	2.7054e-16	<=	1.0000e-12	PASS
y:reflection	2.8989e-16	<=	1.0000e-12	PASS
z:reflection	2.3486e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.8679e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.1272e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.1562e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	1.2467e-10	<=	1.0000e-06	PASS
tangent_symmetry	2.4431e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	5.5140e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.6448e-10	<=	1.0000e-05	PASS
objectivity_force	1.2960e-14	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_tangent	2.3712e-15	<=	1.0000e-10	PASS
objectivity_energy	7.4207e-16	<=	1.0000e-11	PASS
translation_invariance	3.9588e-15	<=	1.0000e-12	PASS
x:reflection	2.3929e-15	<=	1.0000e-12	PASS
y:reflection	1.0093e-15	<=	1.0000e-12	PASS
z:reflection	1.9459e-15	<=	1.0000e-12	PASS
axis_permutation	2.4587e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.0083e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.7239e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.0090e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.9344e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8527e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.9407e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.9559e-10	<=	1.0000e-05	PASS
objectivity_force	7.8070e-16	<=	1.0000e-11	PASS
objectivity_tangent	9.7830e-16	<=	1.0000e-10	PASS
objectivity_energy	4.6732e-17	<=	1.0000e-11	PASS
translation_invariance	1.4390e-15	<=	1.0000e-12	PASS
x:reflection	3.8413e-16	<=	1.0000e-12	PASS
y:reflection	8.0746e-16	<=	1.0000e-12	PASS
z:reflection	6.6365e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.5249e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.8419e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.7147e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	8.1658e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7417e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.6712e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3085e-10	<=	1.0000e-05	PASS
objectivity_force	2.7485e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3373e-15	<=	1.0000e-10	PASS
objectivity_energy	6.1049e-16	<=	1.0000e-11	PASS
translation_invariance	5.4424e-16	<=	1.0000e-12	PASS
x:reflection	2.8870e-16	<=	1.0000e-12	PASS
y:reflection	5.0446e-16	<=	1.0000e-12	PASS
z:reflection	7.5088e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.0354e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.2978e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.0826e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	7.2464e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4182e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.2264e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.6148e-10	<=	1.0000e-05	PASS
objectivity_force	9.8414e-16	<=	1.0000e-11	PASS
objectivity_tangent	9.0751e-16	<=	1.0000e-10	PASS
objectivity_energy	1.4883e-16	<=	1.0000e-11	PASS
translation_invariance	9.6627e-16	<=	1.0000e-12	PASS
x:reflection	8.0710e-16	<=	1.0000e-12	PASS
y:reflection	9.0811e-16	<=	1.0000e-12	PASS
z:reflection	6.0205e-16	<=	1.0000e-12	PASS
axis_permutation	7.0561e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_6_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.8454e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.0165e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.5535e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.9016e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3977e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.3671e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.7070e-10	<=	1.0000e-05	PASS
objectivity_force	1.8511e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.6320e-15	<=	1.0000e-10	PASS
objectivity_energy	1.3577e-16	<=	1.0000e-11	PASS
translation_invariance	2.8501e-15	<=	1.0000e-12	PASS
x:reflection	1.6048e-15	<=	1.0000e-12	PASS
y:reflection	9.9951e-16	<=	1.0000e-12	PASS
z:reflection	3.1654e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_6_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.7425e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.7393e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.7841e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	1.7383e-10	<=	1.0000e-06	PASS
tangent_symmetry	3.4147e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.2528e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.8629e-10	<=	1.0000e-05	PASS
objectivity_force	3.4647e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.6142e-15	<=	1.0000e-10	PASS
objectivity_energy	4.6344e-17	<=	1.0000e-11	PASS
translation_invariance	1.2598e-15	<=	1.0000e-12	PASS
x:reflection	1.2940e-15	<=	1.0000e-12	PASS
y:reflection	1.7806e-15	<=	1.0000e-12	PASS
z:reflection	3.0020e-15	<=	1.0000e-12	PASS
axis_permutation	1.7860e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.5438e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.8521e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.2635e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.9823e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8856e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.0368e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1714e-10	<=	1.0000e-05	PASS
objectivity_force	3.6616e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0718e-15	<=	1.0000e-10	PASS
objectivity_energy	3.2609e-16	<=	1.0000e-11	PASS
translation_invariance	1.0960e-15	<=	1.0000e-12	PASS
x:reflection	7.6864e-16	<=	1.0000e-12	PASS
y:reflection	1.0881e-15	<=	1.0000e-12	PASS
z:reflection	8.8085e-16	<=	1.0000e-12	PASS
axis_permutation	1.0091e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_9_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.7054e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.6912e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.1620e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.9113e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0396e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.0422e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	4.3723e-10	<=	1.0000e-05	PASS
objectivity_force	1.0739e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.9166e-15	<=	1.0000e-10	PASS
objectivity_energy	1.7071e-17	<=	1.0000e-11	PASS
translation_invariance	1.1929e-15	<=	1.0000e-12	PASS
x:reflection	4.9093e-16	<=	1.0000e-12	PASS
y:reflection	3.0731e-16	<=	1.0000e-12	PASS
z:reflection	2.3072e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.5274e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.4683e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.9095e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	6.7709e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9189e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.3521e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	8.4186e-11	<=	1.0000e-05	PASS
objectivity_force	3.2219e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.4154e-16	<=	1.0000e-10	PASS
objectivity_energy	1.2086e-16	<=	1.0000e-11	PASS
translation_invariance	1.1827e-15	<=	1.0000e-12	PASS
x:reflection	3.9203e-16	<=	1.0000e-12	PASS
y:reflection	1.4466e-15	<=	1.0000e-12	PASS
z:reflection	1.4381e-15	<=	1.0000e-12	PASS
axis_permutation	2.1229e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_9_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3658e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2770e-13	<=	1.0000e-07	PASS
energy_vs_independent_double	2.2120e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	1.8034e-10	<=	1.0000e-06	PASS
tangent_symmetry	3.2895e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.9966e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.1470e-10	<=	1.0000e-05	PASS
objectivity_force	1.7810e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3238e-15	<=	1.0000e-10	PASS
objectivity_energy	3.4585e-16	<=	1.0000e-11	PASS
translation_invariance	1.1480e-15	<=	1.0000e-12	PASS
x:reflection	6.6440e-16	<=	1.0000e-12	PASS
y:reflection	2.8424e-15	<=	1.0000e-12	PASS
z:reflection	2.3697e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6838e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.7305e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	3.7744e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.7148e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.1866e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.9608e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4365e-10	<=	1.0000e-05	PASS
objectivity_force	8.1394e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.2153e-15	<=	1.0000e-10	PASS
objectivity_energy	3.0915e-16	<=	1.0000e-11	PASS
translation_invariance	1.8002e-15	<=	1.0000e-12	PASS
x:reflection	8.3854e-16	<=	1.0000e-12	PASS
y:reflection	2.1489e-15	<=	1.0000e-12	PASS
z:reflection	2.9936e-15	<=	1.0000e-12	PASS
axis_permutation	1.6177e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.2260e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.6717e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.5409e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	4.1114e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0501e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.0154e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	4.1648e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_force	2.0131e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.4306e-15	<=	1.0000e-10	PASS
objectivity_energy	3.7664e-16	<=	1.0000e-11	PASS
translation_invariance	1.0239e-15	<=	1.0000e-12	PASS
x:reflection	1.9517e-15	<=	1.0000e-12	PASS
y:reflection	8.5422e-16	<=	1.0000e-12	PASS
z:reflection	8.4705e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.7839e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.2505e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	0	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.3860e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3004e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.4614e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.2647e-10	<=	1.0000e-05	PASS
objectivity_force	2.0024e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.8542e-15	<=	1.0000e-10	PASS
objectivity_energy	6.2688e-16	<=	1.0000e-11	PASS
translation_invariance	2.1028e-16	<=	1.0000e-12	PASS
x:reflection	1.9559e-16	<=	1.0000e-12	PASS
y:reflection	3.5593e-16	<=	1.0000e-12	PASS
z:reflection	6.6495e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_9_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_9_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	9.2162e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.2675e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	2.6421e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	2.9377e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3903e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	7.4120e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.2551e-10	<=	1.0000e-05	PASS
objectivity_force	8.2498e-15	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_tangent	1.3734e-15	<=	1.0000e-10	PASS
objectivity_energy	3.9962e-17	<=	1.0000e-11	PASS
translation_invariance	2.1354e-15	<=	1.0000e-12	PASS
x:reflection	1.4853e-15	<=	1.0000e-12	PASS
y:reflection	1.9494e-15	<=	1.0000e-12	PASS
z:reflection	2.6864e-15	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_9_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
condensation_refusal_justified	1	==	1	PASS

l1_mooney_rivlin_9_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.1742e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.7781e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.4792e-16	<=	1.0000e-10	PASS
tangent_vs_central_difference	5.9019e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5698e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.8558e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.8886e-10	<=	1.0000e-05	PASS
objectivity_force	7.4166e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.2933e-15	<=	1.0000e-10	PASS
objectivity_energy	1.9992e-16	<=	1.0000e-11	PASS
translation_invariance	3.4086e-16	<=	1.0000e-12	PASS
x:reflection	3.7380e-16	<=	1.0000e-12	PASS
y:reflection	4.3941e-16	<=	1.0000e-12	PASS
z:reflection	6.4201e-16	<=	1.0000e-12	PASS

l1_mooney_rivlin_9_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6967e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.4671e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.8167e-15	<=	1.0000e-10	PASS
tangent_vs_central_difference	3.5329e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1279e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.5789e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.0804e-10	<=	1.0000e-05	PASS
objectivity_force	2.2566e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.1493e-16	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
objectivity_energy	2.0441e-16	<=	1.0000e-11	PASS
translation_invariance	6.6245e-16	<=	1.0000e-12	PASS
x:reflection	5.3545e-16	<=	1.0000e-12	PASS
y:reflection	5.4542e-16	<=	1.0000e-12	PASS
z:reflection	4.5975e-16	<=	1.0000e-12	PASS
axis_permutation	5.4602e-16	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.3307e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.4682e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	9.1501e-16	<=	1.0000e-10	PASS
dilatation_vs_independent	4.1633e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	8.3712e-12	<=	1.0000e-06	PASS
tangent_symmetry	2.8703e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.5074e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.2464e-10	<=	1.0000e-05	PASS
objectivity_force	1.0737e-15	<=	1.0000e-11	PASS
objectivity_tangent	2.0574e-15	<=	1.0000e-10	PASS
objectivity_energy	1.0304e-16	<=	1.0000e-11	PASS
translation_invariance	2.8290e-16	<=	1.0000e-12	PASS
x:reflection	4.7346e-16	<=	1.0000e-12	PASS
y:reflection	6.0194e-16	<=	1.0000e-12	PASS
z:reflection	1.7211e-15	<=	1.0000e-12	PASS
axis_permutation	3.3054e-16	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.0038e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6708e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.5772e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	3.4694e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	1.8446e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.8560e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.2562e-08	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.5527e-10	<=	1.0000e-05	PASS
objectivity_force	3.5890e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.0413e-15	<=	1.0000e-10	PASS
objectivity_energy	6.0095e-16	<=	1.0000e-11	PASS
translation_invariance	7.1600e-16	<=	1.0000e-12	PASS
x:reflection	1.9815e-15	<=	1.0000e-12	PASS
y:reflection	3.4208e-15	<=	1.0000e-12	PASS
z:reflection	6.9895e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.2782e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.1735e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.3937e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	5.5511e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	2.8467e-11	<=	1.0000e-06	PASS
tangent_symmetry	4.2681e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.5687e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.5545e-10	<=	1.0000e-05	PASS
objectivity_force	1.9686e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0992e-15	<=	1.0000e-10	PASS
objectivity_energy	1.7685e-16	<=	1.0000e-11	PASS
translation_invariance	3.3829e-15	<=	1.0000e-12	PASS
x:reflection	1.9160e-15	<=	1.0000e-12	PASS
y:reflection	2.9414e-15	<=	1.0000e-12	PASS
z:reflection	6.0394e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2106e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.4734e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	6.4246e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	4.1633e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	1.2070e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.9445e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	8.4354e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4463e-10	<=	1.0000e-05	PASS
objectivity_force	1.6013e-14	<=	1.0000e-11	PASS
objectivity_tangent	9.0065e-16	<=	1.0000e-10	PASS
objectivity_energy	2.7030e-16	<=	1.0000e-11	PASS
translation_invariance	9.3232e-16	<=	1.0000e-12	PASS
x:reflection	3.8304e-16	<=	1.0000e-12	PASS
y:reflection	5.6454e-16	<=	1.0000e-12	PASS
z:reflection	4.7625e-16	<=	1.0000e-12	PASS
axis_permutation	5.8141e-16	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.5928e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.4950e-16	<=	1.0000e-07	PASS
energy_vs_independent_double	5.6134e-16	<=	1.0000e-10	PASS
dilatation_vs_independent	4.8572e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	1.5109e-11	<=	1.0000e-06	PASS

Gate	Observed	Cmp	Limit	Disposition
tangent_symmetry	3.1286e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	2.4526e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4559e-10	<=	1.0000e-05	PASS
objectivity_force	3.6125e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.2025e-15	<=	1.0000e-10	PASS
objectivity_energy	2.1799e-17	<=	1.0000e-11	PASS
translation_invariance	1.1554e-15	<=	1.0000e-12	PASS
x:reflection	6.5135e-16	<=	1.0000e-12	PASS
y:reflection	8.7944e-16	<=	1.0000e-12	PASS
z:reflection	5.8502e-16	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.9336e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.0341e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.7273e-16	<=	1.0000e-10	PASS
dilatation_vs_independent	1.0408e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	5.5943e-11	<=	1.0000e-06	PASS
tangent_symmetry	4.6763e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	4.5445e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.5574e-10	<=	1.0000e-05	PASS
objectivity_force	7.5987e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.9540e-16	<=	1.0000e-10	PASS
objectivity_energy	3.3891e-16	<=	1.0000e-11	PASS
translation_invariance	1.8795e-15	<=	1.0000e-12	PASS
x:reflection	7.5079e-16	<=	1.0000e-12	PASS
y:reflection	3.8481e-15	<=	1.0000e-12	PASS
z:reflection	2.4656e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	8.1098e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.6347e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	4.3874e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	1.0408e-16	<=	1.0000e-12	PASS
tangent_vs_central_difference	1.6160e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3949e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	9.1943e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.3765e-10	<=	1.0000e-05	PASS
objectivity_force	6.4512e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.6874e-15	<=	1.0000e-10	PASS
objectivity_energy	3.4822e-16	<=	1.0000e-11	PASS
translation_invariance	2.3644e-15	<=	1.0000e-12	PASS

Gate	Observed	Cmp	Limit	Disposition
x:reflection	4.4539e-15	<=	1.0000e-12	PASS
y:reflection	3.4815e-15	<=	1.0000e-12	PASS
z:reflection	4.4580e-15	<=	1.0000e-12	PASS
axis_permutation	1.5753e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	7.0160e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.3582e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	2.7796e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	1.4572e-16	<=	1.0000e-12	PASS
tangent_vs_central_difference	7.0431e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4900e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.4275e-08	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.2028e-10	<=	1.0000e-05	PASS
objectivity_force	7.0848e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1933e-15	<=	1.0000e-10	PASS
objectivity_energy	1.4835e-16	<=	1.0000e-11	PASS
translation_invariance	5.4366e-15	<=	1.0000e-12	PASS
x:reflection	9.4277e-15	<=	1.0000e-12	PASS
y:reflection	1.4250e-14	<=	1.0000e-12	PASS
z:reflection	4.3004e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.5536e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.9788e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.9381e-16	<=	1.0000e-10	PASS
dilatation_vs_independent	1.3878e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	5.2314e-11	<=	1.0000e-06	PASS
tangent_symmetry	4.5052e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.6214e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4092e-10	<=	1.0000e-05	PASS
objectivity_force	1.2571e-14	<=	1.0000e-11	PASS
objectivity_tangent	5.9097e-15	<=	1.0000e-10	PASS
objectivity_energy	8.7018e-16	<=	1.0000e-11	PASS
translation_invariance	2.7853e-15	<=	1.0000e-12	PASS
x:reflection	3.0026e-15	<=	1.0000e-12	PASS
y:reflection	5.9520e-15	<=	1.0000e-12	PASS
z:reflection	6.3424e-16	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.8282e-13	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0902e-10	<=	1.0000e-07	PASS
energy_vs_independent_double	8.9062e-16	<=	1.0000e-10	PASS
dilatation_vs_independent	4.8572e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	7.2794e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0772e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	1.1368e-08	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.7814e-10	<=	1.0000e-05	PASS
objectivity_force	3.2337e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3025e-15	<=	1.0000e-10	PASS
objectivity_energy	2.5679e-16	<=	1.0000e-11	PASS
translation_invariance	2.1064e-15	<=	1.0000e-12	PASS
x:reflection	4.1280e-16	<=	1.0000e-12	PASS
y:reflection	1.1497e-15	<=	1.0000e-12	PASS
z:reflection	3.9372e-15	<=	1.0000e-12	PASS
axis_permutation	1.2887e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3712e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0161e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	1.2796e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	9.3675e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	2.1357e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.7868e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.1711e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.6172e-10	<=	1.0000e-05	PASS
objectivity_force	5.8940e-15	<=	1.0000e-11	PASS
objectivity_tangent	3.9724e-15	<=	1.0000e-10	PASS
objectivity_energy	3.8563e-16	<=	1.0000e-11	PASS
translation_invariance	2.9013e-15	<=	1.0000e-12	PASS
x:reflection	2.1873e-15	<=	1.0000e-12	PASS
y:reflection	1.4706e-15	<=	1.0000e-12	PASS
z:reflection	8.7803e-16	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.5559e-13	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.7720e-11	<=	1.0000e-07	PASS
energy_vs_independent_double	3.0799e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	1.6697e-16	<=	1.0000e-12	PASS
tangent_vs_central_difference	8.2762e-11	<=	1.0000e-06	PASS

Gate	Observed	Cmp	Limit	Disposition
tangent_symmetry	4.6843e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	7.0925e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	2.0643e-10	<=	1.0000e-05	PASS
objectivity_force	1.2677e-14	<=	1.0000e-11	PASS
objectivity_tangent	7.5083e-16	<=	1.0000e-10	PASS
objectivity_energy	6.7492e-16	<=	1.0000e-11	PASS
translation_invariance	3.6729e-15	<=	1.0000e-12	PASS
x:reflection	1.9184e-15	<=	1.0000e-12	PASS
y:reflection	4.5982e-15	<=	1.0000e-12	PASS
z:reflection	3.7812e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.1524e-13	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.7990e-11	<=	1.0000e-07	PASS
energy_vs_independent_double	5.9855e-16	<=	1.0000e-10	PASS
dilatation_vs_independent	3.4694e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	2.1114e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.7115e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	3.6596e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.0178e-10	<=	1.0000e-05	PASS
objectivity_force	6.1105e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1207e-15	<=	1.0000e-10	PASS
objectivity_energy	2.3866e-16	<=	1.0000e-11	PASS
translation_invariance	2.0757e-15	<=	1.0000e-12	PASS
x:reflection	1.9048e-16	<=	1.0000e-12	PASS
y:reflection	3.0007e-16	<=	1.0000e-12	PASS
z:reflection	1.2367e-15	<=	1.0000e-12	PASS
axis_permutation	1.1527e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6347e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.5899e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.8345e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	9.3675e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	4.4464e-11	<=	1.0000e-06	PASS
tangent_symmetry	4.3771e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	8.4004e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.4377e-10	<=	1.0000e-05	PASS
objectivity_force	1.7320e-14	<=	1.0000e-11	PASS
objectivity_tangent	2.4960e-15	<=	1.0000e-10	PASS
objectivity_energy	9.3913e-16	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
translation_invariance	1.3281e-15	<=	1.0000e-12	PASS
x:reflection	5.5143e-15	<=	1.0000e-12	PASS
y:reflection	1.0191e-15	<=	1.0000e-12	PASS
z:reflection	1.1399e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6478e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.0230e-15	<=	1.0000e-07	PASS
energy_vs_independent_double	1.6479e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	6.9389e-17	<=	1.0000e-12	PASS
tangent_vs_central_difference	5.6047e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.2440e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.2460e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.6970e-10	<=	1.0000e-05	PASS
objectivity_force	6.4091e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.4775e-16	<=	1.0000e-10	PASS
objectivity_energy	2.0267e-16	<=	1.0000e-11	PASS
translation_invariance	9.7302e-15	<=	1.0000e-12	PASS
x:reflection	1.4418e-15	<=	1.0000e-12	PASS
y:reflection	3.6713e-15	<=	1.0000e-12	PASS
z:reflection	5.0168e-15	<=	1.0000e-12	PASS

l1_mixed_up_isochoric_mr_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.7183e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2569e-14	<=	1.0000e-07	PASS
energy_vs_independent_double	9.0437e-15	<=	1.0000e-10	PASS
dilatation_vs_independent	1.7694e-16	<=	1.0000e-12	PASS
tangent_vs_central_difference	3.5849e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.2941e-16	<=	1.0000e-11	PASS
force_vs_energy_gradient	6.0533e-09	<=	1.0000e-06	PASS
tangent_vs_independent_schur_complement	1.2808e-10	<=	1.0000e-05	PASS
objectivity_force	9.3446e-16	<=	1.0000e-11	PASS
objectivity_tangent	7.3696e-16	<=	1.0000e-10	PASS
objectivity_energy	2.0875e-16	<=	1.0000e-11	PASS
translation_invariance	1.4276e-15	<=	1.0000e-12	PASS
x:reflection	3.2514e-15	<=	1.0000e-12	PASS
y:reflection	1.2799e-15	<=	1.0000e-12	PASS
z:reflection	2.1951e-15	<=	1.0000e-12	PASS
axis_permutation	3.1281e-15	<=	1.0000e-12	PASS

l1_j2_linear_6_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.2522e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.6399e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.6284e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5708e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.5286e-10	<=	1.0000e-05	PASS
objectivity_force	6.6350e-16	<=	1.0000e-11	PASS
objectivity_tangent	7.6379e-16	<=	1.0000e-10	PASS
translation_invariance	3.6490e-16	<=	1.0000e-12	PASS
x:reflection	5.0161e-16	<=	1.0000e-12	PASS
y:reflection	3.0469e-16	<=	1.0000e-12	PASS
z:reflection	3.9591e-16	<=	1.0000e-12	PASS
axis_permutation	3.8425e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.9485e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.1232e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.6188e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.8343e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	9.5791e-11	<=	1.0000e-05	PASS
objectivity_force	4.2935e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.7957e-15	<=	1.0000e-10	PASS
translation_invariance	6.8925e-16	<=	1.0000e-12	PASS
x:reflection	1.2121e-16	<=	1.0000e-12	PASS
y:reflection	1.2904e-16	<=	1.0000e-12	PASS
z:reflection	3.0585e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2623e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.5565e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.3677e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.9313e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.1322e-10	<=	1.0000e-05	PASS
objectivity_force	5.4037e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.7681e-16	<=	1.0000e-10	PASS
translation_invariance	1.7675e-15	<=	1.0000e-12	PASS
x:reflection	1.1604e-15	<=	1.0000e-12	PASS
y:reflection	2.7181e-15	<=	1.0000e-12	PASS
z:reflection	6.2471e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.4141e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.7645e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.7505e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.6932e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.1791e-10	<=	1.0000e-05	PASS
objectivity_force	1.5453e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.5233e-16	<=	1.0000e-10	PASS
translation_invariance	1.2180e-15	<=	1.0000e-12	PASS
x:reflection	9.6272e-16	<=	1.0000e-12	PASS
y:reflection	1.4538e-15	<=	1.0000e-12	PASS
z:reflection	1.1666e-15	<=	1.0000e-12	PASS
axis_permutation	1.1407e-15	<=	1.0000e-12	PASS

l1_j2_linear_6_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.5609e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.5726e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.4766e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4693e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.2796e-10	<=	1.0000e-05	PASS
objectivity_force	1.2329e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.7484e-15	<=	1.0000e-10	PASS
translation_invariance	4.0155e-16	<=	1.0000e-12	PASS
x:reflection	4.0829e-16	<=	1.0000e-12	PASS
y:reflection	2.5441e-16	<=	1.0000e-12	PASS
z:reflection	3.7227e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.4646e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.4271e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	8.5202e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0653e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.0832e-10	<=	1.0000e-05	PASS
objectivity_force	1.4340e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.5256e-15	<=	1.0000e-10	PASS
translation_invariance	4.8367e-16	<=	1.0000e-12	PASS
x:reflection	6.2634e-16	<=	1.0000e-12	PASS
y:reflection	3.7258e-16	<=	1.0000e-12	PASS
z:reflection	2.8947e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.0348e-14	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.2394e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.8790e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9079e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	6.7985e-11	<=	1.0000e-05	PASS
objectivity_force	8.6117e-14	<=	1.0000e-11	PASS
objectivity_tangent	2.7921e-15	<=	1.0000e-10	PASS
translation_invariance	8.1474e-15	<=	1.0000e-12	PASS
x:reflection	4.6465e-15	<=	1.0000e-12	PASS
y:reflection	1.3839e-14	<=	1.0000e-12	PASS
z:reflection	1.1543e-14	<=	1.0000e-12	PASS
axis_permutation	8.1666e-15	<=	1.0000e-12	PASS

l1_j2_linear_6_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.9279e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.2441e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.6478e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4683e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.4564e-10	<=	1.0000e-05	PASS
objectivity_force	3.0693e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1828e-15	<=	1.0000e-10	PASS
translation_invariance	3.6432e-16	<=	1.0000e-12	PASS
x:reflection	5.8970e-16	<=	1.0000e-12	PASS
y:reflection	4.1782e-16	<=	1.0000e-12	PASS
z:reflection	3.4750e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.5669e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.4524e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.6730e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0782e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.8470e-10	<=	1.0000e-05	PASS
objectivity_force	2.6945e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.2797e-16	<=	1.0000e-10	PASS
translation_invariance	3.2004e-16	<=	1.0000e-12	PASS
x:reflection	4.6858e-16	<=	1.0000e-12	PASS
y:reflection	3.9947e-16	<=	1.0000e-12	PASS
z:reflection	3.5552e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6751e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6163e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	1.2127e-10	<=	1.0000e-06	PASS
tangent_symmetry	4.3648e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	4.4943e-11	<=	1.0000e-05	PASS
objectivity_force	1.6239e-15	<=	1.0000e-11	PASS
objectivity_tangent	5.2000e-16	<=	1.0000e-10	PASS
translation_invariance	1.2121e-15	<=	1.0000e-12	PASS
x:reflection	1.5448e-15	<=	1.0000e-12	PASS
y:reflection	1.8088e-15	<=	1.0000e-12	PASS
z:reflection	2.1773e-15	<=	1.0000e-12	PASS
axis_permutation	8.2443e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.5501e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.7541e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.7329e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6153e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.7610e-10	<=	1.0000e-05	PASS
objectivity_force	3.0978e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.4255e-16	<=	1.0000e-10	PASS
translation_invariance	3.1961e-16	<=	1.0000e-12	PASS
x:reflection	1.2272e-15	<=	1.0000e-12	PASS
y:reflection	1.7253e-15	<=	1.0000e-12	PASS
z:reflection	6.4668e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.1741e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.1934e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.4963e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.0910e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.5961e-10	<=	1.0000e-05	PASS
objectivity_force	1.1509e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.6188e-16	<=	1.0000e-10	PASS
translation_invariance	3.9406e-16	<=	1.0000e-12	PASS
x:reflection	4.3292e-16	<=	1.0000e-12	PASS
y:reflection	2.7569e-16	<=	1.0000e-12	PASS
z:reflection	4.6701e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.0121e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.7169e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.4494e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4496e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9420e-10	<=	1.0000e-05	PASS
objectivity_force	3.9626e-14	<=	1.0000e-11	PASS
objectivity_tangent	2.1571e-15	<=	1.0000e-10	PASS
translation_invariance	6.6940e-15	<=	1.0000e-12	PASS
x:reflection	3.6454e-15	<=	1.0000e-12	PASS
y:reflection	3.4053e-15	<=	1.0000e-12	PASS
z:reflection	4.1194e-15	<=	1.0000e-12	PASS
axis_permutation	2.7761e-15	<=	1.0000e-12	PASS

l1_j2_linear_6_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.6207e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.2302e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	7.9208e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.4099e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.6255e-10	<=	1.0000e-05	PASS
objectivity_force	1.2533e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.6347e-16	<=	1.0000e-10	PASS
translation_invariance	2.7485e-16	<=	1.0000e-12	PASS
x:reflection	3.2871e-16	<=	1.0000e-12	PASS
y:reflection	3.9525e-16	<=	1.0000e-12	PASS
z:reflection	5.2544e-16	<=	1.0000e-12	PASS

l1_j2_linear_6_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3144e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.1756e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.1598e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0438e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.5182e-10	<=	1.0000e-05	PASS
objectivity_force	2.8181e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1348e-15	<=	1.0000e-10	PASS
translation_invariance	2.2275e-15	<=	1.0000e-12	PASS
x:reflection	2.7261e-15	<=	1.0000e-12	PASS
y:reflection	2.8126e-15	<=	1.0000e-12	PASS
z:reflection	2.6082e-15	<=	1.0000e-12	PASS

l1_j2_linear_6_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.1720e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.3059e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.9513e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7219e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.8483e-10	<=	1.0000e-05	PASS
objectivity_force	6.2196e-16	<=	1.0000e-11	PASS
objectivity_tangent	5.1286e-16	<=	1.0000e-10	PASS
translation_invariance	1.5673e-15	<=	1.0000e-12	PASS
x:reflection	6.7786e-16	<=	1.0000e-12	PASS
y:reflection	7.5426e-16	<=	1.0000e-12	PASS
z:reflection	5.3573e-16	<=	1.0000e-12	PASS
axis_permutation	4.6082e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.6204e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.2856e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.8464e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3899e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	8.1363e-11	<=	1.0000e-05	PASS
objectivity_force	2.2957e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.2842e-15	<=	1.0000e-10	PASS
translation_invariance	2.1899e-15	<=	1.0000e-12	PASS
x:reflection	3.5391e-15	<=	1.0000e-12	PASS
y:reflection	2.8126e-15	<=	1.0000e-12	PASS
z:reflection	2.1848e-15	<=	1.0000e-12	PASS
axis_permutation	2.1604e-15	<=	1.0000e-12	PASS

l1_j2_linear_9_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.7439e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.3023e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.9607e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4368e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	4.6191e-10	<=	1.0000e-05	PASS
objectivity_force	7.8240e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.1396e-15	<=	1.0000e-10	PASS
translation_invariance	2.6419e-16	<=	1.0000e-12	PASS
x:reflection	1.9542e-16	<=	1.0000e-12	PASS
y:reflection	2.0308e-16	<=	1.0000e-12	PASS
z:reflection	2.3996e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.9639e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.5164e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.1561e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.9694e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.4265e-10	<=	1.0000e-05	PASS
objectivity_force	9.1921e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.1528e-16	<=	1.0000e-10	PASS
translation_invariance	1.6390e-15	<=	1.0000e-12	PASS
x:reflection	5.2555e-16	<=	1.0000e-12	PASS
y:reflection	8.2435e-16	<=	1.0000e-12	PASS
z:reflection	4.6476e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.4427e-12	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.8894e-09	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.5160e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9324e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9759e-10	<=	1.0000e-05	PASS
objectivity_force	1.8495e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0153e-15	<=	1.0000e-10	PASS
translation_invariance	3.2530e-16	<=	1.0000e-12	PASS
x:reflection	3.4037e-16	<=	1.0000e-12	PASS
y:reflection	3.7016e-16	<=	1.0000e-12	PASS
z:reflection	7.8211e-16	<=	1.0000e-12	PASS
axis_permutation	3.3967e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.7396e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.4996e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	1.9121e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3461e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5823e-10	<=	1.0000e-05	PASS
objectivity_force	9.4502e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.1328e-15	<=	1.0000e-10	PASS
translation_invariance	2.6888e-16	<=	1.0000e-12	PASS
x:reflection	2.6428e-16	<=	1.0000e-12	PASS
y:reflection	3.6809e-16	<=	1.0000e-12	PASS
z:reflection	7.4359e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.4642e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.0627e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.1649e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6333e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.8228e-10	<=	1.0000e-05	PASS
objectivity_force	3.7565e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0817e-15	<=	1.0000e-10	PASS
translation_invariance	1.3932e-15	<=	1.0000e-12	PASS
x:reflection	9.8853e-16	<=	1.0000e-12	PASS
y:reflection	1.6531e-15	<=	1.0000e-12	PASS
z:reflection	4.7234e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.8789e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.2474e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.9275e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2607e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5587e-10	<=	1.0000e-05	PASS
objectivity_force	1.2612e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.4581e-15	<=	1.0000e-10	PASS
translation_invariance	8.6569e-16	<=	1.0000e-12	PASS
x:reflection	2.9308e-16	<=	1.0000e-12	PASS
y:reflection	4.4282e-16	<=	1.0000e-12	PASS
z:reflection	3.5412e-16	<=	1.0000e-12	PASS
axis_permutation	3.7549e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.4402e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.7098e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.5644e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0495e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9797e-10	<=	1.0000e-05	PASS
objectivity_force	7.4100e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.4362e-16	<=	1.0000e-10	PASS
translation_invariance	3.7700e-16	<=	1.0000e-12	PASS
x:reflection	2.4006e-16	<=	1.0000e-12	PASS
y:reflection	7.9989e-16	<=	1.0000e-12	PASS
z:reflection	6.1545e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.7007e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.6337e-12	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.6710e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.2853e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.2666e-10	<=	1.0000e-05	PASS
objectivity_force	5.5972e-15	<=	1.0000e-11	PASS
objectivity_tangent	3.1385e-15	<=	1.0000e-10	PASS
translation_invariance	5.4303e-16	<=	1.0000e-12	PASS
x:reflection	6.1642e-16	<=	1.0000e-12	PASS
y:reflection	5.7761e-16	<=	1.0000e-12	PASS
z:reflection	3.2235e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.3712e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.8963e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	1.3260e-10	<=	1.0000e-06	PASS
tangent_symmetry	4.2882e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.2280e-10	<=	1.0000e-05	PASS
objectivity_force	7.5461e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0190e-15	<=	1.0000e-10	PASS
translation_invariance	9.5676e-16	<=	1.0000e-12	PASS
x:reflection	4.4530e-16	<=	1.0000e-12	PASS
y:reflection	2.3283e-16	<=	1.0000e-12	PASS
z:reflection	7.4590e-16	<=	1.0000e-12	PASS
axis_permutation	9.1431e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.3812e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.8838e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.2413e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.9405e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.0431e-10	<=	1.0000e-05	PASS
objectivity_force	2.7376e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1695e-15	<=	1.0000e-10	PASS
translation_invariance	1.1657e-15	<=	1.0000e-12	PASS
x:reflection	1.3320e-15	<=	1.0000e-12	PASS
y:reflection	1.4888e-15	<=	1.0000e-12	PASS
z:reflection	3.3609e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.3667e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6951e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.8896e-11	<=	1.0000e-06	PASS
tangent_symmetry	4.4331e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.5292e-10	<=	1.0000e-05	PASS
objectivity_force	9.4792e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.8423e-15	<=	1.0000e-10	PASS
translation_invariance	1.0375e-15	<=	1.0000e-12	PASS
x:reflection	2.1917e-15	<=	1.0000e-12	PASS
y:reflection	1.1255e-15	<=	1.0000e-12	PASS
z:reflection	2.2042e-15	<=	1.0000e-12	PASS

l1_j2_linear_9_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.7590e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.1689e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.4637e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6946e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.4699e-10	<=	1.0000e-05	PASS
objectivity_force	5.8799e-15	<=	1.0000e-11	PASS
objectivity_tangent	2.0478e-15	<=	1.0000e-10	PASS
translation_invariance	1.4289e-15	<=	1.0000e-12	PASS
x:reflection	1.7530e-15	<=	1.0000e-12	PASS
y:reflection	2.3730e-15	<=	1.0000e-12	PASS
z:reflection	1.7870e-15	<=	1.0000e-12	PASS
axis_permutation	1.4357e-15	<=	1.0000e-12	PASS

l1_j2_linear_9_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.2920e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.4360e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.8595e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.5861e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.2126e-10	<=	1.0000e-05	PASS
objectivity_force	3.1117e-16	<=	1.0000e-11	PASS
objectivity_tangent	7.9256e-16	<=	1.0000e-10	PASS
translation_invariance	5.3998e-16	<=	1.0000e-12	PASS
x:reflection	2.6785e-16	<=	1.0000e-12	PASS
y:reflection	4.2085e-16	<=	1.0000e-12	PASS
z:reflection	4.4604e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.3568e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.4204e-12	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.7122e-10	<=	1.0000e-06	PASS
tangent_symmetry	2.5359e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	5.2470e-10	<=	1.0000e-05	PASS
objectivity_force	3.3738e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0114e-15	<=	1.0000e-10	PASS
translation_invariance	3.0855e-16	<=	1.0000e-12	PASS
x:reflection	1.9054e-16	<=	1.0000e-12	PASS
y:reflection	2.5375e-16	<=	1.0000e-12	PASS
z:reflection	2.3455e-16	<=	1.0000e-12	PASS

l1_j2_linear_9_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.2552e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.7042e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.8872e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0444e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	7.0745e-11	<=	1.0000e-05	PASS
objectivity_force	2.7231e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3575e-15	<=	1.0000e-10	PASS
translation_invariance	4.2859e-16	<=	1.0000e-12	PASS
x:reflection	2.5306e-16	<=	1.0000e-12	PASS
y:reflection	3.6022e-16	<=	1.0000e-12	PASS
z:reflection	1.1365e-15	<=	1.0000e-12	PASS
axis_permutation	5.1926e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.3566e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.8155e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.9091e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3522e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.6378e-11	<=	1.0000e-05	PASS
objectivity_force	1.1535e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.2765e-15	<=	1.0000e-10	PASS
translation_invariance	4.6163e-15	<=	1.0000e-12	PASS
x:reflection	2.0179e-15	<=	1.0000e-12	PASS
y:reflection	8.6376e-15	<=	1.0000e-12	PASS
z:reflection	4.4713e-15	<=	1.0000e-12	PASS
axis_permutation	3.9361e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.4289e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	7.7568e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.2103e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6231e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9401e-10	<=	1.0000e-05	PASS
objectivity_force	2.1059e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.2810e-15	<=	1.0000e-10	PASS
translation_invariance	4.3483e-16	<=	1.0000e-12	PASS
x:reflection	3.8704e-16	<=	1.0000e-12	PASS
y:reflection	5.8535e-16	<=	1.0000e-12	PASS
z:reflection	2.4687e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.4372e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.9667e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.5143e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.3249e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5747e-10	<=	1.0000e-05	PASS
objectivity_force	2.8664e-15	<=	1.0000e-11	PASS
objectivity_tangent	3.6605e-16	<=	1.0000e-10	PASS
translation_invariance	8.2990e-15	<=	1.0000e-12	PASS
x:reflection	3.7350e-15	<=	1.0000e-12	PASS
y:reflection	1.4962e-15	<=	1.0000e-12	PASS
z:reflection	4.2958e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.2141e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.3640e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.1216e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7351e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.0065e-10	<=	1.0000e-05	PASS
objectivity_force	1.5268e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.4101e-16	<=	1.0000e-10	PASS
translation_invariance	5.0797e-16	<=	1.0000e-12	PASS
x:reflection	3.9251e-16	<=	1.0000e-12	PASS
y:reflection	4.3488e-16	<=	1.0000e-12	PASS
z:reflection	3.6443e-16	<=	1.0000e-12	PASS
axis_permutation	3.4170e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.1944e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.1087e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.4144e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.2883e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	4.1975e-10	<=	1.0000e-05	PASS
objectivity_force	6.5853e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.7385e-16	<=	1.0000e-10	PASS
translation_invariance	1.1015e-15	<=	1.0000e-12	PASS
x:reflection	3.0095e-16	<=	1.0000e-12	PASS
y:reflection	6.6112e-16	<=	1.0000e-12	PASS
z:reflection	3.6495e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.7261e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.1318e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.6276e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.1004e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	9.4529e-11	<=	1.0000e-05	PASS
objectivity_force	1.3187e-15	<=	1.0000e-11	PASS
objectivity_tangent	4.0723e-16	<=	1.0000e-10	PASS
translation_invariance	1.1875e-15	<=	1.0000e-12	PASS
x:reflection	5.2300e-16	<=	1.0000e-12	PASS
y:reflection	9.8135e-16	<=	1.0000e-12	PASS
z:reflection	1.9470e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	4.4437e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2616e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.1970e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5287e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.8160e-11	<=	1.0000e-05	PASS
objectivity_force	6.8991e-14	<=	1.0000e-11	PASS
objectivity_tangent	2.4499e-15	<=	1.0000e-10	PASS
translation_invariance	1.6767e-14	<=	1.0000e-12	PASS
x:reflection	3.3202e-15	<=	1.0000e-12	PASS
y:reflection	4.7788e-15	<=	1.0000e-12	PASS
z:reflection	2.8101e-15	<=	1.0000e-12	PASS
axis_permutation	1.1891e-14	<=	1.0000e-12	PASS

l1_j2_voce_6_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.3248e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.4590e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.2363e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1653e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9815e-10	<=	1.0000e-05	PASS
objectivity_force	5.2265e-16	<=	1.0000e-11	PASS
objectivity_tangent	4.2425e-16	<=	1.0000e-10	PASS
translation_invariance	8.7305e-16	<=	1.0000e-12	PASS
x:reflection	3.6274e-16	<=	1.0000e-12	PASS
y:reflection	2.5823e-16	<=	1.0000e-12	PASS
z:reflection	3.1589e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.4398e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.7097e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.2030e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9867e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	8.2219e-11	<=	1.0000e-05	PASS
objectivity_force	9.2588e-16	<=	1.0000e-11	PASS
objectivity_tangent	7.1386e-16	<=	1.0000e-10	PASS
translation_invariance	2.9164e-16	<=	1.0000e-12	PASS
x:reflection	2.8329e-16	<=	1.0000e-12	PASS
y:reflection	2.8626e-16	<=	1.0000e-12	PASS
z:reflection	2.5622e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.1934e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2321e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.4414e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4141e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	5.4397e-11	<=	1.0000e-05	PASS
objectivity_force	6.5142e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.4496e-16	<=	1.0000e-10	PASS
translation_invariance	3.8988e-15	<=	1.0000e-12	PASS
x:reflection	8.0526e-15	<=	1.0000e-12	PASS
y:reflection	7.0607e-15	<=	1.0000e-12	PASS
z:reflection	4.3177e-15	<=	1.0000e-12	PASS
axis_permutation	4.7327e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.4875e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	6.4200e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.9722e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.9253e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9068e-10	<=	1.0000e-05	PASS
objectivity_force	4.9892e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.3916e-15	<=	1.0000e-10	PASS
translation_invariance	1.4883e-14	<=	1.0000e-12	PASS
x:reflection	3.8164e-15	<=	1.0000e-12	PASS
y:reflection	4.0544e-15	<=	1.0000e-12	PASS
z:reflection	1.0320e-14	<=	1.0000e-12	PASS

l1_j2_voce_6_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.9059e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.8070e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.5090e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8007e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.1841e-10	<=	1.0000e-05	PASS
objectivity_force	6.4650e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.6887e-15	<=	1.0000e-10	PASS
translation_invariance	8.2450e-16	<=	1.0000e-12	PASS
x:reflection	7.4696e-16	<=	1.0000e-12	PASS
y:reflection	1.2704e-15	<=	1.0000e-12	PASS
z:reflection	1.1002e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.4852e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.1605e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	9.4764e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5538e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5659e-10	<=	1.0000e-05	PASS
objectivity_force	1.7721e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.2149e-15	<=	1.0000e-10	PASS
translation_invariance	2.8973e-16	<=	1.0000e-12	PASS
x:reflection	6.6883e-16	<=	1.0000e-12	PASS
y:reflection	5.1900e-16	<=	1.0000e-12	PASS
z:reflection	4.2863e-16	<=	1.0000e-12	PASS
axis_permutation	3.8551e-16	<=	1.0000e-12	PASS

l1_j2_voce_6_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.9194e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.5507e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.5077e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.5819e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.3727e-11	<=	1.0000e-05	PASS
objectivity_force	3.3018e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.5303e-15	<=	1.0000e-10	PASS
translation_invariance	6.4886e-15	<=	1.0000e-12	PASS
x:reflection	8.5654e-15	<=	1.0000e-12	PASS
y:reflection	8.8652e-15	<=	1.0000e-12	PASS
z:reflection	1.8247e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.0052e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.5612e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.9374e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.9570e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.0151e-10	<=	1.0000e-05	PASS
objectivity_force	2.0704e-15	<=	1.0000e-11	PASS
objectivity_tangent	5.6761e-16	<=	1.0000e-10	PASS
translation_invariance	1.5846e-15	<=	1.0000e-12	PASS
x:reflection	1.9511e-15	<=	1.0000e-12	PASS
y:reflection	1.6679e-15	<=	1.0000e-12	PASS
z:reflection	1.8983e-15	<=	1.0000e-12	PASS

l1_j2_voce_6_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.0535e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.4664e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	1.0402e-10	<=	1.0000e-06	PASS
tangent_symmetry	4.1981e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.5510e-10	<=	1.0000e-05	PASS
objectivity_force	5.8196e-16	<=	1.0000e-11	PASS
objectivity_tangent	8.5805e-16	<=	1.0000e-10	PASS
translation_invariance	5.1194e-16	<=	1.0000e-12	PASS
x:reflection	8.2286e-16	<=	1.0000e-12	PASS
y:reflection	4.2255e-16	<=	1.0000e-12	PASS
z:reflection	4.7292e-16	<=	1.0000e-12	PASS
axis_permutation	5.5880e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2920e-12	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.9938e-09	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.1198e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.4974e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.5484e-10	<=	1.0000e-05	PASS
objectivity_force	9.5483e-15	<=	1.0000e-11	PASS
objectivity_tangent	3.5630e-15	<=	1.0000e-10	PASS
translation_invariance	3.4559e-15	<=	1.0000e-12	PASS
x:reflection	3.2404e-15	<=	1.0000e-12	PASS
y:reflection	5.7383e-15	<=	1.0000e-12	PASS
z:reflection	6.5166e-15	<=	1.0000e-12	PASS
axis_permutation	5.7116e-15	<=	1.0000e-12	PASS

l1_j2_voce_9_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.8047e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.9448e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.1765e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.1785e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5325e-10	<=	1.0000e-05	PASS
objectivity_force	4.6873e-16	<=	1.0000e-11	PASS
objectivity_tangent	4.6186e-16	<=	1.0000e-10	PASS
translation_invariance	2.8308e-16	<=	1.0000e-12	PASS
x:reflection	2.4619e-16	<=	1.0000e-12	PASS
y:reflection	4.4978e-16	<=	1.0000e-12	PASS
z:reflection	2.2824e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.9137e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.0611e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	7.0009e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4513e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.0243e-10	<=	1.0000e-05	PASS
objectivity_force	3.0663e-16	<=	1.0000e-11	PASS
objectivity_tangent	6.5426e-16	<=	1.0000e-10	PASS
translation_invariance	9.6939e-16	<=	1.0000e-12	PASS
x:reflection	4.3127e-16	<=	1.0000e-12	PASS
y:reflection	6.9425e-16	<=	1.0000e-12	PASS
z:reflection	4.3246e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2149e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.3291e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.6139e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.7407e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9716e-10	<=	1.0000e-05	PASS
objectivity_force	2.4615e-16	<=	1.0000e-11	PASS
objectivity_tangent	4.9864e-16	<=	1.0000e-10	PASS
translation_invariance	2.6672e-16	<=	1.0000e-12	PASS
x:reflection	4.3223e-16	<=	1.0000e-12	PASS
y:reflection	4.8973e-16	<=	1.0000e-12	PASS
z:reflection	2.2406e-16	<=	1.0000e-12	PASS
axis_permutation	2.7627e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.3962e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6956e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.1971e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4142e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.3783e-10	<=	1.0000e-05	PASS
objectivity_force	1.1274e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1951e-15	<=	1.0000e-10	PASS
translation_invariance	2.4039e-16	<=	1.0000e-12	PASS
x:reflection	1.7433e-16	<=	1.0000e-12	PASS
y:reflection	3.6767e-16	<=	1.0000e-12	PASS
z:reflection	3.6430e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.0270e-13	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.4322e-09	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.3252e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5424e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.6553e-10	<=	1.0000e-05	PASS
objectivity_force	9.6867e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.4328e-15	<=	1.0000e-10	PASS
translation_invariance	4.3021e-16	<=	1.0000e-12	PASS
x:reflection	2.7429e-16	<=	1.0000e-12	PASS
y:reflection	3.9386e-16	<=	1.0000e-12	PASS
z:reflection	3.4594e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.8949e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0681e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	1.3287e-10	<=	1.0000e-06	PASS
tangent_symmetry	1.4068e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.6934e-10	<=	1.0000e-05	PASS
objectivity_force	3.5016e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0828e-15	<=	1.0000e-10	PASS
translation_invariance	3.5488e-16	<=	1.0000e-12	PASS
x:reflection	1.9338e-16	<=	1.0000e-12	PASS
y:reflection	2.0489e-16	<=	1.0000e-12	PASS
z:reflection	3.6011e-16	<=	1.0000e-12	PASS
axis_permutation	2.3522e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.5640e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.2015e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.5809e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.9361e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5069e-10	<=	1.0000e-05	PASS
objectivity_force	1.2888e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.1090e-15	<=	1.0000e-10	PASS
translation_invariance	2.4549e-16	<=	1.0000e-12	PASS
x:reflection	2.3751e-16	<=	1.0000e-12	PASS
y:reflection	6.8502e-16	<=	1.0000e-12	PASS
z:reflection	2.1553e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	7.6638e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.0520e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.6245e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.6408e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5787e-10	<=	1.0000e-05	PASS
objectivity_force	1.0827e-14	<=	1.0000e-11	PASS
objectivity_tangent	1.2476e-15	<=	1.0000e-10	PASS
translation_invariance	6.1001e-16	<=	1.0000e-12	PASS
x:reflection	2.6281e-15	<=	1.0000e-12	PASS
y:reflection	1.5340e-15	<=	1.0000e-12	PASS
z:reflection	1.2494e-15	<=	1.0000e-12	PASS

l1_j2_voce_9_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2418e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.5285e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.8661e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3428e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.1597e-10	<=	1.0000e-05	PASS
objectivity_force	2.8553e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3875e-15	<=	1.0000e-10	PASS
translation_invariance	9.1305e-16	<=	1.0000e-12	PASS
x:reflection	3.4491e-16	<=	1.0000e-12	PASS
y:reflection	1.8901e-16	<=	1.0000e-12	PASS
z:reflection	6.9552e-16	<=	1.0000e-12	PASS
axis_permutation	3.0880e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.6718e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0094e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.4581e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0899e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.8447e-10	<=	1.0000e-05	PASS
objectivity_force	1.6412e-15	<=	1.0000e-11	PASS
objectivity_tangent	9.2692e-16	<=	1.0000e-10	PASS
translation_invariance	8.5003e-16	<=	1.0000e-12	PASS
x:reflection	1.8291e-16	<=	1.0000e-12	PASS
y:reflection	7.5255e-16	<=	1.0000e-12	PASS
z:reflection	5.1257e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.6492e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.1866e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.1496e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.7137e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	8.2199e-11	<=	1.0000e-05	PASS
objectivity_force	1.1572e-14	<=	1.0000e-11	PASS
objectivity_tangent	6.1707e-15	<=	1.0000e-10	PASS
translation_invariance	1.8316e-15	<=	1.0000e-12	PASS
x:reflection	1.0411e-15	<=	1.0000e-12	PASS
y:reflection	1.3024e-15	<=	1.0000e-12	PASS
z:reflection	5.4915e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.1806e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.7344e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.9376e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.2049e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.9270e-10	<=	1.0000e-05	PASS
objectivity_force	3.9410e-16	<=	1.0000e-11	PASS
objectivity_tangent	8.2947e-16	<=	1.0000e-10	PASS
translation_invariance	7.8472e-16	<=	1.0000e-12	PASS
x:reflection	1.0213e-15	<=	1.0000e-12	PASS
y:reflection	1.0250e-15	<=	1.0000e-12	PASS
z:reflection	3.5440e-16	<=	1.0000e-12	PASS
axis_permutation	3.1767e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.9422e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.9976e-13	<=	1.0000e-07	PASS
tangent_vs_central_difference	5.6527e-11	<=	1.0000e-06	PASS
tangent_symmetry	4.8486e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.7750e-10	<=	1.0000e-05	PASS
objectivity_force	6.8393e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0968e-15	<=	1.0000e-10	PASS
translation_invariance	2.6444e-16	<=	1.0000e-12	PASS
x:reflection	3.0478e-16	<=	1.0000e-12	PASS
y:reflection	2.1881e-16	<=	1.0000e-12	PASS
z:reflection	8.3394e-16	<=	1.0000e-12	PASS

l1_j2_voce_9_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.0084e-13	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0166e-09	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.1495e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.5744e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.5787e-10	<=	1.0000e-05	PASS
objectivity_force	3.4677e-16	<=	1.0000e-11	PASS
objectivity_tangent	3.7148e-15	<=	1.0000e-10	PASS
translation_invariance	5.8572e-16	<=	1.0000e-12	PASS
x:reflection	1.0485e-15	<=	1.0000e-12	PASS
y:reflection	7.1304e-16	<=	1.0000e-12	PASS
z:reflection	1.6112e-15	<=	1.0000e-12	PASS

l1_j2_voce_9_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	6.2705e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0950e-12	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.7537e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3730e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.4165e-10	<=	1.0000e-05	PASS
objectivity_force	1.1627e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.5350e-16	<=	1.0000e-10	PASS
translation_invariance	4.4233e-16	<=	1.0000e-12	PASS
x:reflection	3.8685e-16	<=	1.0000e-12	PASS
y:reflection	3.2510e-16	<=	1.0000e-12	PASS
z:reflection	4.7821e-16	<=	1.0000e-12	PASS
axis_permutation	6.7892e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s00 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.1667e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.9644e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	8.4440e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0469e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.3938e-10	<=	1.0000e-05	PASS
objectivity_force	8.4577e-16	<=	1.0000e-11	PASS
objectivity_tangent	5.3691e-16	<=	1.0000e-10	PASS
translation_invariance	1.2632e-15	<=	1.0000e-12	PASS
x:reflection	4.2126e-16	<=	1.0000e-12	PASS
y:reflection	5.6745e-16	<=	1.0000e-12	PASS
z:reflection	7.3521e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s01 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.7250e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.4328e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.3774e-11	<=	1.0000e-06	PASS
tangent_symmetry	9.7049e-17	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.6025e-10	<=	1.0000e-05	PASS
objectivity_force	2.6951e-16	<=	1.0000e-11	PASS
objectivity_tangent	9.0209e-16	<=	1.0000e-10	PASS
translation_invariance	4.5606e-16	<=	1.0000e-12	PASS
x:reflection	2.0442e-16	<=	1.0000e-12	PASS
y:reflection	2.6212e-16	<=	1.0000e-12	PASS
z:reflection	6.2205e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s02 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.4891e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	8.4127e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	9.2750e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.6826e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.2213e-10	<=	1.0000e-05	PASS
objectivity_force	5.5673e-16	<=	1.0000e-11	PASS
objectivity_tangent	1.0291e-15	<=	1.0000e-10	PASS
translation_invariance	8.0450e-16	<=	1.0000e-12	PASS
x:reflection	3.9939e-16	<=	1.0000e-12	PASS
y:reflection	6.8225e-16	<=	1.0000e-12	PASS
z:reflection	2.2101e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s03 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.2457e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6565e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	1.1862e-10	<=	1.0000e-06	PASS
tangent_symmetry	4.4887e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.6286e-10	<=	1.0000e-05	PASS
objectivity_force	4.2623e-16	<=	1.0000e-11	PASS
objectivity_tangent	5.4123e-16	<=	1.0000e-10	PASS
translation_invariance	2.9203e-16	<=	1.0000e-12	PASS
x:reflection	5.8971e-16	<=	1.0000e-12	PASS
y:reflection	4.0885e-16	<=	1.0000e-12	PASS
z:reflection	7.1294e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s04 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.0853e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.5542e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.5265e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4865e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	4.8724e-11	<=	1.0000e-05	PASS
objectivity_force	1.9579e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.9953e-16	<=	1.0000e-10	PASS
translation_invariance	1.2197e-15	<=	1.0000e-12	PASS
x:reflection	1.1523e-15	<=	1.0000e-12	PASS
y:reflection	3.1204e-15	<=	1.0000e-12	PASS
z:reflection	3.0710e-15	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s05 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.5636e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.1145e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.2654e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.7590e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.4077e-10	<=	1.0000e-05	PASS
objectivity_force	1.5568e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.6986e-16	<=	1.0000e-10	PASS
translation_invariance	7.1811e-16	<=	1.0000e-12	PASS
x:reflection	6.0690e-16	<=	1.0000e-12	PASS
y:reflection	6.5623e-16	<=	1.0000e-12	PASS
z:reflection	2.7048e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s06 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.9870e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	5.2554e-15	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.8367e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.8078e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	7.7692e-11	<=	1.0000e-05	PASS
objectivity_force	1.4036e-15	<=	1.0000e-11	PASS
objectivity_tangent	7.6874e-16	<=	1.0000e-10	PASS
translation_invariance	7.0360e-16	<=	1.0000e-12	PASS
x:reflection	4.2378e-16	<=	1.0000e-12	PASS
y:reflection	4.8879e-16	<=	1.0000e-12	PASS
z:reflection	3.4419e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s07 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.4441e-15	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.3243e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.6818e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6300e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	2.6562e-10	<=	1.0000e-05	PASS
objectivity_force	4.1354e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.4348e-16	<=	1.0000e-10	PASS
translation_invariance	1.4945e-15	<=	1.0000e-12	PASS
x:reflection	1.7726e-15	<=	1.0000e-12	PASS
y:reflection	1.7854e-15	<=	1.0000e-12	PASS
z:reflection	1.4607e-15	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s08 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.8736e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0643e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.3971e-11	<=	1.0000e-06	PASS
tangent_symmetry	3.0088e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9165e-10	<=	1.0000e-05	PASS
objectivity_force	7.3170e-16	<=	1.0000e-11	PASS
objectivity_tangent	5.4613e-16	<=	1.0000e-10	PASS
translation_invariance	2.1694e-16	<=	1.0000e-12	PASS
x:reflection	3.3680e-16	<=	1.0000e-12	PASS
y:reflection	6.1762e-16	<=	1.0000e-12	PASS
z:reflection	2.9733e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s09 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	9.3201e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	2.5493e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.5076e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.3767e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.8113e-10	<=	1.0000e-05	PASS
objectivity_force	4.9741e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0872e-15	<=	1.0000e-10	PASS
translation_invariance	1.1684e-15	<=	1.0000e-12	PASS
x:reflection	1.2296e-15	<=	1.0000e-12	PASS
y:reflection	1.1363e-15	<=	1.0000e-12	PASS
z:reflection	1.2671e-15	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s10 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	2.2614e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0005e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	2.6197e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.5441e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	3.0502e-10	<=	1.0000e-05	PASS
objectivity_force	1.5673e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.0609e-15	<=	1.0000e-10	PASS
translation_invariance	3.4721e-16	<=	1.0000e-12	PASS
x:reflection	3.2047e-16	<=	1.0000e-12	PASS
y:reflection	3.0958e-16	<=	1.0000e-12	PASS
z:reflection	2.1724e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s11 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	9.7666e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.0483e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.7736e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.9921e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.0228e-10	<=	1.0000e-05	PASS
objectivity_force	2.6118e-15	<=	1.0000e-11	PASS
objectivity_tangent	8.6214e-16	<=	1.0000e-10	PASS
translation_invariance	9.7147e-16	<=	1.0000e-12	PASS
x:reflection	1.5497e-15	<=	1.0000e-12	PASS
y:reflection	6.9774e-16	<=	1.0000e-12	PASS
z:reflection	2.9854e-15	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s12 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.6467e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	1.6561e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.3994e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.4213e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	9.2078e-11	<=	1.0000e-05	PASS
objectivity_force	1.4918e-15	<=	1.0000e-11	PASS
objectivity_tangent	6.0064e-16	<=	1.0000e-10	PASS
translation_invariance	5.1436e-16	<=	1.0000e-12	PASS
x:reflection	8.6602e-16	<=	1.0000e-12	PASS
y:reflection	3.8940e-16	<=	1.0000e-12	PASS
z:reflection	5.7512e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s13 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	3.3299e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	3.7701e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	3.6736e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.1607e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.9003e-10	<=	1.0000e-05	PASS
objectivity_force	1.9229e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.2130e-15	<=	1.0000e-10	PASS
translation_invariance	9.1019e-16	<=	1.0000e-12	PASS
x:reflection	6.0947e-16	<=	1.0000e-12	PASS
y:reflection	7.6393e-16	<=	1.0000e-12	PASS
z:reflection	9.1019e-16	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s14 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	1.4664e-14	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	9.8328e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	4.0684e-11	<=	1.0000e-06	PASS
tangent_symmetry	2.0661e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	4.0570e-11	<=	1.0000e-05	PASS
objectivity_force	3.9851e-14	<=	1.0000e-11	PASS
objectivity_tangent	2.7322e-15	<=	1.0000e-10	PASS
translation_invariance	1.1840e-14	<=	1.0000e-12	PASS
x:reflection	2.7642e-15	<=	1.0000e-12	PASS
y:reflection	5.9182e-15	<=	1.0000e-12	PASS
z:reflection	4.5174e-15	<=	1.0000e-12	PASS

l1_j2_committed_history_6_s15 · PASS

Gate	Observed	Cmp	Limit	Disposition
force_vs_independent_double	5.8081e-16	<=	1.0000e-10	PASS
condensed_parameters_vs_independent	4.6334e-14	<=	1.0000e-07	PASS
tangent_vs_central_difference	6.3829e-11	<=	1.0000e-06	PASS
tangent_symmetry	1.6243e-16	<=	1.0000e-11	PASS
tangent_vs_independent_schur_complement	1.5712e-10	<=	1.0000e-05	PASS
objectivity_force	1.6675e-15	<=	1.0000e-11	PASS
objectivity_tangent	1.3309e-15	<=	1.0000e-10	PASS
translation_invariance	1.3866e-15	<=	1.0000e-12	PASS
x:reflection	9.6132e-16	<=	1.0000e-12	PASS
y:reflection	1.4844e-15	<=	1.0000e-12	PASS
z:reflection	1.2783e-15	<=	1.0000e-12	PASS

l1_rest_rank_svk_9 · PASS

Gate	Observed	Cmp	Limit	Disposition
rest_zero_modes	6	==	6	PASS
rest_minimum_eigenvalue_ratio	-5.2710e-17	>=	-1.0000e-12	PASS

l1_rest_rank_neo_hookean_9 · PASS

Gate	Observed	Cmp	Limit	Disposition
rest_zero_modes	6	==	6	PASS
rest_minimum_eigenvalue_ratio	-1.7887e-17	>=	-1.0000e-12	PASS

l1_rest_rank_mooney_rivlin_9 · PASS

Gate	Observed	Cmp	Limit	Disposition
rest_zero_modes	6	==	6	PASS
rest_minimum_eigenvalue_ratio	-2.8574e-17	>=	-1.0000e-12	PASS

l1_rest_rank_mixed_up_isochoric_mr · PASS

Gate	Observed	Cmp	Limit	Disposition
rest_zero_modes	6	==	6	PASS
rest_minimum_eigenvalue_ratio	-3.0111e-17	>=	-1.0000e-12	PASS

l1_rest_rank_j2_voce_9 · PASS

Gate	Observed	Cmp	Limit	Disposition
rest_zero_modes	6	==	6	PASS
rest_minimum_eigenvalue_ratio	-5.2710e-17	>=	-1.0000e-12	PASS

l2_closed_form_svk_uniaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	0	<=	1.0000e-12	PASS
closed_form_energy	1.7685e-16	<=	1.0000e-12	PASS
tangent_vs_stress_difference	2.0696e-09	<=	1.0000e-06	PASS

l2_closed_form_svk_equibiaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	0	<=	1.0000e-12	PASS
closed_form_energy	2.0184e-16	<=	1.0000e-12	PASS
tangent_vs_stress_difference	4.9671e-09	<=	1.0000e-06	PASS

l2_closed_form_svk_pure_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	0	<=	1.0000e-12	PASS
closed_form_energy	2.1141e-16	<=	1.0000e-12	PASS
tangent_vs_stress_difference	3.1044e-09	<=	1.0000e-06	PASS

l2_closed_form_svk_volumetric · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	0	<=	1.0000e-12	PASS
closed_form_energy	1.4057e-16	<=	1.0000e-12	PASS
tangent_vs_stress_difference	9.3132e-10	<=	1.0000e-06	PASS

l2_closed_form_svk_simple_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	1.0073e-14	<=	1.0000e-12	PASS
closed_form_energy	2.3548e-16	<=	1.0000e-12	PASS
tangent_vs_stress_difference	6.2088e-10	<=	1.0000e-06	PASS

l2_closed_form_neo_hookean_uniaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	1.0457e-15	<=	1.0000e-12	PASS
closed_form_energy	1.5924e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	8.5371e-10	<=	1.0000e-06	PASS

l2_closed_form_neo_hookean_equibiaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	8.4414e-16	<=	1.0000e-12	PASS
closed_form_energy	5.8061e-16	<=	1.0000e-12	PASS
tangent_vs_stress_difference	3.3760e-09	<=	1.0000e-06	PASS

l2_closed_form_neo_hookean_pure_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	2.3161e-15	<=	1.0000e-12	PASS
closed_form_energy	5.0283e-15	<=	1.0000e-12	PASS
tangent_vs_stress_difference	5.7256e-10	<=	1.0000e-06	PASS

l2_closed_form_neo_hookean_volumetric · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	4.2117e-15	<=	1.0000e-12	PASS
closed_form_energy	6.3230e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	2.1112e-09	<=	1.0000e-06	PASS

l2_closed_form_neo_hookean_simple_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	1.4487e-14	<=	1.0000e-12	PASS
closed_form_energy	2.3532e-13	<=	1.0000e-12	PASS
tangent_vs_stress_difference	5.5793e-10	<=	1.0000e-06	PASS

l2_closed_form_mooney_rivlin_uniaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	1.4653e-15	<=	1.0000e-12	PASS
closed_form_energy	2.6524e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	8.4484e-10	<=	1.0000e-06	PASS

l2_closed_form_mooney_rivlin_equibiaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	3.4982e-16	<=	1.0000e-12	PASS
closed_form_energy	2.2848e-15	<=	1.0000e-12	PASS
tangent_vs_stress_difference	1.7127e-09	<=	1.0000e-06	PASS

l2_closed_form_mooney_rivlin_pure_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	4.9630e-15	<=	1.0000e-12	PASS
closed_form_energy	4.7775e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	6.4868e-10	<=	1.0000e-06	PASS

l2_closed_form_mooney_rivlin_volumetric · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	4.4115e-15	<=	1.0000e-12	PASS
closed_form_energy	2.0797e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	1.9854e-09	<=	1.0000e-06	PASS

l2_closed_form_mooney_rivlin_simple_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	2.3283e-14	<=	1.0000e-12	PASS
closed_form_energy	4.0801e-13	<=	1.0000e-12	PASS
tangent_vs_stress_difference	5.3033e-10	<=	1.0000e-06	PASS

l2_closed_form_isochoric_mooney_rivlin_uniaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	4.5747e-15	<=	1.0000e-12	PASS
closed_form_energy	2.2783e-13	<=	1.0000e-12	PASS
tangent_vs_stress_difference	2.0235e-09	<=	1.0000e-06	PASS

l2_closed_form_isochoric_mooney_rivlin_equibiaxial · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	4.6289e-15	<=	1.0000e-12	PASS
closed_form_energy	7.6413e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	1.9698e-09	<=	1.0000e-06	PASS

l2_closed_form_isochoric_mooney_rivlin_pure_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	4.0679e-15	<=	1.0000e-12	PASS
closed_form_energy	4.7775e-14	<=	1.0000e-12	PASS
tangent_vs_stress_difference	1.1478e-09	<=	1.0000e-06	PASS

l2_closed_form_isochoric_mooney_rivlin_simple_shear · PASS

Gate	Observed	Cmp	Limit	Disposition
points_evaluated	10	>=	10	PASS
closed_form_stress	8.8786e-15	<=	1.0000e-12	PASS
closed_form_energy	5.5605e-13	<=	1.0000e-12	PASS
tangent_vs_stress_difference	1.3025e-09	<=	1.0000e-06	PASS

l2_isochoric_law_is_blind_to_dilatation · PASS

Gate	Observed	Cmp	Limit	Disposition
isochoric_dilatation_stress	3.9687e-16	<=	1.0000e-12	PASS

l2_j2_cyclic_path_linear_000 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	34	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.1017e-15	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.3397e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_001 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	42	>=	5	PASS
yield_consistency	8.3447e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS

Gate	Observed	Cmp	Limit	Disposition
dissipation_equals_stress_power	6.6259e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.4095e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.1095e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	9.8625e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_002 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	43	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.1197e-15	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.5024e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_003 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	37	>=	5	PASS
yield_consistency	9.5367e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.8227e-14	<=	1.0000e-10	PASS
plastic_incompressibility	1.3010e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	7.1340e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_004 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	50	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.8793e-14	<=	1.0000e-10	PASS
plastic_incompressibility	4.3368e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.2117e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_005 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	34	>=	5	PASS
yield_consistency	1.0729e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.0188e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.4175e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	4.7158e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_006 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	44	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.0501e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.1684e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.0966e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_007 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	43	>=	5	PASS
yield_consistency	1.1921e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	7.5516e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.1684e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.7684e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.5135e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_008 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	44	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.8712e-15	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.2803e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_009 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	31	>=	5	PASS
yield_consistency	2.3842e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.7946e-14	<=	1.0000e-10	PASS
plastic_incompressibility	4.3368e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.3842e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.7407e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_010 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.8488e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.4937e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.3641e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_011 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	45	>=	5	PASS
yield_consistency	6.4373e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.0573e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.2367e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	1.1018e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_012 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	5.5960e-15	<=	1.0000e-10	PASS
plastic_incompressibility	5.4210e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.6823e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_013 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	45	>=	5	PASS
yield_consistency	1.3113e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.8065e-15	<=	1.0000e-10	PASS
plastic_incompressibility	2.1684e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	8.0148e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	8.3447e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_014 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.9366e-14	<=	1.0000e-10	PASS
plastic_incompressibility	4.3368e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.9578e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_015 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	37	>=	5	PASS
yield_consistency	1.5497e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	6.8364e-15	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	9.7578e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.8758e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	8.3447e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_016 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	44	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.0293e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.3852e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.1959e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_017 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	35	>=	5	PASS
yield_consistency	1.2040e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.4390e-15	<=	1.0000e-10	PASS
plastic_incompressibility	6.5052e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.4130e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.1171e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_018 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	42	>=	5	PASS
yield_consistency	5.9605e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.5294e-14	<=	1.0000e-10	PASS
plastic_incompressibility	3.9031e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.4600e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_019 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	41	>=	5	PASS
yield_consistency	1.1921e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.3662e-15	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.0312e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.9305e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_020 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	38	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	6.5582e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.7684e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_021 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	43	>=	5	PASS
yield_consistency	3.5763e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.0624e-14	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.1444e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	3.1436e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_022 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	42	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.4473e-15	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	5.4210e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.3844e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_023 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	36	>=	5	PASS
yield_consistency	9.8944e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.8222e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.3010e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.4314e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	4.2652e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_024 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	42	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.6834e-14	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.9496e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_025 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	44	>=	5	PASS
yield_consistency	1.1444e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.8815e-15	<=	1.0000e-10	PASS
plastic_incompressibility	2.1684e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.1875e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	1.7363e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_026 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	49	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.5910e-14	<=	1.0000e-10	PASS
plastic_incompressibility	1.3010e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	5.0579e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_027 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	45	>=	5	PASS
yield_consistency	8.1062e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	7.3717e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.3076e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.3980e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_028 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	41	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.2616e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.1916e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_029 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	45	>=	5	PASS
yield_consistency	8.8215e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	8.4303e-15	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.2444e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.4507e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_030 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	3.1299e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.2297e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_031 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	9.4175e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.8165e-14	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.7684e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.2452e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_032 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	46	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.6606e-15	<=	1.0000e-10	PASS
plastic_incompressibility	3.0358e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.0444e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_033 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	39	>=	5	PASS
yield_consistency	3.9339e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.8222e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	8.3447e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	3.3975e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_034 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	41	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.2965e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.2620e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_035 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	37	>=	5	PASS
yield_consistency	6.6757e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.3907e-15	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.7684e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	4.0531e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_036 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	44	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	6.5099e-14	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	2.3852e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	5.6601e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_037 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	41	>=	5	PASS
yield_consistency	1.1206e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.6325e-14	<=	1.0000e-10	PASS
plastic_incompressibility	4.3368e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.5095e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.2646e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_038 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	39	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.1346e-13	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.8373e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_039 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	39	>=	5	PASS
yield_consistency	1.4305e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.3547e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.3010e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.7197e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	6.1261e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_040 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	47	>=	5	PASS
yield_consistency	5.9605e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.9215e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.1723e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_041 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	50	>=	5	PASS
yield_consistency	1.2398e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.0802e-14	<=	1.0000e-10	PASS
plastic_incompressibility	3.0358e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	5.9463e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	8.0861e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_042 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	45	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	5.0486e-15	<=	1.0000e-10	PASS
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	7.1526e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_043 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	37	>=	5	PASS
yield_consistency	9.7752e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.0336e-14	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.9545e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	6.3877e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_044 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	38	>=	5	PASS
yield_consistency	2.3842e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.8536e-13	<=	1.0000e-10	PASS
plastic_incompressibility	4.3368e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.5763e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_045 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	45	>=	5	PASS
yield_consistency	1.3113e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	8.7509e-15	<=	1.0000e-10	PASS
plastic_incompressibility	3.0358e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	5.9605e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	7.6890e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_046 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	39	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	6.2679e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.0787e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_047 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	41	>=	5	PASS
yield_consistency	1.2875e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.2138e-15	<=	1.0000e-10	PASS
plastic_incompressibility	2.6021e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	5.3205e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.7469e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_048 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	37	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.7264e-14	<=	1.0000e-10	PASS
plastic_incompressibility	4.3368e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.2348e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_049 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	38	>=	5	PASS
yield_consistency	7.3910e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.4317e-14	<=	1.0000e-10	PASS
plastic_incompressibility	1.1926e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.5501e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	8.8868e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_050 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.6230e-15	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	5.9605e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_051 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	34	>=	5	PASS
yield_consistency	7.3910e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.8018e-15	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.9209e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.2960e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_052 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	44	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	5.7475e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.3010e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.1373e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_053 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	35	>=	5	PASS
yield_consistency	1.5497e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	6.8919e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.1474e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	3.9758e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_054 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	39	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.1449e-14	<=	1.0000e-10	PASS
plastic_incompressibility	1.3010e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.7684e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_055 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	38	>=	5	PASS
yield_consistency	1.0967e-14	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	9.5284e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.1561e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.2341e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_056 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	48	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.7029e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	4.0470e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_057 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	30	>=	5	PASS
yield_consistency	7.5102e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	5.9018e-15	<=	1.0000e-10	PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_incompressibility	2.8731e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.3635e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.6213e-16	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_058 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	40	>=	5	PASS
yield_consistency	3.5763e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	7.6959e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.6263e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.5763e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_059 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	39	>=	5	PASS
yield_consistency	6.9141e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.2951e-15	<=	1.0000e-10	PASS
plastic_incompressibility	8.6736e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.3842e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.0266e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_060 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	22	>=	5	PASS
yield_consistency	1.1921e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	2.6929e-15	<=	1.0000e-10	PASS
plastic_incompressibility	6.5052e-19	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	2.6393e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_061 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	34	>=	5	PASS
yield_consistency	5.0068e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	4.6933e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.8431e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.3610e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	2.8610e-15	<=	1.0000e-09	PASS

l2_j2_cyclic_path_linear_062 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	37	>=	5	PASS
yield_consistency	4.7684e-16	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	6.5395e-15	<=	1.0000e-10	PASS
plastic_incompressibility	1.7347e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	3.0317e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	0	<=	1.0000e-09	PASS

l2_j2_cyclic_path_voce_063 · PASS

Gate	Observed	Cmp	Limit	Disposition
path_completed	1	==	1	PASS
yielding_steps	38	>=	5	PASS
yield_consistency	9.0599e-15	<=	1.0000e-10	PASS
dissipation_nonnegative	0	>=	0	PASS
dissipation_equals_stress_power	1.3217e-14	<=	1.0000e-10	PASS
plastic_incompressibility	2.1684e-18	<=	1.0000e-15	PASS
equivalent_plastic_strain_monotone	0	<=	0	PASS
returned_state_elastic_law	7.8688e-16	<=	1.0000e-12	PASS
j2_vs_independent_integrator	5.8711e-15	<=	1.0000e-09	PASS

l2_checkpoint_json_round_trip_and_restart_identity · PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_gauss_points	28	>=	8	PASS
checkpoint_history_matches_published_plastic_elements	0	==	0	PASS
checkpoint_round_trip_equal	1	==	1	PASS
checkpoint_reencoding_bitwise	1	==	1	PASS
restart_from_decoded_bitwise	1	==	1	PASS

l2_cyclic_dissipation_through_restarts · PASS

Gate	Observed	Cmp	Limit	Disposition
cycle_segments	4	>=	4	PASS
dissipation_positive	116.3	>=	1.0000e-09	PASS
dissipation_nondecreasing	0	>=	0	PASS
cycle_energy_balance	0.006231	<=	0.05	PASS
cycle_energy_balance_order	0.9994	>=	0.8	PASS

l3_neo_hookean_uniaxial_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
large_strain_axial	2.7339e-14	<=	1.0000e-09	PASS
large_strain_lateral	1.8723e-14	<=	1.0000e-09	PASS
large_strain_lateral_isotropy	1.7097e-14	<=	1.0000e-09	PASS

l3_neo_hookean_uniaxial_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
large_strain_axial	2.2888e-14	<=	1.0000e-09	PASS
large_strain_lateral	2.0230e-14	<=	1.0000e-09	PASS
large_strain_lateral_isotropy	3.9968e-15	<=	1.0000e-09	PASS

l3_neo_hookean_uniaxial_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
large_strain_axial	6.4146e-15	<=	1.0000e-09	PASS
large_strain_lateral	1.3143e-14	<=	1.0000e-09	PASS
large_strain_lateral_isotropy	2.9088e-14	<=	1.0000e-09	PASS

l3_neo_hookean_compression_0.7_fails_closed · PASS

Gate	Observed	Cmp	Limit	Disposition
compression_correct_or_typed_refusal	1	==	1	PASS

l3_load_step_convergence_j2 · PASS

Gate	Observed	Cmp	Limit	Disposition
load_step_levels	5	>=	5	PASS
load_step_second_finest_error	1.5872e-13	<=	1.0000e-10	PASS

l3_tolerance_convergence · PASS

Gate	Observed	Cmp	Limit	Disposition
tolerance_levels	6	>=	6	PASS
error_over_tolerance	0.007265	<=	1	PASS
published_residual_over_requested	0.4269	<=	1	PASS

l4_svk_limit_load_control_refuses · PASS

Gate	Observed	Cmp	Limit	Disposition
load_control_refuses	1	==	1	PASS
refusal_is_typed	1	==	1	PASS
refusal_over_limit	0.9824	<=	1	PASS
refusal_over_limit	0.9824	>=	0.9	PASS

l4_svk_limit_arc_increment_0.05 · PASS

Gate	Observed	Cmp	Limit	Disposition
continuation_is_arc_length	1	==	1	PASS
points_past_limit	8	>=	3	PASS
closed_form_every_point	4.5368e-16	<=	1.0000e-08	PASS
peak_never_exceeds_limit	-3.3119e-04	<=	1.0000e-09	PASS
stiffness_sign_changes	1	==	1	PASS
branch_monotone_violations	0	==	0	PASS
located_limit_load_error	1.2251e-05	<=	0.001	PASS
located_limit_stretch_error	2.0460e-04	<=	0.05	PASS
every_point_equilibrium	8.1254e-11	<=	1.0000e-10	PASS
path_descends_after_limit	1	==	1	PASS

l4_svk_limit_arc_increment_0.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
continuation_is_arc_length	1	==	1	PASS
points_past_limit	4	>=	3	PASS
closed_form_every_point	4.5368e-16	<=	1.0000e-08	PASS
peak_never_exceeds_limit	-4.6629e-04	<=	1.0000e-09	PASS
stiffness_sign_changes	1	==	1	PASS
branch_monotone_violations	0	==	0	PASS
located_limit_load_error	6.4977e-05	<=	0.001	PASS
located_limit_stretch_error	0.001077	<=	0.05	PASS
every_point_equilibrium	6.0363e-11	<=	1.0000e-10	PASS
path_descends_after_limit	1	==	1	PASS

l4_svk_limit_arc_increment_0.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
continuation_is_arc_length	1	==	1	PASS
points_past_limit	3	>=	3	PASS
closed_form_every_point	1.5123e-16	<=	1.0000e-08	PASS
peak_never_exceeds_limit	-2.4823e-05	<=	1.0000e-09	PASS
stiffness_sign_changes	1	==	1	PASS
branch_monotone_violations	0	==	0	PASS
located_limit_load_error	2.3499e-05	<=	0.001	PASS
located_limit_stretch_error	0.005012	<=	0.05	PASS

Gate	Observed	Cmp	Limit	Disposition
every_point_equilibrium	3.4998e-11	<=	1.0000e-10	PASS
path_descends_after_limit	1	==	1	PASS

l4_svk_limit_step_sensitivity · PASS

Gate	Observed	Cmp	Limit	Disposition
located_limit_spread	8.8476e-05	<=	0.001	PASS

l4_perfect_plasticity_arc_increment_0.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_branch_points	57	>=	3	PASS
plastic_closed_form	3.5763e-16	<=	1.0000e-08	PASS
plastic_path_descends	1	==	1	PASS

l4_perfect_plasticity_arc_increment_0.05 · PASS

Gate	Observed	Cmp	Limit	Disposition
plastic_branch_points	114	>=	3	PASS
plastic_closed_form	3.5763e-16	<=	1.0000e-08	PASS
plastic_path_descends	1	==	1	PASS

l4_arc_length_lands_on_the_terminal_load · PASS

Gate	Observed	Cmp	Limit	Disposition
terminal_load_factor	1	==	1	PASS
equals_load_control	1.1053e-11	<=	1.0000e-06	PASS
stop_reason_terminal	1	==	1	PASS

l4_arc_length_slender_cantilever_cpu_and_metal · PASS

Gate	Observed	Cmp	Limit	Disposition
arc_both_backends_solve	1	==	1	PASS
arc_metal_vs_cpu	1.8016e-10	<=	1.0000e-06	PASS
equals_load_control	1.8026e-10	<=	1.0000e-06	PASS

l4_arch_symmetric_bifurcation_measured · PASS

Gate	Observed	Cmp	Limit	Disposition
arch_symmetric_published_or_typed	1	==	1	PASS

l4_arch_arc_increment_0.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
arch_symmetric_published_or_typed	1	==	1	PASS

l4_arch_arc_increment_0.05 · PASS

Gate	Observed	Cmp	Limit	Disposition
arch_symmetric_published_or_typed	1	==	1	PASS

l4_arch_load_control_refuses_at_the_peak · PASS

Gate	Observed	Cmp	Limit	Disposition
arch_load_control_refuses	1	==	1	PASS
arch_refusal_typed	1	==	1	PASS

l4_arc_length_refuses_contact · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
refusal	0	==	1	SUPERSEDED
refusal_names_cause	0	==	1	SUPERSEDED

l4_arc_length_refuses_mixed_element · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
refusal	0	==	1	SUPERSEDED
refusal_names_cause	0	==	1	SUPERSEDED

l4_arc_length_refuses_full_approximation_multigrid · PASS

Gate	Observed	Cmp	Limit	Disposition
refusal	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l5_origin_slave_centred_offset_0_0_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_field_invariance	0	<=	1.0000e-06	PASS
origin_contact_force_invariance	0	<=	1.0000e-06	PASS
origin_residual	1.0674e-09	<=	1.0000e-08	PASS

l5_origin_slave_centred_offset_64_0_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_field_invariance	5.5749e-08	<=	1.0000e-06	PASS
origin_contact_force_invariance	9.8190e-09	<=	1.0000e-06	PASS
origin_residual	9.3841e-10	<=	1.0000e-08	PASS

l5_origin_slave_centred_offset_0_64_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_field_invariance	5.5689e-08	<=	1.0000e-06	PASS
origin_contact_force_invariance	9.9353e-09	<=	1.0000e-06	PASS
origin_residual	1.0386e-09	<=	1.0000e-08	PASS

l5_origin_slave_centred_offset_0_0_64 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_field_invariance	5.5649e-08	<=	1.0000e-06	PASS
origin_contact_force_invariance	9.9394e-09	<=	1.0000e-06	PASS
origin_residual	9.3881e-10	<=	1.0000e-08	PASS

l5_origin_slave_centred_offset_1024_0_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_field_invariance	5.5749e-08	<=	1.0000e-06	PASS
origin_contact_force_invariance	9.8190e-09	<=	1.0000e-06	PASS
origin_residual	9.3841e-10	<=	1.0000e-08	PASS

l5_origin_slave_centred_offset_0_0_1024 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_field_invariance	5.5649e-08	<=	1.0000e-06	PASS
origin_contact_force_invariance	9.9394e-09	<=	1.0000e-06	PASS
origin_residual	9.3881e-10	<=	1.0000e-08	PASS

l5_origin_slave_centred_growth_with_offset · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_gap_growth_ratio	1	<=	2	PASS

l5_rigid_plane_point_moved_along_the_plane · PASS

Gate	Observed	Cmp	Limit	Disposition
plane_shift_solves	5	>=	5	PASS
plane_shift_invariance	0	<=	1.0000e-12	PASS

l5_pressure_patch_test · PASS

Gate	Observed	Cmp	Limit	Disposition
patch_total_force	3.2301e-12	<=	1.0000e-07	PASS
patch_force_ratio	6.5439e-09	<=	1.0000e-05	PASS
patch_bearing_nodes	16	==	16	PASS
patch_penetration	4.6832e-12	<=	1.0001e-08	PASS
patch_action_reaction	2.1067e-16	<=	1.0000e-10	PASS

l5_coulomb_ladder_0.5_mu_p · PASS

Gate	Observed	Cmp	Limit	Disposition
cone_violation	0	<=	1.0000e-09	PASS
work_minus_stored	4.3044e-04	>=	-1.0000e-06	PASS
friction_residual	7.3485e-10	<=	1.0000e-08	PASS

l5_coulomb_ladder_0.9_mu_p · PASS

Gate	Observed	Cmp	Limit	Disposition
cone_violation	2.1367e-16	<=	1.0000e-09	PASS
work_minus_stored	0.02381	>=	-1.0000e-06	PASS
friction_residual	9.1818e-10	<=	1.0000e-08	PASS

l5_coulomb_ladder_0.99_mu_p · PASS

Gate	Observed	Cmp	Limit	Disposition
cone_violation	2.2113e-16	<=	1.0000e-09	PASS
work_minus_stored	0.06115	>=	-1.0000e-06	PASS
friction_residual	8.8100e-10	<=	1.0000e-08	PASS

l5_slip_is_witnessed · PASS

Gate	Observed	Cmp	Limit	Disposition
slip_witnessed	42	>=	1	PASS

l5_frictional_reversal_to_the_body_contact_tolerance · PASS

Gate	Observed	Cmp	Limit	Disposition
reversal_tightest_tolerance	1.0000e-08	<=	1.0000e-08	PASS
reversal_cone_violation	0	<=	1.0000e-09	PASS
reversal_anchors_classified	49	==	49	PASS

l5_face_transitions_sliding_column · PASS

Gate	Observed	Cmp	Limit	Disposition
transition_rungs	6	>=	6	PASS
master_face_transitions	9	>=	1	PASS
transition_travel_over_h	1.947	>=	1	PASS
transition_penetration	2.0112e-09	<=	0.02	PASS
transition_action_reaction	2.8840e-16	<=	1.0000e-10	PASS
transition_residual	4.6665e-09	<=	1.0000e-08	PASS

l5_self_contact_slot_equals_mirrored_half_on_a_rigid_plane · PASS

Gate	Observed	Cmp	Limit	Disposition
slot_closed	1.023	>=	1	PASS
self_contact_full_vs_half	4.8076e-11	<=	1.0000e-06	PASS
self_contact_mirror_symmetry	3.6036e-11	<=	1.0000e-06	PASS
self_contact_action_reaction	3.2698e-17	<=	1.0000e-06	PASS
self_contact_bearing_nodes	6	>=	1	PASS

l5_self_contact_on_a_convex_body_is_inert · PASS

Gate	Observed	Cmp	Limit	Disposition
convex_self_contact_difference	0	<=	1.0000e-09	PASS
convex_self_contact_active	0	==	0	PASS

l5_hertz_contact · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition

l5_origin_absolute_witness_offset_0_0_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_ran	1	==	1	PASS

l5_origin_absolute_witness_offset_64_0_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_ran	1	==	1	PASS

l5_origin_absolute_witness_offset_0_64_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_ran	1	==	1	PASS

l5_origin_absolute_witness_offset_0_0_64 · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_ran	1	==	1	PASS

l5_origin_absolute_witness_offset_1024_0_0 · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_ran	1	==	1	PASS

l5_origin_absolute_witness_offset_0_0_1024 · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_ran	1	==	1	PASS

l5_origin_absolute_witness_summary · PASS

Gate	Observed	Cmp	Limit	Disposition
witness_sensitivity	5	>=	1	PASS

l6_divergence_operator_matches_the_product_element · PASS

Gate	Observed	Cmp	Limit	Disposition
divergence_operator	1.2265e-16	<=	1.0000e-06	PASS

l6_infsup_clamped_n2 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	8	>=	8	PASS

l6_infsup_clamped_n3 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	27	>=	8	PASS

l6_infsup_clamped_n4 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	64	>=	8	PASS

l6_infsup_clamped_n5 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	125	>=	8	PASS

l6_infsup_clamped_n6 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	216	>=	8	PASS

l6_infsup_summary_clamped · PASS

Gate	Observed	Cmp	Limit	Disposition
clamped_spurious_modes_finest	16	>=	1	PASS
clamped_beta_exponent	1.624	>=	0.5	PASS

l6_infsup_cantilever_n2 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	8	>=	8	PASS

l6_infsup_cantilever_n3 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	27	>=	8	PASS

l6_infsup_cantilever_n4 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	64	>=	8	PASS

l6_infsup_cantilever_n5 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	125	>=	8	PASS

l6_infsup_cantilever_n6 · PASS

Gate	Observed	Cmp	Limit	Disposition
infsup_eigenproblem_solved	216	>=	8	PASS

l6_infsup_summary_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
cantilever_beta_exponent	1.712	>=	-10	PASS

l6_bending_pressure_8x2x2 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
element_mean_volume_change	0.001119	<=	1.0000e-10	SUPERSEDED
published_volume_change	0.001119	<=	1.0000e-10	SUPERSEDED
pressure_published_per_element	0	==	0	PASS

l6_bending_pressure_16x4x4 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
element_mean_volume_change	8.3210e-04	<=	1.0000e-10	SUPERSEDED
published_volume_change	8.3210e-04	<=	1.0000e-10	SUPERSEDED
pressure_published_per_element	0	==	0	PASS

l6_bending_pressure_32x8x8 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
element_mean_volume_change	7.9694e-04	<=	1.0000e-10	SUPERSEDED
published_volume_change	7.9694e-04	<=	1.0000e-10	SUPERSEDED
pressure_published_per_element	0	==	0	PASS

l6_bending_does_not_lock · PASS

Gate	Observed	Cmp	Limit	Disposition
bending_order	2.708	>=	1	PASS
bending_error_vs_richardson	0.01201	<=	0.05	PASS

l6_pressure_refinement · PASS

Gate	Observed	Cmp	Limit	Disposition
pressure_refinement_order	1.131	>=	0.8	PASS

l6_penalty_is_conditioning_only · PASS

Gate	Observed	Cmp	Limit	Disposition
penalty_solves	3	>=	3	PASS
penalty_tip_spread	2.4652e-09	<=	1.0000e-06	PASS
penalty_pressure_spread	4.5697e-08	<=	1.0000e-05	PASS

l6_penalty_2000_mu_fails_closed · PASS

Gate	Observed	Cmp	Limit	Disposition
penalty_extreme_agrees_or_refuses_typed	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.0352e-12	<=	1.0000e-08	PASS
map_lateral	7.3874e-12	<=	1.0000e-08	PASS
map_pressure	3.9830e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.3384e-12	<=	1.0000e-08	PASS
map_lateral	5.2148e-12	<=	1.0000e-08	PASS
map_pressure	3.4573e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.3005e-13	<=	1.0000e-08	PASS
map_lateral	2.6923e-13	<=	1.0000e-08	PASS
map_pressure	1.5657e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.4930e-12	<=	1.0000e-08	PASS
map_lateral	1.7826e-12	<=	1.0000e-08	PASS
map_pressure	7.1438e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.9239e-11	<=	1.0000e-08	PASS
map_lateral	9.7063e-12	<=	1.0000e-08	PASS
map_pressure	2.0558e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.1266e-12	<=	1.0000e-08	PASS
map_lateral	1.2983e-12	<=	1.0000e-08	PASS
map_pressure	1.4121e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.2539e-11	<=	1.0000e-08	PASS
map_lateral	4.7584e-12	<=	1.0000e-08	PASS
map_pressure	5.1692e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.7675e-11	<=	1.0000e-08	PASS
map_lateral	1.2639e-11	<=	1.0000e-08	PASS
map_pressure	1.4615e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	9.0763e-12	<=	1.0000e-08	PASS
map_lateral	1.1162e-11	<=	1.0000e-08	PASS
map_pressure	6.0059e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	9.4541e-12	<=	1.0000e-08	PASS
map_lateral	7.7923e-12	<=	1.0000e-08	PASS
map_pressure	5.1605e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.1052e-13	<=	1.0000e-08	PASS
map_lateral	8.8451e-13	<=	1.0000e-08	PASS
map_pressure	1.5657e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.6544e-12	<=	1.0000e-08	PASS
map_lateral	2.7299e-12	<=	1.0000e-08	PASS
map_pressure	7.1443e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.9198e-11	<=	1.0000e-08	PASS
map_lateral	9.1033e-12	<=	1.0000e-08	PASS
map_pressure	2.0544e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.2582e-12	<=	1.0000e-08	PASS
map_lateral	1.0769e-12	<=	1.0000e-08	PASS
map_pressure	1.4122e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.2281e-11	<=	1.0000e-08	PASS
map_lateral	4.2447e-12	<=	1.0000e-08	PASS
map_pressure	5.1691e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.7126e-11	<=	1.0000e-08	PASS
map_lateral	1.2859e-11	<=	1.0000e-08	PASS
map_pressure	1.4617e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.9368e-12	<=	1.0000e-08	PASS
map_lateral	1.1146e-11	<=	1.0000e-08	PASS
map_pressure	1.5496e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.6522e-13	<=	1.0000e-08	PASS
map_lateral	1.0623e-12	<=	1.0000e-08	PASS
map_pressure	2.5883e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	8.9341e-12	<=	1.0000e-08	PASS
map_lateral	1.1164e-11	<=	1.0000e-08	PASS
map_pressure	6.0048e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	9.9714e-12	<=	1.0000e-08	PASS
map_lateral	7.5387e-12	<=	1.0000e-08	PASS
map_pressure	5.1596e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.2430e-12	<=	1.0000e-08	PASS
map_lateral	2.5036e-13	<=	1.0000e-08	PASS
map_pressure	1.5667e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.1346e-12	<=	1.0000e-08	PASS
map_lateral	2.6884e-12	<=	1.0000e-08	PASS
map_pressure	7.1433e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.9071e-11	<=	1.0000e-08	PASS
map_lateral	9.7115e-12	<=	1.0000e-08	PASS
map_pressure	2.0538e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.2568e-12	<=	1.0000e-08	PASS
map_lateral	8.8318e-13	<=	1.0000e-08	PASS
map_pressure	1.4128e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.2090e-11	<=	1.0000e-08	PASS
map_lateral	3.8872e-12	<=	1.0000e-08	PASS
map_pressure	5.1713e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_1x1x1_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.7125e-11	<=	1.0000e-08	PASS
map_lateral	1.2741e-11	<=	1.0000e-08	PASS
map_pressure	1.4617e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.2955e-12	<=	1.0000e-08	PASS
map_lateral	5.2203e-13	<=	1.0000e-08	PASS
map_pressure	2.5929e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.2990e-12	<=	1.0000e-08	PASS
map_lateral	7.3954e-12	<=	1.0000e-08	PASS
map_pressure	3.9882e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.4994e-12	<=	1.0000e-08	PASS
map_lateral	5.1088e-12	<=	1.0000e-08	PASS
map_pressure	3.4614e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.8329e-13	<=	1.0000e-08	PASS
map_lateral	6.5092e-13	<=	1.0000e-08	PASS
map_pressure	1.6509e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.9070e-12	<=	1.0000e-08	PASS
map_lateral	2.7038e-12	<=	1.0000e-08	PASS
map_pressure	7.1491e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.0730e-11	<=	1.0000e-08	PASS
map_lateral	9.1852e-12	<=	1.0000e-08	PASS
map_pressure	2.0571e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	8.6570e-13	<=	1.0000e-08	PASS
map_lateral	1.0212e-12	<=	1.0000e-08	PASS
map_pressure	2.6157e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.9668e-12	<=	1.0000e-08	PASS
map_lateral	7.3506e-12	<=	1.0000e-08	PASS
map_pressure	3.9831e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.4244e-12	<=	1.0000e-08	PASS
map_lateral	4.1817e-12	<=	1.0000e-08	PASS
map_pressure	3.4583e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_2x2x2_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.7645e-13	<=	1.0000e-08	PASS
map_lateral	4.6674e-13	<=	1.0000e-08	PASS
map_pressure	1.6636e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_2x2x2_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.9203e-12	<=	1.0000e-08	PASS
map_lateral	2.4375e-12	<=	1.0000e-08	PASS
map_pressure	7.1549e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_2x2x2_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.1274e-11	<=	1.0000e-08	PASS
map_lateral	8.9400e-12	<=	1.0000e-08	PASS
map_pressure	2.0566e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_2x2x2_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_2x2x2_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_2x2x2_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_2x2x2_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_2x2x2_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.8479e-12	<=	1.0000e-08	PASS
map_lateral	7.3725e-12	<=	1.0000e-08	PASS
map_pressure	3.9838e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.7199e-12	<=	1.0000e-08	PASS
map_lateral	5.2376e-12	<=	1.0000e-08	PASS
map_pressure	3.4620e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.0973e-13	<=	1.0000e-08	PASS
map_lateral	4.8284e-13	<=	1.0000e-08	PASS
map_pressure	1.5959e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.5728e-12	<=	1.0000e-08	PASS
map_lateral	2.8139e-12	<=	1.0000e-08	PASS
map_pressure	7.1798e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.7059e-11	<=	1.0000e-08	PASS
map_lateral	1.0252e-11	<=	1.0000e-08	PASS
map_pressure	2.0570e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_2x2x2_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.5706e-12	<=	1.0000e-08	PASS
map_lateral	1.6653e-13	<=	1.0000e-08	PASS
map_pressure	1.4957e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_2x2x2_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.5535e-11	<=	1.0000e-08	PASS
map_lateral	4.0810e-12	<=	1.0000e-08	PASS
map_pressure	5.2168e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_2x2x2_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.1040e-13	<=	1.0000e-08	PASS
map_lateral	1.1378e-12	<=	1.0000e-08	PASS
map_pressure	2.6822e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.8277e-12	<=	1.0000e-08	PASS
map_lateral	6.8214e-12	<=	1.0000e-08	PASS
map_pressure	3.9848e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.3182e-12	<=	1.0000e-08	PASS
map_lateral	5.2131e-12	<=	1.0000e-08	PASS
map_pressure	3.4599e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5762e-13	<=	1.0000e-08	PASS
map_lateral	4.2399e-13	<=	1.0000e-08	PASS
map_pressure	1.6008e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.6915e-12	<=	1.0000e-08	PASS
map_lateral	2.9607e-12	<=	1.0000e-08	PASS
map_pressure	7.1927e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.9548e-11	<=	1.0000e-08	PASS
map_lateral	9.8366e-12	<=	1.0000e-08	PASS
map_pressure	2.0596e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.5495e-11	<=	1.0000e-08	PASS
map_lateral	1.3108e-11	<=	1.0000e-08	PASS
map_pressure	8.6351e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5795e-13	<=	1.0000e-08	PASS
map_lateral	1.1569e-12	<=	1.0000e-08	PASS
map_pressure	2.6736e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.9576e-12	<=	1.0000e-08	PASS
map_lateral	7.5042e-12	<=	1.0000e-08	PASS
map_pressure	3.9852e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5152e-12	<=	1.0000e-08	PASS
map_lateral	5.2111e-12	<=	1.0000e-08	PASS
map_pressure	3.4615e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.8038e-13	<=	1.0000e-08	PASS
map_lateral	3.7481e-13	<=	1.0000e-08	PASS
map_pressure	1.5785e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x2x2_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.1814e-12	<=	1.0000e-08	PASS
map_lateral	7.3521e-12	<=	1.0000e-08	PASS
map_pressure	3.9854e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.0552e-12	<=	1.0000e-08	PASS
map_lateral	5.1326e-12	<=	1.0000e-08	PASS
map_pressure	3.4644e-09	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.4655e-13	<=	1.0000e-08	PASS
map_lateral	6.3316e-13	<=	1.0000e-08	PASS
map_pressure	1.6193e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.6308e-12	<=	1.0000e-08	PASS
map_lateral	2.6590e-12	<=	1.0000e-08	PASS
map_pressure	7.1865e-10	<=	1.0000e-07	PASS

l6_map_neo_hookean_4x2x2_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.9179e-11	<=	1.0000e-08	PASS
map_lateral	9.7679e-12	<=	1.0000e-08	PASS
map_pressure	2.0633e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.1459e-12	<=	1.0000e-08	PASS
map_lateral	7.8537e-13	<=	1.0000e-08	PASS
map_pressure	1.7861e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.4067e-11	<=	1.0000e-08	PASS
map_lateral	4.1793e-12	<=	1.0000e-08	PASS
map_pressure	5.3999e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x2x2_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.6122e-13	<=	1.0000e-08	PASS
map_lateral	1.1742e-12	<=	1.0000e-08	PASS
map_pressure	2.6795e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.1531e-12	<=	1.0000e-08	PASS
map_lateral	7.0675e-12	<=	1.0000e-08	PASS
map_pressure	3.9892e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5206e-12	<=	1.0000e-08	PASS
map_lateral	5.2419e-12	<=	1.0000e-08	PASS
map_pressure	3.4632e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.6262e-13	<=	1.0000e-08	PASS
map_lateral	4.0390e-13	<=	1.0000e-08	PASS
map_pressure	1.6223e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.9408e-12	<=	1.0000e-08	PASS
map_lateral	2.6990e-12	<=	1.0000e-08	PASS
map_pressure	7.2252e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.9393e-11	<=	1.0000e-08	PASS
map_lateral	9.9425e-12	<=	1.0000e-08	PASS
map_pressure	2.0605e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.8780e-13	<=	1.0000e-08	PASS
map_lateral	1.0891e-12	<=	1.0000e-08	PASS
map_pressure	2.6554e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.3778e-12	<=	1.0000e-08	PASS
map_lateral	8.4257e-12	<=	1.0000e-08	PASS
map_pressure	3.9873e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.3444e-12	<=	1.0000e-08	PASS
map_lateral	5.2589e-12	<=	1.0000e-08	PASS
map_pressure	3.4607e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.6373e-13	<=	1.0000e-08	PASS
map_lateral	3.4306e-13	<=	1.0000e-08	PASS
map_pressure	1.6014e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.4543e-12	<=	1.0000e-08	PASS
map_lateral	7.5686e-12	<=	1.0000e-08	PASS
map_pressure	3.9966e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.8715e-12	<=	1.0000e-08	PASS
map_lateral	4.9492e-12	<=	1.0000e-08	PASS
map_pressure	3.4667e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.4752e-13	<=	1.0000e-08	PASS
map_lateral	5.3435e-13	<=	1.0000e-08	PASS
map_pressure	1.7306e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.2890e-12	<=	1.0000e-08	PASS
map_lateral	2.7403e-12	<=	1.0000e-08	PASS
map_pressure	7.2319e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.8910e-11	<=	1.0000e-08	PASS
map_lateral	9.5448e-12	<=	1.0000e-08	PASS
map_pressure	2.0667e-09	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.1764e-12	<=	1.0000e-08	PASS
map_lateral	1.8983e-12	<=	1.0000e-08	PASS
map_pressure	1.8273e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.1730e-11	<=	1.0000e-08	PASS
map_lateral	3.9254e-12	<=	1.0000e-08	PASS
map_pressure	5.7035e-10	<=	1.0000e-07	PASS

I6_map_neo_hookean_4x4x4_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.6352e-12	<=	1.0000e-08	PASS
map_lateral	8.0418e-12	<=	1.0000e-08	PASS
map_pressure	4.2509e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.9110e-12	<=	1.0000e-08	PASS
map_lateral	4.8476e-12	<=	1.0000e-08	PASS
map_pressure	3.2676e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.1625e-13	<=	1.0000e-08	PASS
map_lateral	2.6656e-13	<=	1.0000e-08	PASS
map_pressure	1.3547e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.4811e-12	<=	1.0000e-08	PASS
map_lateral	1.2461e-12	<=	1.0000e-08	PASS
map_pressure	5.7834e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.4025e-11	<=	1.0000e-08	PASS
map_lateral	6.8863e-12	<=	1.0000e-08	PASS
map_pressure	1.5646e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.2876e-12	<=	1.0000e-08	PASS
map_lateral	4.3110e-13	<=	1.0000e-08	PASS
map_pressure	8.6531e-11	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.5315e-12	<=	1.0000e-08	PASS
map_lateral	1.5042e-12	<=	1.0000e-08	PASS
map_pressure	2.8021e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.1799e-11	<=	1.0000e-08	PASS
map_lateral	5.3653e-12	<=	1.0000e-08	PASS
map_pressure	7.1683e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	9.9263e-12	<=	1.0000e-08	PASS
map_lateral	1.2151e-11	<=	1.0000e-08	PASS
map_pressure	6.4081e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	8.7811e-12	<=	1.0000e-08	PASS
map_lateral	7.2370e-12	<=	1.0000e-08	PASS
map_pressure	4.8764e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.9783e-13	<=	1.0000e-08	PASS
map_lateral	5.6721e-13	<=	1.0000e-08	PASS
map_pressure	1.3538e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.6364e-12	<=	1.0000e-08	PASS
map_lateral	2.0910e-12	<=	1.0000e-08	PASS
map_pressure	5.7866e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.3994e-11	<=	1.0000e-08	PASS
map_lateral	6.9341e-12	<=	1.0000e-08	PASS
map_pressure	1.5633e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.3631e-12	<=	1.0000e-08	PASS
map_lateral	3.1886e-13	<=	1.0000e-08	PASS
map_pressure	8.6614e-11	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.2551e-12	<=	1.0000e-08	PASS
map_lateral	1.4867e-12	<=	1.0000e-08	PASS
map_pressure	2.8021e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.1800e-11	<=	1.0000e-08	PASS
map_lateral	4.9813e-12	<=	1.0000e-08	PASS
map_pressure	7.1683e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.0420e-11	<=	1.0000e-08	PASS
map_lateral	1.6271e-11	<=	1.0000e-08	PASS
map_pressure	2.1378e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.0619e-12	<=	1.0000e-08	PASS
map_lateral	1.3438e-12	<=	1.0000e-08	PASS
map_pressure	3.1298e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.0263e-11	<=	1.0000e-08	PASS
map_lateral	1.2099e-11	<=	1.0000e-08	PASS
map_pressure	6.4085e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.0475e-11	<=	1.0000e-08	PASS
map_lateral	6.9397e-12	<=	1.0000e-08	PASS
map_pressure	4.8760e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.4208e-12	<=	1.0000e-08	PASS
map_lateral	1.2867e-13	<=	1.0000e-08	PASS
map_pressure	1.3539e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.8850e-12	<=	1.0000e-08	PASS
map_lateral	2.1796e-12	<=	1.0000e-08	PASS
map_pressure	5.7863e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.1418e-11	<=	1.0000e-08	PASS
map_lateral	6.5811e-12	<=	1.0000e-08	PASS
map_pressure	1.5647e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.7253e-11	<=	1.0000e-08	PASS
map_lateral	2.0711e-12	<=	1.0000e-08	PASS
map_pressure	8.7501e-11	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.0254e-12	<=	1.0000e-08	PASS
map_lateral	1.9137e-12	<=	1.0000e-08	PASS
map_pressure	2.8030e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_1x1x1_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.1587e-11	<=	1.0000e-08	PASS
map_lateral	5.3759e-12	<=	1.0000e-08	PASS
map_pressure	7.1680e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.6082e-12	<=	1.0000e-08	PASS
map_lateral	7.6494e-13	<=	1.0000e-08	PASS
map_pressure	3.1403e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.3047e-12	<=	1.0000e-08	PASS
map_lateral	8.1339e-12	<=	1.0000e-08	PASS
map_pressure	4.2606e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.0315e-12	<=	1.0000e-08	PASS
map_lateral	4.8835e-12	<=	1.0000e-08	PASS
map_pressure	3.2737e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.2630e-13	<=	1.0000e-08	PASS
map_lateral	5.9253e-13	<=	1.0000e-08	PASS
map_pressure	1.3702e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.9268e-12	<=	1.0000e-08	PASS
map_lateral	2.1109e-12	<=	1.0000e-08	PASS
map_pressure	5.7891e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.5531e-11	<=	1.0000e-08	PASS
map_lateral	6.5651e-12	<=	1.0000e-08	PASS
map_pressure	1.5658e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.1677e-12	<=	1.0000e-08	PASS
map_lateral	1.2457e-12	<=	1.0000e-08	PASS
map_pressure	3.1467e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5703e-12	<=	1.0000e-08	PASS
map_lateral	8.0445e-12	<=	1.0000e-08	PASS
map_pressure	4.2529e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.8065e-12	<=	1.0000e-08	PASS
map_lateral	3.9732e-12	<=	1.0000e-08	PASS
map_pressure	3.2705e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.3222e-13	<=	1.0000e-08	PASS
map_lateral	5.6177e-14	<=	1.0000e-08	PASS
map_pressure	1.4247e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.0209e-12	<=	1.0000e-08	PASS
map_lateral	1.4537e-12	<=	1.0000e-08	PASS
map_pressure	5.8098e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.5795e-11	<=	1.0000e-08	PASS
map_lateral	6.0657e-12	<=	1.0000e-08	PASS
map_pressure	1.5657e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5662e-12	<=	1.0000e-08	PASS
map_lateral	8.1439e-12	<=	1.0000e-08	PASS
map_pressure	4.2522e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.6359e-12	<=	1.0000e-08	PASS
map_lateral	4.8713e-12	<=	1.0000e-08	PASS
map_pressure	3.2708e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.4200e-14	<=	1.0000e-08	PASS
map_lateral	1.3722e-13	<=	1.0000e-08	PASS
map_pressure	1.3943e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	2.3489e-12	<=	1.0000e-08	PASS
map_lateral	2.1310e-12	<=	1.0000e-08	PASS
map_pressure	5.8051e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.2312e-11	<=	1.0000e-08	PASS
map_lateral	6.9651e-12	<=	1.0000e-08	PASS
map_pressure	1.5701e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.2968e-12	<=	1.0000e-08	PASS
map_lateral	2.2649e-14	<=	1.0000e-08	PASS
map_pressure	9.2628e-11	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.1098e-11	<=	1.0000e-08	PASS
map_lateral	1.4587e-12	<=	1.0000e-08	PASS
map_pressure	2.8303e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_2x2x2_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	9.7825e-13	<=	1.0000e-08	PASS
map_lateral	1.4015e-12	<=	1.0000e-08	PASS
map_pressure	3.2207e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.5501e-12	<=	1.0000e-08	PASS
map_lateral	7.4647e-12	<=	1.0000e-08	PASS
map_pressure	4.2567e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.1294e-12	<=	1.0000e-08	PASS
map_lateral	4.6172e-12	<=	1.0000e-08	PASS
map_pressure	3.2724e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	4.3891e-13	<=	1.0000e-08	PASS
map_lateral	4.6152e-13	<=	1.0000e-08	PASS
map_pressure	1.4012e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.6672e-12	<=	1.0000e-08	PASS
map_lateral	2.0892e-12	<=	1.0000e-08	PASS
map_pressure	5.8133e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.4524e-11	<=	1.0000e-08	PASS
map_lateral	7.4154e-12	<=	1.0000e-08	PASS
map_pressure	1.5700e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.1301e-11	<=	1.0000e-08	PASS
map_lateral	1.0149e-11	<=	1.0000e-08	PASS
map_pressure	2.8184e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	8.8693e-13	<=	1.0000e-08	PASS
map_lateral	1.5923e-12	<=	1.0000e-08	PASS
map_pressure	3.2063e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.5472e-12	<=	1.0000e-08	PASS
map_lateral	8.1786e-12	<=	1.0000e-08	PASS
map_pressure	4.2536e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.0152e-12	<=	1.0000e-08	PASS
map_lateral	5.0168e-12	<=	1.0000e-08	PASS
map_pressure	3.2688e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.6214e-13	<=	1.0000e-08	PASS
map_lateral	2.7223e-13	<=	1.0000e-08	PASS
map_pressure	1.3780e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.7231e-12	<=	1.0000e-08	PASS
map_lateral	8.0240e-12	<=	1.0000e-08	PASS
map_pressure	4.2549e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.7300e-12	<=	1.0000e-08	PASS
map_lateral	4.8018e-12	<=	1.0000e-08	PASS
map_pressure	3.2770e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.5511e-15	<=	1.0000e-08	PASS
map_lateral	4.4864e-13	<=	1.0000e-08	PASS
map_pressure	1.3961e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.6420e-12	<=	1.0000e-08	PASS
map_lateral	2.1171e-12	<=	1.0000e-08	PASS
map_pressure	5.8841e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.3584e-11	<=	1.0000e-08	PASS
map_lateral	7.1058e-12	<=	1.0000e-08	PASS
map_pressure	1.5705e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.5263e-12	<=	1.0000e-08	PASS
map_lateral	3.4373e-13	<=	1.0000e-08	PASS
map_pressure	1.0334e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x2x2_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.9964e-13	<=	1.0000e-08	PASS
map_lateral	1.4371e-12	<=	1.0000e-08	PASS
map_pressure	3.2061e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.7261e-12	<=	1.0000e-08	PASS
map_lateral	7.7496e-12	<=	1.0000e-08	PASS
map_pressure	4.2595e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	6.0969e-12	<=	1.0000e-08	PASS
map_lateral	4.8246e-12	<=	1.0000e-08	PASS
map_pressure	3.2710e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.5289e-13	<=	1.0000e-08	PASS
map_lateral	3.6005e-13	<=	1.0000e-08	PASS
map_pressure	1.3918e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.8586e-12	<=	1.0000e-08	PASS
map_lateral	2.0272e-12	<=	1.0000e-08	PASS
map_pressure	5.8507e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.4022e-11	<=	1.0000e-08	PASS
map_lateral	6.8394e-12	<=	1.0000e-08	PASS
map_pressure	1.5689e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_111_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.1707e-13	<=	1.0000e-08	PASS
map_lateral	1.4899e-12	<=	1.0000e-08	PASS
map_pressure	3.2085e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.9012e-12	<=	1.0000e-08	PASS
map_lateral	9.0137e-12	<=	1.0000e-08	PASS
map_pressure	4.2548e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.8648e-12	<=	1.0000e-08	PASS
map_lateral	4.7968e-12	<=	1.0000e-08	PASS
map_pressure	3.2707e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.6769e-13	<=	1.0000e-08	PASS
map_lateral	4.1589e-13	<=	1.0000e-08	PASS
map_pressure	1.7644e-10	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_211_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.7 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

I6_map_mooney_rivlin_4x4x4_aspect_122_stretch_0.9 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	7.8911e-12	<=	1.0000e-08	PASS
map_lateral	8.2292e-12	<=	1.0000e-08	PASS
map_pressure	4.2717e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.1 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.1670e-12	<=	1.0000e-08	PASS
map_lateral	4.8996e-12	<=	1.0000e-08	PASS
map_pressure	3.2781e-09	<=	1.0000e-07	PASS

I6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.2 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	5.4438e-13	<=	1.0000e-08	PASS
map_lateral	4.2055e-13	<=	1.0000e-08	PASS
map_pressure	1.4579e-10	<=	1.0000e-07	PASS

l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.3 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	3.2571e-12	<=	1.0000e-08	PASS
map_lateral	2.1374e-12	<=	1.0000e-08	PASS
map_pressure	5.8470e-10	<=	1.0000e-07	PASS

l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.4 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	1.3653e-11	<=	1.0000e-08	PASS
map_lateral	6.8826e-12	<=	1.0000e-08	PASS
map_pressure	1.5732e-09	<=	1.0000e-07	PASS

l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.6 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_axial	9.1122e-13	<=	1.0000e-08	PASS
map_lateral	1.0004e-12	<=	1.0000e-08	PASS
map_pressure	1.2705e-10	<=	1.0000e-07	PASS

l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_1.8 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_mooney_rivlin_4x4x4_aspect_122_stretch_2.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
map_refusal_is_typed_and_named	1	==	1	PASS

l6_map_summary_fail_closed · PASS

Gate	Observed	Cmp	Limit	Disposition
map_published_wrong	0	==	0	PASS
map_solved_correctly	158	>=	50	PASS

l7_seed_000_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.1851e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.3858e-12	<=	1.0000e-05	PASS
strain_energy	4.6537e-12	<=	1.0000e-06	PASS
support_reaction	1.4831e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0391e-10	<=	1.0000e-08	PASS

Gate	Observed	Cmp	Limit	Disposition
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_001_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8353e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.0024e-12	<=	1.0000e-05	PASS
strain_energy	3.7390e-12	<=	1.0000e-06	PASS
support_reaction	4.7880e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	5.3563e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_002_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6794e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4977e-11	<=	1.0000e-05	PASS
strain_energy	3.2554e-11	<=	1.0000e-06	PASS
support_reaction	5.3136e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.9704e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_003_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.3762e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.7343e-12	<=	1.0000e-05	PASS
strain_energy	1.6628e-11	<=	1.0000e-06	PASS

Gate	Observed	Cmp	Limit	Disposition
support_reaction	3.9597e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.7357e-10	<=	1.0000e-06	PASS
metal_published_residual	1.0713e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_004_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.7478e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.3393e-13	<=	1.0000e-05	PASS
strain_energy	1.5617e-12	<=	1.0000e-06	PASS
support_reaction	1.8018e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.4987e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_005_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.5193e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.3633e-11	<=	1.0000e-05	PASS
strain_energy	2.7275e-12	<=	1.0000e-06	PASS
support_reaction	3.0775e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	6.7898e-11	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.1686e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_006_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1506e-07	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.4092e-07	<=	1.0000e-05	PASS
strain_energy	2.3178e-11	<=	1.0000e-06	PASS
support_reaction	5.8909e-08	<=	1.0000e-05	PASS
contact_force	8.5011e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.4723e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_007_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.9657e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0406e-07	<=	1.0000e-05	PASS
strain_energy	4.6418e-11	<=	1.0000e-06	PASS
support_reaction	8.3121e-09	<=	1.0000e-05	PASS
contact_force	1.1863e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.5537e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_008_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5307e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.6831e-08	<=	1.0000e-05	PASS
strain_energy	4.3212e-11	<=	1.0000e-06	PASS
support_reaction	1.3001e-08	<=	1.0000e-05	PASS
contact_force	1.0310e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.7019e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_009_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6631e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.6261e-08	<=	1.0000e-05	PASS
strain_energy	6.7217e-11	<=	1.0000e-06	PASS
support_reaction	5.1190e-09	<=	1.0000e-05	PASS
contact_force	2.1947e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.2300e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_010_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4026e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3823e-10	<=	1.0000e-05	PASS
strain_energy	7.0063e-12	<=	1.0000e-06	PASS
support_reaction	4.2118e-10	<=	1.0000e-05	PASS
contact_force	3.8345e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5889e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_011_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.7264e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.4609e-13	<=	1.0000e-05	PASS
strain_energy	1.1266e-13	<=	1.0000e-06	PASS
support_reaction	3.6373e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.5022e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_012_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0383e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6807e-12	<=	1.0000e-05	PASS
strain_energy	1.0934e-12	<=	1.0000e-06	PASS
support_reaction	8.7480e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4152e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_013_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3880e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1121e-13	<=	1.0000e-05	PASS
strain_energy	2.1856e-13	<=	1.0000e-06	PASS
support_reaction	1.5819e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.2924e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_014_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.3756e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0552e-12	<=	1.0000e-05	PASS
strain_energy	4.6076e-13	<=	1.0000e-06	PASS
support_reaction	6.2974e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.0938e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_015_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5996e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4154e-11	<=	1.0000e-05	PASS
strain_energy	3.1742e-11	<=	1.0000e-06	PASS
support_reaction	5.8849e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4800e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_016_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.2525e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.8342e-12	<=	1.0000e-05	PASS
strain_energy	2.6886e-12	<=	1.0000e-06	PASS
support_reaction	1.5169e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.5856e-10	<=	1.0000e-06	PASS
metal_published_residual	5.5653e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_017_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.2474e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.3477e-14	<=	1.0000e-05	PASS
strain_energy	5.7146e-14	<=	1.0000e-06	PASS
support_reaction	4.4253e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.9885e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_018_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.5773e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7640e-10	<=	1.0000e-05	PASS
strain_energy	8.1025e-11	<=	1.0000e-06	PASS
support_reaction	2.3286e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	7.0746e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.0478e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_019_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.1332e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.9128e-08	<=	1.0000e-05	PASS
strain_energy	1.1818e-11	<=	1.0000e-06	PASS
support_reaction	1.3038e-08	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	3.0446e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.7528e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_020_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5998e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.4251e-08	<=	1.0000e-05	PASS
strain_energy	3.5900e-11	<=	1.0000e-06	PASS
support_reaction	5.9722e-09	<=	1.0000e-05	PASS
contact_force	2.7447e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.0258e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_021_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5375e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.6965e-08	<=	1.0000e-05	PASS
strain_energy	8.9472e-11	<=	1.0000e-06	PASS
support_reaction	1.3016e-08	<=	1.0000e-05	PASS
contact_force	2.7470e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.9537e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_022_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.7301e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.2610e-08	<=	1.0000e-05	PASS
strain_energy	4.7331e-11	<=	1.0000e-06	PASS
support_reaction	1.6978e-09	<=	1.0000e-05	PASS
contact_force	9.9092e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.8154e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_023_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2982e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2855e-10	<=	1.0000e-05	PASS
strain_energy	6.8357e-12	<=	1.0000e-06	PASS
support_reaction	4.0427e-10	<=	1.0000e-05	PASS
contact_force	4.3387e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.6349e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_024_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.6056e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.7008e-13	<=	1.0000e-05	PASS
strain_energy	6.4674e-13	<=	1.0000e-06	PASS
support_reaction	4.8708e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3260e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_025_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.0743e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.0522e-12	<=	1.0000e-05	PASS
strain_energy	3.5915e-12	<=	1.0000e-06	PASS
support_reaction	6.7621e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.4056e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_026_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.2893e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.6787e-13	<=	1.0000e-05	PASS
strain_energy	6.5022e-13	<=	1.0000e-06	PASS
support_reaction	4.7279e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.3571e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_027_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3175e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.7678e-12	<=	1.0000e-05	PASS
strain_energy	5.7089e-13	<=	1.0000e-06	PASS
support_reaction	1.1104e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.6130e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_028_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.7808e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3665e-12	<=	1.0000e-05	PASS
strain_energy	7.2453e-12	<=	1.0000e-06	PASS
support_reaction	4.8909e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6975e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_029_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.8074e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.1079e-12	<=	1.0000e-05	PASS
strain_energy	8.8894e-12	<=	1.0000e-06	PASS
support_reaction	5.7434e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.9174e-10	<=	1.0000e-06	PASS
metal_published_residual	1.2347e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_030_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.4570e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.2315e-11	<=	1.0000e-05	PASS
strain_energy	6.4502e-11	<=	1.0000e-06	PASS
support_reaction	5.1960e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.1170e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_031_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.9819e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.1530e-10	<=	1.0000e-05	PASS
strain_energy	1.0662e-10	<=	1.0000e-06	PASS
support_reaction	2.6911e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	6.4886e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.6909e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_032_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.6391e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1105e-07	<=	1.0000e-05	PASS
strain_energy	8.0170e-13	<=	1.0000e-06	PASS
support_reaction	1.8256e-08	<=	1.0000e-05	PASS
contact_force	8.8511e-13	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0107e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_033_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.0755e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.0716e-08	<=	1.0000e-05	PASS
strain_energy	6.6334e-10	<=	1.0000e-06	PASS
support_reaction	4.7698e-09	<=	1.0000e-05	PASS
contact_force	1.5569e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.8554e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_034_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5446e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.6972e-08	<=	1.0000e-05	PASS
strain_energy	6.7591e-11	<=	1.0000e-06	PASS
support_reaction	1.3022e-08	<=	1.0000e-05	PASS
contact_force	8.2995e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.4065e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_035_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6239e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.6896e-08	<=	1.0000e-05	PASS
strain_energy	6.2501e-11	<=	1.0000e-06	PASS
support_reaction	8.1885e-09	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	8.7400e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.7717e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_036_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6609e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3970e-10	<=	1.0000e-05	PASS
strain_energy	4.7401e-12	<=	1.0000e-06	PASS
support_reaction	4.2823e-10	<=	1.0000e-05	PASS
contact_force	1.5512e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2978e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_037_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.7417e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.8109e-12	<=	1.0000e-05	PASS
strain_energy	5.3654e-12	<=	1.0000e-06	PASS
support_reaction	5.4384e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.5781e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_038_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.2015e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.7647e-13	<=	1.0000e-05	PASS
strain_energy	4.3188e-13	<=	1.0000e-06	PASS
support_reaction	4.0736e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.2786e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_039_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.6799e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.3009e-12	<=	1.0000e-05	PASS
strain_energy	8.7461e-12	<=	1.0000e-06	PASS
support_reaction	1.1139e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.2211e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_040_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.2168e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.1864e-12	<=	1.0000e-05	PASS
strain_energy	5.4291e-12	<=	1.0000e-06	PASS
support_reaction	4.0109e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.9142e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_041_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5958e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6126e-12	<=	1.0000e-05	PASS
strain_energy	2.7097e-12	<=	1.0000e-06	PASS
support_reaction	7.7527e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0763e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_042_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4196e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2813e-10	<=	1.0000e-05	PASS
strain_energy	2.2406e-10	<=	1.0000e-06	PASS
support_reaction	4.1122e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.4615e-10	<=	1.0000e-06	PASS
metal_published_residual	9.8899e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_043_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.7214e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.8673e-14	<=	1.0000e-05	PASS
strain_energy	3.5566e-14	<=	1.0000e-06	PASS
support_reaction	5.6253e-13	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.1460e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_044_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.3069e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.5548e-13	<=	1.0000e-05	PASS
strain_energy	2.9542e-13	<=	1.0000e-06	PASS
support_reaction	6.6612e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.7997e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_045_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0834e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4362e-08	<=	1.0000e-05	PASS
strain_energy	5.6954e-12	<=	1.0000e-06	PASS
support_reaction	2.3802e-09	<=	1.0000e-05	PASS
contact_force	3.1111e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.8308e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_046_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.4412e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2536e-07	<=	1.0000e-05	PASS
strain_energy	5.0844e-10	<=	1.0000e-06	PASS
support_reaction	1.6195e-08	<=	1.0000e-05	PASS
contact_force	4.1504e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.1347e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_047_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5828e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7838e-08	<=	1.0000e-05	PASS
strain_energy	9.0621e-10	<=	1.0000e-06	PASS
support_reaction	1.6211e-08	<=	1.0000e-05	PASS
contact_force	1.8320e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.9334e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_048_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0243e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.0723e-08	<=	1.0000e-05	PASS
strain_energy	2.1498e-10	<=	1.0000e-06	PASS
support_reaction	9.0084e-09	<=	1.0000e-05	PASS
contact_force	4.2559e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.8701e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_049_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.6043e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.5229e-11	<=	1.0000e-05	PASS
strain_energy	2.7089e-12	<=	1.0000e-06	PASS
support_reaction	3.0120e-10	<=	1.0000e-05	PASS
contact_force	3.9795e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.7692e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_050_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.2456e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.6466e-10	<=	1.0000e-05	PASS
strain_energy	1.2879e-09	<=	1.0000e-06	PASS
support_reaction	1.2703e-09	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.7520e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_051_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.2956e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.2443e-12	<=	1.0000e-05	PASS
strain_energy	7.3385e-12	<=	1.0000e-06	PASS
support_reaction	3.6948e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.5224e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_052_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.7577e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5785e-12	<=	1.0000e-05	PASS
strain_energy	5.1746e-12	<=	1.0000e-06	PASS
support_reaction	1.8230e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.4056e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_053_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6543e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6671e-10	<=	1.0000e-05	PASS
strain_energy	3.3188e-10	<=	1.0000e-06	PASS
support_reaction	1.6836e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6727e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_054_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0781e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7806e-11	<=	1.0000e-05	PASS
strain_energy	5.5514e-11	<=	1.0000e-06	PASS
support_reaction	9.6909e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.6644e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_055_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.3150e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.4827e-11	<=	1.0000e-05	PASS
strain_energy	2.9779e-11	<=	1.0000e-06	PASS
support_reaction	1.1096e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.7708e-11	<=	1.0000e-06	PASS
metal_published_residual	4.0094e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_056_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6099e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.1941e-13	<=	1.0000e-05	PASS
strain_energy	3.2088e-13	<=	1.0000e-06	PASS
support_reaction	1.3659e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.5427e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_057_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5085e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.7948e-12	<=	1.0000e-05	PASS
strain_energy	3.2056e-12	<=	1.0000e-06	PASS
support_reaction	1.5359e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.7576e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_058_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.9386e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3224e-07	<=	1.0000e-05	PASS
strain_energy	1.0245e-12	<=	1.0000e-06	PASS
support_reaction	7.3282e-08	<=	1.0000e-05	PASS
contact_force	1.0547e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.1180e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_059_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.5728e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.7644e-08	<=	1.0000e-05	PASS
strain_energy	3.9367e-10	<=	1.0000e-06	PASS
support_reaction	5.2298e-09	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	2.9832e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.7212e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_060_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5497e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7033e-08	<=	1.0000e-05	PASS
strain_energy	1.1253e-10	<=	1.0000e-06	PASS
support_reaction	1.3048e-08	<=	1.0000e-05	PASS
contact_force	2.1799e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.9224e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_061_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6112e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.8574e-08	<=	1.0000e-05	PASS
strain_energy	4.6319e-11	<=	1.0000e-06	PASS
support_reaction	5.1857e-09	<=	1.0000e-05	PASS
contact_force	1.7445e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.2545e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_062_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4807e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4583e-10	<=	1.0000e-05	PASS
strain_energy	7.8295e-12	<=	1.0000e-06	PASS
support_reaction	4.4149e-10	<=	1.0000e-05	PASS
contact_force	3.4734e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5385e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_063_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.1802e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.3251e-13	<=	1.0000e-05	PASS
strain_energy	7.4855e-13	<=	1.0000e-06	PASS
support_reaction	8.9375e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	5.0618e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_064_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8576e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.8320e-12	<=	1.0000e-05	PASS
strain_energy	2.6412e-12	<=	1.0000e-06	PASS
support_reaction	1.9161e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.2962e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_065_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0928e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.1204e-13	<=	1.0000e-05	PASS
strain_energy	5.5181e-13	<=	1.0000e-06	PASS
support_reaction	1.4733e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4180e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_066_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6923e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.2641e-12	<=	1.0000e-05	PASS
strain_energy	1.7124e-12	<=	1.0000e-06	PASS
support_reaction	3.4823e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.3306e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_067_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4139e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0358e-11	<=	1.0000e-05	PASS
strain_energy	2.4345e-11	<=	1.0000e-06	PASS
support_reaction	3.6889e-11	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.4747e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_068_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0531e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.0173e-12	<=	1.0000e-05	PASS
strain_energy	1.0331e-11	<=	1.0000e-06	PASS
support_reaction	1.9601e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.2013e-10	<=	1.0000e-06	PASS
metal_published_residual	7.6757e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_069_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.3261e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.4707e-14	<=	1.0000e-05	PASS
strain_energy	5.1901e-14	<=	1.0000e-06	PASS
support_reaction	2.8045e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6842e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_070_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6974e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.9690e-10	<=	1.0000e-05	PASS
strain_energy	4.9800e-11	<=	1.0000e-06	PASS
support_reaction	1.1451e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	3.0765e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.4859e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_071_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.1700e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.9597e-09	<=	1.0000e-05	PASS
strain_energy	6.7520e-13	<=	1.0000e-06	PASS
support_reaction	8.9056e-10	<=	1.0000e-05	PASS
contact_force	2.6809e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4038e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_072_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2699e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6574e-08	<=	1.0000e-05	PASS
strain_energy	6.8085e-11	<=	1.0000e-06	PASS
support_reaction	2.4035e-09	<=	1.0000e-05	PASS
contact_force	1.4866e-13	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0373e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_073_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2307e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3295e-08	<=	1.0000e-05	PASS
strain_energy	1.4874e-10	<=	1.0000e-06	PASS
support_reaction	1.5112e-08	<=	1.0000e-05	PASS
contact_force	1.1460e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.2392e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_074_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.9902e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.3215e-09	<=	1.0000e-05	PASS
strain_energy	2.4751e-10	<=	1.0000e-06	PASS
support_reaction	2.1190e-09	<=	1.0000e-05	PASS
contact_force	2.0062e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.8594e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_075_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6006e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.5793e-10	<=	1.0000e-05	PASS
strain_energy	9.4798e-12	<=	1.0000e-06	PASS
support_reaction	4.6975e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	2.8447e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.6266e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_076_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0796e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0669e-12	<=	1.0000e-05	PASS
strain_energy	1.1223e-13	<=	1.0000e-06	PASS
support_reaction	2.7969e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.8456e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_077_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.2363e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7257e-12	<=	1.0000e-05	PASS
strain_energy	4.6601e-12	<=	1.0000e-06	PASS
support_reaction	2.1743e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.8287e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_078_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.1900e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.6142e-13	<=	1.0000e-05	PASS
strain_energy	9.0638e-13	<=	1.0000e-06	PASS
support_reaction	1.4912e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.5212e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_079_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.9199e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.5827e-12	<=	1.0000e-05	PASS
strain_energy	5.8533e-12	<=	1.0000e-06	PASS
support_reaction	1.2920e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2825e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_080_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6859e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.9900e-11	<=	1.0000e-05	PASS
strain_energy	5.0215e-11	<=	1.0000e-06	PASS
support_reaction	1.5947e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.1613e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_081_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.9965e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5988e-11	<=	1.0000e-05	PASS
strain_energy	2.5893e-11	<=	1.0000e-06	PASS
support_reaction	1.2004e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	3.2720e-10	<=	1.0000e-06	PASS
metal_published_residual	4.8730e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_082_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5173e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.4640e-13	<=	1.0000e-05	PASS
strain_energy	3.9753e-13	<=	1.0000e-06	PASS
support_reaction	6.4956e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.0745e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_083_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5146e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.3416e-10	<=	1.0000e-05	PASS
strain_energy	9.8204e-11	<=	1.0000e-06	PASS
support_reaction	1.9157e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	4.0204e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.6831e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_084_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.3114e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.5576e-08	<=	1.0000e-05	PASS
strain_energy	2.4754e-11	<=	1.0000e-06	PASS
support_reaction	3.0006e-09	<=	1.0000e-05	PASS
contact_force	2.9522e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6784e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_085_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.5320e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.9819e-09	<=	1.0000e-05	PASS
strain_energy	2.5374e-10	<=	1.0000e-06	PASS
support_reaction	1.5060e-09	<=	1.0000e-05	PASS
contact_force	4.7733e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.8087e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_086_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2271e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3299e-08	<=	1.0000e-05	PASS
strain_energy	1.0935e-11	<=	1.0000e-06	PASS
support_reaction	1.5070e-08	<=	1.0000e-05	PASS
contact_force	6.7954e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.4153e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_087_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.8969e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1293e-07	<=	1.0000e-05	PASS
strain_energy	1.0627e-10	<=	1.0000e-06	PASS
support_reaction	4.0152e-09	<=	1.0000e-05	PASS
contact_force	3.9978e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.9803e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_088_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.9901e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7834e-11	<=	1.0000e-05	PASS
strain_energy	2.7031e-12	<=	1.0000e-06	PASS
support_reaction	2.9686e-10	<=	1.0000e-05	PASS
contact_force	3.9915e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.7684e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_089_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.4140e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.2853e-12	<=	1.0000e-05	PASS
strain_energy	1.9866e-13	<=	1.0000e-06	PASS
support_reaction	2.0007e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.1839e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_090_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6521e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.9626e-12	<=	1.0000e-05	PASS
strain_energy	2.2754e-12	<=	1.0000e-06	PASS
support_reaction	4.6360e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.5630e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_091_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.1337e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.9051e-10	<=	1.0000e-05	PASS
strain_energy	5.7977e-10	<=	1.0000e-06	PASS
support_reaction	4.7766e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.7767e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_092_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.2551e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.7644e-11	<=	1.0000e-05	PASS
strain_energy	8.2301e-12	<=	1.0000e-06	PASS
support_reaction	1.6749e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6802e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_093_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5740e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1982e-11	<=	1.0000e-05	PASS
strain_energy	2.9742e-11	<=	1.0000e-06	PASS
support_reaction	3.9454e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.1273e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_094_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.2724e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.5849e-12	<=	1.0000e-05	PASS
strain_energy	1.0875e-12	<=	1.0000e-06	PASS
support_reaction	9.3766e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	3.1017e-10	<=	1.0000e-06	PASS
metal_published_residual	3.0343e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_095_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.7056e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.5099e-14	<=	1.0000e-05	PASS
strain_energy	4.1226e-14	<=	1.0000e-06	PASS
support_reaction	9.0708e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.5484e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_096_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.0110e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1577e-10	<=	1.0000e-05	PASS
strain_energy	6.5550e-12	<=	1.0000e-06	PASS
support_reaction	1.2511e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.2903e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.6903e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_097_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4580e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.9752e-08	<=	1.0000e-05	PASS
strain_energy	3.9563e-11	<=	1.0000e-06	PASS
support_reaction	9.6817e-09	<=	1.0000e-05	PASS
contact_force	7.0210e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.4715e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_098_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.4793e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.3662e-09	<=	1.0000e-05	PASS
strain_energy	7.1950e-11	<=	1.0000e-06	PASS
support_reaction	2.0539e-09	<=	1.0000e-05	PASS
contact_force	3.0436e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.1548e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_099_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5439e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7013e-08	<=	1.0000e-05	PASS
strain_energy	5.7064e-11	<=	1.0000e-06	PASS
support_reaction	1.3028e-08	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	5.1986e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.1091e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_100_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.2440e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.7916e-08	<=	1.0000e-05	PASS
strain_energy	1.4014e-11	<=	1.0000e-06	PASS
support_reaction	1.1853e-08	<=	1.0000e-05	PASS
contact_force	2.1301e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.4842e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_101_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.7938e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.6460e-11	<=	1.0000e-05	PASS
strain_energy	9.2758e-12	<=	1.0000e-06	PASS
support_reaction	2.9464e-10	<=	1.0000e-05	PASS
contact_force	2.0493e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2774e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_102_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5513e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4029e-12	<=	1.0000e-05	PASS
strain_energy	8.2612e-13	<=	1.0000e-06	PASS
support_reaction	3.1706e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0230e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_103_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.2323e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.1469e-13	<=	1.0000e-05	PASS
strain_energy	1.1373e-12	<=	1.0000e-06	PASS
support_reaction	1.5114e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.9162e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_104_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.8104e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0739e-12	<=	1.0000e-05	PASS
strain_energy	2.0587e-12	<=	1.0000e-06	PASS
support_reaction	6.6724e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.0579e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_105_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5313e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3999e-12	<=	1.0000e-05	PASS
strain_energy	5.1640e-13	<=	1.0000e-06	PASS
support_reaction	1.0808e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.3239e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_106_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.7686e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.8076e-12	<=	1.0000e-05	PASS
strain_energy	9.9036e-13	<=	1.0000e-06	PASS
support_reaction	1.4942e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.1026e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_107_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.4363e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.4975e-12	<=	1.0000e-05	PASS
strain_energy	4.0319e-12	<=	1.0000e-06	PASS
support_reaction	1.1807e-11	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.3248e-10	<=	1.0000e-06	PASS
metal_published_residual	7.6567e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_108_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.0402e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8009e-13	<=	1.0000e-05	PASS
strain_energy	7.0719e-13	<=	1.0000e-06	PASS
support_reaction	8.7117e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.5120e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_109_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6720e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0653e-09	<=	1.0000e-05	PASS
strain_energy	4.7689e-11	<=	1.0000e-06	PASS
support_reaction	6.4880e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.0773e-09	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3119e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_110_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.9340e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.6373e-08	<=	1.0000e-05	PASS
strain_energy	1.0046e-11	<=	1.0000e-06	PASS
support_reaction	1.3858e-08	<=	1.0000e-05	PASS
contact_force	5.0139e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.5852e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_111_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4018e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3796e-08	<=	1.0000e-05	PASS
strain_energy	4.3843e-10	<=	1.0000e-06	PASS
support_reaction	2.3380e-09	<=	1.0000e-05	PASS
contact_force	1.0130e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.0151e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_112_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5123e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.6947e-08	<=	1.0000e-05	PASS
strain_energy	6.2931e-10	<=	1.0000e-06	PASS
support_reaction	1.5772e-08	<=	1.0000e-05	PASS
contact_force	1.3404e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.9321e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_113_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6210e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.8236e-08	<=	1.0000e-05	PASS
strain_energy	2.5406e-11	<=	1.0000e-06	PASS
support_reaction	4.2001e-09	<=	1.0000e-05	PASS
contact_force	1.1796e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.3678e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_114_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.0437e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.7194e-11	<=	1.0000e-05	PASS
strain_energy	9.2195e-12	<=	1.0000e-06	PASS
support_reaction	2.8552e-10	<=	1.0000e-05	PASS
contact_force	2.0615e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2761e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_115_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3574e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4853e-12	<=	1.0000e-05	PASS
strain_energy	9.9519e-13	<=	1.0000e-06	PASS
support_reaction	4.5212e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.5406e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_116_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.4133e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.0441e-11	<=	1.0000e-05	PASS
strain_energy	3.2920e-11	<=	1.0000e-06	PASS
support_reaction	2.9733e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4455e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_117_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.9252e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.7453e-13	<=	1.0000e-05	PASS
strain_energy	1.9072e-12	<=	1.0000e-06	PASS
support_reaction	8.7618e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.5106e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_118_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.6510e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.9131e-12	<=	1.0000e-05	PASS
strain_energy	1.9271e-13	<=	1.0000e-06	PASS
support_reaction	1.3212e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.2973e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_119_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.1472e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.7591e-11	<=	1.0000e-05	PASS
strain_energy	1.3273e-10	<=	1.0000e-06	PASS
support_reaction	8.9809e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.8444e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_120_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.1688e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.3483e-11	<=	1.0000e-05	PASS
strain_energy	4.3300e-11	<=	1.0000e-06	PASS
support_reaction	8.9484e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	3.0486e-10	<=	1.0000e-06	PASS
metal_published_residual	4.4068e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_121_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.6195e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.2939e-12	<=	1.0000e-05	PASS
strain_energy	5.3490e-12	<=	1.0000e-06	PASS
support_reaction	8.3827e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	6.3083e-11	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.5485e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_122_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.3358e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.6163e-10	<=	1.0000e-05	PASS
strain_energy	3.3578e-11	<=	1.0000e-06	PASS
support_reaction	1.0602e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	6.2084e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.8905e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_123_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.2458e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.6857e-08	<=	1.0000e-05	PASS
strain_energy	1.1835e-12	<=	1.0000e-06	PASS
support_reaction	1.3429e-08	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	3.1839e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	5.8077e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_124_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.0573e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6961e-09	<=	1.0000e-05	PASS
strain_energy	4.7714e-11	<=	1.0000e-06	PASS
support_reaction	2.1967e-10	<=	1.0000e-05	PASS
contact_force	1.2152e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.0113e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_125_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1715e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.2508e-09	<=	1.0000e-05	PASS
strain_energy	3.0602e-11	<=	1.0000e-06	PASS
support_reaction	1.0439e-09	<=	1.0000e-05	PASS
contact_force	1.6558e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.3546e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_126_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.0796e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0049e-07	<=	1.0000e-05	PASS
strain_energy	6.2261e-11	<=	1.0000e-06	PASS
support_reaction	8.7639e-09	<=	1.0000e-05	PASS
contact_force	5.3779e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.9509e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_127_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3885e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3703e-10	<=	1.0000e-05	PASS
strain_energy	7.0026e-12	<=	1.0000e-06	PASS
support_reaction	4.1925e-10	<=	1.0000e-05	PASS
contact_force	3.8351e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5809e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_128_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.1595e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.3263e-12	<=	1.0000e-05	PASS
strain_energy	1.1500e-11	<=	1.0000e-06	PASS
support_reaction	2.9614e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4839e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_129_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.2299e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8169e-11	<=	1.0000e-05	PASS
strain_energy	2.0479e-11	<=	1.0000e-06	PASS
support_reaction	1.8337e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.4067e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_130_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.5356e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.5314e-12	<=	1.0000e-05	PASS
strain_energy	6.0191e-12	<=	1.0000e-06	PASS
support_reaction	9.6889e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.1293e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_131_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.1378e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.3887e-13	<=	1.0000e-05	PASS
strain_energy	7.9586e-14	<=	1.0000e-06	PASS
support_reaction	2.7540e-13	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.1235e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_132_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6458e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2277e-11	<=	1.0000e-05	PASS
strain_energy	3.5226e-11	<=	1.0000e-06	PASS
support_reaction	3.4750e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.3353e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_133_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.4936e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.8642e-11	<=	1.0000e-05	PASS
strain_energy	4.9490e-11	<=	1.0000e-06	PASS
support_reaction	2.8281e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	1.6916e-10	<=	1.0000e-06	PASS
metal_published_residual	8.0093e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_134_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.0117e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.1654e-13	<=	1.0000e-05	PASS
strain_energy	1.2349e-12	<=	1.0000e-06	PASS
support_reaction	9.4465e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5673e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_135_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.0797e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.3862e-13	<=	1.0000e-05	PASS
strain_energy	1.4151e-13	<=	1.0000e-06	PASS
support_reaction	6.0696e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.0398e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_136_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.8897e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.2924e-08	<=	1.0000e-05	PASS
strain_energy	1.2704e-11	<=	1.0000e-06	PASS
support_reaction	2.4202e-08	<=	1.0000e-05	PASS
contact_force	5.8454e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3083e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_137_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4426e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8097e-08	<=	1.0000e-05	PASS
strain_energy	3.1876e-11	<=	1.0000e-06	PASS
support_reaction	3.3040e-09	<=	1.0000e-05	PASS
contact_force	4.1591e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.3390e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_138_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4475e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7005e-08	<=	1.0000e-05	PASS
strain_energy	9.2815e-10	<=	1.0000e-06	PASS
support_reaction	1.3802e-08	<=	1.0000e-05	PASS
contact_force	2.0978e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.4858e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_139_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0718e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.4745e-08	<=	1.0000e-05	PASS
strain_energy	1.5114e-10	<=	1.0000e-06	PASS
support_reaction	3.6486e-09	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	5.1866e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.2745e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_140_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4332e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4102e-10	<=	1.0000e-05	PASS
strain_energy	7.0253e-12	<=	1.0000e-06	PASS
support_reaction	4.2677e-10	<=	1.0000e-05	PASS
contact_force	3.8212e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5859e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_141_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.6548e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7169e-12	<=	1.0000e-05	PASS
strain_energy	1.2843e-12	<=	1.0000e-06	PASS
support_reaction	5.7565e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.5086e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_142_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.4375e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.9329e-13	<=	1.0000e-05	PASS
strain_energy	2.0814e-13	<=	1.0000e-06	PASS
support_reaction	1.6062e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.3635e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_143_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6102e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4904e-09	<=	1.0000e-05	PASS
strain_energy	2.9734e-09	<=	1.0000e-06	PASS
support_reaction	2.4003e-09	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.5636e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_144_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.3239e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.2023e-13	<=	1.0000e-05	PASS
strain_energy	5.0491e-13	<=	1.0000e-06	PASS
support_reaction	5.7564e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.8249e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_145_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.7387e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7323e-13	<=	1.0000e-05	PASS
strain_energy	2.2234e-13	<=	1.0000e-06	PASS
support_reaction	4.2000e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.7740e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_146_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.4642e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.2795e-12	<=	1.0000e-05	PASS
strain_energy	1.7865e-11	<=	1.0000e-06	PASS
support_reaction	1.2793e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	1.9506e-10	<=	1.0000e-06	PASS
metal_published_residual	1.1170e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_147_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.9420e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.9386e-14	<=	1.0000e-05	PASS
strain_energy	7.2803e-14	<=	1.0000e-06	PASS
support_reaction	2.7665e-13	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.8793e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_148_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.1668e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8726e-10	<=	1.0000e-05	PASS
strain_energy	2.2057e-11	<=	1.0000e-06	PASS
support_reaction	1.0844e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.0650e-08	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.6119e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_149_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3186e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5446e-09	<=	1.0000e-05	PASS
strain_energy	1.3373e-12	<=	1.0000e-06	PASS
support_reaction	3.2771e-10	<=	1.0000e-05	PASS
contact_force	3.6501e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.7127e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_150_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.9778e-07	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.5913e-07	<=	1.0000e-05	PASS
strain_energy	1.5094e-09	<=	1.0000e-06	PASS
support_reaction	2.6731e-09	<=	1.0000e-05	PASS
contact_force	9.3851e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.5971e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_151_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2301e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3359e-08	<=	1.0000e-05	PASS
strain_energy	8.5320e-11	<=	1.0000e-06	PASS
support_reaction	1.5068e-08	<=	1.0000e-05	PASS
contact_force	3.1526e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.0520e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_152_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.4555e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.4705e-08	<=	1.0000e-05	PASS
strain_energy	3.5036e-11	<=	1.0000e-06	PASS
support_reaction	1.4528e-09	<=	1.0000e-05	PASS
contact_force	6.1324e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.5300e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_153_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5717e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.5504e-10	<=	1.0000e-05	PASS
strain_energy	9.0304e-12	<=	1.0000e-06	PASS
support_reaction	4.6322e-10	<=	1.0000e-05	PASS
contact_force	2.9546e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.6564e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_154_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.2056e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.4390e-13	<=	1.0000e-05	PASS
strain_energy	5.6111e-13	<=	1.0000e-06	PASS
support_reaction	2.9592e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.3026e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_155_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3170e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.4556e-12	<=	1.0000e-05	PASS
strain_energy	1.5261e-12	<=	1.0000e-06	PASS
support_reaction	1.1312e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.2072e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_156_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0224e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.6609e-12	<=	1.0000e-05	PASS
strain_energy	5.1793e-12	<=	1.0000e-06	PASS
support_reaction	5.0422e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.1641e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_157_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.1258e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.2074e-12	<=	1.0000e-05	PASS
strain_energy	3.3674e-12	<=	1.0000e-06	PASS
support_reaction	4.5583e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.6324e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_158_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.3454e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.5039e-11	<=	1.0000e-05	PASS
strain_energy	1.3437e-10	<=	1.0000e-06	PASS
support_reaction	1.2338e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.5303e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_159_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6375e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.4751e-11	<=	1.0000e-05	PASS
strain_energy	3.8449e-11	<=	1.0000e-06	PASS
support_reaction	1.3769e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	3.2173e-11	<=	1.0000e-06	PASS
metal_published_residual	4.7417e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_160_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.4790e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.2170e-13	<=	1.0000e-05	PASS
strain_energy	5.2763e-14	<=	1.0000e-06	PASS
support_reaction	4.9106e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0067e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_161_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0565e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.3131e-10	<=	1.0000e-05	PASS
strain_energy	1.2698e-11	<=	1.0000e-06	PASS
support_reaction	1.8902e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	5.8211e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.6594e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_162_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.1700e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4480e-08	<=	1.0000e-05	PASS
strain_energy	7.4501e-12	<=	1.0000e-06	PASS
support_reaction	3.5377e-09	<=	1.0000e-05	PASS
contact_force	2.8570e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.2438e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_163_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1608e-07	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0398e-07	<=	1.0000e-05	PASS
strain_energy	1.6421e-09	<=	1.0000e-06	PASS
support_reaction	7.4605e-09	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	5.2903e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0325e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_164_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5442e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7017e-08	<=	1.0000e-05	PASS
strain_energy	4.9395e-11	<=	1.0000e-06	PASS
support_reaction	1.3026e-08	<=	1.0000e-05	PASS
contact_force	2.3974e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5782e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_165_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.3803e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.2432e-08	<=	1.0000e-05	PASS
strain_energy	3.0442e-10	<=	1.0000e-06	PASS
support_reaction	1.2569e-09	<=	1.0000e-05	PASS
contact_force	1.7881e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0583e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_166_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6749e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6448e-10	<=	1.0000e-05	PASS
strain_energy	9.4384e-12	<=	1.0000e-06	PASS
support_reaction	4.8304e-10	<=	1.0000e-05	PASS
contact_force	2.8449e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.6259e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_167_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0736e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1745e-12	<=	1.0000e-05	PASS
strain_energy	3.1206e-13	<=	1.0000e-06	PASS
support_reaction	1.5916e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3546e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_168_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0473e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.3009e-12	<=	1.0000e-05	PASS
strain_energy	3.9611e-12	<=	1.0000e-06	PASS
support_reaction	2.4916e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.4337e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_169_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.4288e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3744e-11	<=	1.0000e-05	PASS
strain_energy	3.8495e-11	<=	1.0000e-06	PASS
support_reaction	3.0165e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.5731e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_170_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.7128e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.3469e-12	<=	1.0000e-05	PASS
strain_energy	2.5878e-12	<=	1.0000e-06	PASS
support_reaction	1.8027e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6024e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_171_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.0376e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.6509e-11	<=	1.0000e-05	PASS
strain_energy	5.6525e-11	<=	1.0000e-06	PASS
support_reaction	6.2951e-11	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.8675e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_172_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.2685e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.2808e-12	<=	1.0000e-05	PASS
strain_energy	5.5107e-12	<=	1.0000e-06	PASS
support_reaction	2.9715e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.6290e-10	<=	1.0000e-06	PASS
metal_published_residual	6.0287e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_173_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.0830e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.9890e-14	<=	1.0000e-05	PASS
strain_energy	2.3064e-13	<=	1.0000e-06	PASS
support_reaction	5.3157e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.1079e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_174_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.7296e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.1157e-11	<=	1.0000e-05	PASS
strain_energy	1.6221e-11	<=	1.0000e-06	PASS
support_reaction	4.6663e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.8359e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.1112e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_175_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.6697e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1184e-07	<=	1.0000e-05	PASS
strain_energy	3.4012e-12	<=	1.0000e-06	PASS
support_reaction	7.2668e-08	<=	1.0000e-05	PASS
contact_force	1.7243e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.7337e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_176_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4065e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5586e-08	<=	1.0000e-05	PASS
strain_energy	7.0764e-10	<=	1.0000e-06	PASS
support_reaction	2.0976e-09	<=	1.0000e-05	PASS
contact_force	1.7107e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6715e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_177_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5516e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.7064e-08	<=	1.0000e-05	PASS
strain_energy	1.2141e-10	<=	1.0000e-06	PASS
support_reaction	1.3045e-08	<=	1.0000e-05	PASS
contact_force	2.0327e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0273e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_178_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.4832e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0225e-08	<=	1.0000e-05	PASS
strain_energy	2.2035e-10	<=	1.0000e-06	PASS
support_reaction	3.4759e-09	<=	1.0000e-05	PASS
contact_force	9.5254e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.7649e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_179_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.8915e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.4776e-11	<=	1.0000e-05	PASS
strain_energy	9.2391e-12	<=	1.0000e-06	PASS
support_reaction	2.8419e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	2.0374e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2720e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_180_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2519e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2721e-11	<=	1.0000e-05	PASS
strain_energy	1.9827e-12	<=	1.0000e-06	PASS
support_reaction	9.4028e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.7745e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_181_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1480e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.9755e-12	<=	1.0000e-05	PASS
strain_energy	3.3937e-13	<=	1.0000e-06	PASS
support_reaction	3.0406e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0563e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_182_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.2679e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.7741e-13	<=	1.0000e-05	PASS
strain_energy	9.7586e-13	<=	1.0000e-06	PASS
support_reaction	3.8937e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	5.2661e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_183_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.8037e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.8766e-12	<=	1.0000e-05	PASS
strain_energy	4.2919e-13	<=	1.0000e-06	PASS
support_reaction	7.5305e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3923e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_184_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.9765e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.5768e-12	<=	1.0000e-05	PASS
strain_energy	3.8932e-12	<=	1.0000e-06	PASS
support_reaction	4.3261e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.7260e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_185_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1030e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0335e-11	<=	1.0000e-05	PASS
strain_energy	1.6745e-11	<=	1.0000e-06	PASS
support_reaction	4.2429e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	2.4108e-10	<=	1.0000e-06	PASS
metal_published_residual	9.2425e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_186_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.9285e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.1689e-13	<=	1.0000e-05	PASS
strain_energy	1.8365e-12	<=	1.0000e-06	PASS
support_reaction	1.8669e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.3428e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_187_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.9526e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.8332e-10	<=	1.0000e-05	PASS
strain_energy	8.0394e-11	<=	1.0000e-06	PASS
support_reaction	4.3817e-10	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.6187e-09	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.5089e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_188_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.7398e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.8523e-08	<=	1.0000e-05	PASS
strain_energy	8.8452e-12	<=	1.0000e-06	PASS
support_reaction	2.8732e-09	<=	1.0000e-05	PASS
contact_force	2.7183e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.1317e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_189_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.6299e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3510e-08	<=	1.0000e-05	PASS
strain_energy	2.7221e-10	<=	1.0000e-06	PASS
support_reaction	2.8307e-09	<=	1.0000e-05	PASS
contact_force	2.3767e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.5682e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_190_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1634e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.2152e-09	<=	1.0000e-05	PASS
strain_energy	4.7086e-11	<=	1.0000e-06	PASS
support_reaction	1.0467e-09	<=	1.0000e-05	PASS
contact_force	2.6802e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.2221e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_191_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.4905e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.6202e-08	<=	1.0000e-05	PASS
strain_energy	6.7636e-11	<=	1.0000e-06	PASS
support_reaction	1.6390e-08	<=	1.0000e-05	PASS
contact_force	9.1747e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.0611e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_192_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.7956e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.6401e-11	<=	1.0000e-05	PASS
strain_energy	1.0347e-11	<=	1.0000e-06	PASS
support_reaction	3.0191e-10	<=	1.0000e-05	PASS
contact_force	1.7981e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2408e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_193_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.5394e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.3158e-13	<=	1.0000e-05	PASS
strain_energy	1.4283e-12	<=	1.0000e-06	PASS
support_reaction	1.9644e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.2170e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_194_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.1598e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2198e-12	<=	1.0000e-05	PASS
strain_energy	1.5071e-14	<=	1.0000e-06	PASS
support_reaction	2.1051e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.1199e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_195_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2510e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1617e-12	<=	1.0000e-05	PASS
strain_energy	2.2306e-12	<=	1.0000e-06	PASS
support_reaction	2.7591e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6597e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_196_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.0259e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.8835e-12	<=	1.0000e-05	PASS
strain_energy	5.6120e-13	<=	1.0000e-06	PASS
support_reaction	7.3935e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.1730e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_197_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0117e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.7389e-13	<=	1.0000e-05	PASS
strain_energy	1.9361e-12	<=	1.0000e-06	PASS
support_reaction	3.6004e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.2274e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_198_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1919e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0277e-11	<=	1.0000e-05	PASS
strain_energy	1.6185e-11	<=	1.0000e-06	PASS
support_reaction	7.0959e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	1.7833e-10	<=	1.0000e-06	PASS
metal_published_residual	9.5112e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_199_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.5845e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.9079e-12	<=	1.0000e-05	PASS
strain_energy	9.2378e-12	<=	1.0000e-06	PASS
support_reaction	1.6617e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	2.1946e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.7443e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_200_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.9219e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3189e-12	<=	1.0000e-05	PASS
strain_energy	2.0582e-13	<=	1.0000e-06	PASS
support_reaction	1.1050e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.1786e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_201_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8771e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8390e-08	<=	1.0000e-05	PASS
strain_energy	1.1109e-11	<=	1.0000e-06	PASS
support_reaction	5.3082e-09	<=	1.0000e-05	PASS
contact_force	8.4571e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.2644e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_202_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.2164e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.3388e-09	<=	1.0000e-05	PASS
strain_energy	3.4962e-11	<=	1.0000e-06	PASS
support_reaction	4.0195e-10	<=	1.0000e-05	PASS
contact_force	9.2247e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.2512e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_203_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2288e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.3205e-08	<=	1.0000e-05	PASS
strain_energy	2.9240e-10	<=	1.0000e-06	PASS
support_reaction	1.5089e-08	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	3.7395e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.8129e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_204_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1752e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5489e-08	<=	1.0000e-05	PASS
strain_energy	8.3054e-11	<=	1.0000e-06	PASS
support_reaction	9.4788e-09	<=	1.0000e-05	PASS
contact_force	3.1592e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.6767e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_205_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4021e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3799e-10	<=	1.0000e-05	PASS
strain_energy	6.7506e-12	<=	1.0000e-06	PASS
support_reaction	4.1747e-10	<=	1.0000e-05	PASS
contact_force	3.9251e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5876e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_206_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.9528e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.6832e-12	<=	1.0000e-05	PASS
strain_energy	5.0498e-12	<=	1.0000e-06	PASS
support_reaction	3.8621e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.7199e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_207_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	9.0463e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.3469e-12	<=	1.0000e-05	PASS
strain_energy	9.3922e-13	<=	1.0000e-06	PASS
support_reaction	1.0857e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.5538e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_208_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.5033e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.0356e-11	<=	1.0000e-05	PASS
strain_energy	1.2046e-10	<=	1.0000e-06	PASS
support_reaction	9.9920e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3137e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_209_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8889e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.3481e-12	<=	1.0000e-05	PASS
strain_energy	1.1259e-12	<=	1.0000e-06	PASS
support_reaction	1.9088e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.6788e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_210_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3569e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.5586e-12	<=	1.0000e-05	PASS
strain_energy	1.9580e-11	<=	1.0000e-06	PASS
support_reaction	1.9655e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.6896e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_211_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.5559e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.4737e-12	<=	1.0000e-05	PASS
strain_energy	1.8305e-11	<=	1.0000e-06	PASS
support_reaction	1.8550e-11	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	1.8553e-10	<=	1.0000e-06	PASS
metal_published_residual	1.0989e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_212_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.5008e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.9081e-13	<=	1.0000e-05	PASS
strain_energy	9.0412e-13	<=	1.0000e-06	PASS
support_reaction	5.6341e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.2561e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_213_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1720e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.7214e-10	<=	1.0000e-05	PASS
strain_energy	6.3804e-12	<=	1.0000e-06	PASS
support_reaction	7.7228e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	3.0089e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.8417e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_214_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8253e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.3816e-08	<=	1.0000e-05	PASS
strain_energy	5.3812e-12	<=	1.0000e-06	PASS
support_reaction	5.3252e-09	<=	1.0000e-05	PASS
contact_force	2.6947e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0738e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_215_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.7555e-07	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6289e-07	<=	1.0000e-05	PASS
strain_energy	1.5078e-09	<=	1.0000e-06	PASS
support_reaction	2.6267e-08	<=	1.0000e-05	PASS
contact_force	8.1329e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.9021e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_216_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3988e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.9446e-08	<=	1.0000e-05	PASS
strain_energy	6.8228e-10	<=	1.0000e-06	PASS
support_reaction	1.4382e-08	<=	1.0000e-05	PASS
contact_force	1.7979e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.7456e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_217_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	7.3633e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	9.0480e-08	<=	1.0000e-05	PASS
strain_energy	9.7251e-11	<=	1.0000e-06	PASS
support_reaction	6.4787e-09	<=	1.0000e-05	PASS
contact_force	2.6796e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.9580e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_218_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.7824e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.7385e-10	<=	1.0000e-05	PASS
strain_energy	1.0176e-11	<=	1.0000e-06	PASS
support_reaction	5.0419e-10	<=	1.0000e-05	PASS
contact_force	2.6974e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5908e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_219_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.9379e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6041e-12	<=	1.0000e-05	PASS
strain_energy	3.0072e-12	<=	1.0000e-06	PASS
support_reaction	2.6764e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.1523e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_220_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.4204e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.4587e-13	<=	1.0000e-05	PASS
strain_energy	4.2305e-13	<=	1.0000e-06	PASS
support_reaction	3.0692e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0844e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_221_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0369e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1034e-13	<=	1.0000e-05	PASS
strain_energy	3.0043e-14	<=	1.0000e-06	PASS
support_reaction	4.2331e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.8972e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_222_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.2651e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2281e-12	<=	1.0000e-05	PASS
strain_energy	1.1031e-12	<=	1.0000e-06	PASS
support_reaction	2.0381e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.5033e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_223_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.4914e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.4488e-11	<=	1.0000e-05	PASS
strain_energy	1.3053e-10	<=	1.0000e-06	PASS
support_reaction	2.4622e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.2010e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_224_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.2161e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1299e-10	<=	1.0000e-05	PASS
strain_energy	1.9163e-10	<=	1.0000e-06	PASS
support_reaction	4.0690e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	3.0247e-10	<=	1.0000e-06	PASS
metal_published_residual	8.6118e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_225_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.6285e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7090e-13	<=	1.0000e-05	PASS
strain_energy	1.6604e-13	<=	1.0000e-06	PASS
support_reaction	3.9301e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2229e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_226_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8250e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5756e-12	<=	1.0000e-05	PASS
strain_energy	2.2977e-12	<=	1.0000e-06	PASS
support_reaction	3.0118e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0746e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_227_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.0124e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.4904e-08	<=	1.0000e-05	PASS
strain_energy	2.5979e-12	<=	1.0000e-06	PASS
support_reaction	4.1166e-09	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	3.5631e-13	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0174e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_228_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.7693e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	6.7566e-08	<=	1.0000e-05	PASS
strain_energy	2.3577e-10	<=	1.0000e-06	PASS
support_reaction	6.6185e-09	<=	1.0000e-05	PASS
contact_force	6.4860e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.7750e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_229_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5394e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.6989e-08	<=	1.0000e-05	PASS
strain_energy	6.3105e-11	<=	1.0000e-06	PASS
support_reaction	1.3027e-08	<=	1.0000e-05	PASS
contact_force	2.2238e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	5.6396e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_230_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.3284e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5157e-08	<=	1.0000e-05	PASS
strain_energy	2.9574e-10	<=	1.0000e-06	PASS
support_reaction	1.4819e-09	<=	1.0000e-05	PASS
contact_force	5.6317e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.9653e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_231_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.7254e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6884e-10	<=	1.0000e-05	PASS
strain_energy	9.8718e-12	<=	1.0000e-06	PASS
support_reaction	4.9235e-10	<=	1.0000e-05	PASS
contact_force	2.7595e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.5971e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_232_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.2188e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.1547e-12	<=	1.0000e-05	PASS
strain_energy	1.9056e-12	<=	1.0000e-06	PASS
support_reaction	4.8528e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	9.7428e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_233_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.3377e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5708e-12	<=	1.0000e-05	PASS
strain_energy	1.3858e-12	<=	1.0000e-06	PASS
support_reaction	2.9640e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.1826e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_234_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1506e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.0890e-11	<=	1.0000e-05	PASS
strain_energy	2.1318e-11	<=	1.0000e-06	PASS
support_reaction	1.2454e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.2943e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_235_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.5253e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.8171e-12	<=	1.0000e-05	PASS
strain_energy	6.9627e-13	<=	1.0000e-06	PASS
support_reaction	1.4147e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.1237e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_236_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.6522e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.8627e-11	<=	1.0000e-05	PASS
strain_energy	2.2953e-11	<=	1.0000e-06	PASS
support_reaction	7.3285e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.1648e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_237_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.9816e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.4064e-12	<=	1.0000e-05	PASS
strain_energy	1.0260e-12	<=	1.0000e-06	PASS
support_reaction	2.8964e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	1.9594e-10	<=	1.0000e-06	PASS
metal_published_residual	6.7779e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_238_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.5883e-14	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5331e-14	<=	1.0000e-05	PASS
strain_energy	6.4402e-14	<=	1.0000e-06	PASS
support_reaction	3.9861e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	3.0485e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_239_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	6.7381e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1358e-10	<=	1.0000e-05	PASS
strain_energy	3.3338e-11	<=	1.0000e-06	PASS
support_reaction	1.0695e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.2639e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.1092e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_240_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.7333e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.1129e-07	<=	1.0000e-05	PASS
strain_energy	5.4657e-12	<=	1.0000e-06	PASS
support_reaction	1.8442e-08	<=	1.0000e-05	PASS
contact_force	3.1315e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.4712e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_241_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.3043e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.2947e-08	<=	1.0000e-05	PASS
strain_energy	1.4946e-09	<=	1.0000e-06	PASS
support_reaction	1.7915e-08	<=	1.0000e-05	PASS
contact_force	4.2481e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.5226e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_242_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4695e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.7368e-08	<=	1.0000e-05	PASS
strain_energy	1.8952e-10	<=	1.0000e-06	PASS
support_reaction	1.5014e-08	<=	1.0000e-05	PASS
contact_force	1.5184e-10	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.7689e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_243_body_stack_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.1081e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.7846e-08	<=	1.0000e-05	PASS
strain_energy	8.9187e-11	<=	1.0000e-06	PASS
support_reaction	4.6557e-09	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	6.1256e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.0878e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_244_self_contact_slot · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6404e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.6159e-10	<=	1.0000e-05	PASS
strain_energy	9.4267e-12	<=	1.0000e-06	PASS
support_reaction	4.7871e-10	<=	1.0000e-05	PASS
contact_force	2.8601e-09	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	6.6335e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_245_svk_voids · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.3190e-10	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.9818e-10	<=	1.0000e-05	PASS
strain_energy	9.9089e-10	<=	1.0000e-06	PASS
support_reaction	8.7884e-10	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.3460e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_246_arc_length_svk_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.8547e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8818e-12	<=	1.0000e-05	PASS
strain_energy	1.6972e-12	<=	1.0000e-06	PASS
support_reaction	1.5406e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.3157e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_247_svk_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	4.1088e-11	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	3.8413e-11	<=	1.0000e-05	PASS
strain_energy	7.6735e-11	<=	1.0000e-06	PASS
support_reaction	6.1789e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	1.0073e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_248_neo_hookean_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.4682e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.1085e-13	<=	1.0000e-05	PASS
strain_energy	2.1045e-13	<=	1.0000e-06	PASS
support_reaction	6.2369e-13	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	4.6652e-14	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_249_mooney_rivlin_nine_mode_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.4090e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	1.2408e-12	<=	1.0000e-05	PASS
strain_energy	2.3492e-12	<=	1.0000e-06	PASS
support_reaction	4.2937e-12	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0664e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_250_mixed_incompressible_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	5.5088e-12	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.2041e-12	<=	1.0000e-05	PASS
strain_energy	1.0935e-11	<=	1.0000e-06	PASS
support_reaction	7.3641e-11	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	3.2120e-11	<=	1.0000e-06	PASS
metal_published_residual	2.7513e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_251_j2_linear_cantilever · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.7506e-13	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	8.4738e-13	<=	1.0000e-05	PASS
strain_energy	1.2172e-12	<=	1.0000e-06	PASS
support_reaction	1.2487e-12	<=	1.0000e-05	PASS

Gate	Observed	Cmp	Limit	Disposition
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	1.3517e-10	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	5.0386e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_252_j2_voce_block · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.0489e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.5858e-09	<=	1.0000e-05	PASS
strain_energy	5.7563e-10	<=	1.0000e-06	PASS
support_reaction	2.6078e-09	<=	1.0000e-05	PASS
contact_force	0	<=	1.0000e-06	PASS
plastic_strain	3.2782e-09	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.8725e-09	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_253_plane_contact_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	3.6713e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.8675e-08	<=	1.0000e-05	PASS
strain_energy	4.3908e-12	<=	1.0000e-06	PASS
support_reaction	8.1102e-09	<=	1.0000e-05	PASS
contact_force	4.4006e-12	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.2750e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_254_plane_contact_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	8.6620e-08	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	7.9659e-08	<=	1.0000e-05	PASS
strain_energy	7.2500e-10	<=	1.0000e-06	PASS
support_reaction	6.3510e-09	<=	1.0000e-05	PASS
contact_force	5.7958e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.0438e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_seed_255_body_stack_frictionless · PASS

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.1506e-09	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	2.1810e-09	<=	1.0000e-05	PASS
strain_energy	3.7991e-11	<=	1.0000e-06	PASS
support_reaction	1.0089e-09	<=	1.0000e-05	PASS
contact_force	1.3663e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	2.4649e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

l7_summary · PASS

Gate	Observed	Cmp	Limit	Disposition
seeds	256	>=	256	PASS
failed_seeds	0	==	0	PASS
families_covered	13	>=	13	PASS

l8_origin_stl_ascii_offset_0.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_1.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-1.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_10.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-10.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_100.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-100.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_1000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-1000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_10000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-10000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_100000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-100000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_1000000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_ascii_offset_-1000000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS

l8_origin_stl_binary_offset_0.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_1.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_-1.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_10.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_-10.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_100.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_-100.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_1000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_-1000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_10000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_-10000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_100000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_-100000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	0	<=	0	PASS
origin_part_frame_recorded	1	==	1	PASS
origin_imports_only_with_a_solid	1	==	1	PASS
origin_float32_disclosure	1	==	1	PASS

l8_origin_stl_binary_offset_1000000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_refusal_named	1	==	1	PASS
origin_refusal_only_without_a_solid	1	==	1	PASS

l8_origin_stl_binary_offset_-1000000.0 · PASS

Gate	Observed	Cmp	Limit	Disposition
origin_refusal_named	1	==	1	PASS
origin_refusal_only_without_a_solid	1	==	1	PASS

l8_law_neo_hookean_with_rigid_stop · PASS

Gate	Observed	Cmp	Limit	Disposition
preflight_not_blocking	1	==	1	PASS
product_full_load	1	==	1	PASS
product_equilibrium	7.4861e-13	<=	1.0000e-06	PASS
product_vs_engine_displacement	1.4844e-11	<=	1.0000e-06	PASS
product_vs_engine_von_mises	9.9356e-12	<=	1.0000e-05	PASS
product_metal_backend	1	==	1	PASS
product_packaged	1	==	1	PASS
product_no_runtime_compilation	1	==	1	PASS
product_library_source	1	==	1	PASS

l8_law_j2_plasticity · PASS

Gate	Observed	Cmp	Limit	Disposition
preflight_not_blocking	1	==	1	PASS
product_full_load	1	==	1	PASS
product_equilibrium	1.3494e-10	<=	1.0000e-06	PASS
product_vs_engine_displacement	7.5985e-11	<=	1.0000e-06	PASS
product_vs_engine_von_mises	8.1889e-11	<=	1.0000e-05	PASS
product_metal_backend	1	==	1	PASS
product_packaged	1	==	1	PASS
product_no_runtime_compilation	1	==	1	PASS
product_library_source	1	==	1	PASS

l8_law_mooney_rivlin_nine_mode · PASS

Gate	Observed	Cmp	Limit	Disposition
preflight_not_blocking	1	==	1	PASS
product_full_load	1	==	1	PASS
product_equilibrium	2.5076e-10	<=	1.0000e-06	PASS
product_vs_engine_displacement	4.7310e-11	<=	1.0000e-06	PASS
product_vs_engine_von_mises	1.1931e-10	<=	1.0000e-05	PASS
product_metal_backend	1	==	1	PASS
product_packaged	1	==	1	PASS

Gate	Observed	Cmp	Limit	Disposition
product_no_runtime_compilation	1	==	1	PASS
product_library_source	1	==	1	PASS

I8_law_incompressible_mooney_rivlin_primitive_domain · PASS

Gate	Observed	Cmp	Limit	Disposition
preflight_not_blocking	1	==	1	PASS
product_full_load	1	==	1	PASS
product_equilibrium	5.0973e-10	<=	1.0000e-06	PASS
product_vs_engine_displacement	2.6620e-12	<=	1.0000e-06	PASS
product_vs_engine_von_mises	5.3520e-11	<=	1.0000e-05	PASS
product_metal_backend	1	==	1	PASS
product_packaged	1	==	1	PASS
product_no_runtime_compilation	1	==	1	PASS
product_library_source	1	==	1	PASS

I8_incompressible_law_on_imported_voided_grid_refuses · PASS

Gate	Observed	Cmp	Limit	Disposition
typed_failure	1	==	1	PASS
typed_failure_names_cause	1	==	1	PASS

I8_save_reload_resolve · PASS

Gate	Observed	Cmp	Limit	Disposition
reloaded_study_equal	1	==	1	PASS
reloaded_solve_difference	0	<=	1.0000e-12	PASS
reloaded_solve_bitwise	1	==	1	PASS

I8_refuses_invalid_settings_in_preflight · PASS

Gate	Observed	Cmp	Limit	Disposition
typed_failure	1	==	1	PASS
typed_failure_names_cause	1	==	1	PASS

I8_arc_length_on_imported_voided_grid · PASS

Gate	Observed	Cmp	Limit	Disposition
published_or_typed	1	==	1	PASS

I8_refuses_to_publish_below_full_load · PASS

Gate	Observed	Cmp	Limit	Disposition
typed_failure	1	==	1	PASS
typed_failure_names_cause	1	==	1	PASS

l8_refuses_a_corrupt_library · PASS

Gate	Observed	Cmp	Limit	Disposition
typed_failure	1	==	1	PASS
typed_failure_names_cause	1	==	1	PASS

l8_refuses_beyond_the_memory_budget · PASS

Gate	Observed	Cmp	Limit	Disposition
typed_failure	1	==	1	PASS
typed_failure_names_cause	1	==	1	PASS

l8_cancellation_mid_solve · PASS

Gate	Observed	Cmp	Limit	Disposition
typed_failure	1	==	1	PASS
typed_failure_names_cause	1	==	1	PASS

l8_product_checkpoint_restart · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition

l8_product_publishes_element_pressure · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition

l8_product_publishes_contact_state · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition

l9_non_finite_load · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_density_count_mismatch · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_constraint_count_mismatch · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_negative_modulus · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_compressible_law_at_nu_one_half · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_zero_element_size · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_negative_yield_stress · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_mooney_rivlin_beyond_its_poisson_cap · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_contact_plane_normal_not_unit · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_negative_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_contact_pair_names_a_missing_body · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_invalid_settings · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_invalid_arc_length_settings · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_no_supports · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_disconnected_loaded_body · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_load_control_past_a_limit_point · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_initial_penetration_beyond_the_limit · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_shear_beyond_the_coulomb_capacity · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_cutback_exhaustion · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_memory_budget_below_the_model · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_restart_from_another_mesh · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

I9_missing_materials_library · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
no_cpu_fallback_answer	1	==	1	PASS

I9_missing_tangent_library · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
no_cpu_fallback_answer	1	==	1	PASS

l9_corrupt_materials_library · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_typed	1	==	1	PASS
refusal_names_cause	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
no_cpu_fallback_answer	1	==	1	PASS

l9_cancellation_before_the_solve · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_cancellation_mid_solve · PASS

Gate	Observed	Cmp	Limit	Disposition
refused	1	==	1	PASS
refusal_names_cause	1	==	1	PASS

l9_control_the_same_model_solves · PASS

Gate	Observed	Cmp	Limit	Disposition
control_solves	1	==	1	PASS
control_residual	9.7369e-11	<=	1.0000e-10	PASS

l10_frictional_stack_8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.1008	<=	1	PASS
equilibrium_at_scale	3.8738e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
same_answer_as_cpu_baseline	2.4137e-08	<=	1.0000e-05	PASS

l10_frictional_stack_16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.08975	<=	1	PASS
equilibrium_at_scale	5.1344e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
same_answer_as_cpu_baseline	1.6362e-08	<=	1.0000e-05	PASS

l10_frictional_stack_32x32 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.08229	<=	1	PASS
equilibrium_at_scale	1.2532e-11	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS

l10_mixed_up_cantilever_16x4x4 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.4218	<=	1	PASS
equilibrium_at_scale	9.7185e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
same_answer_as_cpu_baseline	1.8496e-10	<=	1.0000e-05	PASS

l10_nine_mode_mr_cantilever_16x4x4 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.06288	<=	1	PASS
equilibrium_at_scale	4.1437e-13	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
same_answer_as_cpu_baseline	3.5495e-12	<=	1.0000e-05	PASS

l10_mixed_up_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.2858	<=	1	PASS
equilibrium_at_scale	4.4261e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
same_answer_as_cpu_baseline	1.1083e-09	<=	1.0000e-05	PASS

l10_nine_mode_mr_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.1457	<=	1	PASS
equilibrium_at_scale	3.6426e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
same_answer_as_cpu_baseline	2.2732e-11	<=	1.0000e-05	PASS

l10_mixed_up_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.1765	<=	1	PASS
equilibrium_at_scale	6.0631e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS

l10_nine_mode_mr_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
warm_repeats_bitwise	1	==	1	PASS
published_residual	0.4342	<=	1	PASS
equilibrium_at_scale	2.9735e-12	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS

l11_infsup_local_jump · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
infsup_uniformity	1	>=	0.9	PASS

l11_stabilised_bending_constraint · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
stabilised_constraint_residual	9.9000e-11	<=	1.0000e-10	PASS

l11_mixed_16384_rung · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
mixed_16384_rung_solved	1	==	1	PASS
mixed_metal_vs_cpu	0	<=	1.0000e-08	PASS

l11_kappa_2000 · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
kappa_2000_solved	1	==	1	PASS
kappa_2000_vs_kappa_20	2.0679e-09	<=	1.0000e-08	PASS

l11_compression_onset · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
compression_onset_monotone	1	==	1	PASS
compression_onsets_close	1	==	1	PASS

l11_structural_snap_through · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
snap_past_limit	28	>=	3	PASS
snap_limit_points	1	==	1	PASS
snap_elastica_within_conditioning	1	==	1	PASS

l11_arc_length_contact · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_contact_vs_load_control	2.5600e-08	<=	1.0000e-06	PASS

l11_arc_length_mixed_element · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_mixed_stretch_error	3.0770e-12	<=	1.0000e-10	PASS

l11_arc_length_metal · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_metal_vs_cpu	1.8000e-10	<=	1.0000e-06	PASS
arc_metal_device_resident	1	==	1	PASS

l11_arc_length_multigrid · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
arc_preconditioner_matches_load_control	1	==	1	PASS

l11_self_contact · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
self_contact_newton	110	<=	202	PASS
self_contact_vs_facet	1.5900e-07	<=	1.0000e-06	PASS
self_contact_tangent_fd	3.5700e-06	<=	1.0000e-05	PASS

l11_two_body_curved · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
two_body_balance	2.0000e-11	<=	1.0000e-06	PASS
two_body_flat_punch	1	==	1	PASS

l11_hertz_rigid_sphere · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
hertz_balance	1.8000e-12	<=	1.0000e-06	PASS
hertz_radius_bracketed	1	==	1	PASS
hertz_centre_pressure_fine	0.0175	<=	0.05	PASS
hertz_centre_pressure_converging	1	==	1	PASS
curved_tangent_fd	5.1600e-07	<=	1.0000e-06	PASS

l11_dynamics · NOT_SUPPORTED

Gate	Observed	Cmp	Limit	Disposition

l11_dynamics_fails_closed · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_viscoelastic · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
viscoelastic_closed_form	8.8000e-08	<=	1.0000e-06	PASS
viscoelastic_rate_dependent	1	==	1	PASS

l11_fibre · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
fibre_closed_form	0	<=	1.0000e-09	PASS

l11_j2_multiplicative · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
j2_multiplicative_uniaxial_flow	5.0000e-04	<=	0.001	PASS
j2_multiplicative_yield_residual	4.9100e-11	<=	1.0000e-09	PASS
j2_multiplicative_tangent_fd	1.3100e-08	<=	1.0000e-06	PASS
j2_multiplicative_metal_vs_cpu	2.7300e-11	<=	1.0000e-09	PASS

l11_resume_engine · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
resume_bitwise	1	==	1	PASS

l11_resume_product · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_product_outputs · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_origin_obj · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_3mf · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_amf · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_gltf · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_step-xde · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_step-legacy · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_step_kernel · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_iges_native · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
origin	1	==	1	PASS

l11_origin_alignment_proof · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_thin_feature_advisory · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_diagnostics · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS

l11_validation_infrastructure · PASS

Gate	Observed	Cmp	Limit	Disposition
tests_passed	1	==	1	PASS
validation_not_claimed	1	==	1	PASS

l11_step_corpus · PASS

Gate	Observed	Cmp	Limit	Disposition
step_corpus_accepted	107	>=	107	PASS
step_helper_field_differences	0	==	0	PASS

l11_ladder_svk_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	2.1896e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	6.3331e-12	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	2.5032e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_96x24x24 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.4081e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_128x32x32 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.2796e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_svk_cantilever_160x40x40 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	4.0585e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_16x4x4 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.5465e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	2.8195e-11	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.3670e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	4.8596e-10	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	1.0019e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_mixed_local_jump_cantilever_96x24x24 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	1.2705e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_j2_multiplicative_cantilever_32x8x8 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	2.8776e-09	<=	1.0000e-08	PASS
ladder_metal_vs_cpu	8.2483e-12	<=	1.0000e-06	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_j2_multiplicative_cantilever_64x16x16 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	3.6735e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_ladder_j2_multiplicative_cantilever_128x32x32 · PASS

Gate	Observed	Cmp	Limit	Disposition
ladder_rung_solved	1	==	1	PASS
ladder_packaged_metallib	1	==	1	PASS
ladder_no_runtime_compilation	1	==	1	PASS
ladder_published_residual	4.8960e-09	<=	1.0000e-08	PASS
ladder_warm_repeat_bitwise	1	==	1	PASS

l11_full_suite · PASS

Gate	Observed	Cmp	Limit	Disposition
full_suite_executed	5426	>=	1000	PASS
full_suite_unexplained_failures	0	==	0	PASS
full_suite_unjustified_skips	0	==	0	PASS

v4:r0_published_evidence_still_verifies · PASS

Gate	Observed	Cmp	Limit	Disposition
manifest_files_mismatched	0	<=	0	PASS
manifest_files_unaccounted_for	0	<=	0	PASS
manifest_files_rehashed	197	>	0	PASS
summary_recount_mismatches	0	<=	0	PASS
published_fail_partial_notrun	0	<=	0	PASS

v4:r1_headline_claims_reproduce · PASS

Gate	Observed	Cmp	Limit	Disposition
claims_missing_their_own_published_limit	0	<=	0	PASS

v4:r2_nl4_speed_table_is_superseded · PASS

Gate	Observed	Cmp	Limit	Disposition
the_shipped_defaults_are_the_nl5_ones	1	==	1	PASS
conditioning_change_same_equilibrium	0	<=	1.0000e-07	PASS
conditioning_change_same_bearing_set	1	==	1	PASS
conditioning_change_bitwise_repeats	1	==	1	PASS
published_residual_after_the_change	9.0745e-10	<=	1.0000e-08	PASS

v4:e0_zero_state_equals_the_verified_linear_hexa8 · PASS

Gate	Observed	Cmp	Limit	Disposition
zero_state_equals_linear_hexa8	1.7155e-16	<=	1.0000e-10	PASS
tangent_symmetry	1.1967e-16	<=	1.0000e-11	PASS

v4:e1_tangent_rank_and_null_space_at_rest · PASS

Gate	Observed	Cmp	Limit	Disposition
smallest_eigenvalue_ratio	5.9910e-18	>=	-1.0000e-12	PASS
translations_are_exactly_null	6.1175e-17	<=	1.0000e-12	PASS
rotations_satisfy_K_r_equals_omega_cross_f	6.0427e-18	<=	1.0000e-12	PASS
tangent_symmetry	1.1967e-16	<=	1.0000e-11	PASS
null_space_dimension	6	==	6	PASS
rank	18	==	18	PASS
rigid_mode_force_ratio	3.8572e-17	<=	1.0000e-12	PASS

v4:e1_tangent_rank_and_null_space_deformed · PASS

Gate	Observed	Cmp	Limit	Disposition
smallest_eigenvalue_ratio	-2.9183e-17	>=	-1.0000e-12	PASS
translations_are_exactly_null	6.4666e-17	<=	1.0000e-12	PASS
rotations_satisfy_K_r_equals_omega_cross_f	7.2410e-17	<=	1.0000e-12	PASS
tangent_symmetry	2.2722e-16	<=	1.0000e-11	PASS

v4:e2_objectivity_of_every_law · PASS

Gate	Observed	Cmp	Limit	Disposition
stvk_force_corotates	8.3548e-14	<=	1.0000e-11	PASS
stvk_energy_invariant	6.2445e-14	<=	1.0000e-11	PASS
neo_hookean_force_corotates	4.8141e-15	<=	1.0000e-11	PASS
neo_hookean_energy_invariant	1.6650e-15	<=	1.0000e-11	PASS
mooney_rivlin_force_corotates	5.1888e-15	<=	1.0000e-11	PASS
mooney_rivlin_energy_invariant	1.5178e-15	<=	1.0000e-11	PASS
j2_force_corotates	1.0139e-13	<=	1.0000e-11	PASS

Gate	Observed	Cmp	Limit	Disposition
j2_energy_invariant	7.4736e-14	<=	1.0000e-11	PASS

v4:e3_patch_states_rotated_and_unrotated · PASS

Gate	Observed	Cmp	Limit	Disposition
extension_strain	5.7564e-14	<=	1.0000e-13	PASS
extension_stress	5.7715e-14	<=	1.0000e-13	PASS
extension_energy	1.1552e-13	<=	1.0000e-11	PASS
extension_rotated_strain	4.8475e-14	<=	1.0000e-12	PASS
extension_rotated_stress	4.3124e-14	<=	1.0000e-12	PASS
extension_rotated_energy	2.8253e-14	<=	1.0000e-11	PASS
compression_strain	3.0838e-14	<=	1.0000e-13	PASS
compression_stress	3.0802e-14	<=	1.0000e-13	PASS
compression_energy	6.1634e-14	<=	1.0000e-11	PASS
compression_rotated_strain	9.2658e-14	<=	1.0000e-12	PASS
compression_rotated_stress	7.0715e-14	<=	1.0000e-12	PASS
compression_rotated_energy	5.6014e-14	<=	1.0000e-11	PASS
simple_shear_strain	2.2204e-14	<=	1.0000e-13	PASS
simple_shear_stress	6.7028e-14	<=	1.0000e-13	PASS
simple_shear_energy	2.2733e-16	<=	1.0000e-11	PASS
simple_shear_rotated_strain	3.9378e-14	<=	1.0000e-12	PASS
simple_shear_rotated_stress	1.1684e-13	<=	1.0000e-12	PASS
simple_shear_rotated_energy	3.4440e-14	<=	1.0000e-11	PASS
biaxial_strain	3.6230e-14	<=	1.0000e-13	PASS
biaxial_stress	5.6612e-14	<=	1.0000e-13	PASS
biaxial_energy	8.2856e-16	<=	1.0000e-11	PASS
biaxial_rotated_strain	7.3904e-14	<=	1.0000e-12	PASS
biaxial_rotated_stress	1.2221e-13	<=	1.0000e-12	PASS
biaxial_rotated_energy	3.8321e-14	<=	1.0000e-11	PASS
volumetric_strain	9.1826e-14	<=	1.0000e-13	PASS
volumetric_stress	9.1819e-14	<=	1.0000e-13	PASS
volumetric_energy	1.8369e-13	<=	1.0000e-11	PASS
volumetric_rotated_strain	1.3306e-13	<=	1.0000e-12	PASS
volumetric_rotated_stress	6.8198e-14	<=	1.0000e-12	PASS
volumetric_rotated_energy	3.1304e-14	<=	1.0000e-11	PASS

v4:m0_the_laws_are_their_own_gradients · PASS

Gate	Observed	Cmp	Limit	Disposition
stvk_stress_is_energy_gradient	1.8076e-11	<=	1.0000e-06	PASS
stvk_tangent_is_stress_gradient	2.1295e-11	<=	1.0000e-06	PASS
stvk_tangent_major_symmetry	0	<=	1.0000e-12	PASS
neo_hookean_stress_is_energy_gradient	2.8888e-08	<=	1.0000e-06	PASS
neo_hookean_tangent_is_stress_gradient	4.3214e-10	<=	1.0000e-06	PASS
neo_hookean_tangent_major_symmetry	1.4747e-16	<=	1.0000e-12	PASS

Gate	Observed	Cmp	Limit	Disposition
mooney_rivlin_stress_is_energy_gradient	1.8871e-08	<=	1.0000e-06	PASS
mooney_rivlin_tangent_is_stress_gradient	4.7873e-10	<=	1.0000e-06	PASS
mooney_rivlin_tangent_major_symmetry	1.7753e-16	<=	1.0000e-12	PASS
j2_tangent_is_stress_gradient	1.5744e-10	<=	1.0000e-06	PASS
j2_tangent_major_symmetry	6.0941e-17	<=	1.0000e-12	PASS
j2_yielding_states_seen	12	>	0	PASS
j2_elastic_states_seen	12	>	0	PASS

v4:m1_closed_forms · PASS

Gate	Observed	Cmp	Limit	Disposition
neo_hookean_simple_shear_gamma_0.01	2.3305e-12	<=	1.0000e-10	PASS
mooney_rivlin_simple_shear_gamma_0.01	2.3306e-12	<=	1.0000e-10	PASS
neo_hookean_simple_shear_gamma_0.05	2.1391e-14	<=	1.0000e-10	PASS
mooney_rivlin_simple_shear_gamma_0.05	5.6934e-14	<=	1.0000e-10	PASS
neo_hookean_simple_shear_gamma_0.2	6.7909e-16	<=	1.0000e-10	PASS
mooney_rivlin_simple_shear_gamma_0.2	9.0949e-16	<=	1.0000e-10	PASS
stvk_uniaxial_strain_0.001	2.2139e-16	<=	1.0000e-10	PASS
stvk_uniaxial_strain_0.01	0	<=	1.0000e-10	PASS
j2_pure_shear_yielded	1	==	1	PASS
j2_pure_shear_stress	1.1944e-15	<=	1.0000e-10	PASS

v4:m2_loading_unloading_and_reversal · PASS

Gate	Observed	Cmp	Limit	Disposition
stress_returns_to_the_yield_surface	4.4016e-16	<=	1.0000e-12	PASS
plastic_flow_is_isochoric	0	<=	1.0000e-12	PASS
equivalent_plastic_strain_never_decreases	1	==	1	PASS
unloading_from_the_peak_is_elastic	1	==	1	PASS
the_cycle_actually_yielded	0.02171	>	0	PASS
reverse_yielding_starts_where_the_closed_form_says	1	==	1	PASS

v4:m3_voce_saturation_hardening · PASS

Gate	Observed	Cmp	Limit	Disposition
voce_curve_closed_form	0	<=	1.0000e-12	PASS
voce_slope_closed_form	0	<=	1.0000e-12	PASS
voce_saturates_as_a_slope_property	1	==	1	PASS
voce_branch_actually_yielded	15	>	0	PASS
voce_accumulated_plastic_strain	0.01588	>	0	PASS

v4:m4_rejected_work_never_reaches_the_committed_history · PASS

Gate	Observed	Cmp	Limit	Disposition
a_rejected_trial_leaves_the_stress_bitwise_identical	1	==	1	PASS
a_rejected_trial_leaves_the_tangent_bitwise_identical	1	==	1	PASS
a_rejected_trial_leaves_the_trial_history_bitwise_identical	1	==	1	PASS
the_enhanced_mode_amplitudes_are_not_history	1	==	1	PASS
the_forced_schedule_really_cut_back_or_backtracked	1	>	0	PASS
the_same_equilibrium_is_reached	2.5528e-11	<=	1.0000e-06	PASS

v4:c0_the_forcing_is_independent_and_correct · PASS

Gate	Observed	Cmp	Limit	Disposition
forcing_against_finite_difference	1.0611e-12	<=	1.0000e-07	PASS
quadrature_refinement	4.7068e-11	<=	1.0000e-10	PASS

v4:c1_displacement_l2_converges · PASS

Gate	Observed	Cmp	Limit	Disposition
grid_count	6	>=	5	PASS
every_level_was_measured	1	==	1	PASS
errors_monotone	1	==	1	PASS
finest_pair_observed_order	2.005	>=	1.8	PASS
asymptotic_order_spread	0.007314	<=	0.35	PASS
finest_relative_error	0.003822	<=	0.005	PASS

v4:c1_displacement_linf_converges · PASS

Gate	Observed	Cmp	Limit	Disposition
grid_count	6	>=	5	PASS
every_level_was_measured	1	==	1	PASS
errors_monotone	1	==	1	PASS
finest_pair_observed_order	2.005	>=	1.7	PASS
asymptotic_order_spread	0.00459	<=	0.35	PASS

v4:c1_cauchy_stress_l2_converges · PASS

Gate	Observed	Cmp	Limit	Disposition
grid_count	6	>=	5	PASS
every_level_was_measured	1	==	1	PASS
errors_monotone	1	==	1	PASS
finest_pair_observed_order	1.999	>=	0.9	PASS
asymptotic_order_spread	3.2570e-04	<=	0.35	PASS

v4:c1_strain_energy_converges · PASS

Gate	Observed	Cmp	Limit	Disposition
grid_count	6	>=	5	PASS
every_level_was_measured	1	==	1	PASS
errors_monotone	1	==	1	PASS
finest_pair_observed_order	2.001	>=	1.8	PASS
asymptotic_order_spread	0.001854	<=	0.35	PASS

v4:c2_iterative_error_is_separated_from_discretisation_error · PASS

Gate	Observed	Cmp	Limit	Disposition
excess_at_1e-6_level_0_tolerance_1e-06	8.9956e-10	<=	0.1	PASS
excess_at_1e-6_level_1_tolerance_1e-06	1.8118e-08	<=	0.1	PASS
excess_at_1e-6_level_2_tolerance_1e-06	3.3290e-08	<=	0.1	PASS
excess_at_1e-6_level_3_tolerance_1e-06	4.7246e-08	<=	0.1	PASS
excess_at_1e-6_level_4_tolerance_1e-06	1.1609e-07	<=	0.1	PASS
excess_at_1e-6_level_5_tolerance_1e-06	9.7613e-06	<=	0.1	PASS
levels_where_the_iterative_share_could_be_gated	6	>=	1	PASS

v4:c3_the_manufactured_problem_is_nonlinear · PASS

Gate	Observed	Cmp	Limit	Disposition
largest_green_lagrange_strain	0.05207	>=	0.02	PASS
quadratic_share_of_the_strain	0.02621	>=	0.02	PASS
departure_over_reference_tolerance	1.7061e+08	>=	100	PASS

v4:g0_the_linear_limit · PASS

Gate	Observed	Cmp	Limit	Disposition
absolute_departure_order_0	2	>=	1.9	PASS
absolute_departure_order_1	2	>=	1.9	PASS
absolute_departure_order_2	2	>=	1.9	PASS
relative_departure_doubles_with_the_load	3.8977e-06	<=	0.1	PASS
loads_solved	4	>=	4	PASS

v4:g1_alpha_1.0_40x2x2_L_over_h_20 · PASS

Gate	Observed	Cmp	Limit	Disposition
elastica_vertical_error	0.001391	<=	0.005	PASS
elastica_horizontal_error	1.6313e-04	<=	0.005	PASS
final_load_factor	1	==	1	PASS
force_equilibrium	5.7908e-10	<=	1.0000e-06	PASS
minimum_jacobian_positive	0.9812	>	0	PASS

v4:g1_alpha_2.0_40x2x2_L_over_h_20 · PASS

Gate	Observed	Cmp	Limit	Disposition
elastica_vertical_error	0.001799	<=	0.005	PASS
elastica_horizontal_error	6.4633e-04	<=	0.005	PASS
final_load_factor	1	==	1	PASS
force_equilibrium	1.3028e-11	<=	1.0000e-06	PASS
minimum_jacobian_positive	0.966	>	0	PASS

v4:g1_alpha_1.0_64x2x2_L_over_h_32 · PASS

Gate	Observed	Cmp	Limit	Disposition
elastica_vertical_error	5.4398e-04	<=	0.005	PASS
elastica_horizontal_error	6.3768e-05	<=	0.005	PASS
final_load_factor	1	==	1	PASS
force_equilibrium	1.8252e-11	<=	1.0000e-06	PASS
minimum_jacobian_positive	0.9883	>	0	PASS

v4:g1_equilibrium_in_the_current_configuration · PASS

Gate	Observed	Cmp	Limit	Disposition
force_balance	5.8082e-12	<=	1.0000e-09	PASS
moment_balance	1.6420e-12	<=	1.0000e-09	PASS
published_residual	3.6384e-10	<=	1.0000e-06	PASS
minimum_jacobian_positive	0.966	>	0	PASS

v4:g2_path_independence · PASS

Gate	Observed	Cmp	Limit	Disposition
schedule_independence	2.1933e-13	<=	1.0000e-06	PASS
schedules_compared	4	>=	3	PASS

v4:g3_continuation_past_a_limit_point_is_not_supported · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
solution_strategies_admitted	2	==	2	SUPERSEDED
a_limit_point_is_refused_not_traversed	1	==	1	SUPERSEDED
the_refusal_names_the_increment_floor	1	==	1	SUPERSEDED
an_unstable_branch_is_never_published_as_converged	1	==	1	SUPERSEDED

v4:k0_rigid_plane_with_coulomb_friction · PASS

Gate	Observed	Cmp	Limit	Disposition
penetration_over_element_size	1.6568e-12	<=	1.0000e-08	PASS
coulomb_cone_violation	0	<=	1.0000e-09	PASS
contact_carries_the_applied_load	8.9793e-12	<=	1.0000e-06	PASS
nodes_actually_bear	25	>	0	PASS
published_residual	2.4468e-10	<=	1.0000e-08	PASS

v4:k1_node_matched_interface_carries_a_uniform_pressure · PASS

Gate	Observed	Cmp	Limit	Disposition
action_equals_reaction	2.5313e-16	<=	1.0000e-10	PASS
interface_moment_balance	1.2629e-13	<=	1.0000e-07	PASS
penetration_over_element_size	1.5404e-13	<=	1.0000e-08	PASS
the_interface_carries_the_applied_load	1.7630e-10	<=	1.0000e-06	PASS
every_surface_node_bears	1	==	1	PASS
interface_nodes_exist	49	>	0	PASS

v4:k2_projection_is_the_exact_closest_point · PASS

Gate	Observed	Cmp	Limit	Disposition
edge_and_corner_projection	8.6736e-17	<=	1.0000e-12	PASS
probes	6	>=	6	PASS

v4:k3_pair_tangent_is_the_derivative_of_the_applied_force · PASS

Gate	Observed	Cmp	Limit	Disposition
contact_tangent_is_the_force_derivative	2.2031e-10	<=	1.0000e-05	PASS
action_equals_reaction	6.2475e-17	<=	1.0000e-10	PASS
the_apex_treatment_was_not_taken	1	==	1	PASS
the_state_is_bearing	4.775e+05	>	0	PASS

v4:k4_stick_slip_and_reversal · PASS

Gate	Observed	Cmp	Limit	Disposition
the_cone_holds_at_the_largest_solved_shear	2.4399e-16	<=	1.0000e-09	PASS
the_route_carries_shear_to_at_least_nine_tenths_of_capacity	0.99	>=	0.9	PASS
at_least_one_candidate_actually_slid	42	>=	1	PASS
coulomb_cone_through_a_full_reversal	0	<=	1.0000e-09	PASS
the_reversal_reached_the_published_equilibrium_tolerance	1.0000e-08	<=	1.0000e-06	PASS
the_reversal_solved_or_refused_by_name	1	==	1	PASS
dissipation_is_non_negative	0	>=	0	PASS
candidates_are_classified	98	>=	1	PASS

v4:k5_unsupported_contact_definitions_fail_closed · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
nothing_was_published	0	==	0	SUPERSEDED
every_refusal_is_typed	3	==	3	SUPERSEDED
every_refusal_names_its_cause	2	==	3	SUPERSEDED

v4:b0_every_probe_converges_or_refuses_by_name · PASS

Gate	Observed	Cmp	Limit	Disposition
no_unconverged_field_was_published	0	==	0	PASS
every_refusal_is_typed	15	==	15	PASS
every_refusal_names_its_cause	15	==	15	PASS
probes_that_refused	15	>=	8	PASS
both_packaged_metallib_probes_were_refused	2	==	2	PASS

v4:b1_the_limit_load_is_bracketed_from_below · PASS

Gate	Observed	Cmp	Limit	Disposition
some_load_was_solved	0.6242	>	0	PASS
some_larger_load_was_refused	0.6866	>	0	PASS
the_bracket_is_ordered	1	==	1	PASS
the_bracket_is_tight	0.09091	<=	0.1	PASS

v4:l0_volumetric_locking_against_the_poisson_ratio · PASS

Gate	Observed	Cmp	Limit	Disposition
the_six_mode_error_grows_with_the_poisson_ratio	1	==	1	PASS
the_six_mode_order_falls_with_the_poisson_ratio	1	==	1	PASS
nine_mode_error_at_every_ratio	0.03213	<=	0.05	PASS
nine_mode_order_floor	1.232	>=	1	PASS
locking_removed_at_the_cap	0.3306	>=	0.15	PASS
the_shipped_warning_is_no_more_generous_than_the_measurement	0.3	<=	0.3	PASS
the_shipped_cap_is_the_measured_one	0.495	==	0.495	PASS

v4:p_elastic_cantilever_16k · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
repeats_are_bitwise_identical	1	==	1	PASS
published_residual	3.9902e-07	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS
same_answer_as_the_cpu_double_reference	4.2273e-10	<=	1.0000e-05	PASS

v4:p_plastic_block_13k · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
repeats_are_bitwise_identical	1	==	1	PASS
published_residual	4.7278e-08	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS
same_answer_as_the_cpu_double_reference	9.8158e-09	<=	1.0000e-05	PASS

v4:p_hyperelastic_block_13k · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
repeats_are_bitwise_identical	1	==	1	PASS
published_residual	6.7813e-08	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS
same_answer_as_the_cpu_double_reference	3.4185e-08	<=	1.0000e-05	PASS

v4:p_body_contact_9216 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
repeats_are_bitwise_identical	1	==	1	PASS
published_residual	8.7774e-07	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS
same_answer_as_the_cpu_double_reference	4.7684e-07	<=	1.0000e-05	PASS

v4:p_body_contact_101376 · PASS

Gate	Observed	Cmp	Limit	Disposition
timed_repeats	3	>=	3	PASS
repeats_are_bitwise_identical	1	==	1	PASS
published_residual	1.1645e-07	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS
equilibrium_at_scale	8.7317e-10	<=	1.0000e-06	PASS

v4:p_the_ladder_reached_scale · PASS

Gate	Observed	Cmp	Limit	Disposition
largest_solved_elements	1.037e+05	>=	1e+05	PASS

v4:p_cold_elastic_cantilever_16k_process_1 · PASS

Gate	Observed	Cmp	Limit	Disposition
published_residual	3.9902e-07	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS

v4:p_cold_elastic_cantilever_16k_process_2 · PASS

Gate	Observed	Cmp	Limit	Disposition
published_residual	3.9902e-07	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS

v4:p_cold_elastic_cantilever_16k_process_3 · PASS

Gate	Observed	Cmp	Limit	Disposition
published_residual	3.9902e-07	<=	1.0000e-06	PASS
the_packaged_metallib_was_used	1	==	1	PASS
no_runtime_source_compilation	1	==	1	PASS

v5r3:l7_seed_179_self_contact_slot · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	1.6179e-07	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	4.2506e-07	<=	1.0000e-05	PASS
strain_energy	6.6979e-13	<=	1.0000e-06	PASS
support_reaction	1.1269e-05	<=	1.0000e-05	SUPERSEDED
contact_force	1.3629e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	8.1360e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

v5r3:l7_seed_192_self_contact_slot · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
displacement_l2	2.0025e-07	<=	1.0000e-06	PASS
same_load_path	1	==	1	PASS
displacement_linf	5.2584e-07	<=	1.0000e-05	PASS
strain_energy	9.7626e-13	<=	1.0000e-06	PASS
support_reaction	1.3959e-05	<=	1.0000e-05	SUPERSEDED
contact_force	2.6857e-11	<=	1.0000e-06	PASS
plastic_strain	0	<=	1.0000e-05	PASS
pressure	0	<=	1.0000e-06	PASS
metal_published_residual	7.4820e-10	<=	1.0000e-08	PASS
packaged_metallib	1	==	1	PASS
no_runtime_compilation	1	==	1	PASS
metal_operator	1	==	1	PASS
repeat_bitwise	1	==	1	PASS

v5r3:l8_origin_stl_ascii_offset_1.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	7.0400e-06	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_-1.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	PASS
origin_same_displacement	5.6827e-06	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_10.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	0	==	1	SUPERSEDED
origin_same_displacement	∞ (not comparable)	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_-10.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	0	==	1	SUPERSEDED
origin_same_displacement	∞ (not comparable)	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_100.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	0	==	1	SUPERSEDED
origin_same_displacement	∞ (not comparable)	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_-100.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	0	==	1	SUPERSEDED
origin_same_displacement	∞ (not comparable)	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_1000.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	0	==	1	SUPERSEDED
origin_same_displacement	∞ (not comparable)	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_-1000.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	0	==	1	SUPERSEDED
origin_same_displacement	∞ (not comparable)	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_1000000.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_refusal_named	1	==	1	SUPERSEDED

v5r3:l8_origin_stl_ascii_offset_-1000000.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_refusal_named	1	==	1	SUPERSEDED

v5r3:l8_origin_stl_binary_offset_0.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_same_occupancy	1	==	1	SUPERSEDED
origin_same_displacement	0	<=	1.0000e-12	SUPERSEDED

v5r3:l8_origin_stl_binary_offset_1000000.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_refusal_named	1	==	1	SUPERSEDED

v5r3:l8_origin_stl_binary_offset_-1000000.0 · SUPERSEDED

Gate	Observed	Cmp	Limit	Disposition
origin_refusal_named	1	==	1	SUPERSEDED

l0_v4_published_evidence_rehashed · PASS

Gate	Observed	Cmp	Limit	Disposition
v4_files_listed	55	>=	10	PASS
v4_manifest_mismatches	0	==	0	PASS
v4_manifest_unaccounted	0	==	0	PASS

l0_gauss_point_storage_defect_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
a_side_reproduces_the_defect	1	==	1	PASS
b_side_tests_run	3	>=	3	PASS
b_side_failures	0	==	0	PASS
stress_order_after_fix	1.999	>=	0.9	PASS

l0_metal_arc_length_krylov_defect_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
metal_arc_a_side_reproduces	1	==	1	PASS
metal_arc_b_side_tests_run	1	>=	1	PASS
metal_arc_b_side_failures	0	==	0	PASS
metal_arc_b_side_lane_row_passes	1	==	1	PASS

l0_enhanced_mode_floor_defect_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
floor_a_side_reproduces	1	==	1	PASS
floor_b_side_tests_run	2	>=	2	PASS
floor_b_side_failures	0	==	0	PASS

Gate	Observed	Cmp	Limit	Disposition
floor_b_side_lane_row_passes	1	==	1	PASS

l0_import_origin_defect_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
import_origin_a_side_reproduces	1	==	1	PASS
import_origin_b_side_tests_run	6	>=	5	PASS
import_origin_b_side_failures	0	==	0	PASS
import_origin_b_side_lane_rows_pass	1	==	1	PASS

l0_self_contact_face_choice_defect_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
self_contact_a_side_reproduces	1	==	1	PASS
self_contact_b_side_tests_run	6	>=	6	PASS
self_contact_b_side_failures	0	==	0	PASS
self_contact_b_side_lane_rows_pass	1	==	1	PASS

l0_shared_code_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
shared_code_ab_frozen	1	==	1	PASS
shared_code_failing_set_differences	0	==	0	PASS
shared_code_tests_executed	3017	>=	1000	PASS
shared_code_probe_records	77	>=	70	PASS
shared_code_probe_unaffected_mismatches	0	==	0	PASS

l0_step_corpus_ab · PASS

Gate	Observed	Cmp	Limit	Disposition
step_corpus_ab_frozen	1	==	1	PASS
step_corpus_files	165	>=	165	PASS
step_corpus_accepted	24	>=	24	PASS
step_corpus_field_differences	0	==	0	PASS

l0_v5_run3_rows_carried · PASS

Gate	Observed	Cmp	Limit	Disposition
run3_record_hash_matches	1	==	1	PASS
run3_rows_all_found	1	==	1	PASS

l0_regression_nl6_suite · PASS

Gate	Observed	Cmp	Limit	Disposition
nl6_suite_tests_run	17	>=	17	PASS
nl6_suite_failures	0	==	0	PASS

l0_regression_nonlinear_unit_suites · PASS

Gate	Observed	Cmp	Limit	Disposition
nonlinear_unit_suites_tests_run	315	>=	100	PASS
nonlinear_unit_suites_failures	0	==	0	PASS

l0_regression_linear_guard_suites · PASS

Gate	Observed	Cmp	Limit	Disposition
linear_guard_suites_tests_run	25	>=	5	PASS
linear_guard_suites_failures	0	==	0	PASS