STRINGAZE

VALUATION PLATFORM

Headquartered in Singapore

One engine. Every valuation cycle.

Performance. Accuracy. Reliability. Built for the full valuation calendar: monthly and quarterly close, multi-framework reporting, and on-demand impact analysis. Validated against legacy actuarial platforms in parallel-run engagements.

21× Up to, peak *

Faster than legacy actuarial platforms — peak benchmark

99.9% *

Reconciliation against incumbent valuation platforms — framework-by-framework

12 days *

Continuous production stability test — reproducible, end-to-end validated

INDUSTRY CHALLENGES

- ✗ **Production runs are not consistently stable** — legacy engines suffer breakdown runs that force reruns and delay close.
- ✗ **Total cost of ownership is high** — performance not optimised for modern hardware; insurers pay for cores that legacy architectures cannot scale down between cycles.
- ✗ **Models are hard to maintain** — each product-level assumption is its own line; definitions sprawl across products; every valuation cycle creates more table rows to maintain, not fewer.
- ✗ **Legacy stacks weren't built for modern valuation** — modern valuation needs a cloud-native, modern-stack platform built for elasticity, reliability, and the workloads of the next decade.

THREE ARCHITECTURAL PILLARS

SIMPLICITY

One Model. Every Framework.

Class Tree — write IFRS 17 logic once, reuse across Embedded Value, GAAP, and Statutory reporting. Variables inherit from parent nodes; deviations redefined at child nodes only. **Smart Table** reduces maintenance of assumption rows through parent-child inheritance and smart-indexed code-free lookup.

PERFORMANCE

Up to 21× faster, peak

ZeroDegree compiler generates native code for every parameter combination. OmniGraph deduplicates and fuses actuarial logic. CoreAffinity lifts L1 cache hit rates above 95%.

RELIABILITY

Accurate. Stable. Governed.

99.9% reconciliation against incumbent platforms. Validated across a 12-day continuous production stability test. Immutable audit trails — every result defensible.

WHAT CHANGES FOR YOUR BUSINESS

Four outcomes your CFO can measure

OUTCOME 01 · PERFORMANCE

Closes in hours, not days.

The IFRS 17 measurement run compressed from 12 hours to 1 hour.* Sub-hour single full-portfolio valuation runs protect the close window — adjustments and reruns fit inside the same business day.

Business value: *Up to 21× faster than legacy actuarial platforms at peak.* Speedup grows with scale — 6× at 35K MPs, 11.8× at 200K MPs.**

OUTCOME 02 · ACCURACY

99.9% reconciliation against incumbent platforms.

Validated framework-by-framework, product-by-product against the legacy actuarial platforms StrinGaze replaces. Reproducible across runs — bit-exact, deterministic, with full lineage to every line item.

Business value: *99.9% reconciliation accuracy — validated in every parallel-run engagement, across IFRS 17, Embedded Value, GAAP, and Statutory.**

OUTCOME 03 · STABILITY

Overnight calculations, protected by design.

Cloud-native architecture, with dual-centre disaster recovery and self-healing nodes. A hardware fault doesn't take the night with it — the platform reroutes and continues.

Business value: *Validated across a 12-day continuous production stability test — end-to-end reproducible across 12 consecutive close cycles.**

OUTCOME 04 · EFFICIENCY

Same close, up to 37% fewer cores.

Multi-framework reporting on a single engine — IFRS 17, Embedded Value, GAAP, and Statutory all on the same model. Documented benchmark: the same close on up to 37% fewer cores than legacy actuarial platforms.*

Business value: *Greater than 50% lower TCO than legacy actuarial platforms.**

VALUATION IMPLEMENTATION

Performance, accuracy, and stability at production scale.

Close cycles in hours, reconciled to **99.9%** against your incumbent across every framework you report under (IFRS 17, major RBC frameworks, EV, GAAP, statutory). Delivery covers **cloud deployment** (AWS, Azure, GCP or on-premise), **model migration consulting**, **parallel-run reconciliation** against the legacy engine, and **hands-on enablement**. Outcome: a close cycle running on the new platform, with the legacy vendor contract retired on schedule.

BUSINESS VALUE Up to **21×** faster, peak · **99.9%** reconciliation accuracy · **>50%** lower TCO *

FRAMEWORKS IFRS 17 · Embedded Value · GAAP / Statutory

ACTUARIAL INTELLIGENCE ROADMAP

stringaze.com/halley →

Halley is possible because StrinGaze's Class Tree mirrors the business logic.

Halley is the actuarial AI assistant — running software today. It's only possible because StrinGaze's **Class Tree** mirrors your business hierarchy as inheritable structure, and **Smart Table** separates assumption data from lookup logic. Halley reads structure — not flat code — so AI can finally reason about actuarial models.

HALLEY · TODAY

Explain an assumption in the Class Tree.
Build a new product in the Class Tree.
Engine AI layer — Smart Validation runs against every cycle's results.

ON THE ROADMAP

Variance narration — what moved between cycles, by product and driver.
Reconciliation co-pilot — drafts the memo line by line.

ROADMAP · FURTHER

Cross-module reasoning — coordinated analysis across pricing and valuation.
Multi-step close orchestration — actuary approves each gate.

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* *Performance, reconciliation and TCO figures based on documented benchmarks across specified workloads. Test conditions, assumptions and roadmap milestones are described in the StrinGaze Terms of Use, §5; actual results vary by portfolio, infrastructure and configuration.*

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