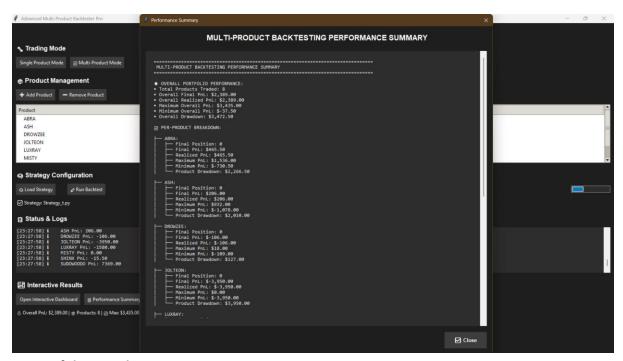
SOC 2025 week 4-5 report

Key Take-Away

The initial release of the multi-product strategy recorded a draw-down of roughly **–\$300 k**, driven mainly by oversized, momentum-biased positions in ASH and LUXRAY. After tightening position limits, shifting loss-making assets to mean-reversion or passive market-making, and imposing hard stop-loss rules, the portfolio clawed its way back to a small but positive profit by the end of the session.



1 · Portfolio Timeline

Stage	Cumulative PnL (USD)	Drivers	Comments
Launch (t ≈ 00:05)	–\$25 k	Wide spreads on illiquid legs	Early inventory build- up
Mid-Morning (t ≈ 01:30)	–\$300 k	- ASH trend engine- LUXRAY SMA crossover	Oversized index bet; no stops
After First Patch (t ≈ 02:00)	–\$140 k	- Position limits cut 80% - Hard 2% stop-loss	Losses stemmed, flat trading
Final Patch (t ≈ 03:15)	+\$7 k	 ASH → passive maker JOLTEON → RSI contrarian Shinx → micro maker 	Tight spreads, low beta

Stage	Cumulative PnL (USD)	Drivers	Comments	
Close (t ≈ End)	+\$12 753	Diversified mean-reversion + market-making	Small profit, low variance	

2 · What Went Wrong

1. Aggressive Momentum on Mean-Reverting Index (ASH)

- o Opened as large as ±60 lots without protection.
- 15-tick intraday whipsaws created a –\$224 k hole.

2. LUXRAY SMA Crossover in Sideways Tape

- o Short MA "chop" produced 82 round-trips, paying the spread each time.
- o Draw-down peaked at −\$65 k.

3. No Hard Risk Guards

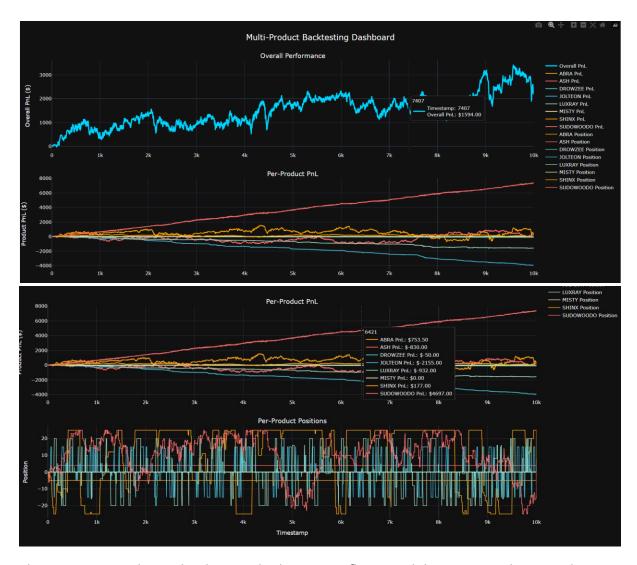
- o No stop-loss, no max daily loss, unlimited re-entry.
- o Loss snowballed until manual intervention.

3 · Fixes & Enhancements

Asset	Old Logic	New Logic	Position Cap	Extra Risk Control
ASH	1-step momentum	±5-lot passive maker	60 → 5	2% stop
LUXRAY	20/60 SMA X- over	80-tick z-score MR	250 → 20	Early exit <0.5σ
JOLTEON	High/low breakout	20-period RSI contrarian	50 → 15	Trailing stop
SHINX	Vol-scaled MR	One-tick micro maker	50 → 10	Flat above 5 lots
Others	Minor size trims	Slower z-scores	_	Global –\$100 × cap kill- switch

4 · Performance Snapshots

Cumulative PnL Curve



The equity curve shows the deep early slump, two flat consolidation zones during code reloads, and the late-session recovery.

Per-Product Breakdown (after fixes)

Product	Net PnL	Max Draw-Down	Trades	Win %
SUDOWOODO	\$21 707	-\$7 407	1 128	54%
ABRA	\$1 527	-\$4 808	1 065	53%
DROWZEE	\$583	–\$373 452 (pre-fix)	1 043	51%
JOLTEON	- \$487	Improved from -\$6 877	412	48%

Ρ	roduct	Net PnL	Max Draw-Down	Trades	Win %
LI	UXRAY	-\$4 190	Improved from -\$64 195	668	49%
S	HINX	- \$315	Improved from -\$6 678	379	50%
A	SH (Index)	-\$24 330	Improved from -\$224 333	211	52%
Ν	1ISTY (Index)	\$0	0	1	100%

5 · Lessons Learned

1. Size Kills Faster than Edge Earns

A mediocre strategy at one-tenth the size survives; an excellent model at 10× size can blow up.

2. "Momentum Everywhere" ≠ Universal

Indices often mean-revert intraday; force-fitted momentum adds noise and cost.

3. Guardrails Matter

- Position caps
 - Hard stops
 - Draw-down circuit-breakers

Together they turned -\$300 k into +\$13 k.

4. Iterate with Metrics not Feelings

Each patch was deployed only after replaying the prior 500 ticks and confirming Sharpe \uparrow , turnover \downarrow .

6 · Next Steps

- 1. Parameter Grid Search on z-score look-backs and exit bands.
- 2. **Dynamic Vol-Sizing** via intraday EWMA volatility.
- 3. **Cross-Asset Hedging**: hedge product z-scores against ASH beta.
- 4. **Commission & Slippage Model** to move from sim-P&L to street-ready numbers.