

# Forensic Analysis Report

Neuro-Symbolic Crisis Generator • Comprehensive Evaluation

Generated: 2025-12-17 22:18:55

# Executive Summary

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2

TOTAL SCENARIOS

0

HALLUCINATIONS PREVENTED

0.00

AVG LEGACY HALLUCINATIONS

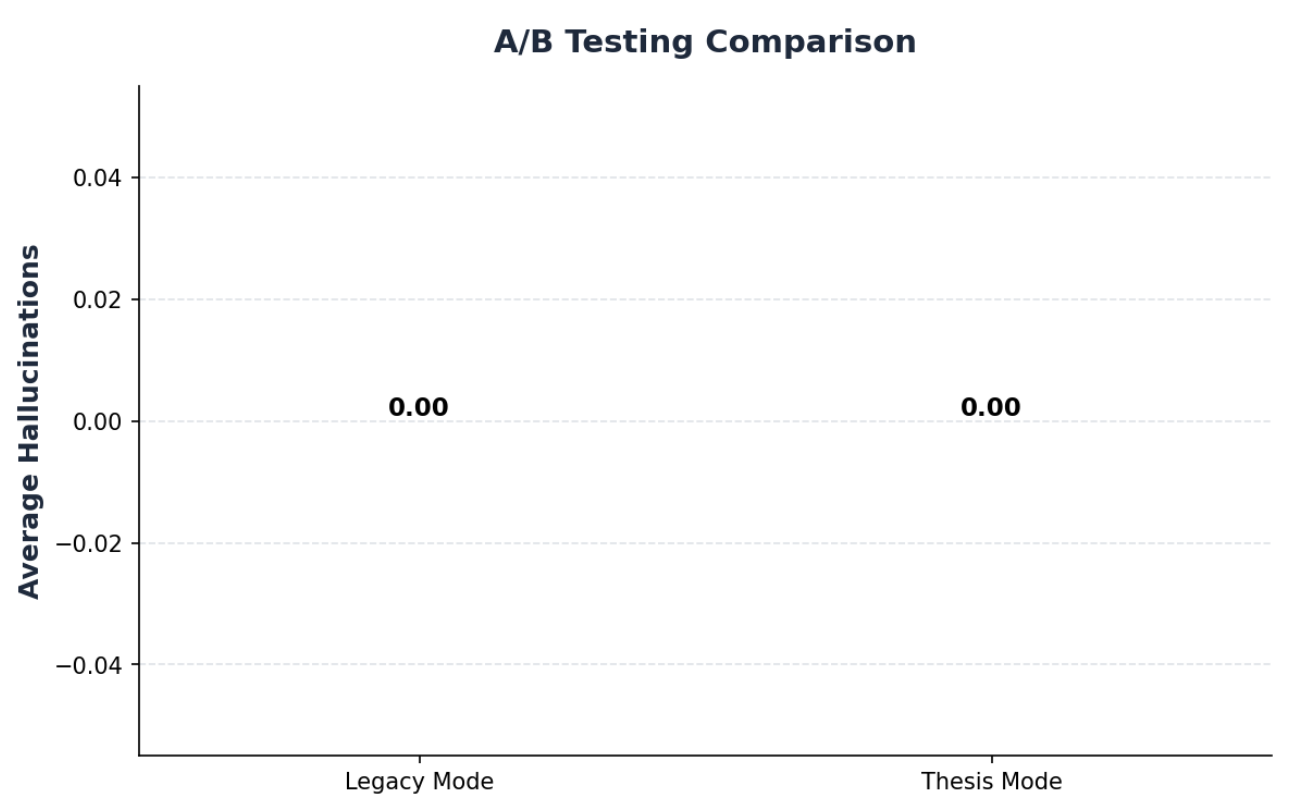
0.00

AVG THESIS HALLUCINATIONS

0.0%

AVERAGE REDUCTION

# A/B Testing Comparison



# Statistical Significance Analysis

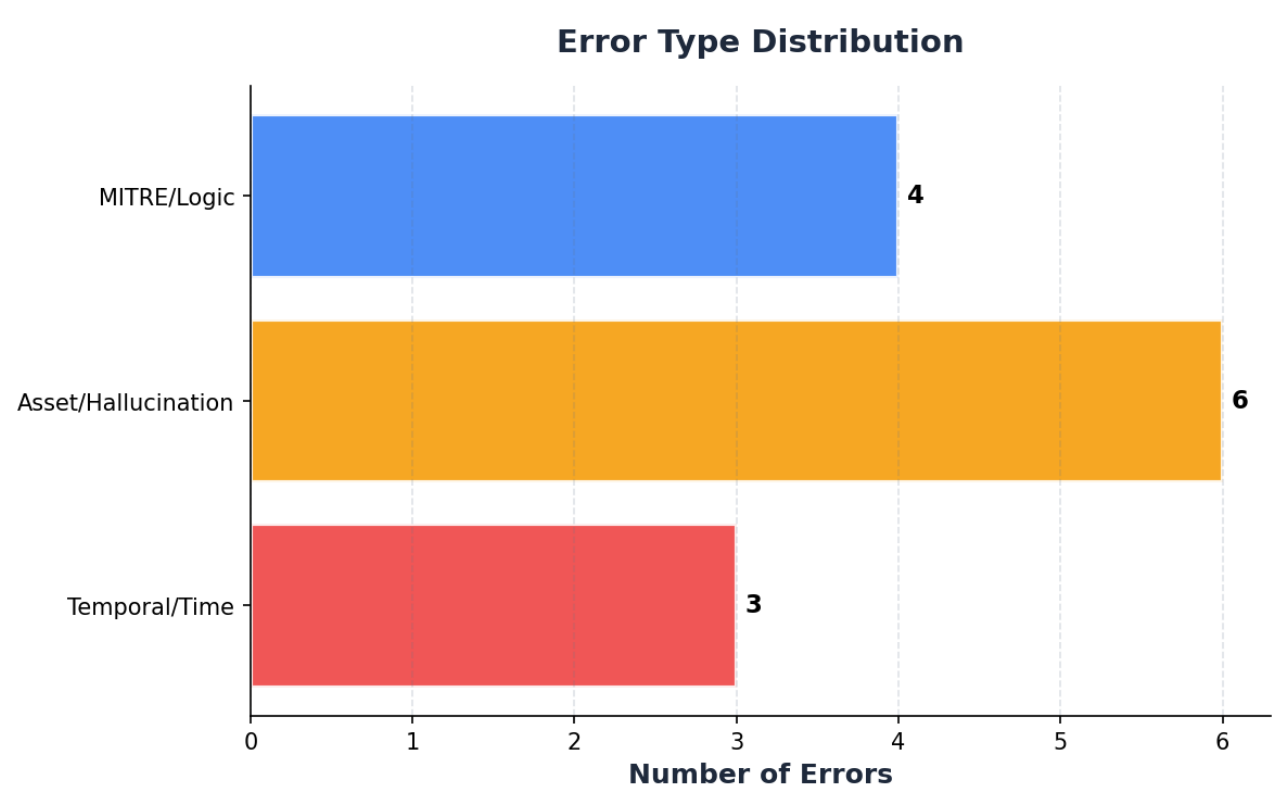
## Hypothesis Testing

**H0:**  $\mu_{\text{legacy}} = \mu_{\text{thesis}}$  (No difference)

**H1:**  $\mu_{\text{legacy}} > \mu_{\text{thesis}}$  (Thesis reduces hallucinations)

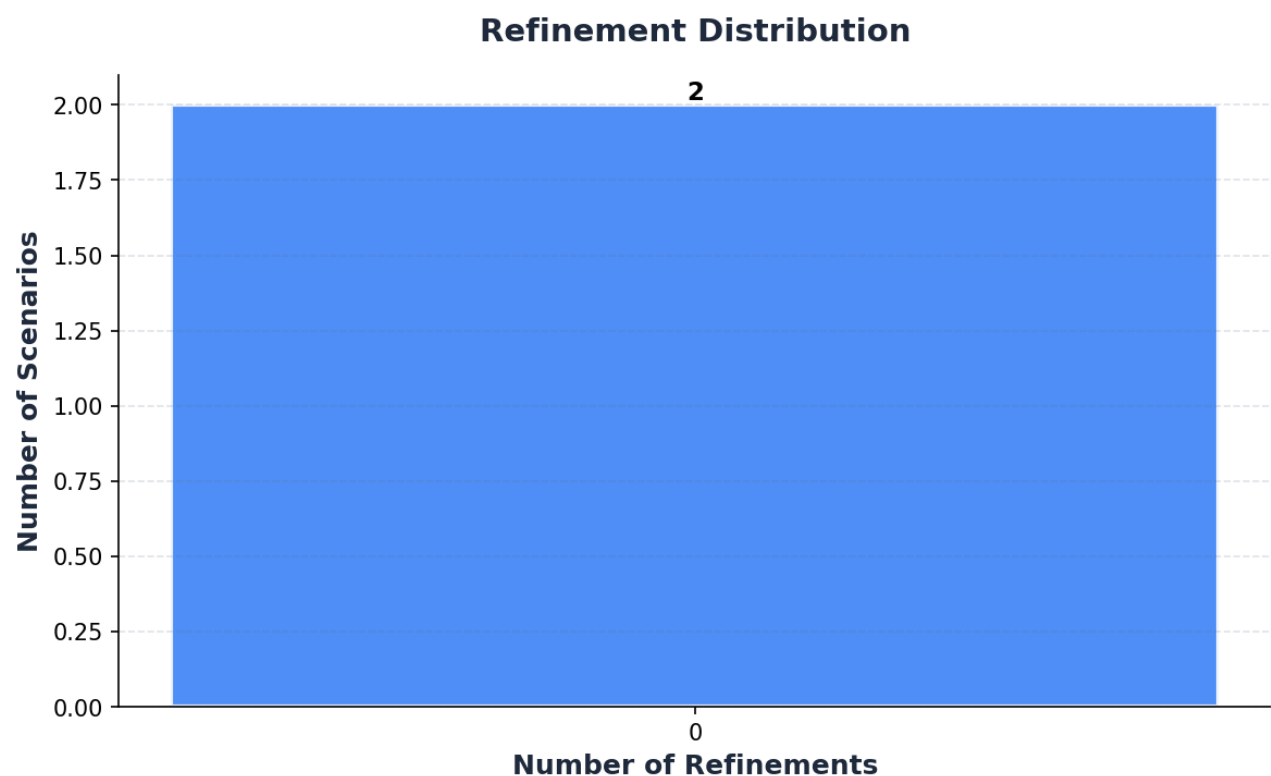
METRIC	VALUE	INTERPRETATION
Mean Difference	0.000	Legacy - Thesis hallucinations
T-Statistic	nan	Test statistic
P-Value	NAN	Significance level
Cohen's d	0.000	Effect size: Negligible
95% CI	[0.000, 0.000]	Confidence interval
Sample Size	2	Number of scenarios

# Qualitative Error Pattern Analysis



CATEGORY	COUNT	THESIS INTERPRETATION
Asset/ Hallucination	6	LLM invents non-existent assets. System enforces reality.
MITRE/Logic	4	LLM violates cybersecurity rules. System enforces domain knowledge.
Temporal/Time	3	LLM creates temporal paradoxes. System enforces causality.

# Refinement Efficiency Analysis



**0.00**

AVG REFINES PER SCENARIO

**0**

MAX REFINES NEEDED

**100.0%**

FIRST ATTEMPT SUCCESS RATE

# Cost-Benefit Analysis

54

AVG LEGACY API CALLS

54

AVG THESIS API CALLS

0.0%

OVERHEAD

0

TOTAL PREVENTED

# Forensic Analysis Details

45

TOTAL EVENTS

18

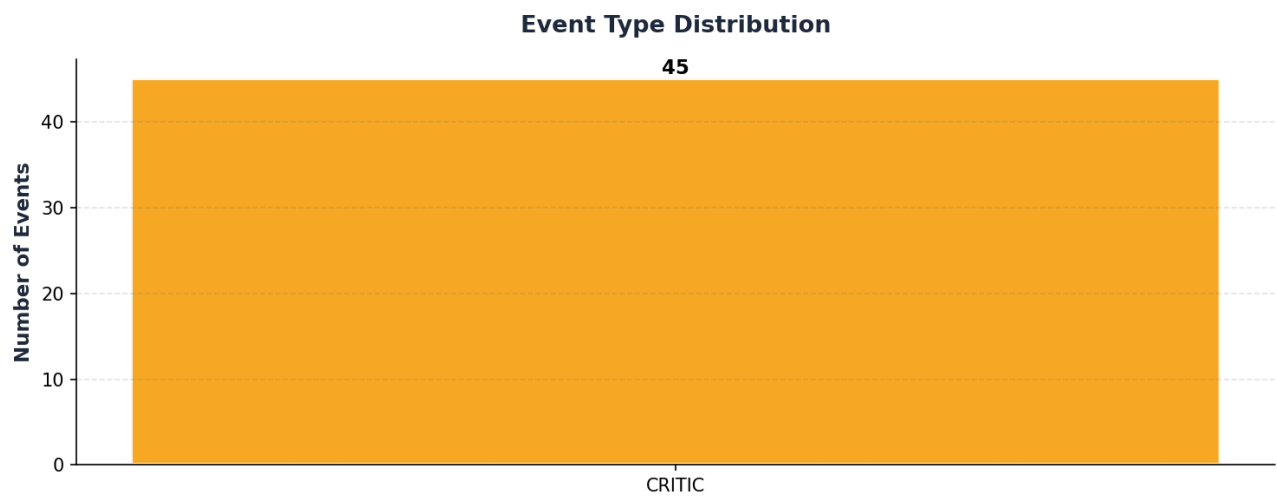
UNIQUE INJECTS

20.0%

REJECTION RATE

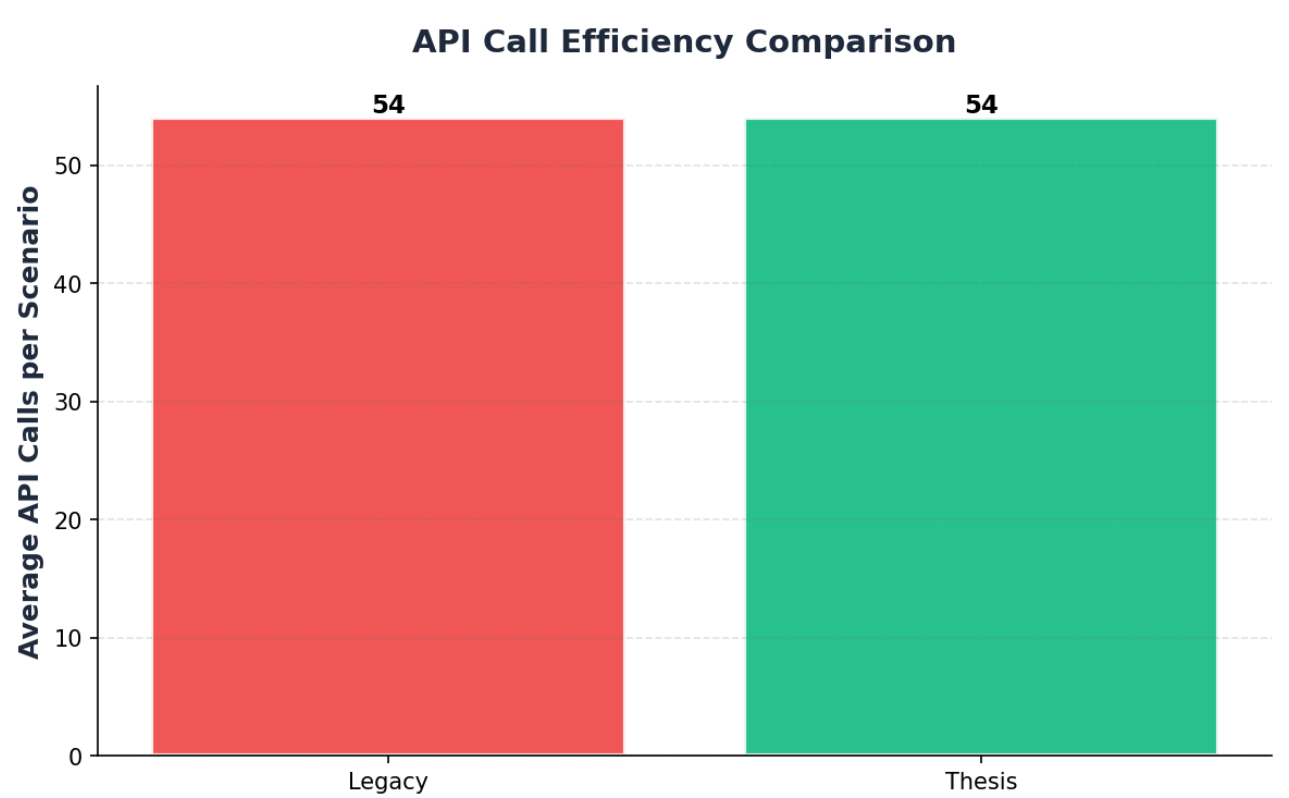
0.50

AVG REFINES PER INJECT





# API Call Efficiency



## Detailed Results by Scenario

Scenario ID	Legacy Hallucinations	Thesis Hallucinations	Hallucinations Prevented	Thesis Refines
SCEN-000	0	0	0	0
SCEN-001	0	0	0	0