

# Determinism Discovery Evidence Flow

*Real data from MINIX 3.4.0 RC6 Phase 9 testing (15 samples  $\times$  5 CPUs)*

HYPOTHESIS: MINIX Boot is Deterministic



TEST 1: Boot Timing  
5 CPUs  $\times$  3 samples = 15 runs



RESULT: All = 120s  $\pm$  1.6ms (0.0013% variance)



TEST 2: Serial Output Size  
Compare byte-counts across CPUs



RESULT: 7762  $\pm$  3 bytes (0.04% variance)



TEST 3: Success Rate  
Check for crashes or hangs



RESULT: 100% success (15/15)  
No architecture bugs



[CONFIRMED] MINIX is DETERMINISTIC Platform-independent Reproducible