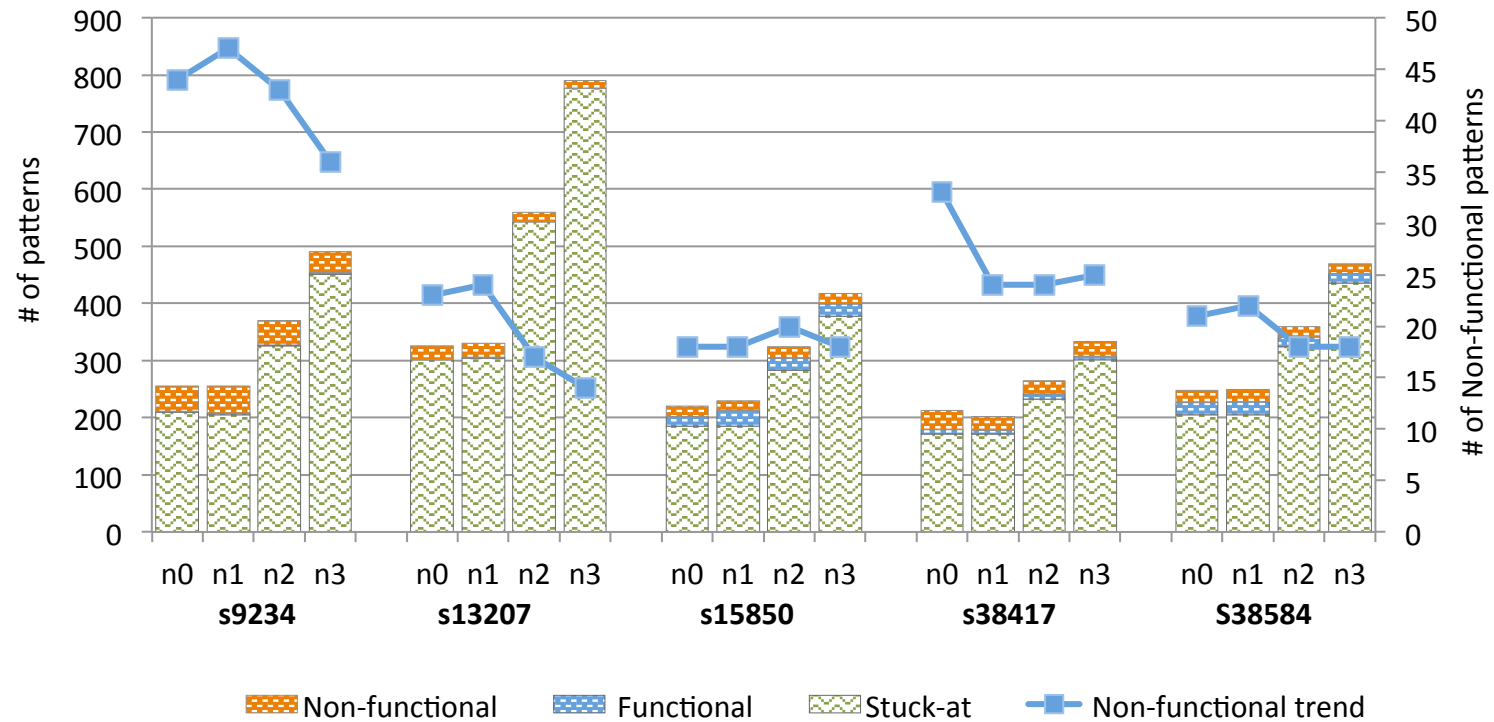Stuck-at patterns V.S. Cell-aware top-off patterns

Fault set 1; 10k_1st Good-States

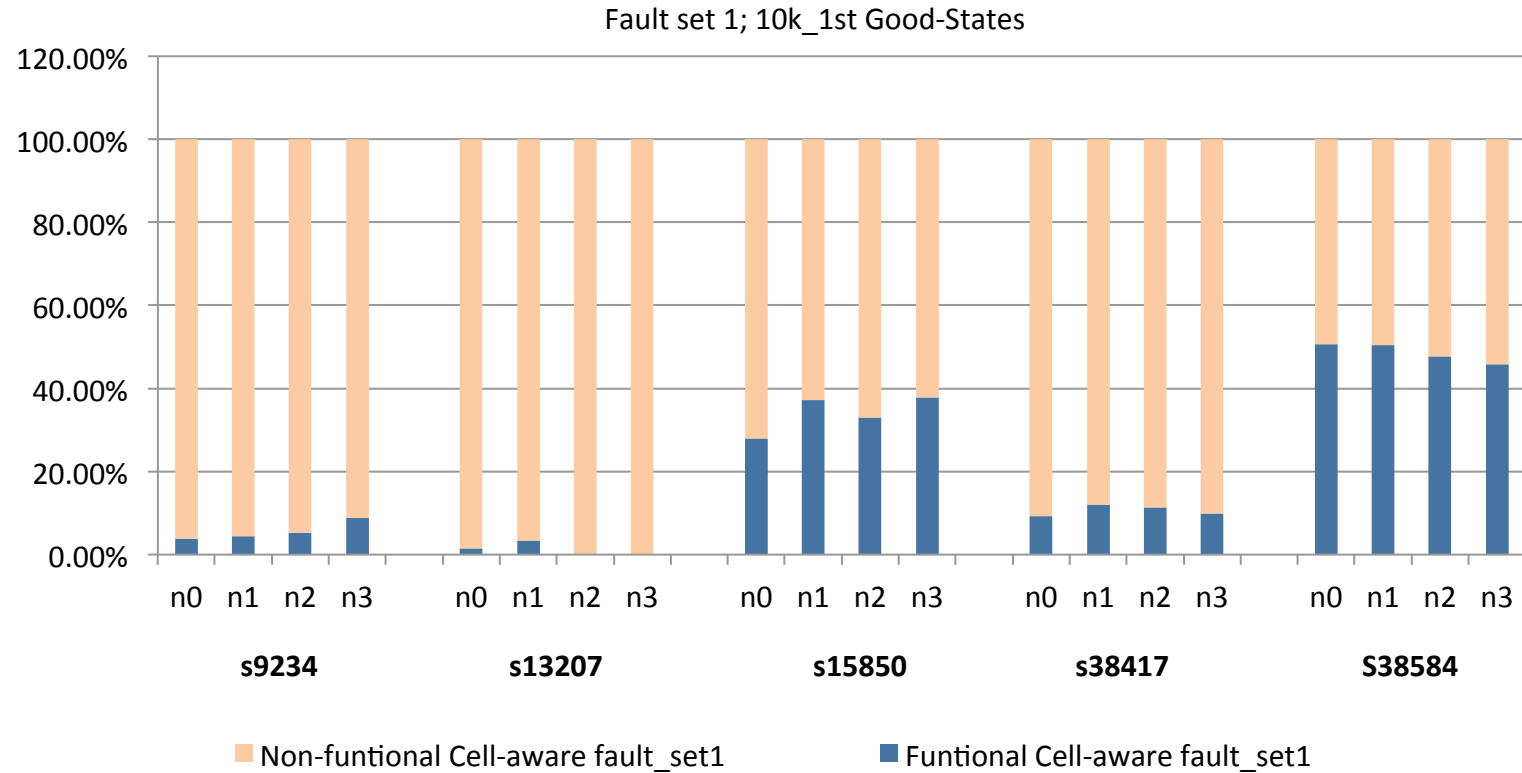# % increase in test length when non-functional cell-aware faults are included in fault set

Fault set 1; 10k_1st Good-States

Equation *%= # of non_functional Cell_Aware faults patterns/(stuck_at ATPG + # of funtional Cell_aware patterns)*

Distribution of Cell-aware faults between functional & non-functional for those not detected by stuck-at ATPG

Fault set 1; 10k_1st Good-States

■ Non-funtional Cell-aware fault_set1   ■ Funtional Cell-aware fault_set1

Equation
 (1)*% non_functional = # of non_functional Cell_Aware faults /(# of non_functional Cell_Aware faults+ # of functional Cell_Aware faults)*
 (2)*% functional = # of functional Cell_Aware faults /(# of non_functional Cell_Aware faults+ # of functional Cell_Aware faults)*

Number of detections for each fault detected by Good-State patterns