

Nexplant SLM Use Case

# ASIC Design P&R Tool Chain Automation, Verification Dashboard Automation

Tool users collaborated in an unstructured way. Automate this unstructured work into a workflow-based one to minimize the number of days in disconnection (from 90 to 60 days). Create reports of execution status and verification for 12 types of CAE tools automatically. That enables users to understand the progress of verification in real time.

35 Not Started | 8 In Progress | 1 Complete (Fail) | 36 Complete (Pass) | Highlight My Jobs

Part	Phase	Equivalence Check (Formal)	Logic Simulation (NC-VHDL / IES)	Low Power Rulecheck (VCL-D)	Gate Level Power Analysis (PrimeTime-PS)	RC Extraction (Star-RCX1)	Gate-level STA (PrimeTime-SI)	Static IR-drop & Elt (Starbus)	Dynamic IR Drop (Starbus)	PNR (ICC)	Gate-level Glitch Noise Analysis (PrimeTime-SI)
H2s		✓	✓	✓	✓	✓	✓	✓	✓	✓	⌚
Amba		✓	⚠	✓	✓	✓					
idle		✓	✓	✓	✓	✓					
vdsp		✓	✓	✓	⌚	✓	✓	⚠	⌚		
Sub #4		✓	✗	✓	⌚	✓	✓	✓	✓	✓	✓
Sub #5		✓	✓	✓							
Sub #6		⌚	⌚								
Sub #7		✓	✓	✓	✓	✓					

## 1 Tool Chain automation

- CAE Tool condition setting
- Tool Chain execution-monitoring

## 2 CAE Log collection/processing/analysis

- Check the visibility of verification progress in real time without additional manual work (Dashboard)
- Support verification reports for each CAE Tool and analysis environments (Report, Trend Chart)