

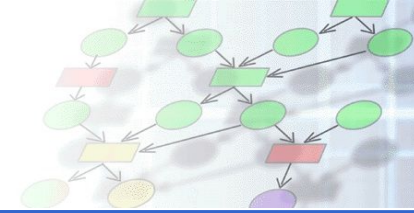
Birds of a Feather: Managing Project status and Project health

A Look at Flows

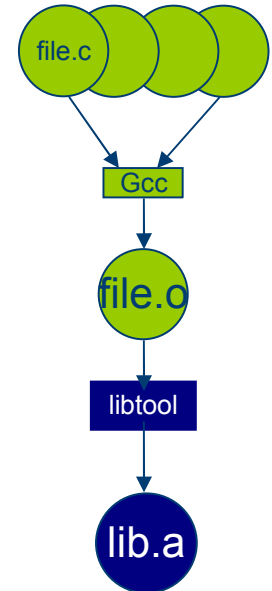
by Runtime Design Automation

July 2009

Important Facets of Project Status, Project Health



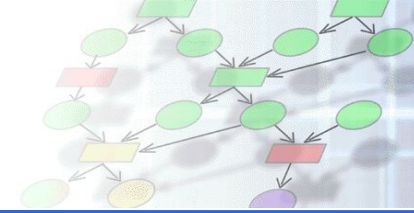
- ◆ Project Status:
 - ◆ I/O dependencies between jobs and files
 - ◆ Status of jobs: up-to-date, failed, to be run again
 - ◆ Requirements of jobs: licenses, RAM, ...
- ◆ Project Health:
 - ◆ Are there failed jobs?
 - ◆ Can design be repeated?
 - ◆ How quickly can changes be propagated?



Systems that address these problems:

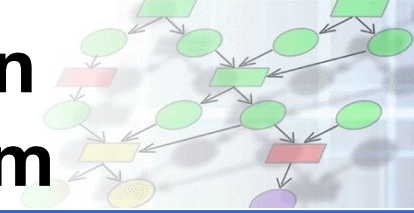
Synopsys 'Lynx', RTDA FlowTracer

Visualize File/Job Relationships, Project Status



multi-vendor flow, large flow, farm interface, flexIm interface

Benefits on Project Health by focusing on dependencies and discovering parallelism



Company	Fabless IC	Library IP	Broadline IC supplier	EDA Vendor
Type of Flow	RTL to GDS flow	Characterization and verification of library	Block based microprocessor validation	Regression testing
Size of Flow	57 steps per block	250000 jobs	800 jobs	8500 tests
Before	14 days	20 days	6 hours	7h (LSF)
After	1 day	1.5 days	25 minutes	1h 15m
Speedup	14x	13x	14x	5.5x
Other comments	50% fewer licenses			140 machines