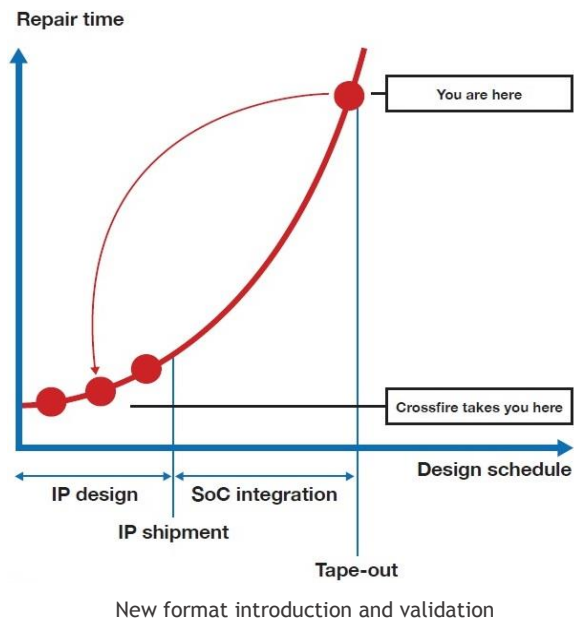


DAC ARTICLES ON SEMIWIKI FOOLPROOF YOUR IP BEFORE IT STUMBLES IN HIGHER-UP DESIGN

(by Pawan Fangaria)

SoC designs are increasingly becoming assemblies of a large number of IP blocks. A well integrated assembly can lead to a successful PPA (Power, Performance and Area) optimized design. However, it is equally important that each IP block is optimized, robust, and integrable in the design. The complexity of an IP and its integration can be so high that any kind of re-work can prove to be very costly.



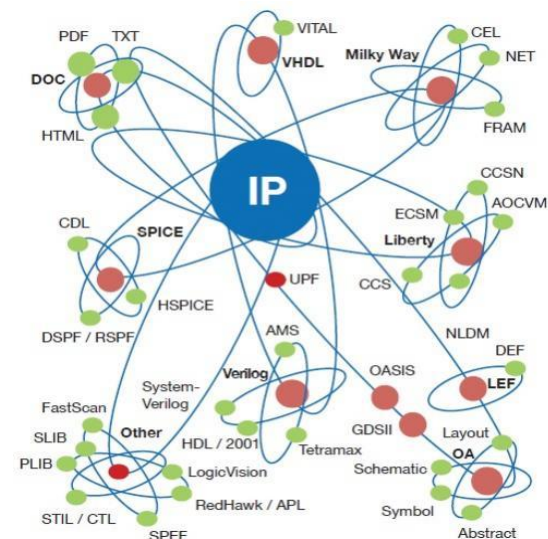
For the full article please click on link below:

[Fractal SemiWiki article](#)

AN UNIVERSE OF FORMATS FOR IP VALIDATION

(by Pawan Fangaria)

Although I knew about Crossfire’s capabilities for signing off quality of an IP before its integration into an SoC, there was much more to learn about this tool when I visited Fractal Technologies booth during this DAC. The complexity handled by this tool to qualify any type of IP for its integration into an SoC can be imagined by the number of different formats and databases the tool supports. Crossfire’s unique common data model allows different databases and formats to be cross-checked for completeness and correctness against a golden reference format or against a previous release.



For the full article please click on link below:

[Fractal SemiWiki article](#)



JEDAT NOMINATED AS DISTRIBUTOR FOR JAPAN

Both Fractal Technologies and JEDAT are convinced that customers and prospects in Japan will benefit from this cooperation. Fractal's proven technology and the local support from JEDAT will be a guarantee for a successful implementation of the Crossfire products at customer's site.

CROSSFIRE UPDATES

Recently Crossfire has been improved in various areas:

- New formats:
 - CCSP
- New Rules:
 - Illegal parameter check for spice files
 - Check that pins are not too far from layout boundary
 - Table presence check for CCS and ECSM
 - LVF tables in .lib files are supported
- New terminal classes, all rules (misc_checks and table_checks) can filter the terminals to run as generic setup mechanism

ABOUT CROSSFIRE

Crossfire reports mismatches or modeling errors for Libraries and IP that can seriously delay an IC design project.

Library and IP integrity checking has become a mandatory step for a "state of

the art" deep submicron design due to the following challenges:

- The sheer number of different views
- The complexity of the views (ECSM, CCS)
- The loss of valuable design time
- Time to market

Crossfire helps CAD teams and IC designers achieving a high quality of design data in a short time.

Crossfire assures that the information represented across the various views is consistent and does not contain anomalies.

CROSSFIRE USABILITY FEATURES

Graphical setup creation & run environment as well as batch runs

- Powerful hierarchical configuration language supporting macro functions
- Graphical debugging (message > double click > open relevant views)
- Graphical output filtering (zoom in on cells/formats/error-types)
- Waiving mechanism
- HTML and CSV reports
- Automatic setup generation
- Setup API
- Generic setups
- Parallel Parsing feature



CROSSFIRE INTEGRATION FEATURES

API for creating database independent checks, available in: Perl, Tcl and Python

Existing customer validation scripts can be integrated

Visualization messages/results from customer scripts (double click opens message)

CROSSFIRE INTERVIEW

Visualization and browsing of database contents

Opens e.g. LEF, GDS, CDB, OA and Milkyway views in a single window

CROSSFIRE DIAGNOSE

Diagnose is the Crossfire GUI designed for users that wish to only analyze Crossfire results. The setup and test definition sections of Crossfire are completely shielded from the user. The user can see, report, filter, waive and analyze the generated Crossfire messages.

ABOUT FRACTAL TECHNOLOGIES

Fractal Technologies is a privately held company with offices in Los Gatos, California and Eindhoven, the Netherlands. The company was founded by a small group of highly recognized EDA professionals.

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