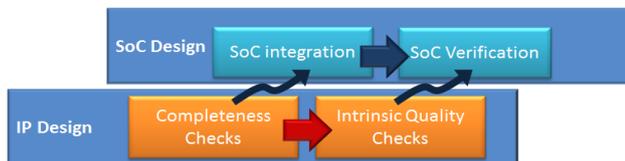


LATEST WHITEPAPER: VALIDATING NEW FORMATS

Introducing and validating new formats for IP design using Fractal Crossfire.

New formats and databases need to be included in the IP deliverables with the same level of quality and robustness as the existing, proven formats. Fractal Crossfire is an IP quality assurance tool used by IP design teams and SoC designers to verify the consistency and quality of a particular IP delivery.

When an IP characterization flow needs to be extended with a new format, one that has to be included in the final delivery, two phases can be distinguished in the path to maturity. These are illustrated in the following figure:



New format introduction and validation

For more information please click on link below:

[New formats whitepaper](#)

RACTAL AT DAC, BOOTH 1110

Visit us at DAC in San Francisco

June 7-11, 2015



For Crossfire presentation and demo please contact rene@fract-tech.com.

DAC ARTICLE ON SEMIWIKI

(by Pawan Fangaria)

“I have been observing [Fractal Technologies](#) exhibiting at [DAC](#) year after year, and every time it has demonstrated good added value features in its tools for SoC and IP development. ...”

For the full article please click on link below:

[Fractal SemiWiki article](#)

CROSSFIRE UPDATES

Recently Crossfire has been improved in various areas:

- New formats:
 - Spice v2lvs variant
- New Rules:
 - CTL ScanStructures check
 - Compare min/max Liberty files
 - Check switch_pin functionality
 - Check presence of properties based on property
 - MilkyWay vs LEF unit Title check
 - LEF antenna presence check
- HTML reports now show the current parameter values used

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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