

### NEW CDIFF FEATURE ADDED TO CROSSFIRE

Fractal's powerful Crossfire platform is extended with the Cdiff feature.

"It's not often that a single button in a software tool can justify an article all to itself. The new Crossfire diff option, or Cdiff for short, is one of them. Who better to ask for details than Johan Peeters, the CTO and co-founder of Fractal Technology?"

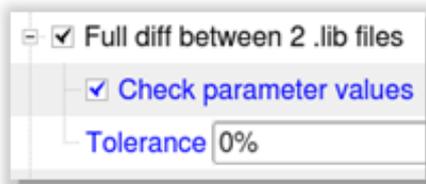


Figure: Cdiff switch in GUI

For more information please click on link below:

[Crossfire Cdiff White Paper](#)

For Cdiff article on SemiWiki please click on link below:

[Cdiff article on SemiWiki](#)

### FRACTAL AT DAC, BOOTH 1110

Visit us at DAC in San Francisco

June 7-11, 2015



[Fractal virtual DAC booth](#)

### CROSSFIRE UPDATES

Recently Crossfire has been improved in various areas:

- Fractal API:

- 3 new layout manipulation functions added
- New formats:
  - DSPF (Detailed Standard Parasitics Format)
- AOCVM (Advanced On Chip Variability Model) format:
  - Support for version 3.0
  - Keywords version check
- HTML reports now show the detailed messages in "overlay" mode
- New Rules:
  - Property presence based on tables
  - LEF pins port placement cross check
  - OBS layer in LEF must be present in other formats
  - Check overhang/overlap of polygon to boundary
  - Check the width of rectangular polygons
  - Timestamp check can now check if each .db file is newer than the .lib file

### 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 because of:

- 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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