



NEWS LETTER May 2013

Fractal joins SemiWiki



Fractal recently joined the SemiWiki project. The first article on the Crossfire White Paper written by Pawan Fangaria was published on May 1st.

[Crossfire – Builds Designs with Quality](#)

The Semiconductor Wiki Project is an online semiconductor collaboration site for professionals involved in semiconductor design and manufacturing.

Visit Fractal at DAC, booth 1617



Fractal will participate in DAC. Of course we are showing our latest features for Crossfire. If you are interested in a

Crossfire demo please email the preferred date and time to info@fract-tech.com.

Please check out our virtual booth and schedule your visit

[Fractal at DAC 3-5 June 2013](#)

Crossfire Updates

Recently Crossfire has been improved in various areas:

- CF v4 has been out for several months with excellent feedback from users!
Users report speed-ups up to 5x!
- Support for SPECTRE.
- HTML report tool can merge several databases, this will allow to create reports on parallel runs.
- Reporting possible in CSV format (Comma Separated Values).
- Automatic setup tool and support for gzipped liberty files (.lib.gz). No more need to unzip these files.
- 5 new checks added including the IP Routability check.

Crossfire User Models

Crossfire users are split into 3 main groups:

- Used as Signoff for:
 - Standard Cell / IO Libraries
 - Hard IPs
- Used in Design Flow in:
 - Library Groups
 - Characterization Groups
 - IP Groups
- Used for Incoming Inspections for:
 - Standard Cell Libraries
 - Hard IPs



About Crossfire

Crossfire reports mismatches or modelling 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
- Generic setups

Crossfire integration features

API for creating database independent checks, available in: Perl, Tcl and Python
Existing customer validation scripts can be integrated

Visualisation 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

About Fractal Technologies

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

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