

FRACTAL AT DAC 2016

Austin, Texas, June 5-9



For demo and presentation on IP Validation please visit us at Booth 1718



CROSSFIRE UPDATES

RECENT CROSSFIRE IMPROVEMENTS:

- New Rules:
 - Retention cell has backup power
 - Always on cell has backup power
 - Level shifter cell check
 - Power switch cell has backup power
 - POCVM monotonicity check
 - POCVM versus .lib check
 - When condition matches the x_function
 - Ensure that the pins in the ANTCLF match the LEF
 - CCSN table consistency check

MORE FORMATS SUPPORTED

On request of customers, we have added the following formats:

- POCVM (Power On Chip Variability)
- ANTCLF (Antenna information file)

NEW CELL CLASSES

Crossfire has been extended with a new cell classes feature. This will allow users to define cells using regular expressions and not operators.

RUNTIME IMPROVEMENTS

Crossfire runtime improved by 25% to 40%.

FRACTAL ON SEMIWIKI

IP Development in Japan

by Pawan Fangaria

[Jedat](#) Japan EDA Technologies is a world reputed company in the semiconductor community that provides innovative tools, technologies and services for semiconductor design solutions and its adjacent areas such as MEMS and flat-panel displays. Jedat has a large presence in Japan as well as international regions around the world through several of its partner networks, alliances and OEMs in the semiconductor domain including EDA tools, design solutions, foundries, and standards organizations.

Jedat opened distributorship for **Fractal's** tools in Japan region.

Read the full article [IP Development in Japan](#) online!

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 (ECSSM, 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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