

NEW FORMATS ADDED TO CROSSFIRE

Fractal's powerful Crossfire platform can be easily extended with new formats. On request of our customers we have recently added the following formats.

UPF PARSER

Unified Power Format parser

This standard defines the syntax and semantics of a format used to express power intent in energy aware electronic system design. By adding this format customers can for example check if power pins defined in the .lib match with the UPF definitions.

APL/REDHAWK PARSER

APL reader can be used to parse power information from the RedHawk/ANSYS tool.

AOCVM PARSER

Advanced On Chip Variability Model. This parser is an addition for the .lib files. By adding this format customers can for example check if there is an AOCVM file for every liberty corner

CROSSFIRE UPDATES

Recently Crossfire has been improved in various areas:

- New API:
 - dbAPI allows to create your own statistics from a given `fnx.database.db`
- New formats:
 - UPF parser
 - APL/RedHawk
 - AOCVM (On Chip Variability)
- HTML reports can be generated per cell.
- New Rules:
 - Noise arc checks across .lib files
 - Check for lower and upper case cell names
- Check pin order alphabetically in the header list of modules
- Check for LEF to look for touching/overlapping pins
- Schematic property check for library defined properties
- 3 new AOCVM checks

BEST WISHES FOR 2015

In 2014 we managed to achieve our goals and by doing so we doubled our revenue. We will continue to work closely with existing and new customers to add features and functionality to our Crossfire tool. That's why we are convinced that 2015 will be another great year for our company.

Of course business success is important but let's not forgets the important things in life. We wish you all a healthy and prosperous 2015; enjoy Christmas and New Year with family and friends.

[Bobby McRerrin - Don't Worry Be Happy](#)





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
- 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

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 Campbell, California and Eindhoven, the Netherlands. The company was founded by a small group of highly recognized EDA professionals.

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