



NEWS LETTER March 2013

VISIT FRACTAL AT DAC 2013



Visit Fractal at DAC 2013, booth 1617,
Austin, June 2-6



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

Major Crossfire 4.1 Release

We proudly announce the new Crossfire 4.1 release. It includes a major speed up in runtime for all checks and formats.

This release implements the one-time parsing project.

Crossfire's run-time improved substantially. Speed-up ranges from 30% on small data to 500% for larger runs

handling multiple NLDM/CCS/ESCM .lib files.

The speed-ups are related both to the data and the checks performed.

Speed-ups are due to:

1. One-time parsing of formats that are checked by multiple API scripts
2. Faster processing of the message-database
3. Parallel processing.

The new release is 100% compatible. Crossfire setup and behaviour is exactly as before. All setups and wrappers will remain working without updates.

Crossfire Updates

Recently Crossfire has been improved in various areas:

- V4 release implements general speed-up from 30% to 500% for certain checks
- Several support tools speed-up 10x
- 4 new checks added including the 1st check on CCSNoise
- 3 new application notes added
 - Using waivers
 - 3th party tool integration
 - Running CF from command lines

Crossfire Whitepaper

This paper describes how the Fractal Crossfire product can address QA challenges. We will show how Crossfire has its place in every stage of the SoC design flow, serving different purposes to different users. Because of the breadth of deep-submicron quality checks and the rich set of supported EDA formats and databases Crossfire can cover any design flow and quality requirements.

[Click here for Crossfire White Paper](#)



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 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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