



# NEWS LETTER

May 2012

## VISIT FRACTAL AT DAC 2012



Fractal at DAC 2012, booth 2805,  
San Francisco, June 3-7



Fractal will participate at DAC. We will be demonstrating the latest features of Crossfire and QAtest. If you are interested in a demo please email us the preferred date and time at [info@fract-tech.com](mailto:info@fract-tech.com)

Fractal Technologies is dedicated to provide high quality solutions and support to enable Customers to validate the quality of internal and external IPs and Libraries. Thanks to our validation solutions, Fractal Technologies maximize value for its Customers either at the Sign Off stage, for incoming inspection or on a daily basis within the Design Flow process.

Fractal Technologies' goal is to become the de facto IP & Library Validation

Solutions Provider for the Semiconductors Industry. At the same time Fractal will stay independent to keep its intrinsic value by delivering comprehensive, easy to use and flexible validation solutions.

### Crossfire usage model at customers:

- As sign off tool for:
  - Standard Cells Libraries
  - Digital IPs
- In Design Flow for:
  - Library validation
  - IP validation
  - Independent characterization validation
- Incoming Inspections for:
  - Standard Cell Libraries
  - IPs

### Crossfire Updates

Recently Crossfire has been improved in various areas:

- Support for DEF
- Support for Verilog AMS
- Support for System Verilog
- More than 25 new checks added of which 10 LEF specific checks
- Possibility to create and work with generic setups
- Several substantial speed-ups for large IP blocks.





## 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
- Automatic setup feature
- 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 Milky Way 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.

## Contact Fractal:

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