



# NEWS LETTER

September 2014

## FRACTAL APPOINTS DAOINCUBE AS KOREAN DISTRIBUTOR

Both Fractal Technologies and DaouIncube are convinced that customers and prospects in Korea will benefit from this cooperation. Fractal's proven technology and the local support from DaouIncube will be a guarantee for a successful implementation of the Crossfire products at customer's site.

"We are very happy that DaouIncube has decided to join forces with the Fractal team to introduce our products and technology in Korea" says Rene Donkers, CEO of Fractal Technologies.

"The strong relationship with our customers will allow a fast introduction of the Crossfire products" says SangHo Park, Director Sales of DaouIncube.

## FRACTAL ARTICLE ON SEMIWIKI

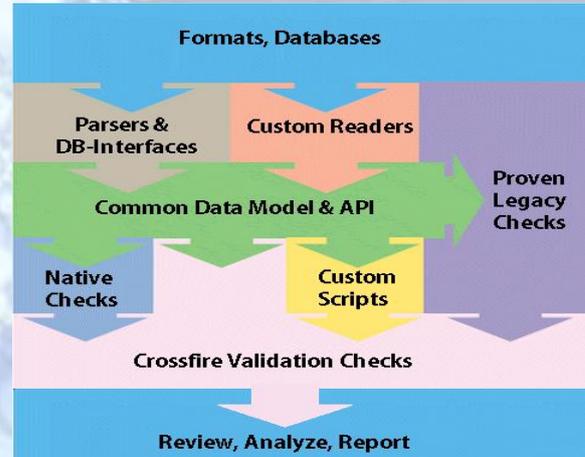
### Crossfire – Your partner for IP development, what's new?

By Pawan Fangaria

As the SoCs and IPs grow in sizes and complexities, the number of formats, databases, libraries of standard cells and IOs also increase. It becomes a clumsy task to check every cell in a library, its consistency among various format with respect to functionality, timing, naming, labels and so on, and its complex physical properties such as size, pitch alignment, routability of its pins and several others. It's very tedious to do manually, using scripts can be an option, but that may

involve risk of missing finer points and may prove costly at the end.

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## Crossfire Updates

Recently Crossfire has been improved in various areas:

- New Rules:
  - Check for values in tables based on conditions
  - Check for 0 values in any table
  - Check for double defined voltage maps
  - Check for 0 sized polygons
  - Check for pin layers based attributes in .lib file
- HTML reports can be generated with user defined colours.
- All formats can be directly read as .gz files.
- It's now possible to run checks on more than 1500 .lib files
- Layout viewer speedup by 50%



## 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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