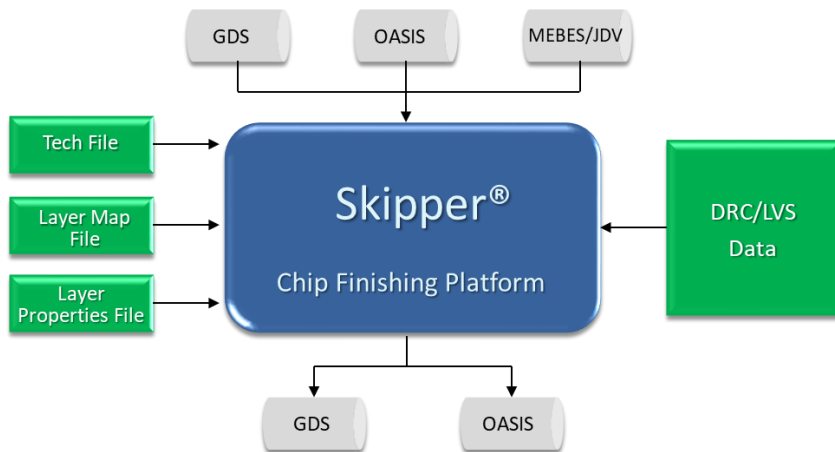


Skipper®

All-Inclusive Layout Analysis and Chip-Finishing



Features and Benefits

- **Fastest Chip Finishing Platform**
 - ❑ ~50G/min GDS reading speed
 - ❑ ~10G/min OASIS reading speed
 - ❑ Exceeding 1T GDS data capacity
- **Quick and Easy Layout Review**
 - ❑ Unique layout server shared memory layout loading method for teamwork
 - ❑ Provide varies and efficient query functions to quickly grasp the data
 - ❑ Automatic measurement, screenshot and report generation , improve sign-off efficiency
- **Convenient Layout Analysis with Debugging**
 - ❑ Resistance extraction
 - ❑ Net tracing
 - ❑ Layout comparison
- **Comprehensive Layout Data Processing**
 - ❑ Fastest layout merge tool
 - ❑ Powerful batch layout data processing capability

Overview

Empyrean™ Skipper® is an efficient easy-to-use chip-finishing and layout analysis debug tool; handling up to 1TB size layout data with fast visualization using unique layout server technology while generating the smallest memory footprint. Supported data formats include GDS, OASIS, LEF/DEF, Open Access, MEBES. Users can use Skipper® through an intuitive interface, or use Tcl APIs to integrate into their own workflows, shortening time-to-market and improving tape-out success.

Skipper® provides a convenient layout analysis and debugging platform for loading DRC and LVS databases; quickly locating DRC/LVS errors and correcting them. The built-in resistance calculator can extract equivalent resistance between any points of the layout and determine the current density of the net to provide reference for ESD path design and IR/EM analysis. Skipper®'s powerful net tracing engine supports the connection of the most advanced technology and can identify layout short/open in the shortest time.

Skipper® utilizes an optimized multi-threaded layout loading algorithm and unique data structure for quick read-in of layout data. To overcome the IO bottleneck of read file, a unique layout server shared memory read protocol was developed to increase the read speed of layout data by more than 100 times. Skipper® is an ideal platform for completing data merger of GDS and OASIS layouts, creation and editing of layout, generation of isolated views, highlighting and saving nets and other data manipulation functions. Taking on these tasks in an automated P&R environment has never been easy or economical; now Skipper® provides a perfect platform that is both fast and efficient.

Functionality

❑ Layout Analysis And Debug

❖ Resistance Extraction

Easy to use layout resistance extraction function quickly obtains resistance value

- Built-in resistance extraction engine without the LVS process
- Calculate resistance while calculating current density to identify weak point on the net

❖ Net Tracing

Powerful Net Tracer quickly locates layout connection problems

- Hierarchical tracing mode can extract PG related layouts in a very short time
- Fast display of the shortest path to easily locate the shorts
- Automatically calculate via reliability on the net to identify weak connection points.

❖ Layout Comparison

The fastest layout LVL tool supporting up to 1TB comparisons

- Select according to cell, hierarchy, area, etc.
- Layouts are displayed side by side, with synchronized zooming to improve efficiency of LVL differential browsing.

❑ Batch Operation

LVL, merge, query and edit functions have corresponding commands to facilitate batch command operations and integrate into existing flows.

❑ Layout Data Processing

❖ Layout Query

Rich layout information query and reporting system greatly improves layout sign-off efficiency

- Find layout elements, multiple measures.
- Automatically generates reports such as: Pad Report, Summary Report, IP report, FIB report, and DRC Report.

❖ Layout Merge

Efficient Batch Layout Merge function, completes the chip integration in the shortest time.

- Provides cell auto-rename, overwrite, append
- Assemble a variety of merge methods, to meet a variety of customer requirements.
- GDS and OASIS hybrid merge

Specifications

❑ Supported Data Formats

Supports multiple data formats, viewing all physical data from design to manufacturing on one platform

- LEF/DEF
- OA
- GDS
- OASIS
- MEBES (Data and JDV)

❑ Supported Platforms

X86 64-bit:

- Red Hat Enterprise V5, and V6

Sales Contacts

Headquarters

Huada Empyrean Software

2F Building A, Wang Jing Hi-Tech Park,
No.2 Lizezhong'er Road Chaoyang
District, Beijing, 100102, P. R. China
TEL: +86-10-84776888
FAX: +86-10-84776889
Web: www.emyrean-tech.com
EMAIL: info@emyrean-tech.com

USA

ICScape Inc.

4030 Moorpark Ave, Suite 100,
San Jose, CA 95117, USA
TEL: +1-408-736-8886(N. CA)
www.icscape.com
E-mail: info@icscape.com

Singapore

MEDs Technologies Pte.Ltd.

5012, Ang Mo Kio Avenue 5 #04-01
Techplace II, Singapore 569876
Tel: +65 6453 8313
Fax: +65 6453 7738
www.meds-tech.com

Korea

linkGlobal21

#301, 81, Hyeonam-ro, Suji-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-70-5138-0700
www.lg21.net/
E-mail: eda@linkglobal21.com

Japan

SYNKOM CO.,LTD

Shin-Yokohama Station BLDG 3F,
Shin-Yokohama 2chome 6-13 Kouho-ku,
Yokoama, 222-0033, Japan
Tel: +045-479-4168
Fax: +045-479-4169