

Argus™

Fast and Accurate DRC/LVS

Benefits

- Cost-effective, in-design DRC/LVS
- Minimal learning curve
- Growing foundry support

Key Features

- High-performance dimensional, density and antenna checking
- User selectable Area-based DRC
- Works with GDSII, OASIS and OpenAccess™
- Efficient short-finding
- Integrated debug and analysis environment—PVE™

Introduction

Argus is an accurate and fast physical verification system. Its **multi-threaded** architecture offers near-linear scalability in performance (Fig 1) and memory usage. Its ability to process **commands and data in parallel** results in delivering consistently high performance. Uses a TCL-based language for rules, which is consistent with industry standard run-sets. With the capability to support any angle layout, Argus is an ideal solution for analog and mixed-signal (big A and small D) designs.

Its built-in graphical and intuitive debug environment enhances user productivity and allows users to debug DRC/LVS output from Argus, and as well as other leading third-party DRC tools. Argus supports GDSII, OASIS™, and OpenAccess™ layout formats.

Argus is a **verification platform**, integrated to Aether™ and leading design 3rd party layout editors, enabling full DRC, LVS and integrated debugging. In addition, very fast layout versus layout comparison is made possible by FlashLVL™, an integrated companion tool from Argus' multi-threading implementation offers near-linear scaling of performance and memory (Fig 1) utilization. As a result, Argus is very fast on analog and mixed-signal (big A/small D) type of designs.

In addition, Argus allows interactive area based DRC within a user selected window on a given layout. This area-based feature is available as standard from Aether™ or Skipper™ environments when integrated with Argus. The same has been made available to customers from a 3rd party layout environment as a custom capability.

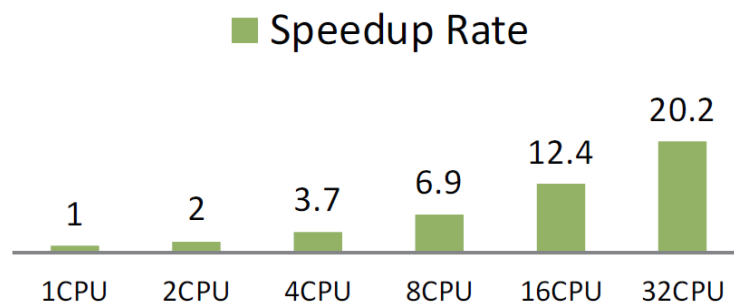


Fig1. Near-linear scalable performance

Argus LVS features include:

- Flat and hierarchical LVS
- Netlist vs. netlist analysis
- Electrical rule checks such as path check, soft connect check, etc.
- Intelligent recognition of logic circuits to improve performance and results
- Options to filter dummy devices
- Support for IP-level LVS
- Efficient short finding with LVS-hot-spot (intersection of shorted paths) detection
- Point out schematic differences by semi-logic and semi-database SVS comparison

PVE, the integrated graphical DRC/LVS debug environment, allows easy-to-use analysis and fixing of DRC violations. Fits well as an in-design debug application tool. Using PVE, user can:

- Sort and filter DRC errors and filter duplicate errors
- Read and analyze violation reports from other leading DRC/LVS tools

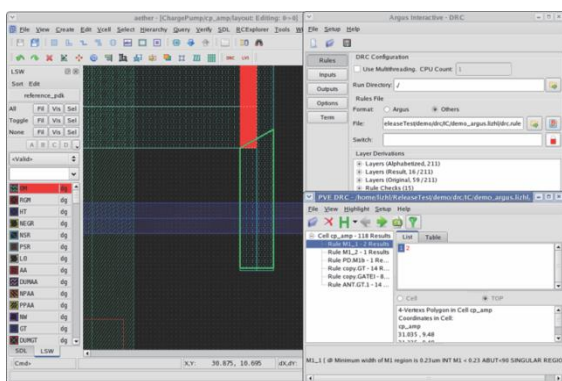


Fig2. Detecting and Fixing DRC Violation

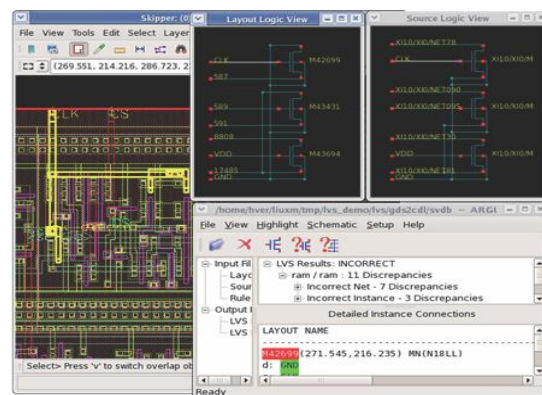


Fig3. LVS Analysis in a Chip Finishing environment using Skipper™

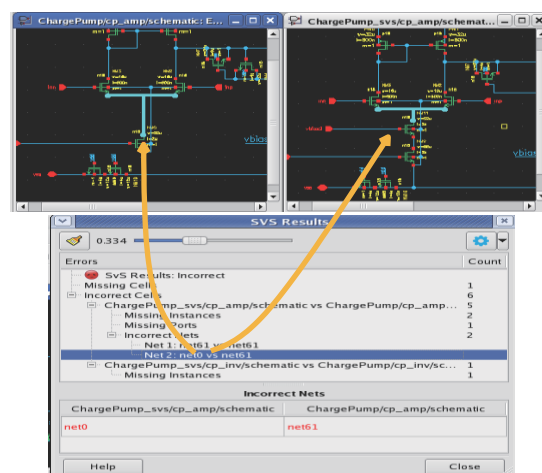


Fig4. SVS Comparison

Supported Platforms

X86 64-bit:

- Red Hat Enterprise V4, V5, and V6
- SUSE Linux 9 and 10

Sales Contacts

Headquarters

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

USA

ICscape Inc.
 4030 Moorpark Ave, Suite 100,
 San Jose, CA 95117, USA
 TEL: +1-408-736-8886(N. CA)
 TEL: +1-714-812-2181(S. CA)
 www.icscape.com
 E-mail: info@icscape.com

India

ALPHA-IMAGER PRIVATE LTD.
 2711, 2 MAIN, HAL 3 STAGE,
 BANGALORE-560075,INDIA
 Tel: +91-80-25287888
 Fax: +91-80-25282288
 www.alphaimager.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

Southeast Asia

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

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