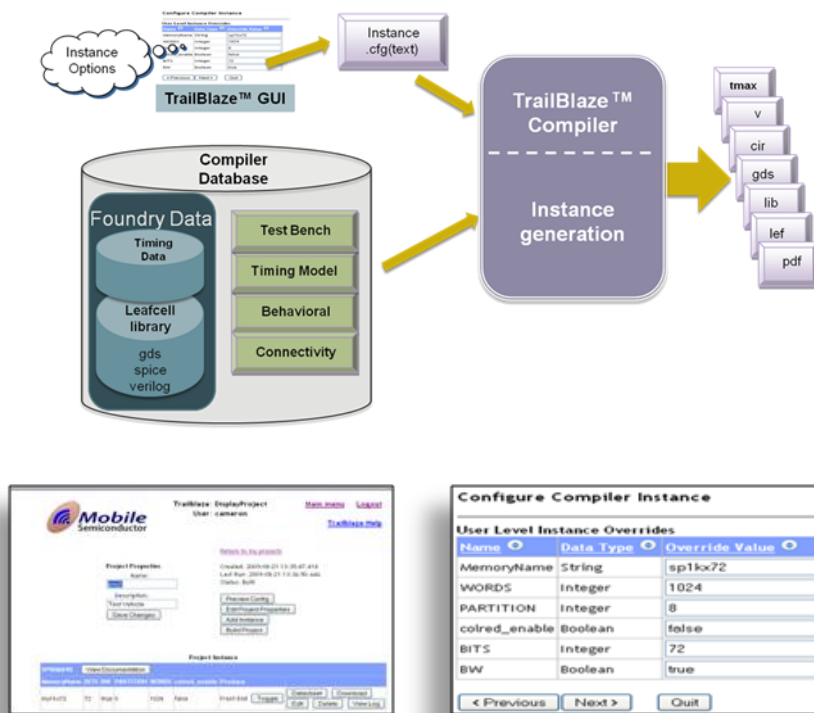


## EMS<sup>2</sup> TRAILBLAZE™ COMPILER SOFTWARE



## OUTPUT VIEWS

- PDF and Text based Datasheets
- GDSII layout: Power pins on upper metal.
- GDSII P&R Abstract with signal, power and blocking information to use in Synopsys Flow.
- Liberty File with timing and power
- LEF version 5.6
- Behavioral Verilog model with fault modeling capability
- Behavioral Test Bench
- Structural Verilog Netlist
- List of cells for Hierarchical LVS
- LVS SPICE Netlist

*EMS<sup>2</sup>Trailblaze is Mobile Semiconductor's robust and fully automated software which enables development and deployment of high quality best-in-class custom SRAM memory compilers on a variety of different processes and technologies.*

## FEATURES

- Complete **production ready** memory instance generation in minutes
- GUI-driven** to simplify tool usage
- Range checking** of user options to insure valid instance configuration
- Quick evaluation** of power, area and performance of SRAMs.
- Text configuration file for **command line operation** and easy CAD flow integration
- Physical views compliant to Cadence, Synopsys, Magma, Mentor tools
- Voltage Scaling compliant timing models
- Built in **interpolation** and **de-rating** capability
- Standard BIST** compatibility ( Mentor – MBIST and Synopsys Designware Memory BIST)
- Optional built-in capability to **re-characterize** to new operating conditions/models
  - o Does not require purchase of ANY third party software licenses



**EMS<sup>2</sup> TRAILBLAZE**

**Memory Compiler  
TECHNOLOGY**

*The standard for embedded memories!*

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For more information, Please email [embedded-solutions@mobile-semi.com](mailto:embedded-solutions@mobile-semi.com)

EMS<sup>2</sup> - Embedded Memory System Solutions and Trailblaze are trademarks of Mobile Semiconductor Corporation.

## Introduction

With tremendous developments continuing to happen in semiconductor manufacturing every year, the implementation of a plethora of overarching designs has been made possible. Every System-on-Chip (SoC) design consists of several components and embedded memories form an integral part of these current era designs.

The electronics industry requires wide access to a large selection of high quality semiconductor IP that is guaranteed to work the first time it is manufactured and that is easy to integrate with their design. Mobile Semiconductor offers a variety of embedded memory products that are driven by users' requirements for die area, performance and power.

## EMS<sup>2</sup> Trailblaze

Mobile Semiconductor's EMS<sup>2</sup> Trailblaze software is a result of extensive memory design and automation experience.

The software encapsulates several leading edge memory design concepts pioneered by Mobile Semiconductor's experts, to deliver memories with best-in-class quality and the biggest bang for the buck.

## Generating Memories

Memory Compiler libraries designed using EMS<sup>2</sup> Trailblaze are available to generate memory instances, directly from the web using an interactive GUI. Users can quickly generate memories of desired size in various aspect ratios, for which specific circuits are optimized. This guarantees memory instances to be within 3% of performance and area of custom designed memories.

## About Mobile Semiconductor Corporation

Mobile Semiconductor Corporation was founded in 2006 with a charter to provide high quality, differentiated semiconductor IP, that includes embedded SRAM compilers, Flash controllers and high performance Solid State Drives.

*Each memory instance is delivered with an extensive and accurate set of models, supporting industry-leading formats, thoroughly tested verified and qualified by Mobile Semiconductor's Engineers. The products are designed to support cutting edge, widely practiced leading EDA solutions in the electronics industry.*



Visit us at [www.mobile-semi.com](http://www.mobile-semi.com)

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