Si2 Corporate Overview

Introduction

Si2 is an organization of over100 industry-leading semiconductor, systems, EDA and manufacturing companies focused on improving the way integrated circuits are designed and manufactured in order to speed time-to market, reduce costs, and meet the challenges of sub-micron design. Si2 focuses on developing practical technology solutions to industry challenges driven by its member companies.

Key Projects





■ OpenAccess Coalition

OpenAccess is a community effort to enable tightlyintegrated, multi-vendor tool flows through an open standard data API and reference database supporting that API.

■ OpenPDK Coalition

The goal of the OpenPDK Coalition is to define a set of open standards to allow a PDK to be portable across foundries and agnostic to EDA tools. The Coalition will define new standard specifications at the PDK development environment level, as well as standards for delivery of a populated PDK file set.





■ Design-for-Manufacturability Coalition

The DFMC addresses the increasing cost and complexities associated with design for manufacturability. The goal of the DFMC is to enhance and broaden the interchange of design information and manufacturing process characterization so as to improve DFM integration across customer design flows. increase yield predictability and decrease designmanufacturing cycles.

■ Low Power Coalition

The Low-Power Coalition was formed to enhance capabilities in low-power Integrated Circuit (IC) design flows relating to specifications of low-power design intent, architectural tradeoffs, logical/physical implementation, design verification and testability. Working groups are now looking at low-power data models and design flows.





Open3D TAB

The Open3D Technical Advisory Board (TAB) participation is drawing from a wide range of the supply chain, including fabless leaders, packaging / OSAT, foundries, and system/ OEMs. Open3D TAB is scoped to define open standard interfaces and formats to enable interoperable 2.5D and 3D design flows.

■ Silicon Photonics TAB

The Silicon Photonics TAB (SP TAB) will help enable photonic-electronic design flows. The project has originated from the EU's Plat4M project, which is addressing electronics and photonics co-design, integration, and interoperability challenges.



Compact Model Coalition

Si2 acquired the Compact Model Council (CMC) in May, 2013. The CMC was formed in 1996 for the purpose of developing and standardizing the use and implementation of SPICE models and the model interfaces. It has been renamed the Compact Model Coalition. The CMC will continue its basic goal of examining, promoting and standardizing SPICE modeling efforts based upon business needs.

Si2 Member List



Si2 is an organization of over 100 industry-leading companies in thesemiconductor, electronic systems and EDA industries.

Advanced Micro Devices Agilent Technologies

Altera AMS

AnaGlobe Technology Analog Devices

ANSYS
ARM
Atoptech
Atrenta
Aurrion

AWR Corporation

Blackcomb Design Automation Borchia Design Automation Broadcom Corporation Cadence Design Systems

Calxeda

Calypto Design Systems

CEALETI

Chip Path Design Systems Concept Engineering GmbH Coupling Wave Solutions

D2S

Demos on Demand

Denso
Docea Power
Dolphin Integration
eASIC Corporation
EDA Consortium
edacentrum
EDXACT
Elpida Memory,

Entasys Design
Fractal Technologies
Fraunhofer Institute

Fujitsu

GLOBALFOUNDRIES

Gradient Design Automation GRID Simulation Technology

Helic

Hewlett-Packard

Huada Empyrean /ICScape

IBM IMEC In2Fab

Infineon Technologies Institut d'Elect., PSUD

Intel Invarian IPICSi Limited Jedat Juspertor UG

Keirex Technology Kenji Morohashi Lattice Semiconductor

LEAP LSI

Lumerical Solutions Marvell Semiconductor

MatrixOne
Maxim Integrated
MediaTek
Mentor Graphics

Micro Magic Micron Technology Nannor Technologies

Natl Institute of Advanced Industrial Science, Technology (AIST)

Nimbus Automation NP Komplete Technologies

NXP Oracle Panasonic Corporation

PDF Solutions

Peregrine Semiconductor

Phoenix Software

Polaric

Polyteda Software ProPlus Design Solutions

Pulsic Limited Qualcomm R3 Logic

Renesas Electronics Corporation

Ricoh

Samsung Electronics

SEMATECH SEMI

Semiconductor Research Corp. Silicon Frontline Technology

Silvaco SK Hynix Sony

Spectral Design &Test

STARC

STMicroelectronics

Synopsys

Takumi Technology Tanner Research, Inc. Teklatech A/S Tela Innovations, Inc.

Texas Instruments

Tool Corp.

Toshiba Corporation

Toyota TSMC UMC

















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