



**OpenSPARC™**

# OpenSPARC Community Participation

**David Weaver**

Principal Engineer, UltraSPARC Architecture

Principal Evangelist, OpenSPARC

Microelectronics

Sun Microsystems



# OpenSPARC participation

- Community Registration:  
<http://www.sunsource.net/servlets/Join>  
After registration and confirming password,  
you can join the mailing lists:  
<http://www.sunsource.net/servlets/ProjectMailingListsList>
- Forums:  
<http://forum.java.sun.com/category.jspa?categoryID=120>  
(separate registration required for posting)

# OpenSPARC participation

- Add your university (or company) to the marketplace:  
<http://www.opensparc.net/community-marketplace/>
- Send us your profile and we'll post it:  
<http://www.opensparc.net/profiles/>
- Add yourself to our Frappr!!:  
<http://www.opensparc.net/frappr.html>
- Contribute to our OpenSPARC Book:  
<http://wiki.opensparc.net/bin/view.pl/Main/Webhome>  
(separate registration required for editing)

# OpenSPARC Community Groups

## Academia/Universities

Architecture, ISA, VLSI course work  
Threading, Scaling, Parallelization  
Benchmarks

## EDA Vendors

Benchmarking  
Reference flow  
FPGA  
Emulation  
Verification  
Physical Design  
Multi-threaded tools



The logo features the word "Open" in orange and "SPARC" in blue, with a trademark symbol. The background of the slide shows a large colony of penguins on a beach.

## CMT Tools

Compilers, Threading  
Optimization  
Performance  
Analysis

## Hardware IP Suppliers

PCI cores, SERDES  
etc.

## Operating Systems

OpenSolaris,  
Linux, BSD  
variants,  
Embedded OSs

## Chip Designers

SoC designs, Hard  
macros  
Telecom applications

# OpenSPARC Grows the Community

- Simply RISC “S1”
  - > Single-core version of UltraSPARC T1
  - > Targets small embedded devices
  - > Runs Solaris and Linux
  - > Design also released under GPL
- Allows Sun to grow the SPARC community by virtue of having great technology (not by handing out money)

*“Due to the collaborative nature of the GPL license Simply RISC plans to add new features to the S1 Core and test them extensively over the next months with the help of the community.”*

<http://www.srisc.com>

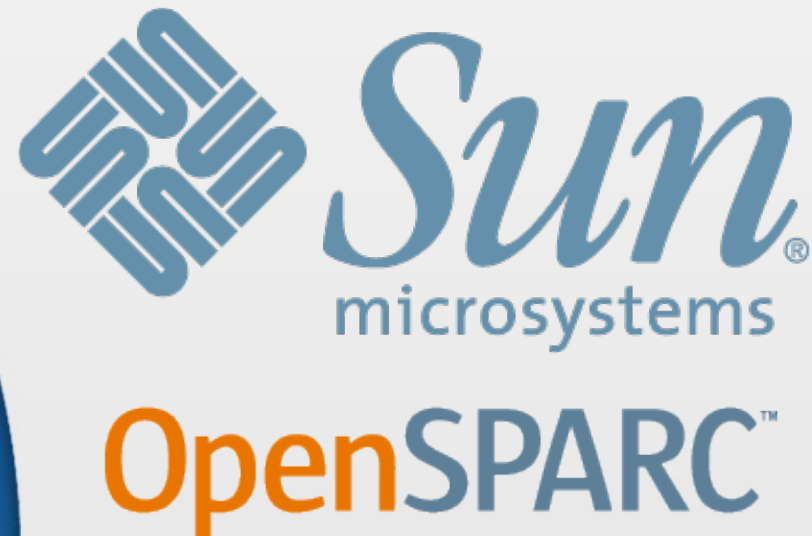


# OpenSPARC Governance Board

- Initial Advisory Board announced Sept 2006
  - > 3 Community members:
    - Nathan Brookwood, industry analyst (Insight64)
    - Jose Renau, Univ. of California at Santa Cruz
    - Robert Ober, Fellow, CTO Office, LSI Logic
  - > 2 members from Sun:
    - Simon Phipps, Chief Open-Source Officer
    - David Weaver, Principal Engineer, UltraSPARC Architecture
- Governance Board
  - > Advisory Board became initial Governance Board Jan'07
  - > Charter adopted
  - > Now working on OpenSPARC Constitution
  - > New Board to be elected from Community

# Global OpenSPARC Program

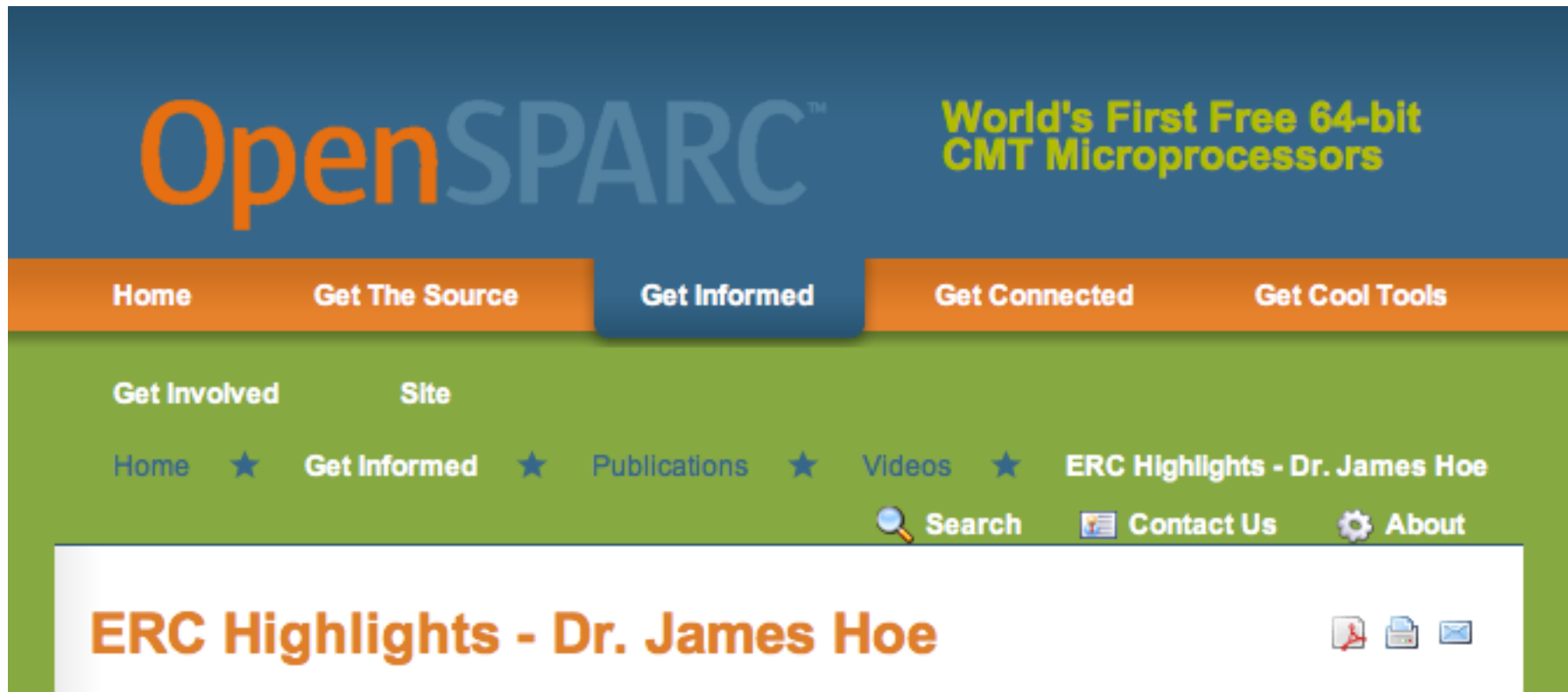
- **World's Fastest Processors**
- **Leader in Chip Multi-Threading**
- **The *Only* Open Source CMT or 64-bit Processor on the Planet**
- **Commitment to R&D**



# Why OpenSPARC?

- View Excerpts from Education and Research Conference 2008, Carnegie Mellon University Professor Dr. James Hoe's highlights from the Panel Discussion at the ERC. (7:27) at

<http://www.opensparc.net/publications/videos/erc-highlights-dr.-james-hoe.html>



The screenshot shows the OpenSPARC website interface. At the top, the logo 'OpenSPARC™' is displayed in orange and blue, with the tagline 'World's First Free 64-bit CMT Microprocessors' in yellow and green. Below the logo is a navigation bar with five orange buttons: 'Home', 'Get The Source', 'Get Informed' (which is highlighted with a dark blue background), 'Get Connected', and 'Get Cool Tools'. Underneath this is a green bar with 'Get Involved' and 'Site' in white text. A secondary navigation bar features blue links: 'Home', 'Get Informed', 'Publications', 'Videos', and 'ERC Highlights - Dr. James Hoe' (which is highlighted). To the right of these links are icons for 'Search', 'Contact Us', and 'About'. The main content area has a white background with the title 'ERC Highlights - Dr. James Hoe' in large orange text. On the right side of this area are three small icons: a PDF document, a printer, and an email icon.

# open

64 bit, 32 threads,  
free

<http://OpenSPARC.net>

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