

P1500 Core Test Benchmarking Task Force

Scott Davidson

Sun Microsystems

Members

- **Scott Davidson - Sun**
- **Grady Giles - Madrone Solutions**
- **Alan Hales - TI**
- **Steve Kornachuk - Artisan Components**
- **Rochit Rajsuman - Advantest**

Benchmarks for Cores

Goal

- **Collect a set of realistic set of core benchmarks for distribution.**

Advantage

- **These can be used to test wrapper and language**

Extended Goal

- **Collect a set of real SoCs.**

Advantage

- **Ability to check on core interactions in test mode.**

Status

- **2 Core examples found - both from Sun.**
 - **picoJava-II core**
 - **microSparc -IIep**
- **Cores from other providers would be appreciated - if open source or at least Community Source**
- **No SoC examples found - or likely**
 - **No resources available to create one from existing cores.**
 - **Little incentive for industry to make them available.**

Recommendations

- **Use the Sun cores as example.**
- **Look for more as part of the ongoing benchmark effort.**
- **Terminate the task force.**
 - **Mail to task force brought forth no objections.**

picoJava Core - Block Diagram

microSparc - Block Diagram

For More Information

<http://www.sun.com/microelectronics/datasheets/>

Select - picoJava II Processor Core
microSparc IIep

To get the code, go to

<http://www.sun.com/microelectronics/communitysource/index.html>