Welcome to SoCLib's development Trac

SoCLib Library

Code

- SoCLib Components General Index : contains documentation about the hardware components (IP cores) available in the SoCLib library.

Installation, usage

- Installation Notes : how to install the SoCLib platform on your computer

Development

- Adding new components to the library : the rules to follow to add a new IP core to the library.
- Soclib Cc is the current build system for SoCLib platforms

SoCLib OS & Middleware

- MutekA : OS kernel for MPSoCs with support for POSIX threads
- MutekH : exo-kernel based OS kernel for MPSoCs with support for POSIX threads
- MutekS : Optimised, static OS for DSX
- MWMR : Hardware / Software communication middleware

SoCLib Tools

- DSX : Design Space Exploration tool
- SystemCASS : Fast SystemC simulation kernel
- SoCView : Interactive simulation environment for debug and instrumentation
- GdbServer : A GDB server for multi-processor architectures
- MemoryChecker : A memory access error checker similar to valgrind.
- VCI Validation : A library for the validation of the VCI protocol (CABA and TLM-T versions)

SoCLib Resources

Mailing list

The dev@? Mailing list is public and targets general discussion about SoCLib component development.

To join the list, either

- send an email to dev-subscribe@?;
- see http://www.soclib.fr/wws/info/dev.

Writing and design guides

- General SoCLib Rules : general rules regarding the SoCLib components.
- CABA Writing Rules : rules to write SystemC CABA simulation models.
- TLM-T Writing Rules : rules to write SystemC TLM-T simulation models.
- Processor Modeling : a general method to write generic processor models.
- Endianness considerations? : Endianness rules in SoCLib

Miscelaneous

- Critères Pour Plate-Forme TLM-T : criteria defined for writing TLM-T simulation models.
- SoclibCc/DesignGuide is an attempt to justify the choices made in soclib-cc
- Models of documents? to be used by the project partners
- Frequently asked questions: When things goes wrong

Tutorials

- ?DSX tutorial
- and OS tutorial

Posters and publications

- PosterICT-Soclib-V5-HD.pdf