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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
- [MWMMR](#) : 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/www/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

Miscellaneous

- 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