

SoCLib components documentation

VCI Targets

- [VciRam](#) : A multi-segment embedded Ram controller
- [VciMultiTty](#) : A memory mapped multi-TTY controller
- [VciMultiTimer](#) : A memory mapped multi-Timer controller
- [VciIcu](#) : A memory mapped interrupt controller
- [VciLocks](#) : A memory mapped locks controller

VCI Initiators

- [VciXcacheWrapper](#) : A generic, VCI compliant, cache controller for 32 bits RISC processors
- [VciCcXcacheWrapper](#) : A generic, VCI compliant, cache controller for 32 bits RISC processors with directory-based cache coherence support
- [VciXcache](#) : An old cache controller for 32 bits RISC processors (deprecated)
- [VciDma](#) : A DMA engine
- [VciFdAccess](#) : A file system access controller
- [VciMwmrController](#) : A Mwmr channels controller

VCI Interconnects

- [VciVgmn](#) : A VCI compliant generic micro-network
- [VciLocalCrossbar](#) : A VCI compliant crossbar
- [VciPibus](#) : A VCI compliant PIBUS implementation
- [VciRing?](#) : A VCI compliant ring interconnect
- [VciDspin](#) : A VCI compliant DSPIN micro-network

Common utilities

- [TtyWrapper](#) : A simulator-side TTY abstraction tool, used by [VciMultiTty](#)
- [MappingTable](#) : A tool to declare and list all memory segments in a platform
- [ElfLoader?](#) : An ELF binary file loader utility

Optional utilities

- [ProcessWrapper](#) : A simulator-side fork/exec abstraction tool, with process' stdin/stdout communication
- [FbController](#) : A simulator-side framebuffer abstraction tool
- [VciTargetFsm](#) : A generic caba class for handling the VCI fsm part of target components, so that you can focus on the functionality

Instruction Set Simulators

- [Mips](#) : Mips-R3000
- [Ppc405](#) : PPC405
- [MicroBlaze](#) : MicroBlaze
- [NiosII](#) : NiosII
- [ARM7TDMI](#) : ARM7TDMI

- ARM966 : ARM966