libreChainEDA Project:
Design for Reuse Tool Flow Scripts

Kactus2 is a gui based design tool that can enter or modify hardware IP modules.It supports IP-Xact 1685-2014 design files.

Supported Tools

Kactus2   Version 3.2.35   sourceforge.net/projects/kactus2/

 Kactus2 is a gui based design tool that can enter or modify hardware IP modules.It supports IP-Xact 1685-2014 design files.

Fusesoc   Version 1.5   github.com/olofk

Fusesoc is a package manager that can fetch component IP from a IP host server such as opencores.org or github.com. It can also run tool flow scripts from the command line.

Socgen   Version 1.0.0   sourceforge.net/projects/socgen/

Socgen is a package of scripts for processing IP-Xact files and running IP-Xact componentGenertors

Icarus verilog   Version 10   iverilog.icarus.com/

Icarus verilog is a semi complete verilog only simulator

Verilator   Version 3.886 www.veripool.org/projects/verilator/wiki/Installing

Verilator is a verilog simulator that is limited to synthesize able only verilog.

Verilog-perl Version 3.418 www.veripool.org/wiki/verilog-perl

Verilog-perl provides some very useful support utilites.

Gtkwave Version 3.3.76 gtkwave.sourceforge.net/

Gtkwave is a VCD file wave viewer for simulations.

Covered Version 0.7.10 covered.sourceforge.net

Covered is a VCD file analyzer that provides code coverage metrics for simulations.

Yosys   version 0.6 www.clifford.at/yosys/

Yosys is a HDL synthesizer.

Arachne-PNR   version 0.0 www.clifford.at/arachne-pnr/

Arachhne-pnr performs place and route for fpgas

ICE Storm   version 0.0 www.clifford.at/icestorm/

Ice Storm creates programming files for fpgas

LibreChainEDA Supported Development Boards

Digilent Nexys2

Lattice IceStick

DE0_nano

Installation

Ubuntu

Install git from Ubuntu apps store

sudo apt-get install git

download libreChainEDA repo from github.com

mkdir github.com
chdir github.com
mkdir ouabache
cd ouabache
git clone http://github.com/ouabache/fossi

Install tools from Ubuntu apps store

cd fossi/install/Ubuntu
make install

Install remaining tools

cd fossi/tools
./install_all

Testing

copy development area

cp -r ~/github.com/ouabache/fossi/DESIGN ~/my_name

chdir my_name

./test_fusesoc   <= run a fusesoc demo

./test_socgen   <= run a socgen demo