CORE-V IDE
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Agenda

• About Ashling

• Integrated Development Environments
  • CORE-V IDE
  • RiscFree IDE

• CORE-V Demo
  • How to build and debug a CORE-V example program within the IDE
Ashling Introduction

• Development tools for embedded processors and MCUs

• IDEs, Compilers, Debuggers, Hardware Debug and Trace Probes for a range of embedded architectures

• Engineering services for custom tools requirements

• Expertise in complex real-time debug tools including
  • high speed debug connections
  • high capacity real-time trace probes
  • code coverage analysis, profiling, performance analysis etc.
CORE-V IDE

- **CORE-V IDE** is a freely available, open-source development environment created by the OpenHW group
- Eclipse based IDE for CORE-V development
- Includes the Compiler Toolchain for CORE-V provided by Embecosm
- OpenOCD Debug Support
- “Ready-to-run” examples for Digilent boards
- Getting started guide
- Available end September 2020
RiscFree IDE

- **RiscFree™** is Ashling’s professional, commercial grade software development environment
- Supports a range of 32-bit and 64-bit devices
- Code-coverage analysis
- Profiling and Performance Analysis
- OS Debug support
- Multi-core Debug Support for homogeneous and heterogeneous debugging (e.g. RISC-V and non RISC-V)
RiscFree support for OpenHW CORE-V

*RiscFree* Eclipse based IDE + Opella-XD JTAG Probe + Genesys2 FPGA Board

Professional, commercial grade software development and debug environment
CORE-V Demo by Rejeesh S.B.

- CORE-V Demo using Ashling’s RiscFree + Opella-XD Probe + Genesys2 FPGA platform
- How to build a CORE-V example program
- How to launch a Debug session using Opella-XD connected to the Genesys2 board
- Run-time debug features including go/stop/step/breakpoints and target access