GDB Server for Soclib

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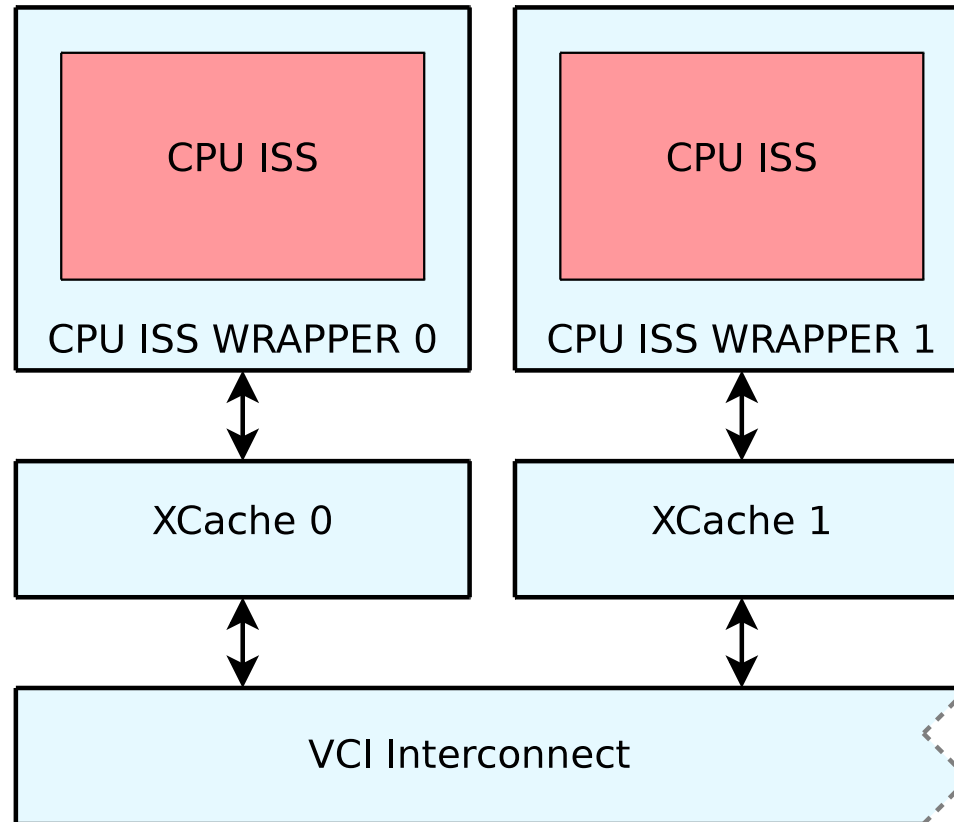December 11, 2007

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Features

- **gdb** client can connect to running soclib simulation through remote TCP connection.

- **gdb** server freezes processors while other platform components are still running.

- **gdb** server is just a processor ISS wrapper, it doesn't require soclib components modification.

- **gdb** server is processor architecture independent.

- Multiple processors platforms are fully handled by **gdb** server using **gdb** multi-threading feature.

Supported gdb operations

Common **gdb** operations are supported:

- Freeze on connection, May be frozen on boot

- Step by step, Continue

- Register and memory read/write access, disassemble, stack frame analysis

- Hardware break points, Hardware access watch points

- Optional catch of processor exceptions

- Processor selection

Soclib platform

Platform with gdb Server