

QEMU

Overview

This page describes the current status of SH4 support in QEMU. Support for SH4 is not included in the QEMU-0.9.0 release or earlier, therefore please compile QEMU using the latest source from CVS in order to obtain SH4 support.

The homepage for QEMU can be found here.

<http://wiki.qemu.org/Index.html>

For code access please use the repository hosted by GNU Savannah.

<http://savannah.nongnu.org/projects/qemu>

User Space Emulator

SH4 support can be enabled by passing `--target-list=sh4-linux-user` to the `./configure` script. This will enable SH4 user space emulation in Little Endian mode. It is also possible to enable experimental Big Endian user space emulation using `--target-list=sh4eb-linux-user`.

The SH4 user space emulators can be used together with Scratchbox version 2 aka sbox.

<http://www.freedesktop.org/wiki/Software/sbox2/>

System Emulation

Experimental SH4 system emulation in Little Endian mode can be enabled using `--target-list=sh4-softmmu`. Emulation is not complete at this point, but it is possible to launch a kernel and get some serial port output. Most instructions and interrupts are emulated today, together with very basic serial port and timer support. The MMU needs more work so it is not possible to launch a user space process yet.

The following command line can be used to start a kernel image:

```
qemu-system-sh4 -M r2d -kernel ~/zImage -nographic -monitor null -serial null -serial stdio
```