QEMU support for Xtensa

- Git tree (view): http://jcmvbkbc.spb.ru/git/?p=dumb/qemu-xtensa.git;a=summary
- Git tree (clone): git:*jcmvbkbc.spb.ru/~dumb/qemu-xtensa.git ===== Things to do ===== * core/basic opcodes implementation; * [+] and/or/xor/neg/abs; * [+] shifts; * [+] add[x*]/sub[x*]/add.n/addi.n; * [+] call0, callx0, j, b*; * [+] l32*, s32*; * [+] accurate SR write semantics; * [-] boolean registers/commands; * windowed registers; * [+] call*/callx*, retw, rotw, rfwo, rfwu; * [+] simple overflow algorithm that's triggered from ENTER; * [+] accurate overflow triggering; * [+] loop option; * [+] extended L32R option; * [-] floating point; * MMU; * [+] no-mmu mode; * [-] proper mem_idx usage; * [-] region protection (with/without translation); * gdbserver; * [+] xml register map, read/write register; * [+] correct SR mapping; * [+] debug exception, single step mode; * [+] hw/sw breakpoints; * [-] gdbserver for different processor types; * [-] debug option; * exceptions; * [+] debug (only external); * [-] break; * [+] window overflow/underflow; * [+] user/kernel (invalid insn, privileged insn, alignment, division by 0,...); * [+] relocatable vectors; * [+] external interrupts; * [+] timer interrupts; * [-] correct opcode timings?; * [+] qemu timer to avoid busy looping in waiti; * sample evaluation board; * [+] memory mapping, ELF loader; * [-] standard peripherals; * simulation quality; * [-] pass command line arguments to argc/argv SIMCALLs; * [+] TB chaining; * [+] external configuration (a-la xtensa overlay)? * [-] automatic regression test suite; ===== Events ===== * 2011.04.20: C++ 'hello world' is working in qemu (stdio, stdlib, simcalls, windowed registers, loops, ext l32r) (: * 2011.04.26: multithreaded ThreadX application is working in qemu (timer interrupts) * 2011.04.30: preparation for qemu mainline submission started * 2011.05.04: first RFC patchset sent to qemu-devel http://lists.nongnu.org/archive/html/qemu-devel/2011-05/msg00242.html * 2011.05.18: first PATCH patchset sent to qemu-devel http://lists.nongnu.org/archive/html/qemu-devel/2011-05/msg01525.html qemu*

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