Auto-generated by Migen (b1b2b29) & LiteX (c3ed8025) on 2020-06-30 17:53:32 ctrl 0x82000000 csr base csr base identifier mem 0x82001000 csr base uart_phy 0x82001800 csr base uart 0x82002000 csr base timer0 0x82002800 csr_base buttons 0x82003000 csr_base Icd core 0x82003800 ctrl reset 0x82000000 1 Read/Write csr register ctrl scratch 0x82000004 4 Read/Write csr_register ctrl bus erRead onlyrs 4 Read only csr register 0x82000014 csr register uart phy tuning word 0x82001800 4 Read/Write 1 Read/Write csr register uart rxtx 0x82002000 1 Read only csr register uart txfull 0x82002004 0x82002008 1 Read only csr register uart rxempty csr_register uart_ev_status 0x8200200c 1 Read/Write csr register uart ev pending 0x82002010 1 Read/Write csr register uart ev enable 0x82002014 1 Read/Write csr register timer0 load 4 Read/Write 0x82002800 timer0 reload csr register 0x82002810 4 Read/Write timer0 en 0x82002820 csr register 1 Read/Write csr_register timer0_update_value 0x82002824 1 Read/Write timer0_value 4 Read only csr_register 0x82002828 csr register timer0 ev status 0x82002838 1 Read/Write csr register timer0 ev pending 0x8200283c 1 Read/Write timer0_ev_enable 1 Read/Write csr_register 0x82002840 csr_register buttons in 0x82003000 1 Read only csr_register buttons dir 0x82003004 1 Read only buttons_ev_status 1 Read/Write csr_register 0x82003008 buttons ev pending csr_register 0x8200300c 1 Read/Write csr_register buttons ev enable 0x82003010 1 Read/Write lcd core DATA 0x82003800 1 Read/Write csr register Icd core ADDR 1 Read/Write csr register 0x82003804 csr register lcd core BUSY 0x82003808 1 Read only csr_register lcd_core_START 0x8200380c 1 Read/Write Icd core OPTION 0x82003810 1 Read/Write csr register csr register lcd core CS 0x82003814 1 Read/Write config clock frequency 100000000 constant config cpu has interrupt None constant 0 constant config cpu reset addr config_cpu_type_vexriscv constant None constant config cpu variant standard None config_cpu_human_name vexriscv constant constant config_cpu_nop nop 8 config csr data width constant 32 constant config_csr_alignment config_bus_standard wishbone constant

csr

constant	config_bus_data_width	32	
constant	config_bus_address_width	32	
constant	buttons_interrupt	4	
constant	timer0_interrupt	1	
constant	uart_interrupt	0	
memory_regionRead onlym		0x00000000	32768 cached
memory_regionsram		0x01000000	4096 cached
memory_regionmain_ram		0x40000000	16384 cached
memory_regio	ncsr	0x82000000	65536 io

Control Status Registers

	Address
ctrl	0x82000000
identifier_mem	0x82001000
uart_phy	0x82001800
uart	0x82002000
timer0	0x82002800
buttons	0x82003000
lcd_core	0x82003800

General Memory Map

	Address
rom	0x00000000
sram	0x01000000
main_ram	0x40000000
csr	0x82000000

	Control		
	Address	Type	size
Reset	0x82000000	Read/Write	1
Scratch	0x82000004	Read/Write	4
Bus errors	0x82000014	Read only	4

	Uart		
	Address	Type	size
Tuning word	0x82001800	Read/Write	4
Rx Tx	0x82002000	Read/Write	1
Tx full	0x82002004	Read only	1
Rx Empty	0x82002008	Read only	1
Event status	0x8200200c	Read/Write	1
Event pending	0x82002010	Read/Write	1
Event enable	0x82002014	Read/Write	1

	Timer		
	Address	Type	size
Load	0x82002800	Read/Write	4
Reload	0x82002810	Read/Write	4
Enable	0x82002820	Read/Write	1
Update value	0x82002824	Read/Write	1
Value	0x82002828	Read only	4
Event status	0x82002838	Read/Write	1
Event pending	0x8200283c	Read/Write	1
Event enable	0x82002840	Read/Write	1

	Buttons		
	Address	Type	size
In	0x82003000	Read only	1
Direction	0x82003004	Read only	1
Event status	0x82003008	Read/Write	1
Event pending	0x8200300c	Read/Write	1
Event enable	0x82003010	Read/Write	1

	LCD core		
	Address	Type	size
Data	0x82003800	Read/Write	1
Address	0x82003804	Read/Write	1
Busy	0x82003808	Read only	1
Start	0x8200380c	Read/Write	1
Option	0x82003810	Read/Write	1
Chip selector	0x82003814	Read/Write	1