Exception Causes (EXCCAUSE)

EXC- CAUSE Code	Cause Name	Cause Description	Required Option	EXC- VADDR Loaded
0	IllegalInstructionCause	Illegal instruction	Exception	No
1	SyscallCause	SYSCALL instruction	Exception	No
2	InstructionFetchErrorCause	Processor internal physical address or data error during instruction fetch	Exception	Yes
3	LoadStoreErrorCause	Processor internal physical address or data error during load or store	Exception	Yes
4	Level1InterruptCause	Level-1 interrupt as indicated by set level- 1 bits in the INTERRUPT register	Interrupt	No
5	AllocaCause	MOVSP instruction, if caller s registers are not in the register file	Windowed Register	No
6	IntegerDivideByZeroCause	QUOS, QUOU, REMS, or REMU divisor operand is zero	32-bit Integer Divide	No
7	Reserved for Tensilica			
8	PrivilegedCause	Attempt to execute a privileged operation when CRING ? 0	мми	No
9	LoadStoreAlignmentCause	Load or store to an unaligned address	Unaligned Exception	Yes
1011	Reserved for Tensilica			
12	InstrPIFDataErrorCause	PIF data error during instruction fetch	Processor Interface	Yes
13	LoadStorePIFDataErrorCause	Synchronous PIF data error during LoadStore access	Processor Interface	Yes
14	InstrPIFAddrErrorCause	PIF address error during instruction fetch	Processor Interface	Yes
15	LoadStorePIFAddrErrorCause	Synchronous PIF address error during LoadStore access	Processor Interface	Yes
16	InstTLBMissCause	Error during Instruction TLB refill	MMU	Yes
17	InstTLBMultiHitCause	Multiple instruction TLB entries matched	MMU	Yes
18	InstFetchPrivilegeCause	An instruction fetch referenced a virtual address at a ring level less than CRING	MMU	Yes
19	Reserved for Tensilica			

20	InstFetchProhibitedCause	An instruction fetch referenced a page	Region	Yes
		mapped with an attribute that does not	Protection or	
		permit instruction fetch	MMU	
2123	Reserved for Tensilica			
24	LoadStoreTLBMissCause	Error during TLB refill for a load or store	MMU	Yes
25	LoadStoreTLBMultiHitCause	Multiple TLB entries matched for a load or store	MMU	Yes
26	LoadStorePrivilegeCause	A load or store referenced a virtual address at a ring level less than CRING	мми	Yes
27	Reserved for Tensilica			
28	LoadProhibitedCause	A load referenced a page mapped with an attribute that does not permit loads	Region Protection or MMU	Yes
29	StoreProhibitedCause	A store referenced a page mapped with an attribute that does not permit stores	Region Protection or MMU	Yes
3031	Reserved for Tensilica			
3239	CoprocessornDisabled	Coprocessor n instruction when cpn disabled. n varies 07 as the cause varies 3239	Coprocessor	No
4063	Reserved			

Infos from Xtensa Instruction Set Architecture (ISA) Reference Manual