## 中断向量(vector)取值

Usage	中断向量(vector)取值		含义	Exception handler	Signal
Usage	Dec	Hex		[NOTE #1]	_
Nonmaskable	0	00	Divide Error (DIV and IDIV instructions) [Fault]	divide_error()	SIGFPE
	1	01	Debug (Any code or data reference) [Trap or Fault]	debug() [NOTE #2]	SIGTRA
	2	02	非屏蔽中断(NMI)	nmi()	None
	3	03	Breakpoint (INT 3 instruction) [Trap]	int3() [NOTE #2]	SIGTRA
	4	04	Overflow (INTO instruction) [Trap]	overflow()	SIGSEG
	5	05	BOUND Range Exceeded (BOUND instruction) [Fault]	bounds()	SIGSEG
	6	06	Invalid Opcode (UnDefined Opcode) [Fault]	invalid_op()	SIGILL
	7	07	Device Not Available (No Math Coprocessor) [Fault]	device_not_available()	None
interrupts	8	08	Double Fault [Abort]	double fault()	None
and exceptions	9	09	CoProcessor Segment Overrun (reserved) [Abort]	coprocessor_segment_overrun()	SIGFPE
	10	0A	Invalid TSS [Fault]	invalid TSS()	SIGSEG
	11	0B	Segment Not Present [Fault]	segment not present()	SIGBUS
	12	0C	Stack Segment Fault [Fault]	stack segment()	SIGBUS
	13	0D	General Protection [Fault]	general protection()	SIGSEG
	14	0E	Page Fault [Fault]	<pre>page_fault() [NOTE #2] [Section Page Fault/do page_fault()]</pre>	SIGSE
	15	0F	Reserved	None	None
	16	10	Floating-Point Error (Math Fault) [Fault]	coprocessor_error()	SIGFPE
	17	11	Alignment Check [Fault]	alignment check()	SIGBUS
	18	12	Machine Check (MCE VECTOR) [Abort]	machine check()	None
	19	13	SIMD Floating-Point Exception [Fault]	simd_coprocessor_error()	SIGFPE
	20	14	Reserved		
	21	15	Reserved		
	22	16	Reserved		
	23	17	Reserved		
	24	18	Reserved		
Intel-reserved	25	19	Reserved		
Inter-reserved	26	1A	Reserved		
	27	1B	Reserved		
	28	10	Reserved		
	29	1D	Reserved		
	30	1E	Reserved		
	31	1F	Reserved		
	32	20	Device Interrupts		
External interrupts (IRQs)	48	30	IRQO_VECTOR (ISA interrupts,   Industrial Standard Architecture,工业   标准结构总线) - Timer		
	49	31	MVEに対象に対象		
	50	32	IRQ2 VECTOR (ISA interrupts)		+
	51	33	IRQ3 VECTOR (ISA interrupts) - TTY2		+
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52	34	<pre>IRQ4_VECTOR (ISA interrupts) - TTY1</pre>		
53	35	IRO5_VECTOR (ISA interrupts) - XT		
5.4	36	TROG VECTOR (ISA interrunts) - Flonny		
		TRO7 VECTOR (ISA interrupts) - Printer		
56	38			
57	39	IRQ9_VECTOR (ISA interrupts) - 重定向的 IRQ2		
58	3A	IRQ10 VECTOR (ISA interrupts)		
59	3B	IRQ11 VECTOR (ISA interrupts)		
60	3C	IRQ12 VECTOR (ISA interrupts)		
61	3D	IRQ13_VECTOR (ISA interrupts) - FPU IRQ		
62	3E	IRQ14_VECTOR (ISA interrupts) - AT Winchester		
63	3F	IRQ15_VECTOR (ISA interrupts)		
127	7F	Device Interrupts		
128	80	SYSCALL_VECTOR	system_call()	
129	81			
INVALIDATE_TLB_VECTOR_END- NUM_INVALIDATE_TLB_VECTORS+ 1		INVALIDATE_TLB_VECTOR_START		
		TANVALIDATE TID VECTOR END		
238	EE	INVALIDATE_ILB_VECTOR_END		
239	EF	LOCAL_TIMER_VECTOR	apic_timer_interrupt() 参见 apic_intr_init()节	
240	F0			
241	F1			
242	F2			
243	F3	XEN_HVM_EVTCHN_CALLBACK		
244	F4			
245	F5	UV_BAU_MESSAGE		
246	F6			
247	F7			
248	F8	REBOOT_VECTOR		
249	F9	THRESHOLD_APIC_VECTOR		
250	FA	THERMAL_APIC_VECTOR		
251	FB	CALL_FUNCTION_SINGLE_VECTOR		
252	FC	CALL_FUNCTION_VECTOR	call_function_interrupt() 参见apic intr init()节的smp intr init()	
253	FD	RESCHEDULE VECTOR		
254	FE	ERROR_APIC_VECTOR		
	53 54 55 56 57 58 59 60 61 62 63 127 128 129 INVALIDATE_TLB_VECTOR_END-NUM_INVALIDATE_TLB_VECTORS+ 1 238 239 240 241 242 243 244 245 244 245 247 248 249 250 251 252	53 35 54 36 55 37 56 38 57 39 58 3A 59 3B 60 3C 61 3D 62 3E 63 3F 127 7F 128 80 129 81 127 7F 128 80 129 81 238 EE 239 EF 240 F0 241 F1 242 F2 243 F3 244 F4 245 F5 246 F6 247 F7 248 F8 249 F9 250 FA 251 FB	S3   S5   IROS VECTOR (ISA interrupts) - XT	TROS_VECTOR (ISA interrupts) - XT   Winchester   S4

Local APIC spurious interrupt	255	FF	SPURIOUS_APIC_VECTOR	
	256	100	NR_VECTORS	

See start\_kernel()->trap\_init(), and section trap\_init().

NOTE #2:
See start\_kernel()->setup\_arch()->early\_trap\_init()