

_vectors:

```
    ldr pc, abort_addr
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    ldr pc, abort_addr
    ldr pc, abort_addr
    ldr pc, abort_addr
    ldr pc, abort_addr
    ldr pc, interrupt_addr
    ldr pc, abort_addr
```

```
abort_addr:      .word abort_asm
interrupt_addr:  .word interrupt_asm
```

_vectors_end:

Symbols `_vectors` and `_vectors_end` mark
region to be copied

```
void interrupts_init(void)
{
    unsigned int *dst = _RPI_INTERRUPT_VECTOR_BASE;
    unsigned int *src = &_amp;_vectors;
    unsigned int n = &_amp;_vectors_end - &_amp;_vectors;

    for (int i = 0; i < n; i++) {
        dst[i] = src[i];
    }
}
```

interrupt_asm:

mov	sp, #0x8000	@ init stack
sub	lr, lr, #4	@ compute return addr
push	{r0-r3, r12, lr}	@ save registers
mov	r0, lr	@ pass old pc as arg
bl	interrupt_vector	@ call C function
ldm	sp!, {r0-r3, r12, pc}^	@ return, ^ changes mode & restore cpsr