

From \$CS107E/src/interrupts\_asm.s

```
_vectors:
    ldr pc, abort_addr
    ldr pc, abort_addr
    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

From \$CS107E/src/interrupts.c

```
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];
    }
}
```

From \$CS107E/src/interrupts\_asm.s

```
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
```