```
_vectors:
    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 = &_vectors;
    unsigned int n = &_vectors_end - &_vectors;

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

## interrupt\_asm:

mov sp, #0x8000 sub lr, lr, #4 push {r0-r3, r12, lr} mov r0, lr bl interrupt\_vector ldm sp!, {r0-r3, r12, pc}^ @ init stack

@ compute return addr

@ save registers

@ pass old pc as arg @ call C function

@ return, ^ changes mode & restore cpsr