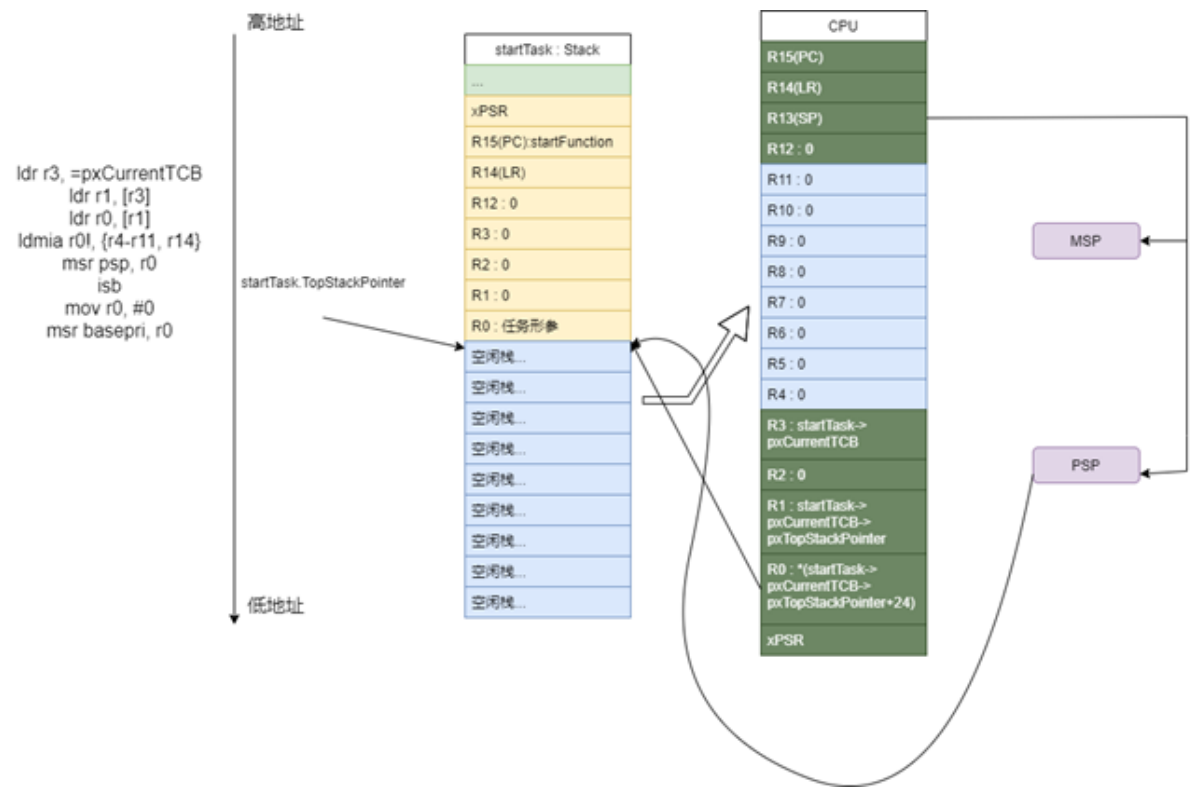
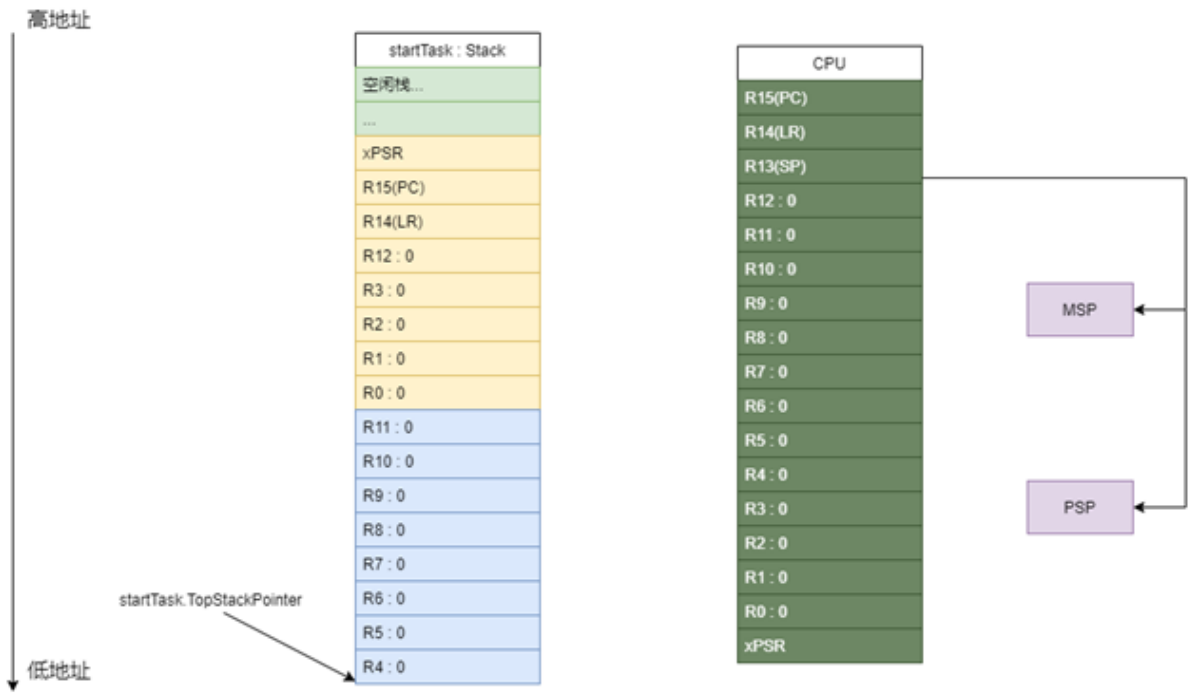
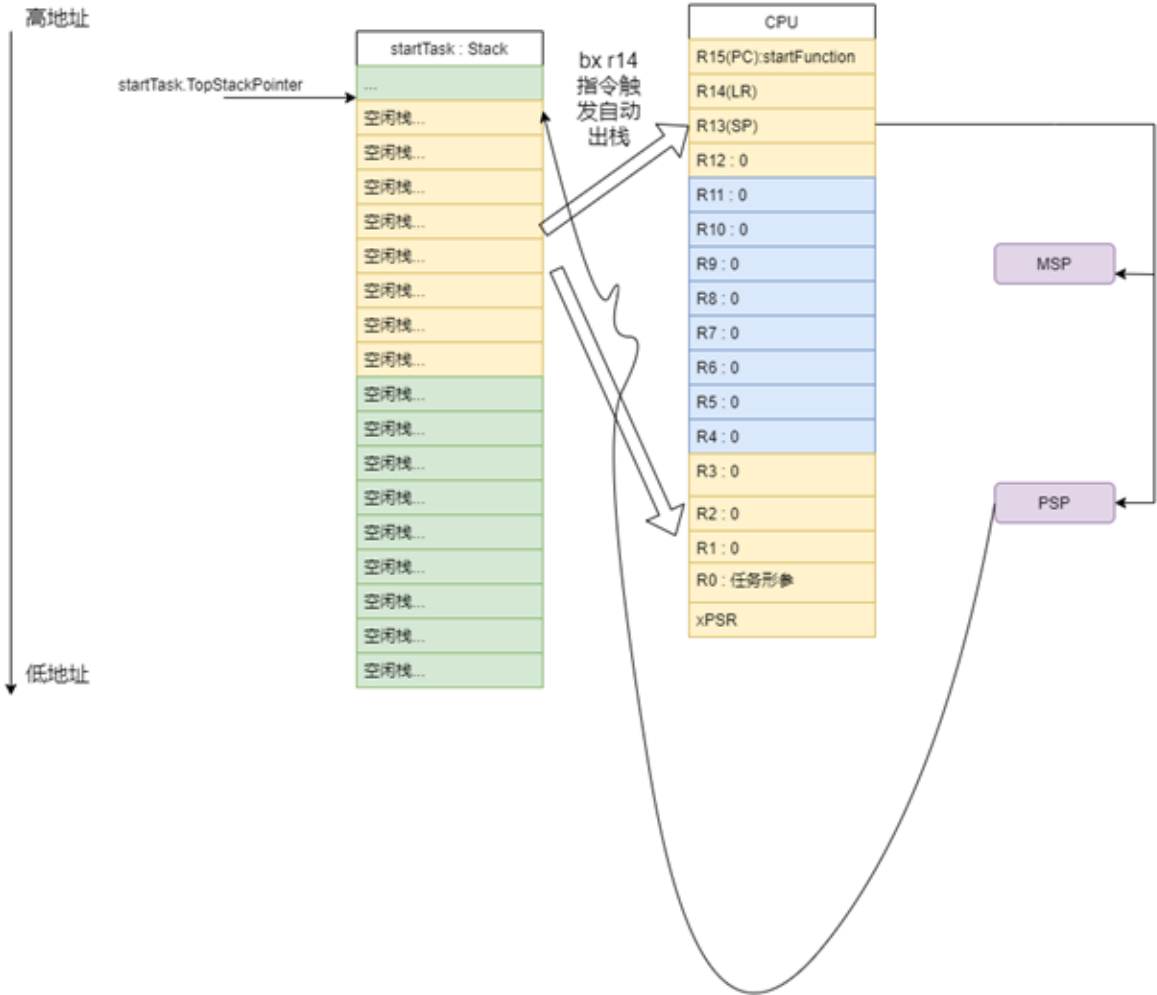


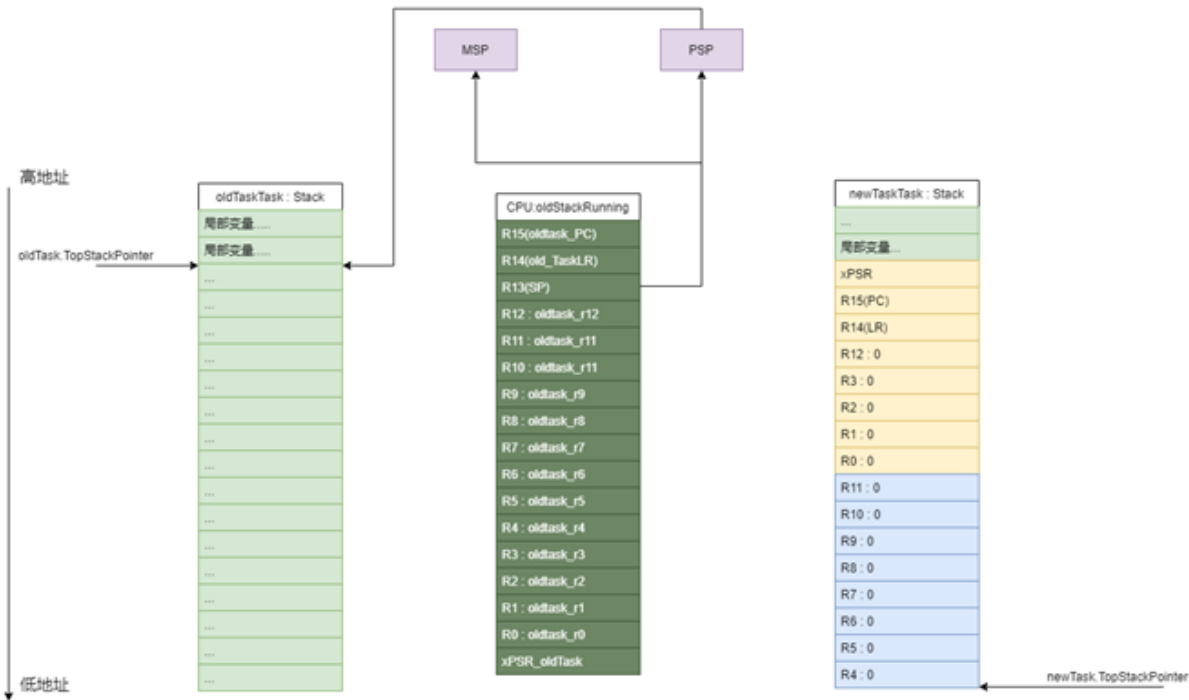
SVC过程



Start to Run StartTask Function



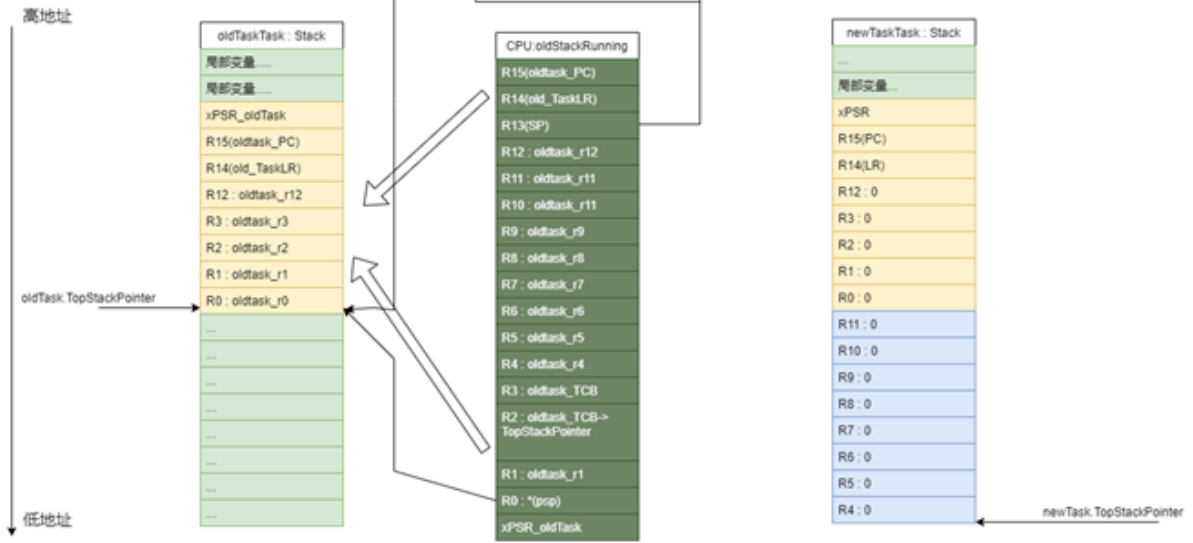
PendSV过程



```

PRESERVE8
/* auto store r0~r3 r12 r14 r15 xPSR*/
mrs r0,psp
isb
ldr r3,=pxCurrentTCB
ldr r2,[r3]

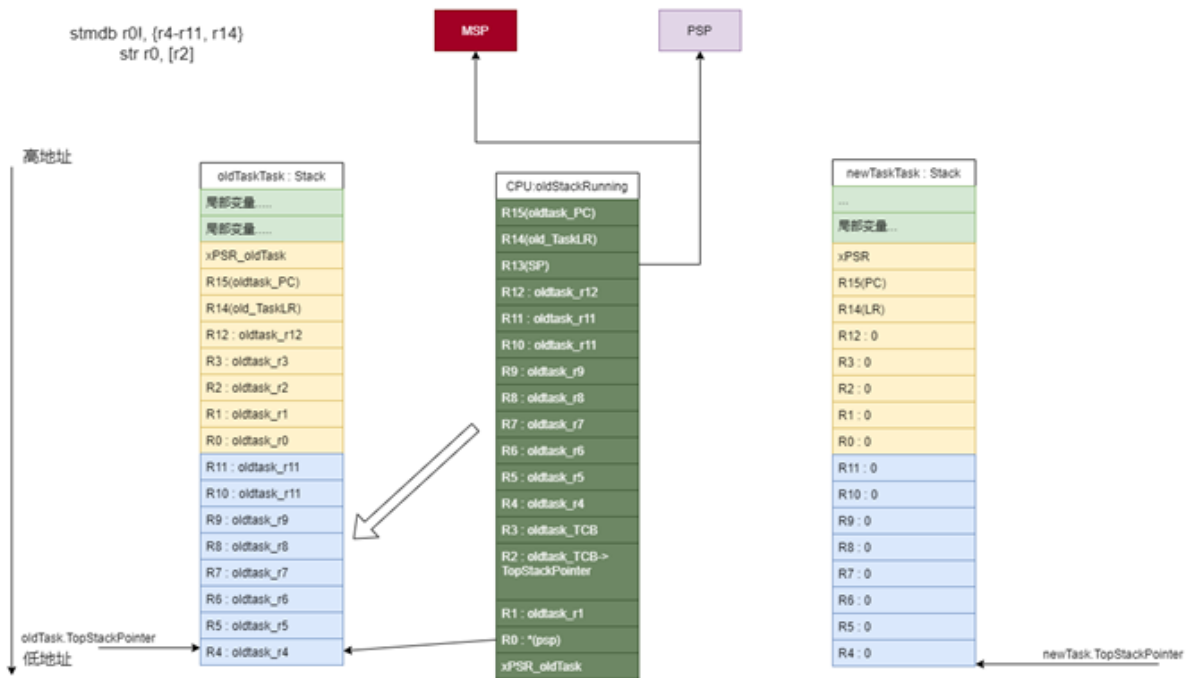
```



```

stmdb r0!, {r4-r11, r14}
str r0, [r2]

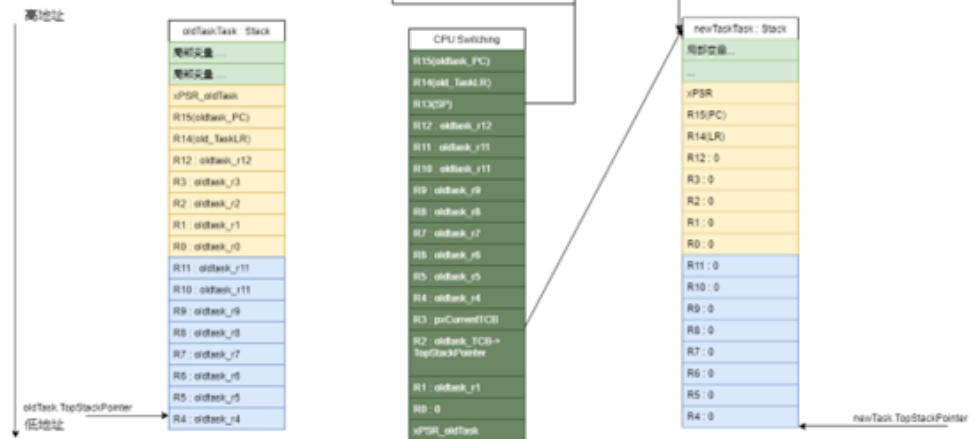
```



```

stmdb spl, {r3}
mov r0, #configMAX_SYSCALL_INTERRUPT_PRIORITY
cpsid i
msr basepri, r0
dsb
isb
cpsie i
bl vTaskSwitchContext /* call taskswitch */
mov r0, #0
msr basepri, r0
ldmia spl, {r3} /* recover the r3 (msp) */

```



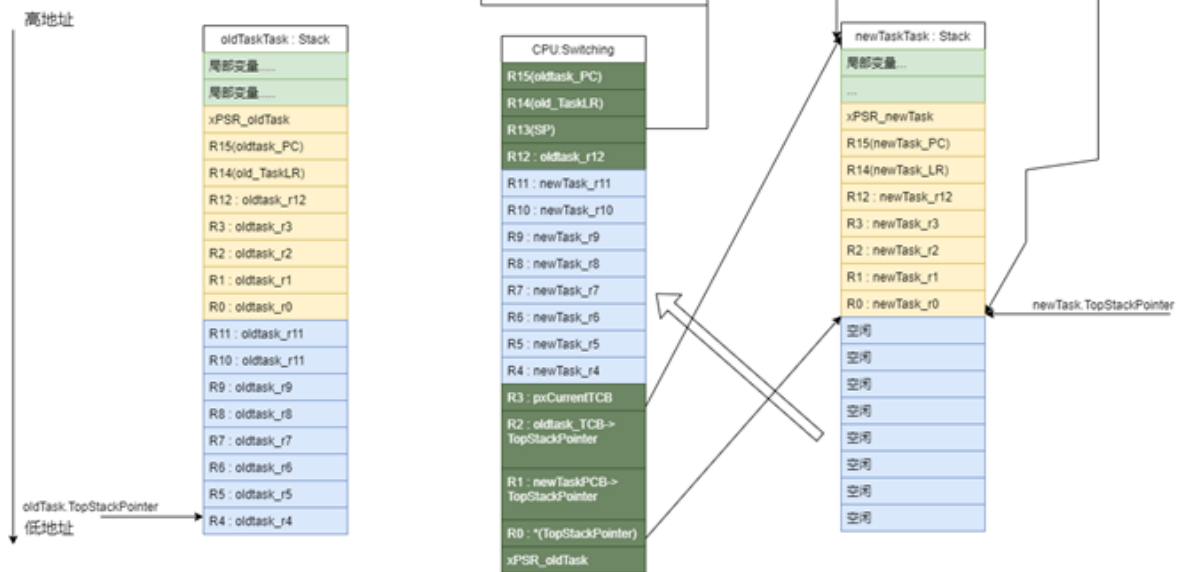
```

ldr r1, {r3} /* load new taskTCB to r1 */
ldr r0, {r1} /* load new stackpointer to r0 */

/* Pop the core registers to cpu. */
ldmia r0!, {r4-r11}

msr psp, r0 /* save the psp */
isb /* clear the assembly line */

```



bx r14 /* when exception appear , r14
save the flag of EXC_RETURN */
/*触发自动出栈机制*/

