



```
user
                                                                              process(
                    cpu context.x19!=0
                                                      returns
                            calls
                                                                           kernel exit
                                                              ret from
                 ret from
                                     kernel process()
switch to
                    fork
                                    ->move_to_user_mode()
                                                                 fork
```

```
user
                                                  process(
                   cpu context.x19==0
                                                kernel exit
                     ret from fork
switch to
```

```
user
                                                                               user
                                   process(
                                                                             process(
           cpu_context.x19==0
                                 kernel exit
                                                     returns
                                                                          kernel exit
                                                       to
                                                            ret_from
                 ret from
                                     kernel_process()
switch to
                                                                fork
                    fork
                                   ->move to user mode()
                      cpu context.x19!=0
```

```
thread
                                                                                   start
call_sys_
                                                                                x0 = = 0
                                                      x0!=0x
                                                                   . . .
 clone()
                                                        kernel_exit
     e10_
              e10_
                                        copy_
                                                    ret_from
                          sys_
                       clone(stk)
                                                    _syscall
                                      process()
     sync
              SVC
                                                                      ??
```