```
In-kernel dispatcher function
                                                   Rex program
rex dispatcher func:
                                                  rex prog1:
// save the callee-saved registers
pushq ...
                                                   ret
// save the stack and frame pointer
movq %rsp, PER CPU VAR(rex old sp) ...
                                                   Rex panic handler •
// switch stack
                                                  // clean allocated resources
movq PER CPU VAR(rex_stack), %rsp ...
// invoke the REX program
                                                   call iu dispatcher func•••••
call *%rdx .....
                                                   In-kernel landingpad
rex exit:
                                                   rex landingpad: <
// restore old stack and frame pointer
                                                   // report error
movq PER CPU VAR(rex old sp), %rsp
                                                   // set default return value
// restore the callee-saved registers
popq ...
                                                  imp rex exit
ret
```