```
Rex program
                                                    rex prog1:
                                                    ret
In-kernel dispatcher function
rex_dispatcher_func:
// save the callee-saved registers
                                                 Rex panic handler
pushq ...
                                                 // retrieve CleanupEntry on the current CPU
// save the stack and frame pointer
                                                 this cpu read(rex cleanup entries)
movq %rsp, PER CPU VAR(rex old sp) ...
                                                 // call cleanup fn for each entry
// switch stack
                                                 entry.cleanup() ...
movq PER_CPU_VAR(rex_stack), %rsp ...
                                                 // prepare the error message
// invoke the REX program
                                                 jmp 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 ...
                                                    jmp rex exit
ret
```