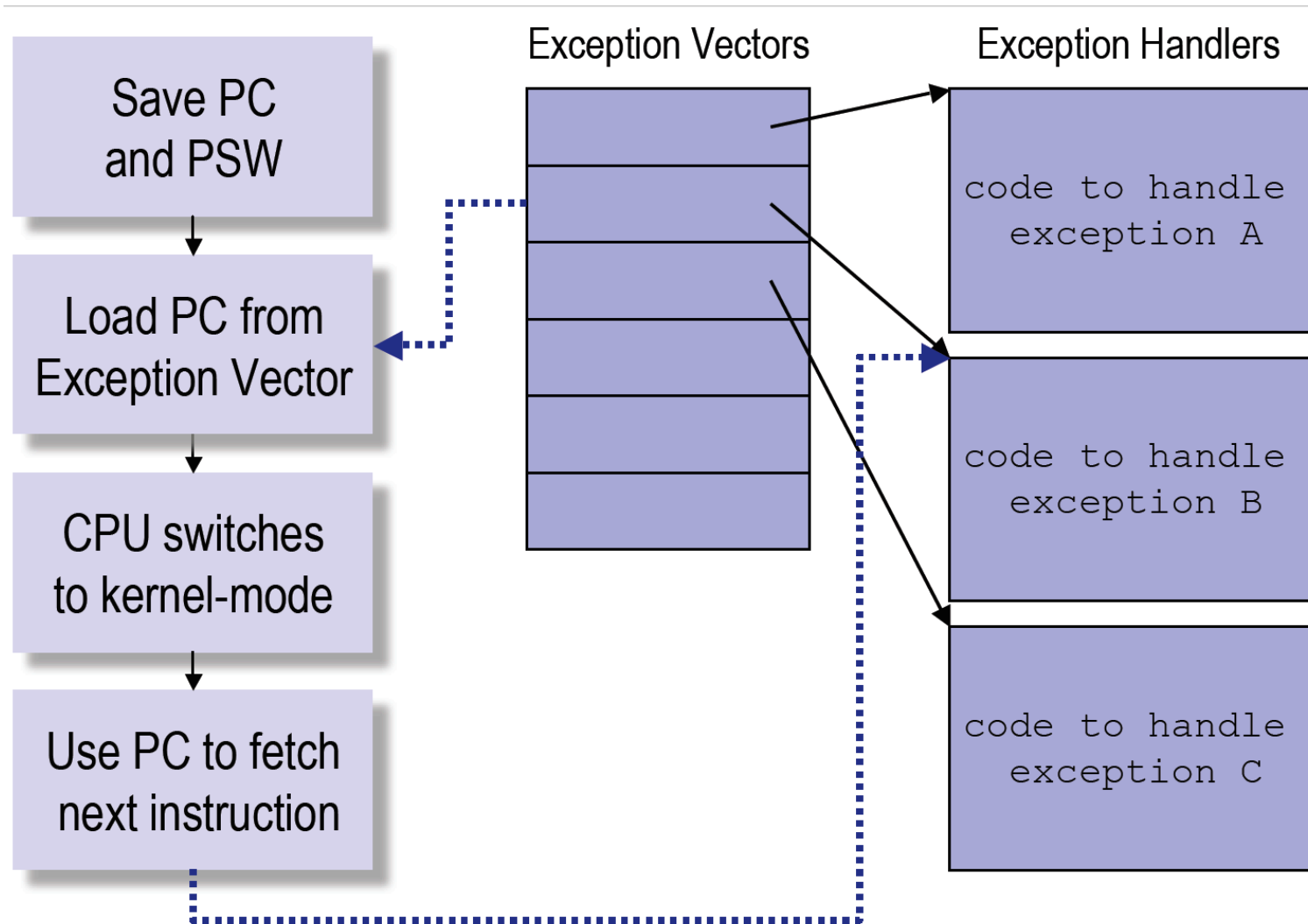


System Calls

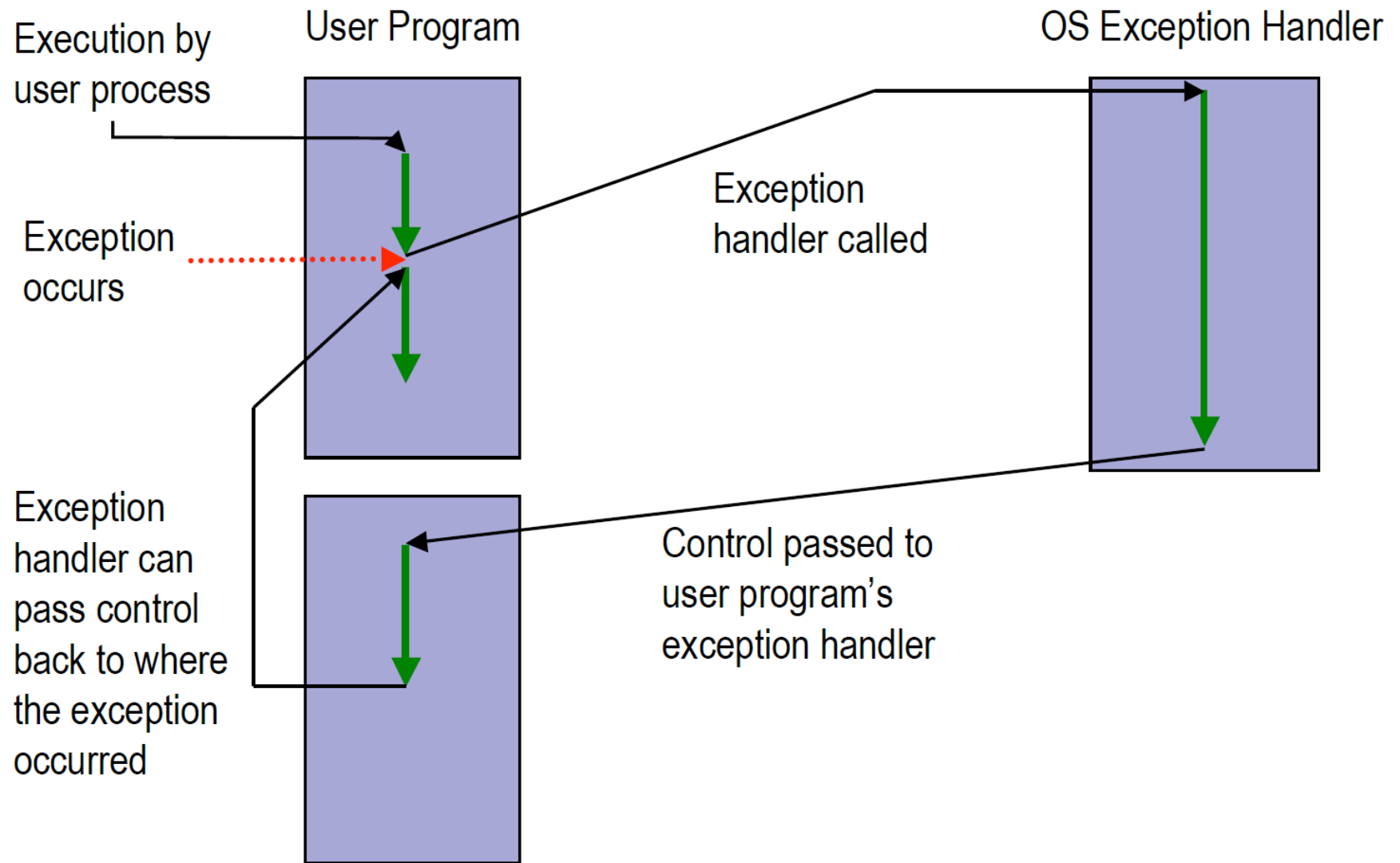
Material by Mark Handley & A.
Tanenbaum

Exception Handling

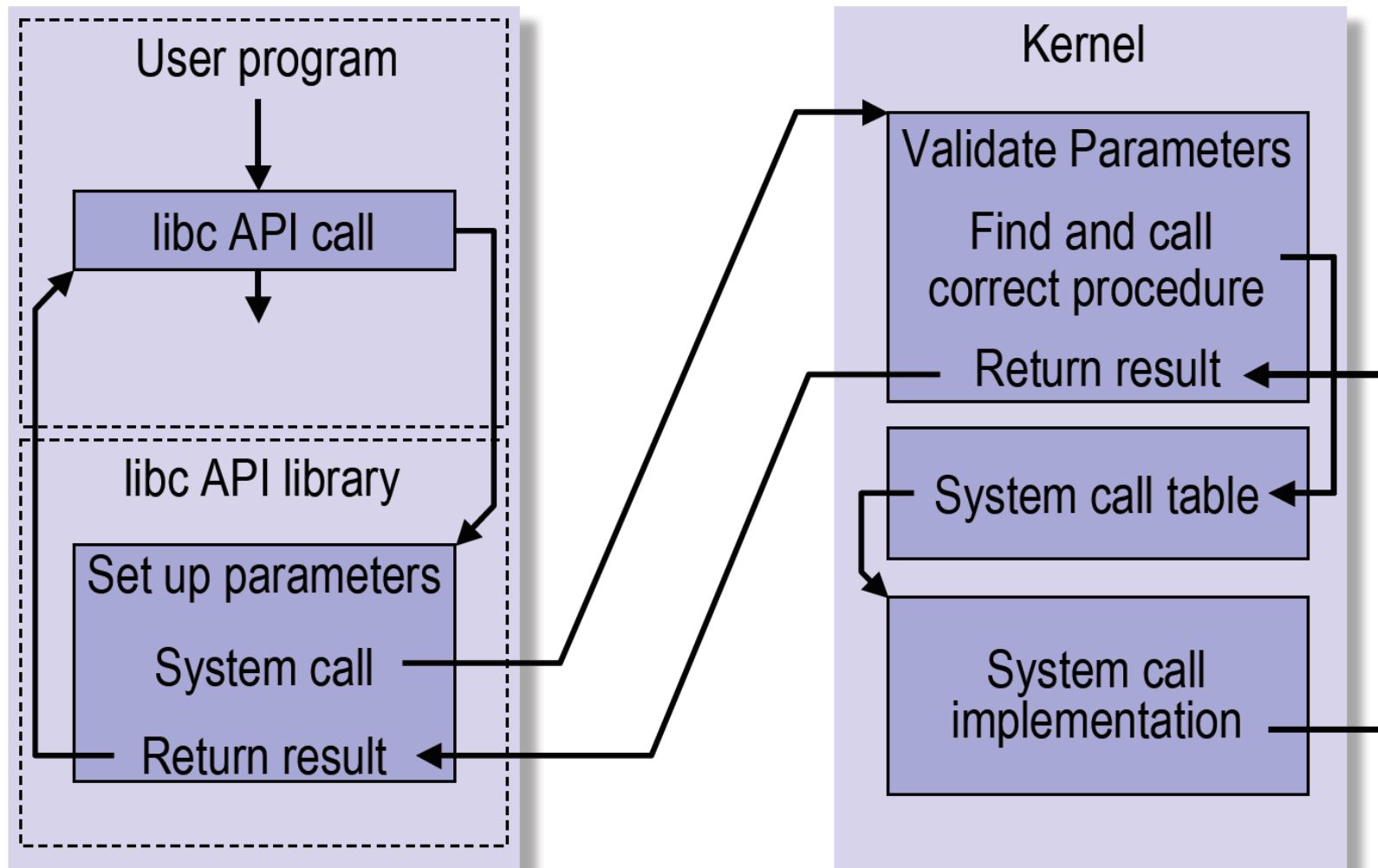


Divide-by-zero, invalid instruction, ...

User Exception Handling



Processing a System Call



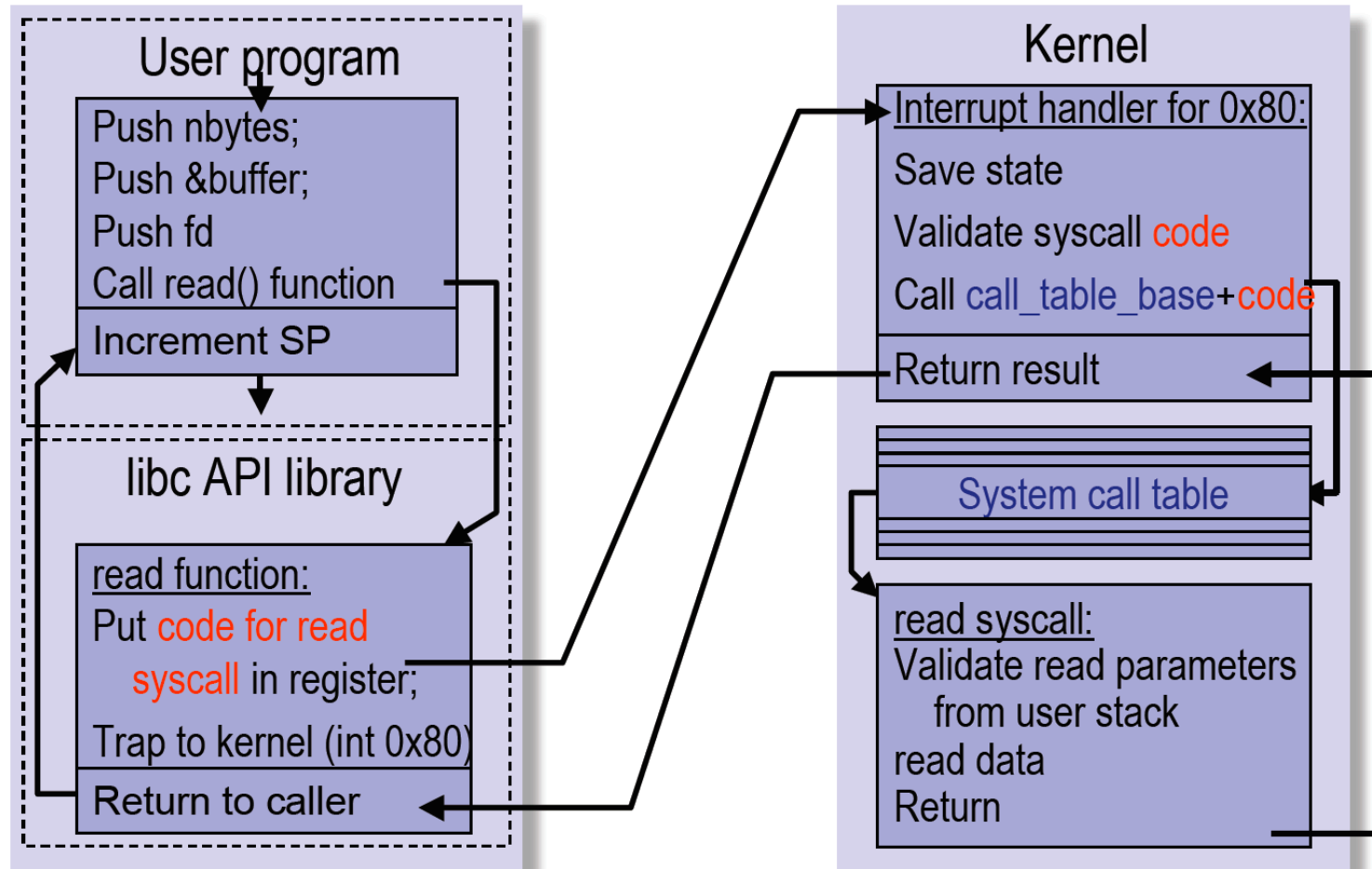
Example System Call

- Call from C program:

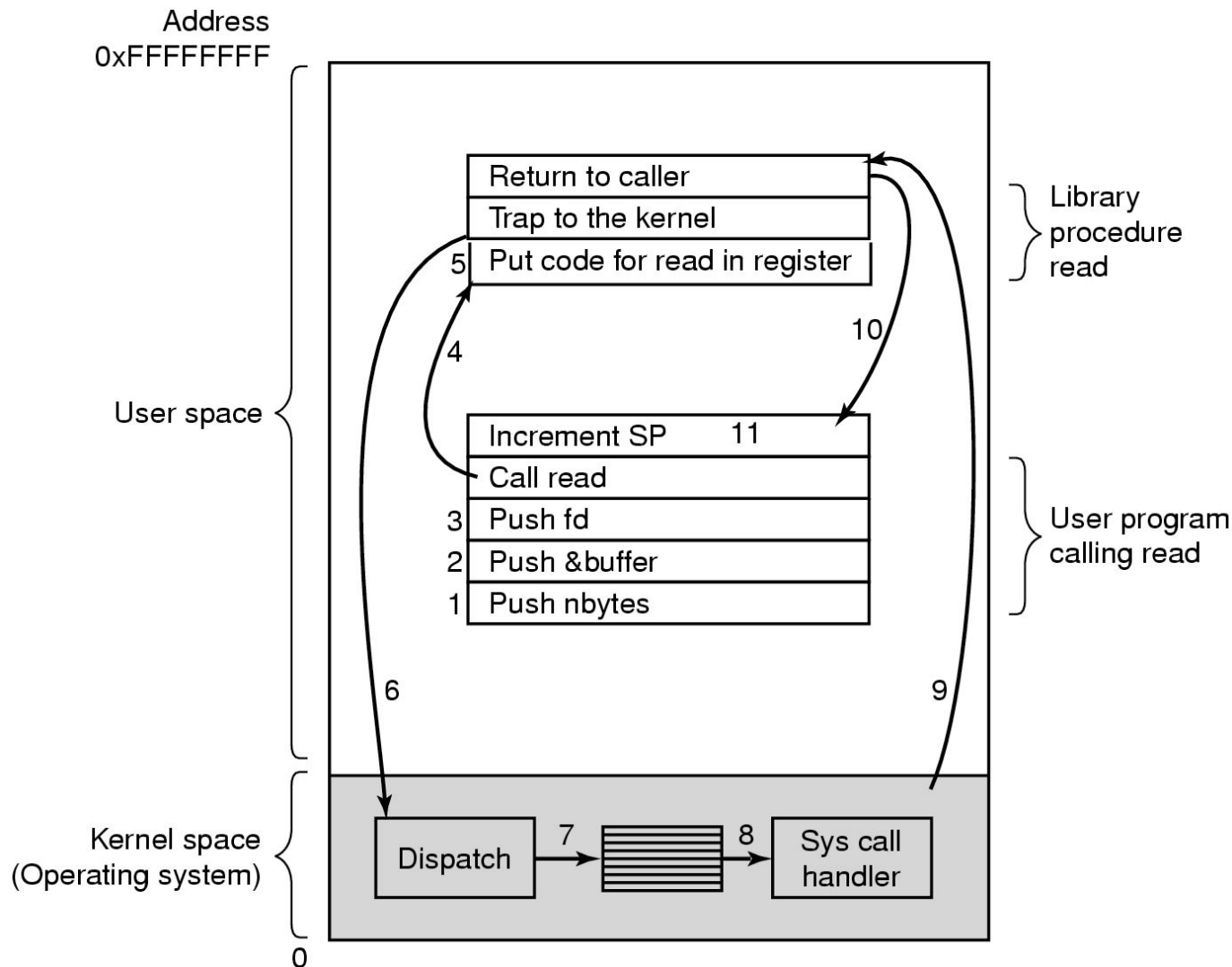
count = read(fd, &buffer, length);

- read up to length bytes of data from file
- descriptor fd into buffer, and returns the number of
- bytes actually read, or -1 if an error occurred.
- C library call for read() calls the read system call.

Steps in Making a System Call



Steps in Making a System Call



There are 11 steps in making the system call read (fd, buffer, nbytes)