

1.
  - Stack pointer
  - Frame pointer
  - Process ID
  - Program Counter
  - Process Register
  - I/O information
2.
  - Write to a disk
  - Change processor mode from kernel to user
  - Halting the processor
  - Reading system time
  - Halting the processor
3.
  - write()
  - getpid()
  - fork()
  - sbrk()
  - mmap()
4. Otherwise, other system calls not meant for this situation could be accessed, and this is a huge security issue.