

Invoking a System Call

6) the system call function executes and (possibly returns value by pushing them onto the stack of the interrupted program

the 1990s, the number of people in the United Kingdom who are aged 65 and over has increased from 10.5 million to 12.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office of National Statistics 1999). The number of people aged 65 and over is projected to increase to 15.5 million by 2020, and the number of people aged 75 and over to 8.5 million (Office of National Statistics 1999).

There is a growing awareness of the need to develop strategies to meet the needs of older people. The Department of Health (1999) has published a strategy for older people, which sets out the government's commitment to older people and the actions that will be taken to meet their needs. The strategy is based on the following principles: older people should be able to live independently and actively; older people should be able to participate in the life of their communities; and older people should be able to access the services and support that they need.

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prog

stack



usermode

kennebennodde

The first part of the paper discusses the importance of understanding the cultural context of the research. It highlights the need for researchers to be sensitive to the values and beliefs of the communities they are studying. This is particularly important in the field of education, where cultural differences can significantly impact learning outcomes. The paper then moves on to discuss the challenges of conducting research in diverse cultural settings. It notes that researchers often face difficulties in establishing rapport with participants and in interpreting their responses. To address these challenges, the paper suggests several strategies, including the use of local researchers and the development of culturally appropriate research instruments. The final part of the paper discusses the importance of ethical considerations in cross-cultural research. It emphasizes the need for researchers to obtain informed consent from participants and to ensure that the research is conducted in a way that respects the dignity and rights of all individuals.

A speech bubble with a dark gray border and a light gray background. The bubble has a tail pointing towards the bottom-left corner. Inside the bubble, there is a code snippet consisting of three dots followed by a function call.

...

`write("hello world")`

kernel

process

1) the program calls a library function

lib/write



syscall num

arg #0

2) the library function pushes the syscall number and its arguments onto the stack and triggers a software interrupt

```
write(s):  
    push("write")  
    push(s)  
    int x80
```



x80 interrupt
handler

3) the interrupt handler reads the stack of the interrupted program to extract the system call number and the arguments



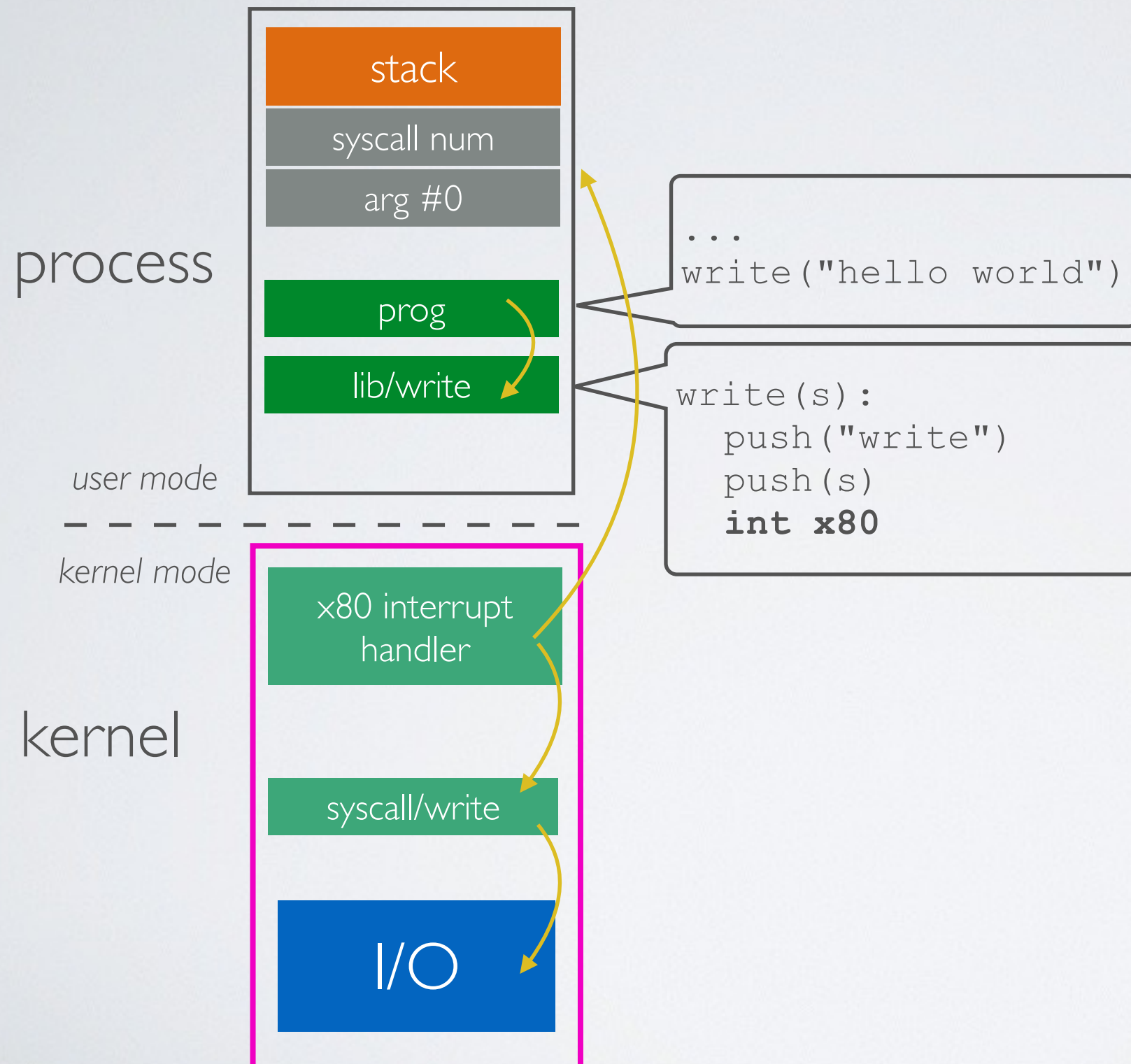
syscall/write

4) the interrupt handler calls the corresponding kernel system call function

1/0



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4) the interrupt handler calls the corresponding kernel system call function

6) the system call function executes and (possibly returns value by pushing them onto the stack of the interrupted program

Process