

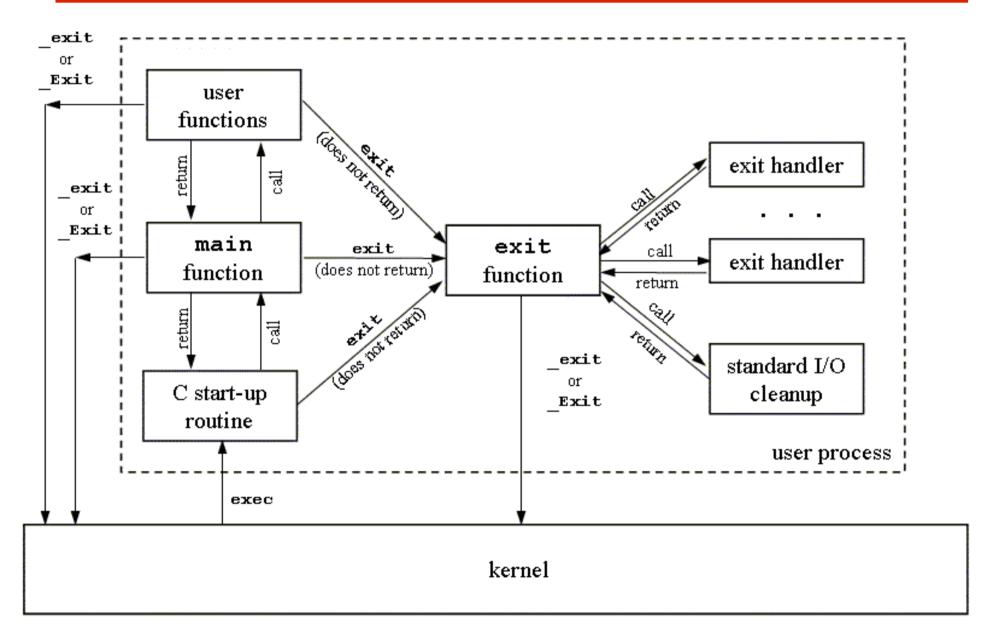
Punjab University College Of Information Technology (PUCIT)



- How a C program start & terminates
- Normal & abnormal termination
- What are exit handlers
- Registering exit handler using atexit()
- Registering exit handlers using on_exit()
- Process Resource Limits

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D How a C Porgram Starts & Terminates



A How a C Porgram Terminates

- Normal termination
 - > The main function's return statement
 - > Any function calling exit() library call
 - > Any function calling _exit() system call
- Abnormal termination
 - Calling abort() function
 - > Terminated by a signal



Limitations of exit handler registered via atexit()

- An exit handler doesn't know what exit status was passed to **exit()**; which may be useful. e.g., we may like to perform different actions depending on whether the process is exiting successfully or unsuccessfully
- We can't specify an argument to exit handler when called; which may be useful to define an exit handler that perform different actions depending on its argument



int on_exit(void(*func)(int,void*),void*arg);

- The **on_exit()** is also used to register exit handlers like atexit(), but is a more powerful than **atexit()**
- It accepts two arguments, a function pointer and a void pointer
- The func is a function pointer that is passed two arguments (an integer and a void*)
- The first argument to func is the integer value passed to exit(), and the second argument is the second argument to on_exit()

Instructor:Arif Butt

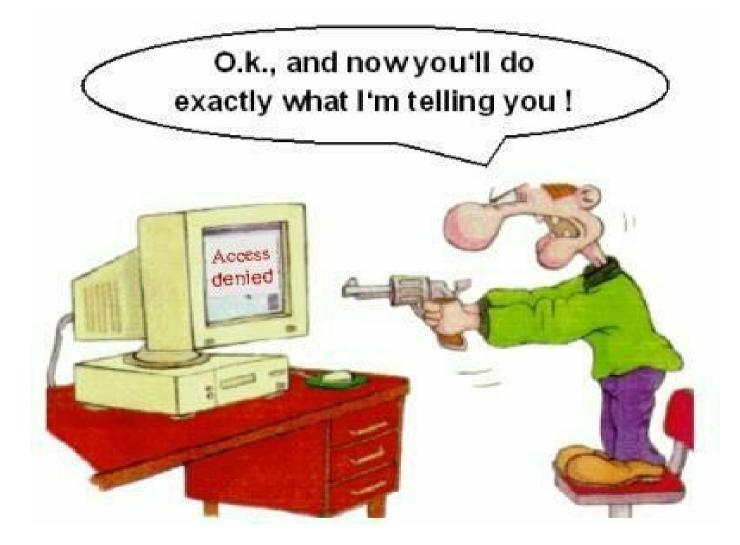


Process Resource Limits

Process Resource Limits

- Every process has as set of resource limits that can be used to restrict the amounts of various systems resources that the process may consume
- We can set the resource limits of the shell (terminal) using the **ulimit** built-in command. These limits are inherited by the processes that the shell creates to execute user commands
- Since kernel 2.6.24, the Linux-specific /proc/PID/limits file can be used to view all of the resource limits of any process





If you have problems visit me in counseling hours. . .

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