

Fall 2024 CIS 620 Homework 3

(Due Oct. 17)

What is returned to the parent as the signal value if the child process uses a signal 8 (versus 9) to terminate? Please display the signal number in the hexadecimal format. (based on 3-10 EXERCISE)

Instructions

1. Please download parent.cxx and child.cxx from the Blackboard (Homepage -> HomeworkAssignments -> hwch3).
2. Upload parent.cxx to the spirit machine.
3. Modify child.cxx to use a signal 8 and upload it to the spirit machine. (You can either modify child.cxx on your local machine or on the spirit machine.)
4. Create a folder "hwch3" in your home directory on the spirit machine
5. Copy or move the above two files parent.cxx and child.cxx into the folder "hwch3".
6. Open a Terminal window and Maximize it.
7. Login to the spirit machine in this Terminal window.
8. Goto the folder "hwch3".
9. Issue "who am i && date" command.
10. Issue "pwd" command.
11. Compile parent.cxx and generate the executable file "parent" in the same terminal as step 7.
12. Compile your modified child.cxx and generate the executable file "child" in the same terminal as step 7.
13. Run ". /parent 1" in the same terminal as step 7.
14. Run ". /parent 2" in the same terminal as step 7.
15. Issue "who am i && date" command again in the same terminal as step 7.
16. Do a screen capture of your compilation command, the messages the compiler displays, and your running results. You might need to do multiple screen captures if those messages and results exceed more than one screen. Please make sure that the two "who am i && date" commands above and the contents between them get captured.
17. Upload the screen capture file(s) to the current working directory (same directory as where child.cxx is located) on the spirit machine.

Turning it in

Turnin your modified child.cxx and your screen capture file(s) from the **grail** machine using the following command:

```
turnin -c cis620x -p hwch3b child.cxx your_screen_capture_file(s)
```

Start on time and good luck. If you have any questions, send e-mail to a.shetty13@vikes.csuohio.edu or w.xiong15@csuohio.edu.