

CONCURRENT PROGRAMMING IN ERLANG THE UNIVERSITY OF KENT

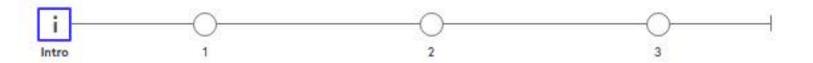






2.20 4 MORE STEPS TO GO

Checking your progress



This quiz aims to consolidate your knowledge about failure propagation and trapping exits.

QUIZ RULES

- · Quizzes do not count towards your course score, they are just to help you learn
- · You may take as many attempts as you wish to answer each question
- · You can skip questions and come back to them later if you wish



To do

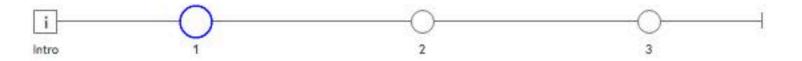
2.20

Activity

Progress

4 MORE STEPS TO GO

Checking your progress

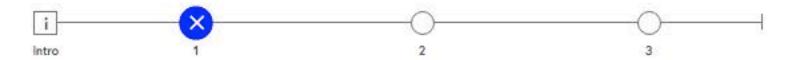


Question 1

Three processes A, B and C are running concurrently. A and B are linked, and B and C are linked. Suppose A receives an exit (A, kill) signal. Which of the following statements will be true in all circumstances?

- B will receive an exit signal with reason "kill".
- B will receive an exit signal with reason "killed".
- B will receive the message { 'EXIT', A, killed}.
- O will receive the message { 'EXIT', B, killed}.

Checking your progress



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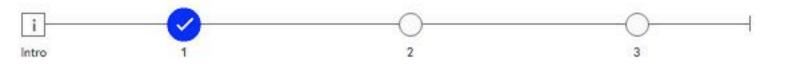
Incorrect

Select another option



Simon Thompson LEAD EDUCATOR

This will only be the case if C is trapping exits, that is it has the flag trap exit set to true.



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- O C will receive the message { 'EXIT', B, killed}.

Correct



Yes, B will receive this signal; if B is trapping exits then the signal will be converted into the message { 'EXIT', A, killed}.

Consider these two program fragments.

```
process_flag(trap_exit,true),
Pid = spawn_link(M,F,A),
process_flag(trap_exit,true),
Pid = spawn(M,F,A),
link(Pid),
```

You would expect them:

- to behave in the same way in all circumstances.
- to behave in the same way unless the process spawned terminates abnormally.
- to behave in the same way unless the process spawned terminates before the link command is executed.
- always to behave in different ways.

PREVIOUS QUESTION



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Correct



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That's right. The difference can only come from the link failing, because the Pid process has terminated before the link(Pid) can be executed.



Which of these statements is false?

- If a process is trapping exits, then it can't be killed.
- A process killed with reason kill will send an exit message with reason killed to all processes linked to it.
- Processes are not linked by default.
- Process links are bi-directional.

PREVIOUS QUESTION

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Correct



Simon Thompson LEAD EDUCATOR

That's incorrect, yes! Sending an exit signal with reason kill will kill any process.



PREVIOUS QUESTION

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