Real Time Systems, January 2024

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/ Synchronizing termination of processes and using the status reported by a child process at the time of termination

Synchronizing termination of processes and using the status reported by a child process at the time of termination

Opened: Monday, 22 January 2024, 9:00 AM
Due: Friday, 2 February 2024, 11:59 PM

✓ Done

Unlike the other assignments, the submission-deadline for this assignment is midnight of coming Saturday.

In the previous assignment you have written a C program which when executed as "***./a.out executable1 executable2 ... executableN***" creates **N** additional child processes where the 1st child process executes the 1st executable file (given by ***executable1***). 2nd executes the 2nd executable file (given by ***executable2***) and so on.

In this assignment write a program so that the parent process waits for completion of its child processes and uses the status with which the child processes terminated.

The parent process read 2 matrices A (size m X n) and B (size n X r) and creates m*r child processes such that each child process will compute one element of the product matrix A X B (size m*r) and communicates that element as status to the parent process. The parent process finally prints the product matrix (A X B)!

Submission status

Attempt number	This is attempt 1.
Submission status	Submitted for grading
Grading status	Not graded
Time remaining	Assignment was submitted 2 days 22 hours early
Last modified	Wednesday, 31 January 2024, 1:24 AM

Online text

+ (412 words)

```
#include <stdio.h>
#include <stdlib.h>
#include <unistd.h>
#include <sys/wait.h>
#include <time.h>
#include <sys/types.h>
#include <sys/ipc.h>
#...
```

File submissions	program8.c	31 January 2024, 1:23 AM
Submission comments	▸ Comments (0)	

◄ Synchronizing termination of processes

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