

CECS 326-01

Operating Systems

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Assignment 1

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Program Description

1. `child.cpp`
 - a. This program's purpose is to accept a child's name and age as command line arguments and output a message in the format "I am [name], [age] years old." It validates that the correct number of arguments is provided and then displays the child's information before exiting.
2. `parent.cpp`
 - a. This program's purpose is to manage multiple child processes by accepting a series of name-age pairs as command-line arguments. It validates the input, calculates the number of children, and creates a child process for each name-age pair using `fork()`. Each child process executes the child program, and passes in the respective name and age.
3. **Unity**
 - a. Both programs utilize process creation and coordination through system calls and demonstrate how parent and child processes communicate and execute tasks based on command line arguments.