

Parallel and Concurrent Programming - CS3D666 - Hour 3 - More Pipes and Redirection

- 1. Ensure that you have completed at least questions 1, 2, 5 and 6 in the previous weeks tutorial (other questions should also be attempted but these give the basics of `exec1()` and `pipe()`).
- 2. Go through the lecture slides and test the code. Make sure you are happy with the mechanics of how `dup`, `pipe` and `close` work.
- 3. Modify the program on slide 17 to create another child (so two in total) and redirect a new pipe to this child. Both children must use the same program to receive messages from the pipe. Send messages down the pipes from the parent to each child.
- 4. Modify the program on slide 17 so that the child sends messages to

the parent. Hint: Be careful where in your program you redirect stdout otherwise your parent process will send its data to the pipe and not the console window so you won't see any output.

slide 2
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- 5. Can you create a program that passes data to its child, which the child modifies and then send back to the parent?