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ELEC 377 – Operating Systems

Lab 3 – Process Communication

Testing Documentation

There were 3 main things we tested for in our code. A test in the correct order, a reverse order test and a test where the producers are greater than 5. For the first tests, both producer files had string lengths of 5.

test00in.txt:

test00in.txt 5 Bytes	
1	funny

test01in.txt:

test01in.txt 5 Bytes	
1	monke

test02out.txt:

test02out.txt 10 Bytes	
1	funnymonke

For this test the first producer read from test00in.txt and the second producer then read from test01in.txt. The consumer then correctly output the characters from the shared memory to test02out.txt.

For the next test we reversed the order. The first producer read test01in.txt and the second producer read test00in.txt. The output is reversed so again the consumer correctly read the characters.

test03out.txt:

test03out.txt 10 Bytes	
1	monkefunny

The last test we ran was when the bufsize was greater than 5 since there will be an error when it is less than 5 as defined in the code. Similarly, to the tests above, the first producer read from test03in.txt and the second producer read from test04in.txt then the consumer output test05out.txt.

test03in.txt:

test03in.txt 9 Bytes	
1	depressed

test04in.txt:

test04in.txt 6 Bytes	
1	monkes

test05out.txt:

test05out.txt 15 Bytes	
1	depressedmonkes