

COP4610L – Operating Systems

Assignment 4

Monday Section: Due Monday April 8, 2002

Wednesday Section: Due Wednesday April 10, 2002

Denver Williams

ENGR 440

407-823-4964

dwilliam@cs.ucf.edu

www.cs.ucf.edu/~dwilliam

Spring 2002

Office Hours

Monday and Wednesday 2:30-3:30. Also by appointment. I will try to answer e-mail questions in a timely manner; concise questions are likely to elicit quicker responses.

Instructions

Please work independently.

Please turn in your work via email to the grader: cop4610ta@yahoo.com

There will be no make up exams, assignments, or tests.

The objective of this assignment is to build a simple CORBA application, exposing you to the environment and basic issues involved in developing CORBA applications.

1. Create an IDL definition file containing the following specification

```
module Counter
{
    interface Count
    {
        attribute long sum;
        attribute long sum_square;
        attribute double sum_sqroot;
        long increment();
        void compute_sum_square();
        void computer_sum_sqroot();
    };
};
```

2. Use the IDL2Java pre-compiler to generate the stubs and skeletons
3. Modify the skeletons to implement the methods
4. Modify the Client to increment the counter, compute the sum, square and square root of the sum. You should compute the sum by incrementing the counter. For example to set the sum to 100, use a for loop and increment the counter 100 times.
5. Display Sum, sum square, and sum sqroot.
6. The client should set the sum to 100, 200, 345, and 87.

The following should be submitted for grading

1. The IDL File
2. The server implementation file
3. The client implementation file

In addition, you are required to demonstrate your application.