CS 603 Project 3: Using Orbix Spring 1996

1 Description

The goal of this project is to write a simple banking application using distributed objects in Orbix. You are going to use an already defined banking interface. For your convenience also a client program is given to test your implementation.

You can find the following files in the project3's directory:

```
/u/u3/603/96spring/project3/src:
    BANK.idl        idl description of Bank
    ClientMain.C    client program
    Makefile
    orbixsol2.mk    Makefiles
    BANK_i.hh       Bank implementation header (empty)
    BANK_i.C        Bank implementation source (emty)
    Server_Main.C   Server main (emtpty)
```

BANK.idl is the description of the Bank in idl. ClienMain.C is the client program that you are going to use to test your implementation. Makefile and orbixsol2.mk have everything you need to compile and link your server and client. The other files, BANK_i.hh, BANK_i.C, and Server_Main.C are empty and are the files that you are going to write to create the bank server.

Copy this directory to your current directory.

```
mkdir ~/Orbix
cp -r ``/u/u3/603/96spring/project3/src ~/Orbix/project3
```

I recommend you to build the application incrementally. You can comment out part of the interface and part of the client program and make the most basic features of the server work first. The tests in the client program are ordered by complexity. For example make test 1 run first, then test 2 etc.

The goal is to make the whole client program run right.

2 Getting Started

Orbix has been instaled in *xinuserver* instead of *lorenzo*. You can rlogin to *xinuserver* using your xinu accounts.

You have to modify your *.cshrc* file to include the following environment variable setings:

```
setenv MANPATH ``/u/u238/grr/Orbix/man: . . .''
setenv LD_LIBRARY_PATH ``/u/u238/grr/Orbix/lib: . . .''
setenv PATH ``/u/u238/grr/Orbix/bin: . . .''
setenv IT_CONFIG_PATH /home/Orbix/Orbix.cfg
```

Don't forget to source *.cshrc* after you make this changes.

The grid example described in the first section of the Orbix documentation is in /u/u238/grr/Orbix/demos. Copy this directory to your working directory to test Orbix.

```
cp -r /u/u238/grr/Orbix/demos ~/Orbix/demos
cd ~/Orbix/demos/grid
make
```

After make is complete, follow the instructions shown in the screen to register the grid server and to run the grid client program. To explore Orbix you can browse and modify the grid sources.

There are two copies of the ORBIX manuals and extra copies of the documentation distributed during class in the Xinu lab.

Start ASASP. You just have two weeks to finish the project.