

Simple CORBA tutorial

Objective

This tutorial demonstrates how to setup a simple CORBA client and server using C++ in Linux environment.

Setup your Linux environment

1- g++ compiler installation

```
sudo apt-get install g++
```

2- **omniORB** installation

To install **OmniORB**, a C++ implementation of CORBA, type in the command line:

```
sudo apt-get install omniidl omniorb omniorb-nameserver omniorb-idl  
libomniorb4-dev libomniorb4-1
```

After the installation, you have to configure **omniORB** by editing the file `/etc/omniORB.cfg`. First setup **InitRef**. In this example, we use the localhost with the port number 4333.

```
InitRef = NameService=corbaname::localhost:4333
```

Building the code

Generate files from interface description ***example.idl***

```
omniidl -bcxx example.idl
```

omniidl will create files

- example.hh
- exampleSK.cc

The easiest way to build and compile all files is to use `cpp/makefile`.

Executing the program

1- NameServer

```
sudo omniNames -start 4333 -logdir ~/omnilog/ -errlog  
~/omnilog/omniNamesError.txt  
sudo omniNames -logdir ~/omnilog/ -errlog  
~/omnilog/omniNamesError.txt
```

Note: Please make sure you have **omnilog** directory in the given path

2- Server

```
./server -ORBInitRef  
NameService=corbaloc::localhost:4333/NameService
```

3- Client

```
./client -ORBInitRef  
NameService=corbaloc::localhost:4333/NameService
```