

### CS464/564 Project3

**Given:** Wednesday October 11, 2000

**Due:** Wednesday October 25, 2000, at the beginning of class

#### **Overview:**

In this project you will gain additional experience with CORBA user exceptions and with VisiBroker object wrappers. You may start from the solution code provided by the TA if you prefer, or you may start from your own Project2 code.

Instructions on how to turn it in, and where you can copy the TA's Project2 from, will be forthcoming via email from the TA.

#### **Problem Setting:**

Project 2 is based on Project1. In this project, you need to:

- Modify the *Student* to get rid of the ugly DII code and use the SII, but with the user exception, *InvalidStudent*, that it should catch.
- Implement a typed object wrapper to cache the grade value returned by method `show_grade()`, if the current call is within `MAX_CACHING` milliseconds of when the cached value was stored. Print out useful messages from the wrapper to indicate if the cached value is being returned or if it is being updated from the remote object (adjust the `MAX_CACHING` to try to make this happen both ways).
- **( For graduate student only )** Implement an untyped object wrapper to print to a log file all object names, operation names, and elapsed times for the *Teacher* client's invocations.

You may implement all the above in the language of your choice; there is no need to exercise language heterogeneity on this exercise, though you may if you wish (no extra points).

Print out the source files, as before, plus output files from the *Student* and *Teacher* objects executions.

You will find the code in the `examples/interceptors/objectWrappers` extremely useful. It adds object wrappers that are a superset of what you have to do to the Bank example. You may adapt code from this example freely.