

Project3 (Index Service)

April 20, 2005

Instruction Sheet

Setting up the sample MemoryMonitorService that demonstrates the usage of Service Data

Download example code

Download the example code from

<http://www.cse.buffalo.edu/~mhvora/4587/samples/memory.tar>

OR

/projects/Spring_2005/cse587/mhvora/public/globus/memory.tar

(zip versions also available at the same locations)

Untar example code into the tutorial directory

Copy the tar file into the tutorial directory and untar the contents from there. The tutorial contains the following:

- MemoryMonitorService (package org.globus.<username>_progtutorial.services.memory.impl)
- FetchMemoryStats (package org.globus.<username>_progtutorial.clients.memory)
- MemoryMonitor.gwsdl (located in the schema/<username>_progtutorial/MemoryMonitorService directory)
- MemorySDE.xsd (located in the schema/<username>_progtutorial/MemoryMonitorService directory)
- changeMemory.sh

Execute the changeMemory.sh customization script

This script moves the service implementation files, client file and schema files to appropriate directory (i.e. the directories prefixed with your username). It also modifies the files to change package names, etc.

Modify namespace2package.mappings file

You should be able to figure out the three standard lines to add to the namespace2package.mappings file by now. In addition to these, you need to add in a 4th line due to the presence of Service Data Elements in this service

```
http://www.globus.org/namespaces/memory/MemoryMonitorService/MemorySDE=org.globus.<username>_progtutorial.stubs.MemoryMonitorService.servicedata
```

Remember not to let any line breaks be present in this and the other three lines

Build the service**Deploy .gar****Start the container**

```
source $GLOBUS_LOCATION/setenv.csh
```

Compile and execute client

Compile the client by using:

```
javac org/globus/<username>_progtutorial/clients/memory/MemoryMonitorService.java
```

Execute it by using:

```
java org/globus/<username>_progtutorial/clients/memory/FetchMemoryStats  
http://localhost:XXXXX/ogsa/services/memory/MemoryMonitorService
```