


Grid Computing

Globus Toolkit Programming GT4 Tutorial Chapter 3 – Specific Parameters

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Fall 2006



Globus Toolkit 4: Programming Java Services
Borja Sotomayor and Lisa Childers
Morgan Kaufmann Publishers / Elsevier
<http://gdp.globus.org/gt4-tutorial/>

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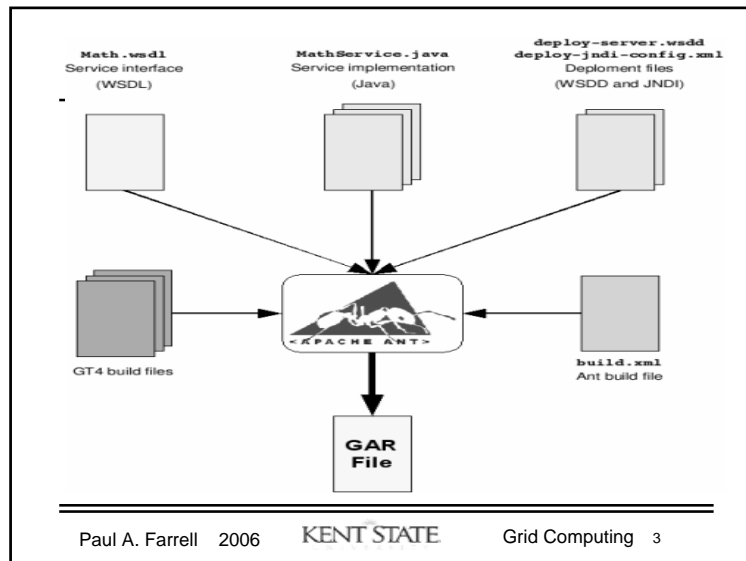
Source Directory Layout

```

$TUTORIAL_DIR
|
|-- schema/
|   |
|   |-- examples/
|       |-- MathService_instance
|           |-- Math.wsdl

|--- org/
|   |
|   |-- globus/
|       |-- examples/
|           |-- services/ -----> Service impl files
|           |-- clients/ -----> Client impl files
    
```

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Deployed Directories

```

/local/opt/globus-4.0.1/
• etc/org_globus_examples_services_core_first/
  • server-config.wsdd
  • jndi-config.xml
• lib/
  - org_globus_examples_services_core_first.jar
  - org_globus_examples_services_core_first_stubs.jar
  - pair.jar
• share/schema/examples/MathService_instance/
  - Math.wsdl
  - Math_bindings.wsdl
  - Math_flattened.wsdl
  - Math_service.wsdl
• etc/globus_packages/org_globus_examples_services_core_first/
  - undeploy.xml
    
```

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1. targetNamespace
 - `http://www.globus.org/namespaces/examples/core/MathService_instance`
 - WSDL file
 - targetNamespace
 - xmlns:tns
 - `Namespace2package.properties`
 2. Java packages associated with WSDL namespace
 - `org.globus.examples.stubs.MathService_instance`
 - 3 times in `Namespace2package.properties`
 - Service Implementation
 - Client file
 3. Package name
 - `org.globus.examples.services.core.first.impl`
 - Qnames file
 - Service Implementation
 - WSDO file
 - Value for `className` parameter
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4. Service Name
 - `examples/core/first/MathService`
 - WSDO file
 - JNDI deployment file
 - Client run command
 5. WSDL file location for service
 - `share/schema/examples/MathService_instance/Math_service.wsdl`
 - WSDO file
 6. Directory for `deploy-server.wsdd` file and `impl` directories with Java files
 - `org/globus/examples/services/core/first`
 - `globus-build-service.sh -d` parameter
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7. Location of WSDL file
 - `schema/examples/MathService_instance/Math.wsdl`
 - `globus-build-service.sh -s` parameter
 8. Location of Client Source
 - **`org/globus/examples/clients/MathService_instance/Client.java`**
 - **Compile of client**
 9. Location of stub classes
 - **`./build/stubs/classes`**
 - Compile of client
 - Running client
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