Spitfire C++ client

February 7th, 2003

- Options evaluated earlier
- Current situation
- Near future development

Options evaluated

- libcurl
- GSI plugin for gSoap
- OGSA-alpha's HTTPG support
- plain gSoap

Current situation

- certificate based authentication works
  - standard X.509 and Globus's proxy certs supported
  - being implemented as an optional compile-time module
    - compiled into clients when build.with.security property is set in build.properties
    - requires pre-installation of the openssl library (v0.9.6g or later is preferred)
  - integrated with the ant build of showTables test application

Open issue

- gSoap expects the server cert's subject to be the server's host name, if not, mutual authentication fails. Should we:
  - remove the check from gSoap?
  - adhere to the convention?
  - modify the check to accept the naming convention of Globus host certs?
  - other suggestions?

Near future development

- include the module in the remaining test applications, e.g. showDBRoles
- improve default behaviour:
  - search user proxy cert and CA certs from default locations
  - add option for selecting no encryption for data transfers, i.e. only perform mutual authentication
- start implementing the role parameter handling