



The Grid Application Toolkit: Future Plans

Tom Goodale

`tom.goodale@aei.mpg.de`

MPI für
Gravitationsphysik



Future Development



- Different language bindings
- Native Java implementation
- More adaptors
- API enhancement
- ...



Language Bindings



- The GAT and the GAT API have to be useful for developers who develop code in many different language.
- We will always have a reference C implementation
- Additionally we will provide bindings to this implementation to allow it to be accessed from many other languages
 - C++, Java, Fortran, Perl, Python, ...
- The API development process includes the development of API specifications for all these languages.
- In principle native implementations can be done in these languages too.



Native Java Implementation



- Many people nowadays use Java
- Within GridLab we have two application oriented workpackages – Triana and Portal development – which use Java
- Will develop a native Java implementation
 - Can always be tested against C reference implementation for consistency
- Developers will then have the option of using the Java-binding to the C reference implementation, or using the native Java implementation
 - Same API
- Will require writing adaptors in Java.



More Adaptors



- Any service or library which can be used to provide the capabilities accessible via the GAT-API can have an adaptor written for it.
- We are writing adaptors for all the GridLab services
- We may well write adaptors for many or all of the Globus services
- If you have other services or libraries you want to access, please let us know, or better still, send us an adaptor.



API Enhancements



- We want the API to be useful to the widest possible community.
- We welcome any and all feedback and suggestions.
- We will try to setup a community process to discuss, track, and implement additions or modifications to the API.
- Will always keep the language-dependent APIs in sync.



Summary



- We hope you have enjoyed this tutorial, and that it has been useful.
- Please download the code and start playing with it.
- If you are interested in helping us to improve the APIs or the code, there are mailing lists on the GridLab web-site.
- All feedback encouraged