



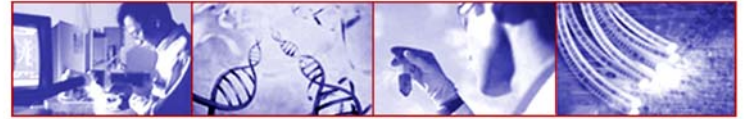
# Report on IPv6 Activity

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*EUChinaGRID Project Meeting - Rome, 19.09.2006*



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# Agenda

- ▶ Actions from the last meeting
- ▶ Actions in progress
- ▶ Future Plans



# Actions from the last meeting

- ▶ Draw up an interoperability guideline for developers
- ▶ Extend the debugging to the other package of the GRID MW and identify IP dependencies in the code



# Interoperability guide for developers

- ▶ The document tackles the basics of the IPv6 programming in four different programming language:
  - C
  - Perl
  - Python
  - Java
- ▶ It aims to be a first guide for the middleware developers
- ▶ The document is ready to be discuss in EGEE-JRA1



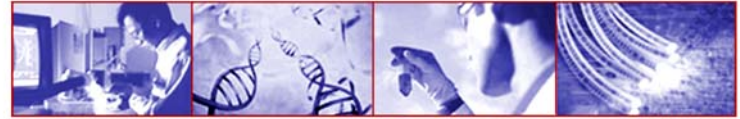
# Finding IP dependencies in the MWs

- ▶ Two different actions has been started:
  - C Code checker
  - Third-party (non gLite) middleware compatibility report.



# Code checker

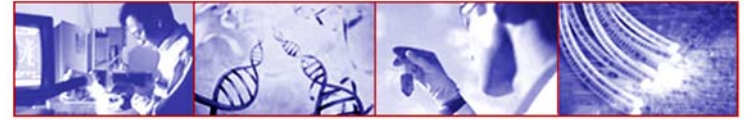
- ▶ A script that discovers IP dependencies in the C code
- ▶ Developed by INFN-Catania
- ▶ Performs different tests on the code by a pattern matching of the IP specific keywords or functions in order to identify any IP dependencies
- ▶ The final release is ready and will be available soon for the community
- ▶ At the moment, the code survey is limited to the WMS



# Code checker

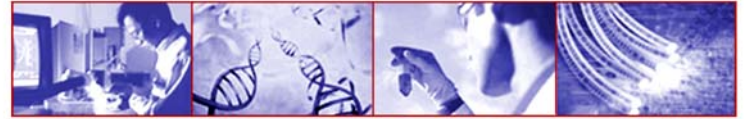
▶ Output example

```
org.glite.security.voms-admin-server
INADDR_                [ PASSED ]
addr_in                [ PASSED ]
F_INET$                [ PASSED ]
gethostbyname          [ PASSED ]
inet_addr              [ PASSED ]
inet_ntoa              [ PASSED ]
Inet4Address           [ PASSED ]
inet_aton              [ PASSED ]
gethostbyname_ex      [ PASSED ]
INADDR_BROADCAST      [ PASSED ]
0.0.0.0                [ FAILED ]
127.0.0.1              [ FAILED ]
255.255.255.255       [ PASSED ]
```



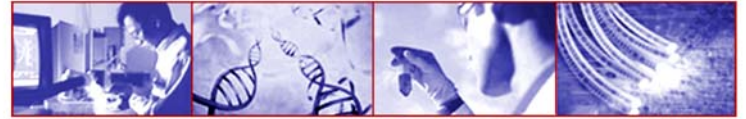
# Report on other MWs compatibility

- ▶ Written by INFN-Roma3.
- ▶ Find and report all available documentation about the IPv6 compatibility of third-party software (e.g. Globus, Condor etc.)
- ▶ At the moment at draft state.



# Actions

- ▶ Extend the code survey to other packages of the EGEE MW (this action will be started when the other source repositories will be available).
- ▶ Include the code survey results in the migration guidelines document.
- ▶ Create and operate an IPv6 grid testbed.



# Questions ?



# Thank you!