WP5
Software distribution,
Quality assurance

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WP5 Objectives

- Get ARC services widely deployed:

  - Package software

  - Easy installation

  - Support new popular platforms

  - Get ARC into Linux distributions

  - Test services on Pilot Grid System

  - Evaluate performance, stability and usability and give feed-back to developers

  - Provide user support

Tasks

- T5.1 Grid-based build system
- T5.2 Configuration, packaging, installation framework and software distribution
- T5.3 Porting to new platforms
- T5.4 Profiling & performance analysis
- T5.5 Usability evaluation
- T5.6 Operations

T5.1 Grid-based build system

- **Build ARC on the Grid**
  - ❖ Requires Pilot Grid System
  - ❖ Including nightly builds
- **Middleware testing**

KnowARC

- Easy configuration

- Include ARC in "major" Linux distributions
  - Knoppix, Fedora, Debian
  - SuSE, RedHat, Mandrake

- Use native pkg and dist methods:
  - RPM, DEB, PKG,..
  - YUM, APT, YAST,...

KnowARC

- Support major Linux distributions
- Additional native support for:
  - Mac OS X
  - Solaris
  - MS Windows

KnowARC

Measure resource usage by the middleware:

- Profile components
- Benchmark with respect to CPU and I/O

T5.5 Usability evaluation

- Design usability tests

- Evaluate performance of tests

- Feed information to developers

T5.6 Operations

- Maintain Open Source software development infrastructure
  - Subversion, Bugzilla, downloads, mailing lists and help desk
- Operate Pilot Grid System