EGRID-ready-UI
A light, ready-to-use UI to access to the GRID
Workshop on Porting Scientific Applications on Computational GRIDs

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Advantages

- Allows distribution of a pre-configured UI to our users
- Limits disk usage (egrid-ready-ui uses 240MB)
- Avoids need of root privileges
- Distribution-independent
- Avoids operating system reinstallation

requirements

- python
- java
- libstdc++-libc6.2-2.so.3 (deb pkg: libstdc++2.10-glibc2.2, rpm pkg: compat-libstdc++)
- bash, cpio, rpm2cpio, find, sed, perl command
- a linux distribuation, all right :-)

Installation instructions

- Download form the EGRID site
- Uncompress it
- Enter in the egrid-ready-ui directory and install the UI

lazy script

```
wget http://www.egrid.it/download/software/ui/LATEST
tar zxf egrid-ready-ui_<version>.tgz
cd egrid-ready-ui_<version>
./install.ui
```

The `install.ui` script accepts the following options:

`-nc` do not install user crontab

`-debug` show more information

Inside the UI

The UI contains the following directories:

- **config** contains only the files related to a specific configuration (one subdir for each configuration available)
- **joboutput** where the output of the jobs will be downloaded by the `edg-job-get-output` command
- **sw** LCG software is uncompressed in this directory
- **test** a JDL useful for testing purpose
- **install.ui** the script to configure the UI (this script changes the actual location in the `config/*` file)

Multiple configurations

The UI comes with three available configurations:

gridats	GRID@Trieste enabled configuration
egrid-testbed	testbed of the EGRID project
production	Production grid of the EGRID project

Switching configurations

```
egrid-UI-change-config production
```

For custom configurations the egrid-ready-ui source code must be downloaded from the SVN repository: available special scripts must be used to complete the task (see later).

Source code and mantainer scripts

The sources consist in the following directories:

config	configuration files
templates	template files used for substitution script
overlays	files to add/overwrite the ui
lib	helper functions

and the following scripts:

download.sh	this script downloads the necessary RPMs
extract.sh	this script extracts the RPMs in a scratch directory and downloads other EGRID scripts from the SVN repository.
install	this script pre-configures the UI using the configuration specified with the command line option. This script can be invoked many times in order to install more than one configuration.

Source code and mantainer scripts (2)

- The configuration file contains some parameters to fill in: BDII, RB MYPROXY and LFC hostname etc.
- The extraction script *strip*s the binary to reduce disk usage.
- From the pre-configured egrid-ready-UI (the one downloaded from the EGRID website), both static libraries and unused libraries (like unused globus flavours) are removed.
- The mantainer's installation script allows relocation of the UI, making it dependent on only one parameter (`<install-dir>`)
- The `install.ui` script allows the user to substitute `<install-dir>` with the ui installation directory.