UNICORE packaging

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What's new

- New packman features
- Continuous build infrastructure
- Linux repositories
Support only for components compatible with **Maven 3**

New output **package type tar.gz**
- archive contains directory structure similar to typical package produced by maven assembly plugin

**Common configuration files and executable scripts** for Linux and standard tar.gz packages (config and executable templates)
New configuration

- Special prefixes control files and directory copying (targz., linux.)
- Automatic processing of macros for config and executable script templates, with different values for Linux and tar.gz packages
- Control of files and directories FS permissions
- Auto detection of Java version
#copy with permissions mode
targz.dirs.withDirMode0755.logs.1=src/main/logs

#macros configuration and linux and targz prefix
targz.templates.truststoreType=keystore
linux.templates.truststoreType=SET-ME
targz.templates.truststorePassword=unicore
linux.templates.truststorePassword=SET-ME
targz.templates.truststorePath=conf/truststore.jks
linux.templates.truststorePath=SET-ME
Example macros use

- **In a spec file:**
  
  Requires: java-1.@java-main-version@.0-openjdk findutils bash

- **In a script:**
  
  ```
  # PID file
  PID=@pid@
  # Startup log
  STARTLOG=@log@/unicorex-startup.log
  # Location of jar files
  LIB=@lib@
  # Config directory
  CONF=@etc@
  ```
Components updated to new packman:
- UNICOREX
- Registry
- TSI
- Gateway
- XUUDB
- Workflow
- Servorch
- Portal

Samples and more information about packman:
https://sourceforge.net/p/unicore/wiki/Packman_- _packaging_manager/
Build infrastructure

- Based on Jenkins with extra plugins, custom scripts and custom nodes configuration
- Distributed builds on:
  - Debian 7 (amd64, java7)
  - Centos 6 (amd64, java7)
  - Debian 8 (amd64, java8)
  - Centos 7 (amd64, java8)
- Repository is served for this four Linux distributions.
- After each full build Linux repositories are automatically refreshed
Currently, there are two repositories:

- Testing repository
  - updated several times a day and contains UNICORE components which are built from svn trunk
  - Build starting hours: 3 AM/PM, 6 AM/PM, 9 AM/PM, 12 AM/PM
- RC repository
  - Like testing repository, but contains UNICORE components which are built from newest svn tags
  - Build starting hours: 6 AM, 3 PM, 9 PM

Repositories main page:
http://unicoresoft.nebula.grid.icm.edu.pl/
Future work

- Release procedure + Release check list + Test plan
- Testbed – testing infrastructure
- Automatic deployment testing