STATUS AND FUTURE PLANS

DDS

During past 3 Months we were mostly working on:

- house keeping: build system, project environment, external tools (improved code formatting rules).
- Automated tests (DDS Octopus).
- Multiple major improvements of the the Core code (Some of them are still in development but release is imminent).

This part of our work is not highly visible to end-users.

But there are changes, which users will notice...

TOPOLOGY: Task/Collection Requirements

Requirements is a way to tell DDS that
a given task/collection has to be deployed on a specific computing node.



New Format:

More info: http://dds.gsi.de/doc/nightly/topology.html

TOPOLOGY: Task Triggers

- A task trigger defines a certain action which is performed whenever a specified condition is fulfilled.
- There will be a list of predefined conditions and actions, which users can combine to achieve a desired result.

```
<decltrigger id="trigger1" condition="OnTaskStop" action="RestartTask" arg ="5"/>
<decltrigger id="trigger2" condition="OnTaskClean" action="StartTaskOnce" arg ="-clean"/>
```

Usage:

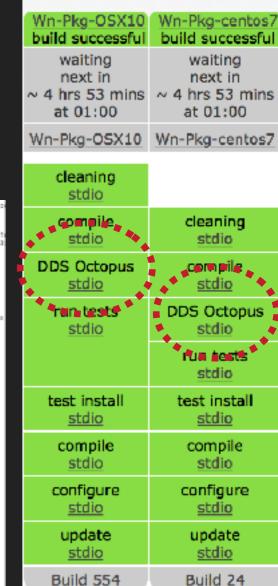
```
<decltask id="task1">
    <requirements>
        <id>trigger1</id>
        <id>trigger2</id>
        </requirements>
</decltask>
```

BUILD SYSTEM

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Waterfall										
last build		Doc build successful	RELEASE build successful					continuous-OSX-ANDREY build successful	continuous-centos7-ANAR build successful	continuous-centos7-ANDREY build successful
ourrent activity		idle	idle	idle	waiting next in ~ 5 hrs 3 mins at 01:00	waiting next in ~ 5 hrs 3 mins at 01:00	idle	ldle	idle	idle
CEST	changes	Doc	RELEASE	WEB Site	Wn-Pkg-OSX10	Wn-Pkg-centos7	continuous-OSX-ANAR	continuous OSX-ANDREY	continuous centos7-ANAR	continuous contos7-ANDREY

- ▶ Improved Buildbot configuration.
- Updated target OS:
 - CentOS 7 (instead of SLC 6),
 - macOS 10.12.3
- ▶ 32bit Linux target is dropped.
- DDS Octopus is the part of builds on all platforms.

```
disc eminant: Sorver reported and play in: Agriculturg/lise_PermillyDeginardist states the debt-administ Sorver reported to the lines and players...
disc-mainted forcer reported to see players in collines between the depth of agents debt eminant: Sorver reported Flog in: Will use the Local Boart to depthy II agents debt-administ Sorver reported Flog in: Will use the Local Boart to depthy II agents debt-administ Sorver reported Flog in: Will use the Local Boart to depthy file administration of a particular forcer reported Flog in: Will Society to the Society Administration of the Society of the Socie
```



Bundle-like installation & New DDS WN-package dependency look up

Motivation:

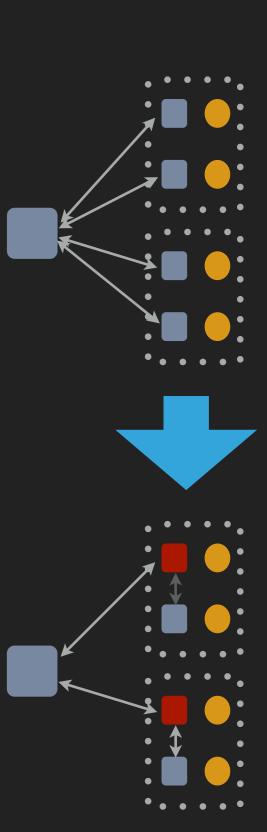
- Users forget to export BOOST libs path,
- Users export wrong BOOST libs path at run-time,
- macOS doesn't export DYLD_LIBRARY_PATH in sub-shell environment.

Solution:

- Our improved cmake configuration automatically enumerates all 3rd-party dependent libs and creates soft links to found ones in the install folder.
- It makes DDS installation self-sufficient and movable.
- It also helps to automate binary distributions (in this case dependent libs will be copied into the dist. package).
- ▶ It also helped to simplify building of DDS WN-pakages.

IN DEVELOPMENT: lobby based deployment

- On a given host a random agent will be assigned to act as a lobby leader.
- DDS commander will have one connection per host.
- A lobby leader will act as a dummy proxy services, no special logic will be put on it except key-value propagation inside collections.
- key-value propagation will be either global or local for a collection.



FUTURE PLANS

- Extend RMS plug-in API with task requirements support,
- open topology API,
- add more predefined task triggers,
- finish up lobby based deployment implementation.

- Release DDS v1.6 (http://dds.gsi.de/download.html),
- DDS Home site: http://dds.gsi.de
- User's Manual & API doc.:
 http://dds.gsi.de/documentation.html
- Continuous integration:
 http://demac012.gsi.de:22001/waterfall
- Source Code:

https://github.com/FairRootGroup/DDS https://github.com/FairRootGroup/DDS-user-manual https://github.com/FairRootGroup/DDS-web-site