#ansys1srm\_restart5.sh

Executable (successively called “the script”) in bash language able to control the ansys execution in the WN. The script is used for the first execution or resubmission after hang-up.

Three variables come directly from the portal and are:

output - specify the outputname

userfolder - specify the user-folder used to get and put outputs

url - specify the file to download in case of resubmission after hang-up

Action

Query the PBS\_NODEFILE variable to get the default walltime set for the queue

Action

Define the binary and its path, the SE and the clientSRM command; set “rstauto” file value to FALSE by default

Function USERFOLDER

Check if userfolder exists via clientSRM, if not create them. 4 retrying in creating the userfolder directory.

Function PREPARETOPUT

Start the PreparetoPut function using the clientSRM functionalities to store a rewritable log file in the SE (file lifetime 24 hours)

Function PREPAREINPUT

Prepare the input file needed for the run depending on the status (fist run or resubmission after hang-up) set by the content of $url variable

Function RUNNINGAPP

Start the application, permit it to run for a predefined amount of CPU time, then kill it. The function has a check procedure enabled: at intervals of 1 hour the function control the status of the application, upload the log file to the SE by using the “check logs” function and upload the application’s CPU running time.

Function CHECKLOGS

Check logs upload the log file to the SE by using the globus-url-copy command (4 retrying).

Function PREPAREOUTPUT

Prepare output remove output\_oldest file, if exists in the SE; move the output\_last file to output\_oldest in the SE; tar the output in the localhost and copy it as output\_last in the SE (all the comands are performed by using the clientSRM functionalities; file lifetime 7 days).

Action

Set the “rstauto” file content to FALSE or TRUE depending on the match of some variables used as control variables. The fiel will be sent to the portal for further submission evaluation.

Action

Calling the described functions

#ansys2srm\_restart6.sh

Executable (successively called “the script”) in bash language able to control the ansys execution in the WN. The script is used for the first execution or resubmission after hang-up.

Three variables come directly from the portal and are:

output - specify the outputname

userfolder - specify the user-folder used to get and put outputs

url - specify the file to download in case of resubmission after hang-up

Action

Query the PBS\_NODEFILE variable to get the default walltime set for the queue

Action

Define the binary and its path, the SE and the clientSRM command; set “rstauto” file value to FALSE by default

Function USERFOLDER

Check if userfolder exists via clientSRM, if not the calculation is aborted.

Function PREPARETOPUT

Start the PreparetoPut function using the clientSRM functionalities to store a rewritable log file in the SE (file lifetime 24 hours)

Function PREPAREINPUT

Prepare the input file needed for the run by transferring the remote file stored in the SE and defined by the $url variable

Function RUNNINGAPP

Start the application, permit it to run for a predefined amount of CPU time, then kill it. The function has a check procedure enabled: at intervals of 1 hour the function control the status of the application, upload the log file to the SE by using the “check logs” function and upload the application’s CPU running time.

Function CHECKLOGS

Check logs upload the log file to the SE by using the globus-url-copy command (4 retrying).

Function PREPAREOUTPUT

Prepare output remove output\_oldest file, if exists in the SE; move the output\_last file to output\_oldest in the SE; tar the output in the localhost and copy it as output\_last in the SE (all the comands are performed by using the clientSRM functionalities; file lifetime 7 days).

Action

Set the “rstauto” file content to FALSE or TRUE depending on the match of some variables used as control variables. The fiel will be sent to the portal for further submission evaluation.

Action

Calling the described functions