2025-09-07 18:16 1/16 Juropa decommissioned

# **Installation and Processing on Juropa**

Here will be some notes on the Juropa installation and how to use the software on Juropa at the Juelich Supercomuting Centre.

Work in progress but useful anyhow. The next section Using Juropa for LOFAR Processing contains the information you need to use the system as of May 2014. The sections below these up to date information are kept for archiving purpose (still useful).

# **Using Juropa for LOFAR Processing**

Here are the most recent information on how to make use of Juropa for LOFAR Processing. Last edit June 2014.

#### Account

First of all you need an account on the system. The Project leader is Matthias Hoeft and the Project ID is HTB00 (needed for registration). The following website contains all necessary links for allocating computing time in the Jülich Supercomputing Centre (JSC). Click on the link "User Accounts for projects on JUQUEEN, JUROPA,..." and follow the instructions.

http://www.fz-juelich.de/ias/jsc/EN/Expertise/Services/JSConline/ComputingTime/\_node.html german version:

http://www.fz-juelich.de/ias/jsc/DE/Leistungen/Dienstleistungen/JSCOnline/Rechenzeitvergabe/\_node.html

Get in contact with Matthias so he can sign your account application and initiate the next steps.

# **Acquiring Data**

Take a look at this site on how to get the data from the LTA

http://www.lofar.org/operations/doku.php?id=public:lta howto

To download data from the web you need the full filename. You can look those up in the catalog http://lofar.target.rug.nl/Lofar

The Juelich Http download server is here

https://lofar-download.fz-juelich.de/

For Sara

https://lofar-download.grid.sara.nl/

If you want to do a direct srm copy you need a Grid Certificate and to Register in the Virtual Organization (VO) as a Lofar User.

#### **Grid Certificate**

To get direct srm copy access to the LTA storage you need a Grid Certificate.

Its best to ask around in your institute where to get and how to install such a certificate. General information about german grid certificates can be found here:

http://dgi-2.d-grid.de/zertifikate.php

# **SRM Copy from Juropa**

There is guide from Hanno Holties which is sadly not applicable to Juropa anymore. But it still contains useful information

http://www.lofar.org/operations/doku.php?id=public:srmclientinstallation&#walkthrough)

Only the following steps are necessary on Juropa:

Store your private key in \$HOME/.globus/userkey.pem

Execute:

```
chmod 600 $HOME/.globus/userkey.pem
```

Store your signed certificate in \$HOME/.globus/usercert.pem Then you have to generate a proxy. Simply source the script

. /lustre/jhome17/htb00/htb003/env srm.sh

and then you can create your proxy

```
grid-proxy-init -bits 2048
```

Test data retrieval:

```
srmcp -server_mode=passive
srm://srm.grid.sara.nl/pnfs/grid.sara.nl/data/lofar/ops/fifotest/file1M
file:///file1M
```

When copying data with the –jobfile option, keep in mind that there is a 30min cpu limit on the login node. Meaning your srmcp should be shorter that 30min.

#### **LOFAR Software**

The LOFAR Software Framework is installed in the home directory of user htb003. You load the environment with

. /lustre/jhome17/htb00/htb003/env\_lofar.sh

This loads Release version 2.1 (in the future probably always the latest release). You can also load a 2.3 version (env lofar 2.3.sh).

There is more software available:

- Casapy 4.2 → env casapy.sh
- Karma → env karma.sh
- losoto → env losoto.sh

In addition you might need a copy of the measurement data

2025-09-07 18:16 3/16 Juropa decommissioned

/lustre/jhome17/htb00/htb003/dataCEP

Put it in your home directory and point to it in a file .casarc (just contains: "measures.directory: [yourhome]/dataCEP")

If you require access to the GlobalSkyModel database, there is a copy of the database from the CEP Cluster (hopefully) running on the Juropa login node juropa02. Access the databse "gsm" on port 51000 with user "gsm" and pass "msss"

You can now run and test the executables on the login node from "lofar/release/bin" or run python scripts (your own or pipeline scripts in "local/lib/python2.7/site-packages/lofarpipe/recipes").

To run your jobs on the compute nodes you first have to setup and submit a job via the batch system. A detailed description can be found on the Juropa homepage

'http://www.fz-

juelich.de/ias/jsc/EN/Expertise/Supercomputers/JUROPA/UserInfo/QuickIntroduction.html'

Here is a simple example of the procedure. Basically you use two scripts. One to configure the job and one to setup the environment for your program and run it.

Do not get confused by the use of comments '#'. The '#' in front of MSUB commands is necessary for the command to be recognized from the Moab batch system.

You submit the job with the command "msub [yourscript]". Check your status with "showq -u 'username'". To see the whole machine with a gui try the "llview" program.

Contents of 'lofarmsub.sh':

```
#!/bin/bash -x
#MSUB -N Lofar-test
# just the name
#MSUB -l nodes=1:ppn=16
#MSUB -l walltime=00:30:00
#MSUB -e error.txt
# if keyword omitted : default is submitting directory
#MSUB -o output.txt
# if keyword omitted : default is submitting directory
#MSUB -M your@mail.de
#Mailadress
#MSUB -m eab
#send mail on end, abort, begin
./lofarCalibratorPipelinePy2.7.sh
```

The walltime is the time your job will be running on the machine. If it is to low and the job is not finished it will be killed. Is it to high your job might have to wait longer in queue but only the real computing time will be booked.

The maximum walltime is 24h.

It is a good practice to name the log files error and output with some job specific parameters and maybe the date.

You can choose to have mails send to you about the status of your job.

Contents of 'lofarCalibratorPipelinePy2.7.sh' (the environment variables are the same as in the env lofar.sh. you could use just that script first before using your custom environments):

```
#/bin/sh!
```

```
#start of jobscript
export OMP NUM THREADS=16
#
#
export PYTHONPATH=/lustre/jhome17/htb00/htb003/local/lib/python2.7/site-
packages: $PYTHONPATH
export
PYTHONPATH=/lustre/jhome17/htb00/htb003/lofar/release/lib/python2.7/site-
packages: $PYTHONPATH
export PATH=/lustre/jhome17/htb00/htb003/local/bin:$PATH
export PATH=/lustre/jhome17/htb00/htb003/lofar/release/bin:$PATH
export PATH=/lustre/jhome17/htb00/htb003/lofar/release/sbin:$PATH
#
export
LD LIBRARY PATH=/lustre/jhome17/htb00/htb003/lofar/release/lib:$LD LIBRARY P
ATH
export
LD LIBRARY PATH=/lustre/jhome17/htb00/htb003/lofar/release/lib64:$LD LIBRARY
PATH
export
LD LIBRARY PATH=/lustre/jhome17/htb00/htb003/local/lib:$LD LIBRARY PATH
export
LD LIBRARY PATH=/lustre/jhome17/htb00/htb003/local/lib64:$LD LIBRARY PATH
export LOFARROOT=/lustre/jhome17/htb00/htb003
module load gsl
module load GCC/4.6.3
/lustre/jhome17/htb00/htb003/lofar/release/bin/msss target pipeline.py
/lustre/jhome17/htb00/htb003/pipeline tests/Pipeline/target pipeline/Observa
tion64406 -c
/lustre/jhome17/htb00/htb003/lofar/release/share/pipeline/pipeline.cfg --job
target test omp16 descfile -d
```

Simply replace the pipeline call with the command you want to run in your job. Example of Alexanders bbs test: /lustre/jhome9/lofar/zdv596/LOFAR-Release-1\_14/lofar/release/bin/calibrate-stand-alone -v -n -f L104244\_SB200\_uv.dppp.MS BBS.parset skymodel.parset

One important remark for your working directory. Use the Filesystem mounted under \$WORK for your data and jobs.

From the Juropa home page:

**\$WORK** 

File system for large temporary files with high I/O bandwidth demands (scratch file system). No backup of files residing here. Files not used for more than 28 days will be automatically deleted!

## Jobs in parallel

(this section has to be reedited because of a bug involving the PSI WAIT parameter. for working

2025-09-07 18:16 5/16 Juropa decommissioned

multinoe compatible scripts as Bjoern for the moment. I will edit this section with the correct information after 16.6.14) You can start one job for every independent piece of data. You can use your old scripts and the pipeline scripts but every subtask will be processed in serial on one node. So typically you only allocate one node for your jobs.

To circumvent this, start the subprocesses in the python scripts in a different manner. Use the mpiexec command to start your subprocess. The Parastation MPI Demon will then allocate free resources to your subprocess when available. For this behavior the environment variable PSI\_WAIT has to be set. This means you can allocate the partition you want to work on with more than one node. Run your script and whenever you use a subprocess call use mpiexec with number of processes equal to one (np=1).

You can have up to 16 processes per node (eight cpus + smt mode). How many of these processes are allocated to your np=1 option depends on the number of threads you want to have for openMP. So for OMP\_NUM\_THREADS=4 you will be able to run 4 subprocesses on one node. With OMP\_NUM\_THREADS=16 one subprocess per node and with OMP\_NUM\_THREADS=1 you will have 16. As an example lets look at a part of a script from Andreas (run\_NDPPPs.py):(in progress) The snippet shows the the subprocess call with subprocess.Popen and how their return is handled. What has to be executed is in the list of tupels "cmds". Where the first entry is the executable and the second a temporary parset file. Hence the os.remove after the return. The process is put into a list of processes and the function returns when this list is empty.

```
while True:
    while cmds and len(processes) < max_task:</pre>
        task = cmds.pop()
        print time.asctime()," : ",list2cmdline(task)
        processes.append([Popen(task,env=myenv),task[1]])
        if waittime:
            break
    for p in processes:
        if done(p[0]):
            if success(p[0]):
                 os.remove(p[1])
                 processes.remove(p)
            else:
                 fail()
    if not processes and not cmds:
        break
    else:
        time.sleep(sleeptime)
```

To use multiple nodes on Juropa the command that is passed to popen has to be changed in the following way. The first argument is the executable followed by the arguments. The argument for "/bin/sh" has to be passed as one string and not as additional argument in the list. In this example the command we want to run consists of the executable and its argument written as tupels in "cmds". The mpiexec is executed on one available slot "-np=1" which has the number of processes you specified with OMP\_NUM\_THREADS. The argument "-x" passes all environment variables to the process executed with mpiexec. Then we wait while there are elements left in the list of processes until all have returned. With the env variable PSI\_WAIT=1 we can call more mpiexec than we have available slots. The mpi demon will handle the execution for us.

```
for task in cmds:
    command = ["mpiexec","-x","-np=1","/bin/sh", "-c", "hostname &&
```

```
"+task[0]+" "+task[1]]
    print command
    processes.append([Popen(command,env=myenv),task[1]])

while True:
    for p in processes:
        if done(p[0]):
            if success(p[0]):
                os.remove(p[1])
                processes.remove(p)
        else:
                print "Error in: ",p[1]
                os.remove(p[1])
                processes.remove(p)

if not processes:
        break
```

I hope these information are sufficient for some first tests and experiments. Good luck and let me know of any problems and feel free to give some feedback.

# Old installation guide (still useful information, but irrelevant for users)

The following libraries with given versions are installed in the home of user htb003 on Juropa. /lustre/jhome17/htb00/htb003/ [local and lofar]

Library	Version
bison	2.5
blitz	0.10
boost	1.44.0
cmake	2.8.5
casacore	trunk
casarest	8741
cfitsio	3240
fftw	3.2.2
flex	2.5.35
hdf5	1.8.4
libpng	1.5.6
libpqxx	3.1
log4cplus	1.0.4
matplotlib	1.2.1
m4	1.4.16
monetdb python client	11.15.7
numpy	1.7.1
OpenBLAS	0.2.5

2025-09-07 18:16 7/16 Juropa decommissioned

Library	Version
PostgreSQL	9.1.2
pyrap	trunk
python	2.7.5
scons	1.3.0
setuptools	0.6c11
wcslib	4.4.4
unittest-xml-reporting	1.5.0
pyfits	3.1.2
pywcs	1.10.2
scipy	0.12.0
argparse	1.2.1
libiberty	
LOFAR	1.16

Additional software for post processing requested by users:

Package	Version
SIP	4.15.1
PyQt4	4.10.3
iPython	1.1.0
casapy	41.0.24668

# LTA Installation on Juropa

The operating system is:

```
SUSE Linux Enterprise Server 11 (x86_64)

VERSION = 11

PATCHLEVEL = 1
```

With kernel version:

```
Linux 2.6.32.59-0.3-default x86_64 GNU/Linux
```

The current working installation is in:

```
/lustre/jhome17/htb00/htb003/lofar/release
```

Some things have to be Changed in order to compile and run everything on Juropa.

# **General Compile settings**

There are unresolved issues with older versions. Tests with gcc4.3.4 and gcc4.4.6 gave the error:

```
File "[install_dir]/lofar/release/lib/python2.6/site-
packages/lofar/parmdb/__init__.py", line 112, in getDefValues
```

```
return self. getDefValues (parmnamepattern)
TypeError: No to python (by-value) converter found for C++ type:
casa::Record
```

The compiler suite has to be changed to gcc4.6.3. You do this with the command:

```
module load GCC/4.6.3
```

You also have to load the gsl module

```
module load gsl
```

Set environment variables:

```
export CC=/usr/local/gcc/gcc-4.6.3/bin/gcc
export CXX=/usr/local/gcc/gcc-4.6.3/bin/g++
```

Using gcc4.6.3 gives the error

```
File "[install dir]/local/lib/python2.6/site-packages/pyrap.tables-
trunk r332-py2.6-linux-x86 64.egg/pyrap/tables/table.py", line 1023, in
addcols
    self. addcols (tdesc, dminfo, addtoparent)
TypeError: No registered converter was able to produce a C++ rvalue of type
int from this Python object of type numpy.int32
```

This can be corrected by changing the order of the "pyrap.tables" import in the node script "imager prepare.py"

Change from:

```
from future import with statement
import sys
import shutil
import os
import subprocess
import copy
from lofarpipe.support.pipelinelogging import CatchLog4CPlus
from lofarpipe.support.pipelinelogging import log time
from lofarpipe.support.utilities import patch parset
from lofarpipe.support.utilities import catch segfaults
from lofarpipe.support.lofarnode import LOFARnodeTCP
from lofarpipe.support.utilities import create directory
from lofarpipe.support.data map import DataMap
from lofarpipe.support.subprocessgroup import SubProcessGroup
import pyrap.tables as pt
```

to

2025-09-07 18:16 9/16 Juropa decommissioned

```
from __future__ import with_statement
import sys
import shutil
import os
import subprocess
import copy
import pyrap.tables as pt
from lofarpipe.support.pipelinelogging import CatchLog4CPlus
from lofarpipe.support.pipelinelogging import log_time
from lofarpipe.support.utilities import patch_parset
from lofarpipe.support.utilities import catch_segfaults
from lofarpipe.support.lofarnode import LOFARnodeTCP
from lofarpipe.support.utilities import create_directory
from lofarpipe.support.data_map import DataMap
from lofarpipe.support.subprocessGroup import SubProcessGroup
```

## Libiberty

The change of the compiler suite brings additional problems. The system paths change to custom locations which prevents the finding of the correct version of the library "libiberty.a". The one found is missing the compiler flag -fPIC so it can be linked dynamically. You have to compile it yourself (or copy the correct one from the old path ←- needs checking).

#### **PYRAP**

Pyrap will not compile because it will not find the glibc libraries as they are not in the standard location anymore. To correct this you have to edit the pyrap SConsript in pyrap/libpyrap/trunk from

to

```
env = Environment(ENV = os.environ,
```

Note: you have to use the trunk version and not the latest release because otherwise pyrap tables wont work. Also add the the compile option –enable-rpath. Use "batchbuild-trunk.py" for installation instead of "batchbuild.py".

#### **FFTW**

For the fftw library you have to add the option "-enable-threads" for the compiler.

#### **SCIPY**

For scipy add the environment variable UMFPACK="None".

#### **Blitz**

Version 0.9 did not compile. Version 0.10 works fine.

#### **CMake**

Tried using the system installed CMake which is also version 2.8.5. There are Problems with some "find" scripts (LAPACK,BLAS). I remember casacore and Lofar would not install as they should, forgot the details though as the self installed version does what it should. Maybe one should look into it in the future because what CMake to use should not matter.

#### Casacore

Need to use the trunk version instead of release 1.5 for functionality. Using the buildscript options, Casacore is missing support for hdf5 which is needed for the final steps of the imaging pipeline. Added hdf5 support as well as OpenMP and Threads by hand in the ccmake interface. ToDo: add options to buildscript

#### **LOFAR**

The system installed libpng was hiding the selfcompiled version which lead to problems during program execution. The proper path to libpng library and include dir have to be set in cmake. Same goes for the selfcompiled libiberty. ToDo: add options in cmake.build file (at least for libpng since its part of standard installation).

The variants file GNU.cmake has to be edited to set the path to the new compiler version

# SSH support

Logging into compute nodes via ssh is not permitted on the system. Subprocesses have to be started on the one rented compute for now via shell or mpiexec command. Distribution to multiple nodes is in the works.

2025-09-07 18:16 11/16 Juropa decommissioned

lofarpipe/support/remotecommand.py has to be edited to circumvent ssh for locahost job spawning (svn diff, see extra section)

# File copy

Since the Juropa cluster uses a shared filesystem every data should be (read: HAS to be) present at job start to not waste computing time. The login nodes are supposed to be used for job preparation and analysis afterwards. So we do not need to copy data to the working directory (quota is limited!). The change for that is in lofarpipe/recipes/nodes/imager prepare.py (svn diff, see extra section).

#### **Imaging Pipeline**

Because the datacopy to the working directory will not be done automatically the data has to present in your working directory set in pipeline.cfg plus subfolder jobname. Somthing like working dir/imaging pipeline/subbands

In lofarpipe/recipes/nodes/imager\_prepare.py in the call to rfi\_console the "indirect\_read" option has to be removed because of insufficient write access on the target machine (some folder you are not supposed to use as normal user)

#### **GSM Database**

A local version of the GSM Database has to be used. At the moment it is running on Juropa02 but has to be restarted after downtimes or after the demon used up its 30min wallclock time. The database is in the home folder of user zdv596 and can be started with

```
cd /lustre/jhome9/lofar/zdv596
monetdbd start gsm
monetdb start gsm
```

monetdb is installed in /lustre/jhome9/lofar/zdv596/LOFAR-Release-1\_14/local/bin How to install a local GSM Database take a look at this http://www.lofar.org/wiki/doku.php?id=lta:software\_stack\_installation#gsm\_database\_installation

# gsmutils.py

The changes made during release 1.14 (after initial release) break the functionality of the database access on Juropa. You can revert back to the initial release of 1.14 or use the fix mentioned below. The error is as follows:

```
ERROR:node.jj29l09.imager_create_dbs:expected_fluxes_in_fov raise exception:
GDK reported error.
!BATfetchjoin(tmpr_2277,tmp_4347) does not hit always (|bn|=0 != 46216=|l|)
=> can't use fetchjoin.

ERROR:node.jj29l09.imager_create_dbs:failed creating skymodel
```

```
Traceback (most recent call last):
  File "/lustre/jhome17/htb00/htb003/L0FAR-R14-
P275/lofar/release/lib/python2.7/site-
packages/lofarpipe/recipes/nodes/imager create dbs.py", line 470, in
<module>
    _jobid, _jobhost, _jobport).run_with_stored_arguments())
  File "/lustre/jhome17/htb00/htb003/L0FAR-R14-
P275/lofar/release/lib/python2.7/site-
packages/lofarpipe/support/lofarnode.py", line 85, in
run with stored arguments
    returnvalue = self.run with logging(*self.arguments)
  File "/lustre/jhome17/htb00/htb003/L0FAR-R14-
P275/lofar/release/lib/python2.7/site-
packages/lofarpipe/support/lofarnode.py", line 59, in run_with_logging
    return self.run(*args)
  File "/lustre/jhome17/htb00/htb003/L0FAR-R14-
P275/lofar/release/lib/python2.7/site-
packages/lofarpipe/recipes/nodes/imager create dbs.py", line 71, in run
    monet db password, assoc theta)
TypeError: 'int' object is not iterable
```

Bart Scheers provided a temporary fix for this issue. You need to change the configuration of your database.

```
Stop gsm database set nthreads property to 1:

monetdb stop gsm
monetdb set nthreads=1 gsm
monetdb start gsm
```

# imager prepare.py

Prevent datacopy when working on local host only. No "indirect\_read" supported on Juropa. SVN diff for lofarpipe/recipes/nodes/imager\_prepare.py

2025-09-07 18:16 13/16 Juropa decommissioned

```
from lofarpipe.support.subprocessgroup import SubProcessGroup
-import pyrap.tables as pt
+#import pyrap.tables as pt
 # Some constant settings for the recipe
 time slice dir name = "time slices"
@ -140,37 +141,44 @
             if input item.skip == True:
                 exit status = 1 #
             # construct copy command
             command = ["rsync", "-r", "{0}:{1}".format(
                             input_item.host, input_item.file),
                                 "{0}".format(processed ms dir)]
            self.logger.debug(input_item.host)
+
            self.logger.debug(self.host)
+
             # skip the copy if machine is the same (execution on
localhost).
            # make sure data is in the correct directory. for now:
working dir/trunk imager regression/subbands
            if input_item.host != "localhost":
+
+
                        # construct copy command
                command = ["rsync", "-r", "{0}:{1}".format(
                            input_item.host, input_item.file),
+
                             "{0}".format(processed ms dir)]
+
             self.logger.debug("executing: " + " ".join(command))
                self.logger.debug("executing: " + " ".join(command))
             # Spawn a subprocess and connect the pipes
             # The copy step is performed 720 at once in that case which
might
             # saturate the cluster.
             copy process = subprocess.Popen(
                         command,
                         stdin=subprocess.PIPE,
                         stdout=subprocess.PIPE,
                         stderr=subprocess.PIPE)
                # Spawn a subprocess and connect the pipes
+
                # The copy step is performed 720 at once in that case which
+
might
                # saturate the cluster.
                copy process = subprocess.Popen(
+
                                 command,
+
                                 stdin=subprocess.PIPE,
+
                                 stdout=subprocess.PIPE,
+
                                 stderr=subprocess.PIPE)
```

```
# Wait for finish of copy inside the loop: enforce single tread
             # copy
             (stdoutdata, stderrdata) = copy_process.communicate()
                # Wait for finish of copy inside the loop: enforce single
+
tread
                # copy
+
                (stdoutdata, stderrdata) = copy process.communicate()
+
             exit_status = copy_process.returncode
                exit status = copy process.returncode
+
             #if copy failed log the missing file and update the skip fields
             if exit status != 0:
                 input item.skip = True
                 copied item.skip = True
                 self.logger.warning(
                 if exit status != 0:
+
                        input item.skip = True
                        copied item.skip = True
+
                        self.logger.warning(
+
                             "Failed loading file:
{0}".format(input item.file))
                 self.logger.warning(stderrdata)
                        self.logger.warning(stderrdata)
+
             self.logger.debug(stdoutdata)
                        self.logger.debug(stdoutdata)
         return copied ms map
@ -298,7 +306,8 @
                 # construct copy command
                 self.logger.info(time slice)
                 command = [rficonsole executable, "-indirect-read",
                 command = [rficonsole_executable,
                            ## "-indirect-read",
                             time slicel
                 self.logger.info("executing rficonsole command:
{0}".format(
                             " ".join(command)))
```

# remotecommand.py

Extra Path variable for remote systems where python is not installed in the same place as on the master node.

Prevent ssh commands entirely as they are not supported on Juropa. Just a switch for localhost. SVN diff:

2025-09-07 18:16 15/16 Juropa decommissioned

```
Index: CEP/Pipeline/framework/lofarpipe/support/remotecommand.py
--- CEP/Pipeline/framework/lofarpipe/support/remotecommand.py
                                                                  (revision
25127)
+++ CEP/Pipeline/framework/lofarpipe/support/remotecommand.py
                                                                 (working
copy)
@ -111,13 +111,29 @
     process.kill = lambda : os.kill(process.pid, signal.SIGTERM)
     return process
+def run_via_local(logger, command, arguments):
     commandstring = ["/bin/sh","-c"]
+
     for arg in arguments:
+
         command = command + " " + str(arg)
+
     commandstring.append(command)
+
     process = spawn process(commandstring, logger)
+
     process.kill = lambda : os.kill(process.pid, signal.SIGKILL)
+
     return process
+
def run_via_ssh(logger, host, command, environment, arguments):
     Dispatch a remote command via SSH.
     We return a Popen object pointing at the SSH session, to which we add a
     kill method for shutting down the connection if required.
+
     hack/
+
     if host is localhost run without ssh
+
     /hack
     .....
     if host == "localhost":
+
         logger.debug("Running command locally")
+
         return run via local(logger, command, arguments)
+
     logger.debug("Dispatching command to %s with ssh" % host)
     ssh cmd = ["ssh", "-n", "-tt", "-x", host, "--", "/bin/sh", "-c"]
@ -214,6 +230,7 @
                 self.host,
                 self.command,
                 {
                    "PATH": os.environ.get('PATH'),
                     "PYTHONPATH": os.environ.get('PYTHONPATH'),
                     "LD LIBRARY PATH": os.environ.get('LD LIBRARY PATH')
                 },
```

# copier.py

The copy process of the Intrument files used in the target pipeline has to be changed because rsync is not supported between nodes. Change to a simple copy command.

#### recipes/nodes/copier.py

```
53,56c53
          if source node=="localhost":
<
              command = ["cp", "-
<
r","{0}".format(source_path),"{0}".format(target_path)]
              command = ["rsync", "-r",
<
          command = ["rsync", "-r",
```

## parset.py

Changed the "output dir" in "patch parset" to a directory visible from all nodes. Should maybe be changed to the working directory?!

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