

## IFront - Bug #3648

### Error should be handled more gracefully

04/02/2013 03:27 PM - Joe Boyd

<b>Status:</b> Closed	<b>Start date:</b> 04/02/2013
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> v1.2	<b>Spent time:</b> 0.00 hour

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**Description**

We should handle more gracefully if jobsub is run on an unsupported machine. Instead of saying it "will probably not work" we should just bail and maybe give some message about where it should be run.

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Caller: Margaret Votava  
Assignment Group: REX-GRID-Support  
Assigned To: Joe Boyd  
Summary:

hi,

I logged into gpsn01 and tried to setup jobsub, but get the following warning:

```
gpsn01> source /grid/fermiapp/products/common/etc/setup.sh
gpsn01> setup jobsub_tools
tried to set up with gid=gpcf. this product will probably not work
dirname: missing operand
Try `dirname --help' for more information.
dirname: missing operand
Try `dirname --help' for more information.
```

Looks like we need an additional check in the setup script.

Margaret

### History

#### #1 - 04/03/2013 03:41 PM - Dennis Box

- Target version set to v1.2

In defense of the existing code and error messages, 'probably will not work' is accurate. Submission will indeed work from any machine as long as X509\_USER\_PROXY, CONDOR\_TMP, and CONDOR\_EXEC are set correctly. If they are not set, submission will not work, and its probable that someone who ignores the login message on gpsn01 to not use it but to use one of the gpvm\* machines instead has not looked into the situation enough to know how to set these :)

I believe Margaret was trying to look at the online help, which does work.

```
[dbox@gpsn01 ~]$ ./grid/fermiapp/products/common/etc/setup.sh
[dbox@gpsn01 ~]$ setup jobsub_tools
tried to set up with gid=gpcf. this product will probably not work
dirname: missing operand
Try `dirname --help' for more information.
dirname: missing operand
Try `dirname --help' for more information.
[dbox@gpsn01 ~]$ jobsub -h
usage: jobsub [options] your_script [your_script_args]
submit your_script to local batch or to the OSG grid
```

options:  
--version show program's version number and exit  
-h, --help show this help message and exit

#### Generic Options:

-G ACCOUNTINGGROUP, --group=ACCOUNTINGGROUP  
Group/Experiment/Subgroup for priorities and accounting

-v, --verbose  
dump internal state of program (useful for debugging)

-M, --mail\_always  
send mail when job completes or fails

-q, --mail\_on\_error  
send mail only when job fails due to error (default)

-Q, --mail\_never  
never send mail (default is to send mail on error)

-T, --test\_queue  
Submit as a test job. Job will run with highest possible priority, but you can only have one such job in the queue at a time.

-g, --grid  
run job on the FNAL GP grid. Other flags can modify target sites to include other areas of the Open Science Grid

--nowrapfile  
do not generate shell wrapper for fermigrid operations. (default is to generate a wrapfile)

-c REQUIREMENTS, --condor\_requirements=REQUIREMENTS  
append condor requirements

-C  
execute on grid from directory you are currently in

-e ADDED\_ENVIRONMENT, --environment=ADDED\_ENVIRONMENT  
-e ADDED\_ENVIRONMENT exports this variable and its local value to worker node environment. For example export FOO="BAR"; jobsub -e FOO &lt;more stuff>; guarantees that the value of \$FOO on the worker node is "BAR" . Can use this option as many times as desired

--submit\_host=SUBMIT\_HOST  
submit to different host

-p  
use parrot to run on afs (only makes sense with -a flag)

--pOff  
turn parrot off explicitly (this is the default)

-n, --no\_submit  
generate condor\_command file but do not submit

--opportunistic  
submit opportunistically to Fermigrid GP Grid and CDF Grid. This option will allow you to potentially get more slots than your Fermigrid quota, but these slots are subject to preemption

-N QUEUECOUNT  
submit N copies of this job. Each job will have access to the environment variable \$PROCESS that provides the job number (0 to &lt;num>;-1), equivalent to the decimal point in the job ID (the '2' in 134567.2).

-x X509USERPROXY, --X509\_USER\_PROXY=X509USERPROXY  
location of X509\_USER\_PROXY (expert mode)

#### File Options:

-l LINES, --lines=LINES  
[Expert option] Add the line &lt;line> to the Condor submission (.cmd) file. See Condor help for more.

-a, --needafs  
run on afs using parrot (this is discouraged)

-L JOBLOGFILE, --log\_file=JOBLOGFILE  
Log file to hold log output from job.

--no\_log\_buffer  
write log file directly to disk. Default is to copy it back after job is completed. This option is useful for debugging but can be VERY DANGEROUS as joblogfile typically is sent to bluearc. Using this option incorrectly can cause all grid submission systems at FNAL to become overwhelmed resulting in angry admins hunting you down, so USE SPARINGLY.

--use\_gftp  
use grid-ftp to transfer file back

-f INPUT\_DIR\_ARRAY -f &lt;file>; input file &lt;file>; will be copied to directory \$CONDOR\_DIR\_INPUT on the execution node.  
Example :-f /grid/data/minerva/my/input/file.xxx will be copied to \$CONDOR\_DIR\_INPUT/file.xxx  
Specify as many -f file1 -f file2 args as you need.

-d OUTPUT\_DIR\_ARRAY -d&lt;tag>; &lt;dir>; Writable directory \$CONDOR\_DIR\_&lt;tag>; will exist on the execution node. After job completion, its contents will be moved to &lt;dir>; automatically  
Specify as many &lt;tag>;/&lt;dir>; pairs as you need.

#### SAM Options:

```
--dataset_definition=DATASET_DEFINITION
    SAM dataset definition used in a Directed Acyclic
    Graph (DAG)
--project_name=PROJECT_NAME
    optional project name for SAM DAG
```

#### NOTES

You can have as many instances of `-c`, `-d`, `-e`, `-f`, `-l` and `-y` as you need.

The `-d` directory mapping works on non-Grid nodes, too.

export `IFDH_VERSION=some_version` then use `-e IFDH_VERSION` to use  
the (some\_version) release of `ifdh` for copying files in and out  
with `-d` and `-f` flags instead of the current `ifdh` version in KITS

More documentation is available at

<https://cdcv.s.fnal.gov/redmine/projects/ifront/wiki/UsingJobSub>

and on this machine at

`$JOBSUB_TOOLS_DIR/docs/`

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```
[dbox@gpsn01 ~]$
```

```
[dbox@gpsn01 ~]$ setup jobsub_tools
```

tried to set up with `gid=gpcf`. this product will probably not work

for more information:

<https://cdcv.s.fnal.gov/redmine/projects/ifront/wiki/UsingJobSub#The-probably-will-not-work-error-how-to-make-it-work>

`dirname: missing operand`

Try `'dirname --help'` for more information.

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Try `'dirname --help'` for more information.

Anyway, I have fixed this in `jobsub_tools v1_2_rc2`

The new error message ( I can't get rid of the `dirname` easily):

#### #2 - 04/03/2013 04:06 PM - Dennis Box

- Status changed from New to Closed

issue fixed in `v1_2_rc2`

Workaround documented at <https://cdcv.s.fnal.gov/redmine/projects/ifront/wiki/UsingJobSub#The-probably-will-not-work-error-how-to-make-it-work>