- Command Reference

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· htcaas-job-submit

Submit a metajob (general job)

- htcaas-job-submit [--help or -h]
- htcaas-job-submit [-f <jsdl file>]
- Options:
 - · -h or --help: Display usage information
 - -f <jsdl file>: Submit a metajob in accordance with '<jsdl file>'
 - -t <estimated time(sec)>: To be used for backfill function
- Exit Status:
 - htcaas-job-submit will exit with a metajob id upon success, and it will exit with error message upon failure
- Example:

```
To submit a metajob using hello.jsdl, (correct the jsdl file first)
```

```
% htcaas-job-submit ./hello.jsdl
or
% htcaas-job-submit /somewhere/hello.jsdl
```

htcaas-job-status

Get a status of metajob

- htcaas-job-status [--help or -h]
- htcaas-job-status [-m < metajob id>] [-s < sequence>] [custom options]
- Options
 - · -h or --help: Display usage information
 - -m <metajob id>: Shows status of metajob having <metajob id>
 - -s <sequence>: Shows status of a specific subjob of <metajob id>. If put empty value on <sequence>, it shows all subjobs' info of the metajob
 - Custom options:
 - · --all or -a: shows all metajobs' status and information
 - · --info or -i: shows information in detail
 - --progress or -p: shows summary
- Exit Status:
 - htcaas-job-status will return information and status upon success, and it will exit with error message upon failure
- Example:

```
To see status of all subjobs in a metajob (id is 1234)
```

```
% htcaas-job-status -m 1234 -s
```

To see status of specific subjob(e.g. 1st one) of the metajob

```
% htcaas-job-status -m 1234 -s 1
```

To see only status for all subjobs in the metajob,

```
% htcaas-job-status -m 1234 -s | grep Status
Status: done
```

The -p option displays the summary of a metajob

```
MetaJob ID : 1234
Total Jobs : 10
Waiting Jobs : 2
Preparing Jobs : 0
Running Jobs : 4
Done Jobs : 4
Failed Jobs : 0
canceled Jobs : 0
```

The -i option displays detailed information of a metajob

```
% htcaas-job-status -m 1234 -i
or
% htcaas-job-status -m 1234 -s 1 -i
```

htcaas-job-log

Get a log(standard out & error) of metajob

- htcaas-job-log [--help or -h]
- htcaas-job-log [-m <metajob id>] [-s <sequence>]
- Options:
 - · -h or --help: Displays usage information
 - -m <metajob id>: Shows log of metajob having <metajob id>
 - -s <sequence>: Shows log of a specific subjob of <metajob id>
- Exit Status:
 - · htcaas-job-log will show log message upon success, and it will exit with error message upon failure
- Example:

```
To see status of specific subjob(e.g. 1st one) of a metajob (id is 1234)
```

```
% htcaas-job-log -m 1234 -s 1
```

htcaas-job-cancel

Cancel a metajob

- htcaas-job-cancel [--help or -h]
- htcaas-job-cancel [-m <metajob id>]
- Options:
 - · -h or --help: Displays usage information
 - -m < metajob id> : Cancels a metajob having < metajob id>
- Exit Status:
 - htcaas-job-cancel will show its metajob id upon success, and it will exit with error message upon failure
- Example:

```
To cancel a metajob (id is 1234)
```

```
% htcaas-job-cancel -m 1234
```

htcaas-job-resubmit

Resubmit subjob(s)

- htcaas-job-resubmit [--help or -h]
- htcaas-job-resubmit [-m <metajob id>] [-s < sequence >]
- htcaas-job-resubmit [-m < metajob id>] [-c < status >]
- Options:
 - · -h or --help: Displays usage information
 - -m < metajob id> : Resubmits a metajob having < metajob id>
 - -s < sequence>: Sequence of subjob(e.g., 1,2,..). One or multiple (e.g. 1 or 1-100 or 1,3,5-7)
 - -c <status>: Status constraint to be resubmitted (waiting | failed | preparing | running | done)
- Exit Status:
 - htcaas-job-resubmit will show its metajob id upon success, and it will exit with error message upon failure

Example:

```
To resubmit specific subjob(s)(e.g. 1,2,3 and 10<sup>th</sup>) of a metajob (id is 1234)
```

```
% htcaas-job-resubmit -m 1234 -s 1-3,10
```

To resubmit subjob(s) having specific status (e.g. failed) of a metajob (id is 1234)

```
% htcaas-job-resubmit -m 1234 -c failed
```

htcaas-file-put

Upload(put) file(s) or directory to a Server

- htcaas-file-put [--help or -h]
- htcaas-file-put [-f < file name>] [-r <remote location>] [-i <username>]
- htcaas-file-put [-l <local directory>] [-r <remote location>] [-i <username>]

Options:

- -h or --help: Displays usage information
- -f <file name with absolute path>: Sends <file name> to destination. It should be absolute path
- -l <local directory> : Sends entire <local directory> to destination
- -r < remote location > : Send file or directory to < remote location >
- -i <username> : Transferred file or directory is owned by <username>

Exit Status:

htcaas-file-put will return no message upon success, and it will exit with error message upon failure

To send a file sample.dat owned by someuser to a working directory on the server

```
% htcaas-file-put -f /somewhere/sample.dat -r /server/workingdir/ -i someuser
or
% htcaas-file-put -f ${PWD}/sample.dat -r /server/workingdir/ -i someuser
```

To send a directory owned by someuser to a working directory on the server

```
% htcaas-file-put -d /somewhere/thisDIR -r /server/workingdir/ -i someuser
% htcaas-file-put -d ${PWD}/thisDIR -r /server/workingdir/ -i someuser
```

If you want to send a file or directory to **NEWDIR** which does not exist on working directory of server,

```
% htcaas-file-put -f /somewhere/sample.dat -r /server/workingdir/NEWDIR -i someuser
% htcaas-file-put -d /somewhere/thisDIR -r /server/workingdir/NEWDIR -i someuser
```

htcaas-file-get

Download(get) file(s) or directory from a Server

- htcaas-file-get [--help or -h]
- htcaas-file-get [-I < filename with absolute localpath>] [-r <file name with remote location>] [-i <username>]
- htcaas-file-get [-I < dir with absolute localpath>] [-r <file name with remote location>] [-i <username>]

Options:

- -h or --help: Display usage information
- -I < path+{file or di}r>: file or directory name to be downloaded will be located on path
- -r <remote path+{file or dir}>: file or directory name on source(remote) location
- -i <username> : Transferred file or directory is owned by <username>

Exit Status:

htcaas-file-get will return no message upon success, and it will exit with error message upon failure

To get a file sample.dat owned by someuser from a working directory on the server to local directory somewhere

```
% htcaas-file-get -1 /somewhere/sample.dat -r /server/workingdir/sample.dat -i someuser
or
% htcaas-file-get -1 ${PWD}/sample.dat -r /server/workingdir/sample.dat -i someuser
```

To get a directory owned by someuser from a working directory on the server to local directory somewhere

```
% htcaas-file-get -l /somewhere/thisDIR -r /server/workingdir/thisDIR -i someuser
% htcaas-file-get -l ${PWD}/thisDIR -r /server/workingdir/thisDIR -i someuser
```

If you want to send a file or directory to **NEWDIR** which does not exist on local,

```
% htcaas-file-get -l /somewhere/NEWDIR/sample.dat -r /server/workingdir/sample.dat -i someuser
```

% htcaas-file-get -1 /somewhere/NEWDIR/thisDIR -r /server/workingdir/thisDIR -i someuser

htcaas-file-list

List directory contents on server

- htcaas-file-list [--help or -h]
- htcaas-file-list [-p or -pwd <FTP password>] [-r <remote directory>]
- Options:
 - · -h or --help: Display usage information
 - -p < FTP password>: Server password for this user
 - -r <remote directory >: It lists <remote directory >, and it returns the list of user's home directory if don't use -r option,

Exit Status:

 htcaas-file-list will return list of preferring directory upon success, and it will exit with error message upon failure

Example:

To get list of a directory somewhere on server,

```
% htcaas-file-list -p pass123 -r /somewhere
   [Directory]: MG5_aMC_v2_1_2
   [Directory]: MG5_workspace
   [Directory]: lib
   [Directory]: output
   [Directory]: workspace
   [File]: PI_sub.py
   [File]: PI_sub.sh
   [File]: env.sh
```

To get list of user home directory

```
% htcaas-file-list -p pass123
```

htcaas-mgjob-submit

Submit a metajob for MadGraph5 (https://launchpad.net/mg5amcnlo)

- htcaas-mgjob-submit [--help or -h]
- htcaas-mgjob-submit [-d or --dir <working directory>] [-e or --exec <executable(s)>] [-a <arguments>]
- Options:
 - · -h or --help: Display usage information
 - · -d <working directory>: a submitted metajob will be run on the working directory
 - -e < executable(s)>: executable(s) for this metajob. Multiple executables are separated with semi-colon(;). e.g. ajob1;ajob2;ajob3
 - -a <arguments>: argument(s) used for all subjob(s). Multiple arguments are separated with equal symbol(=). **e.g.** abc=123=xyz
- Exit Status:
 - htcaas-mgjob-submit will exit with a metajob id upon success, and it will exit with error message upon failure

Example:

To submit a MG5 metajob with working directory /somewhere/wd, one executable ajob1 and arguments 2 F 0

```
% htcaas-mgjob-submit -d /somewhere/wd -e ajob1 -a 2=F=0
If workding directory is current directory
% htcaas-mgjob-submit -d $PWD -e ajob1 -a 2=F=0
If don't need arguments
% htcaas-mgjob-submit -d $PWD -e ajob1
```

To submit a MG5 Metajob having multiple subjobs with different executables(ajob1, ajob2, ajob3) each other.

```
% htcaas-mgjob-submit -d /somewhere/wd -e ajob1;ajob2;ajob3 -a 2=F=0
```

In above case, each subjob will be executed on some computing nodes like the followings

```
% /bin/bash /somewhere/wd/ajob1 2 F 0
% /bin/bash /somewhere/wd/ajob2 2 F 0
% /bin/bash /somewhere/wd/ajob3 2 F 0
```