

NAME

dtsq – submit (enqueue) data to the DTS for transport

SYNOPSIS

dtsq [-q <queue>] [-f] [-h <ip>] <path> [<path>]

DESCRIPTION

The *dtsq* task is used to submit files or directories to the DTS for transport on the specified queue. The task requires either a configuration file to define the supported queues (the **\$HOME/.dtsq_config** file is the default, alternate files may be named with the **-c <path>** commandline option), or use of the cmdline flags to specify the target DTS host and queue name.

When invoked, the DTSQ task will attempt to contact the DTS machine hosting the queue, verifying that the DTS daemon is responding and willing to accept the file (i.e. there is sufficient disk space on the remote machine, the queue is operational, etc). If successful, transport of the file to the remote queue directory is begun using the number of threads specified in the configuration file (or with the **-N <nthreads>** option). If the transport method is specified as *give* then the server sockets are opened on the local machine and the remote DTS will connect as a client to initiate transport, in the case of a *push* method the remote DTS will open the server sockets and the DTSQ will connect as a client to begin transport.

OPTIONS

The following commandline options are available:

- b** bundle (i.e. tar) all files for transfer as a single data object
- f** fork to do the data transfer
- m <method>** specify transfer method (push | give)
- p <p=v>** pass param/value pair
- s** do file checksum
- R** recover failed queue attempts
- V** verify queue transfers
- +f** disable task fork
- +s** disable file checksum flag
- +d** debug flag

Common DTS Options

- debug <N>** set debug level
- help** print task help
- noop** no-op flag, print steps taken only
- verbose** verbose flag
- version** print task version

-c <file> set DTSQ config file to be used
-q <queue> submit to specified queue
-t <host> name/IP address of target DTS host
-w <path> set directory to DTSQ working directory

-H <port> set hi transfer port
-L <port> set low transfer port
-N <NThreads>
 set number of transfer threads
-P <port> set communications port

ENVIRONMENT VARIABLES

The *DTSQ* task will make use of the following environment variables if defined:

DTSQ_CONFIG

The location of the DTSQ configuration file to use. This variable will be overridden by the commandline *-c* option and the default file in the user's \$HOME directory.

DTSQ_WORKDIR

The location of the DTSQ working directory. This variable will be overridden by the commandline *-w* option and the default \$HOME/.dtsq directory.

RETURN STATUS

On exit the task will return the following status codes:

0 Success
 1 Error code

EXAMPLES

1) Queue a file for transport:
 % dtsq -q test /path/file.fits.fz

BUGS

No known bugs at the time of writing.

Revision History

June 2012 - First public release

Author

Michael Fitzpatrick (fitz@noao.edu), June 2012

SEE ALSO

dtsq_config(1), dtscd(1), dtscp(1), dtsh(1), dtsq(1), dtsmon(1), dtsstat(1)