

JAVA COG KIT COMMAND LINE PROGRAMS

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Software Version: 4.1.3

Url: <http://www.cogkit.org/release/4.1.3/manual/commands.pdf>

Url: <http://www.cogkit.org/release/4.1.3/manual/commands/commands.html>

Last update: September 3, 2005

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1. ABOUT THIS DOCUMENT


This document includes the command line tools that are distributed as part of the Java CoG Kit.

1.1. Viewing

The best way to read this document is to use the PDF version and read it with Adobe Acrobat Reader. Please make sure you configure Adobe Acrobat Reader appropriately so you can follow hyperlinks. This is the case if you follow the default installation. Acrobat Reader is available at <http://www.adobe.com/products/acrobat/readermain.html>. Because the hyperlinks are not available in the printed form of this manual and we support saving our environment we strongly discourage printing this document.

We recommend that you save this manual locally on your machine and use Acrobat Reader. This has the advantage that you do not lose your anchor points while switching back and forth between different hyperlinks. An HTML version of this manual is planned, but not available yet.

1.2. Format

We have augmented the document with some comments at places where we found issues. Our intend is to address these issues in a future release. The comments are marked by the icon  and the name of the person that will work on the removal of the issue.

2. REGISTRATION

Please be a team player and support us indirectly by registering with us or reporting your use of the Java CoG Kit. Although this software is free, we still need to justify to our funders the usefulness of the projects. If you want to help us with our efforts please take a few seconds to complete this information. We do not use this information for other purposes. If you have special needs or concerns please contact gregor@mcs.anl.gov. The registration form can filled out in a variety of formats. The online form can be found at

<http://www.cogkit.org/register>

This form is available also as ASCII text at

<http://www.cogkit.org/register/form.txt>

which you can FAX to

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3. INTRODUCTION

- build (see Section [4.1](#))
- grid-proxy-init (see Section [5.1](#))
- visual-grid-proxy-init (see Section [5.2](#))
- grid-proxy-info (see Section [5.3](#))
- grid-proxy-destroy (see Section [5.4](#))
- grid-cert-info (see Section [5.5](#))
- grid-change-pass-phrase (see Section [5.6](#))
- globus2jks (see Section [5.7](#))
- myproxy (see Section [5.8](#))
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- cog-job-submit (see Section [6.2](#))
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- cog-checkpoint-status (see Section [6.4](#))
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- cog-file-transfer (see Section [7.1](#))
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- globus-personal-gatekeeper (see Section [6.6](#))
- globus-url-copy (see Section [7.3](#))
- globus-gass-server-shutdown (see Section [7.4](#))
- globus-gass-server (see Section [7.5](#))
- graph-editor (see Section [??](#))
- cog-workflow-gui (see Section [8.2](#))
- cog-workflow (see Section [8.3](#))
- grid-info-search (see Section [9.1](#))
- cog-info (see Section [10.1](#))
- sample-launcher (see Section [10.2](#))

4. COMPILATION

4.1. build

NAME

ant - the Java CoG Kit build process

SYNOPSIS

```
ant [help] [dist] [jar] [javadoc]
    [clean] [distclean] [cleanall]
    [all] [dist.joint]
    [eclipse.modules] [eclipse.all] [eclipse.clean]
    -f buildfile.xml
```

DESCRIPTION

The Java CoG kit preferred compilation process is controlled by ant.

OPTIONS

help:

prints out this help message

-f buildfile.xml

use an alternate xml build file

dist:

creates a distribution directory of the Java CoG Kit. Compiled classes from different modules will be in different jars. Use dist.joint to put everything into one jar file.

jar:

creates a jar file for the `${project} ${long.name}` named `${jar.filename}`

javadoc:

creates the documentation

clean:

removes the compiled classes

cleanall:

removes the compiled classes including the ones in the modules

distclean:

deletes the distribution directory

all:

dist and javadoc

`dist.joint:`
does a dist for all modules, and puts all compiled classes into one jar file

`eclipse.modules:`
creates Eclipse project files for each module in the modules directory. Each module can then be imported into Eclipse as a project. The project dependencies, source directories, and libraries will be automatically set-up

`eclipse.all:`
creates one Eclipse project, in the cog directory, which includes all of the Java CoG Kit modules. This makes it more convenient to import the CoG into Eclipse (since there is just one project). However, the advantages of modularity are gone.

`eclipse.clean:`
cleans all Eclipse related files from the CoG source tree. This works as a complement to `eclipse.modules` and `eclipse.all`. If Eclipse projects were created otherwise, the build directory may not be deleted.

5. SECURITY

5.1. grid-proxy-init

NAME

`grid-proxy-init`

DESCRIPTION

TBD

SYNOPSIS

`grid-proxy-init [options]`
`grid-proxy-init -help`

OPTIONS

`-help | -usage`
Displays usage.

`-version`
Displays version.

`-debug`
Enables extra debug output.

`-verify`
Performs proxy verification tests (default).

-noverify
Disables proxy verification tests.

-quiet | -q
Quiet mode, minimal output

-limited
Creates a limited proxy.

-independent
Creates a independent globus proxy.

-old
Creates a legacy globus proxy.

-hours <hours>
Proxy is valid for H hours (default:12).

-bits <bits>
Number of bits in key {512|1024|2048|4096}.

-globus
Prints user identity in globus format.

-policy <policyfile>
File containing policy to store in the ProxyCertInfo extension

-pl <oid>
OID string for the policy language.

-policy-language <oid>
used in the policy file.

-path-length <l>
Allow a chain of at most l proxies to be generated from this one

-cert <certfile>
Non-standard location of user certificate

-key <keyfile>
Non-standard location of user key

-out <proxyfile>
Non-standard location of new proxy cert.

-pkcs11
Enables the PKCS11 support module. The -cert and -key arguments are used as labels to find the credentials on the device.

SEE ALSO
ProxyInit

5.2. visual-grid-proxy-init

NAME
vizual-grid-proxy-init

SYNOPSIS

DESCRIPTION

OPTIONS

BUGS
no -help

5.3. grid-proxy-info

NAME
grid-proxy-info

SYNOPSIS
grid-proxy-info [options]
grid-proxy-info -help

DESCRIPTION
TBD

OPTIONS
-help | usage
 Displays usage.
-file <proxyfile> (-f)
 Non-standard location of proxy.
[printoptions]
 Prints information about proxy.
-exists [options] (-e)
 Returns 0 if valid proxy exists, 1 otherwise.
-globus
 Prints information in globus format
 [printoptions]
-subject
 Distinguished name (DN) of subject.
-issuer
 DN of issuer (certificate signer).
-identity
 DN of the identity represented by the proxy.
-type
 Type of proxy.
-timeleft
 Time (in seconds) until proxy expires.

-strength
Key size (in bits)
-all
All above options in a human readable format.
-text
All of the certificate.
-path
Pathname of proxy file.
[options to -exists] (if none are given, H = B = 0 are assumed)
-hours H (-h)
time requirement for proxy to be valid.
-bits B (-b)
strength requirement for proxy to be valid

SEE ALSO
ProxyInfo

5.4. grid-proxy-destroy

NAME
grid-proxy-destroy - TBD

DESCRIPTION
TBD

SYNOPSIS
grid-proxy-destroy [-dryrun] [file1...]
grid-proxy-destroy -help

OPTIONS
-help | -usage
Displays usage
-dryrun
Prints what files would have been destroyed
file1 file2 ...
Destroys files listed

SEE ALSO
ProxyDestroy

5.5. grid-cert-info

NAME
grid-cert-info - TBD

SYNOPSIS
grid-cert-info [-help] [-file certfile] [-all] [-subject] [...]

DESCRIPTION

Displays certificate information. Unless the optional file argument is given, the default location of the file

containing the certificate is assumed:

C:\Documents and Settings\username\.globus\usercert.pem

under unix it is

~/ .globus.usercert.pem

OPTIONS

-help | -usage

Display usage.

-version

Display version.

-file certfile

Use 'certfile' at non-default location.

-globus

Prints information in globus format.

Options determining what to print from certificate

-all

Prints the whole certificate.

-subject

Prints the subject string of the cert.

-issuer

Prints the issuer.

-startdate

Prints the validity start date of the cert.

-enddate

Prints the validity end date of the cert.

SEE ALSO

CertInfo

myproxy

the new cog ca

5.6. grid-change-pass-phrase

NAME

grid-change-pass-phrase - TBD

SYNOPSIS

grid-change-pass-phrase [-help] [-version] [-file private_key_file]

DESCRIPTION

Changes the passphrase that protects the private key. If the `-file` argument is not given, the default location of the file containing the private key is assumed:

`C:\Documents and Settings\username\.globus\userkey.pem`

under unix it is

`~/ .globus/userkey.pem`

OPTIONS

`-help | -usage`

Display usage.

`-version`

Display version.

`-file location`

Change passphrase on key stored in the file at the non-standard location 'location'.

SEE ALSO

`ChangePassPhrase`

5.7. globus2jks

NAME

`globus2jks` - converts globus user credentials to jks

SYNOPSIS

```
globus2jks [-help|-usage] [-version] [-debug]
           [-cert filename] [-key filename]
           [-alias alias] [-password passwd]
           [-out keystorefile]
```

`globus -help`

Converts Globus credentials (user key and certificate) into Java keystore format (JKS format supported by Sun).

OPTIONS

`-help | -usage`

Displays usage.

`-version`

Displays version.
 -debug Enables extra debug output.
 -cert certfile
 Non-standard location of user certificate.
 -key keyfile
 Non-standard location of user key.
 -alias alias
 Keystore alias entry. Defaults to 'globus'
 -password password
 Keystore password. Defaults to 'globus'
 -out <keystorefile>
 Location of the Java keystore
 file. Defaults to 'globus.jks'

SEE ALSO

KeayStoreConvert

5.8. myproxy

NAME

myproxy -

SYNOPSIS

myproxy [common options] command [command options]
 myproxy -version
 myproxy -help

DESCRIPTION

TBD

OPTIONS

-help
 Displays usage

 -v | -version
 Displays version

 -h <host> | -host <host>
 Hostname of the myproxy-server

 -p <port> | -port <port>
 Port of the myproxy-server
 (default 7512)

-s <subject> | -subject <subject>
 Performs subject authorization

-l <username> | -username <username>
 Username for the delegated proxy

-d | -dn_as_username
 Use the proxy certificate subject (DN) as the default username instead of the "user.name" system property.

COMMANDS

put - put proxy
 get - get proxy
 anonget - get proxy without local credentials
 destroy - remove proxy
 info - credential information
 pwd - change credential password

Specify - help after a command name for command-specific help.

SEE ALSO

6. JOB MANAGEMENT

6.1. cogrun

NAME

cogrun - Submits a task for remote Grid execution

SYNOPSIS

```
cogrun -s hostname -p provider -e executable
      [-jm <jobmanager>][-args <arguments>] [-b] [-r] [-stdout <file>]
      [-a <attributes>] [-env <env variables>] [-d <dir>][-c <checkpointfile>] [-st
cogrun -help
```

DESCRIPTION

This command submits a user-specified executable for remote execution. The user can specify the service contact for the job manager, the provider, the executable, and the optional arguments. Several other optional parameters control the behavior of the execution. The user can execute this job as a batch job, whereby the job status will not be updated on the client side. The user can also redirect the job output and error to a user-supplied file, either on the remote machine or on the local machine.

OPTIONS

-name <taskName> | -n <taskName>
 Task name

-service-contact <host> | -s <host>

Service contact of the remote job manager

-job-manager <jobmanager> | -jm <jobmanager>
 Execution JobManager (fork, pbs, etc)execution environment,

-provider <provider> | -p <provider>
 Provider; available providers: [gt2ft, gsiftp, file, gt4.0.0, gt3.0.2, ssh, gt4ft, gridftp, local, gsiftp-old, http, gt3.2.1, gt2, gt3.2.0, gridftp-old, ftp, webdav]

-executable <file> | -e <file>
 Executable file. Should be available on the remote machine

-arguments <string> | -args <string>
 Arguments. If more than one, use quotes

-environment <string> | -env <string>
 Environment variables for the remote execution environment, specified as "name=value[,name=value]"

-directory <string> | -d <string>
 Target directory

-batch | -b
 If present, the job is run in batch mode

-redirected | -r
 If present, the arguments to -stdout and -stderr refer to local files

-stdout <file>
 Indicates a file where the standard output of the job should be redirected

-stderr <file>
 Indicates a file where the standard error of the job should be redirected

-attributes <string> | -a <string>
 Additional task specification attributes. Attributes can be specified as "name=value[,name=value]"

-checkpoint <filename> | -c <fileName>
 Checkpoint file name. The task will be checkpointed to this file once submitted

-verbose | -v
 If enabled, display information about what is being done

-help | -h
 Display usage

SEE ALSO

cog-file-transfer

6.2. cog-job-submit

NAME

cog-job-submit - Submits a task for remote Grid execution

SYNOPSIS

```
cog-job-submit -s hostname -p provider -e executable
                [-args <arguments>] [-b] [-r] [-stdout <file>]
                [-stderr <file>] [-v]
cog-job-submit -help
```

DESCRIPTION

This command submits a user-specified executable for remote execution. The user can specify the service contact for the job manager, the provider, the executable, and the optional arguments. Several other optional parameters control the behavior of the execution. The user can execute this job as a batch job, whereby the job status will not be updated on the client side. The user can also redirect the job output and error to a user-supplied file, either on the remote machine or on the local machine.

OPTIONS

```
-name <taskName> | -n <taskName>
    Task name

-service-contact <host> | -s <host>
    Service contact of the remote job manager

-job-manager <jobmanager> | -jm <jobmanager>
    Execution JobManager (fork, pbs, etc)

-provider <provider> | -p <provider>
    Provider; available providers: [gt2ft, gsiftp, file, gt4.0.0,
    gt3.0.2, ssh, gt4ft, gridftp, local, gsiftp-old, http, gt3.2.1,
    gt2, gt3.2.0, gridftp-old, ftp, webdav, condor]

-executable <file> | -e <file>
    Executable file. Should be available on the remote machine

-arguments <string> | -args <string>
    Arguments. If more than one, use quotes

-environment <string> | -env <string>
    Environment variables for the remote execution environment,
    specified as "name=value[,name=value]"
```

`-directory <string> | -d <string>`
Target directory

`-batch | -b`
If present, the job is run in batch mode

`-redirected | -r`
If present, the arguments to `-stdout` and `-stderr` refer to local files

`-stdout <file>`
Indicates a file where the standard output of the job should be redirected

`-stderr <file>`
Indicates a file where the standard error of the job should be redirected

`-attributes | -a) <string>]`
Additional task specification attributes. Attributes can be specified as "name=value[,name=value]"

`-checkpoint | -c) <fileName>]`
Checkpoint file name. The task will be checkpointed to this file once submitted

`-verbose | -v`
If enabled, display information about what is being done

`-help | -h`
Display usage

SEE ALSO

`cog-file-transfer`, `cog-file-operation`

6.3. cog-checkpoint-submit

NAME

`cog-checkpoint-submit` - Reconnects to a previously checkpointed task

SYNOPSIS

`cog-checkpoint-submit -c checkpointfile [-v] [-h]`

`cog-checkpoint-submit -help`

DESCRIPTION

This command allows the user to submit a checkpoint file (created by the `cogrun`, `cog-job-submit`, or `cog-task2xml`

commands). Upon submission, the client re-connects to the remote execution service and actively monitors the status updates.

OPTIONS

```
-checkpoint <fileName>| -c <fileName>
    Input checkpoint file

-verbose | -v
    If enabled, display information about what is being done

-help | -h
    Display usage
```

SEE ALSO

cog-checkpoint-status, cog-job-submit, cogrun, cog-task2xml

6.4. cog-checkpoint-status

NAME

cog-checkpoint-status - checks the status of a long running task

SYNOPSIS

```
cog-checkpoint-status -c checkpointfile [-v] [-h]
cog-checkpoint-status -help
```

DESCRIPTION

This command allows the user to check the status of a long running task. The task is represented by the checkpoint file (created by the cogrun, cog-job-submit, or cog-task2xml commands). Upon submission, the client re-connects to the remote execution service and retrieves the latest execution status.

OPTIONS

```
-checkpoint <fileName> | -c <fileName>
    Input checkpoint file

-verbose | -v
    If enabled, display information about what is being done

-help | -h
    Display usage
```

SEE ALSO

cog-checkpoint-submit, cog-job-submit, cogrun, cog-task2xml

6.5. cog-task2xml

NAME

cog-task2xml - translates the given task into XML format.

SYNOPSIS

```
cog-task2xml -c checkpointfile -s hostname -e executable
[-n taskName] [-jm jobmanager] [-p provider] [-env environment]
[-d dir] [-b] [-r] [-stdout outfile] [-stderr errfile]
[-a attributes] [-v] [-h]
```

```
cog-task2xml -help
```

DESCRIPTION

This command simply translates the given task into an XML format without actually submitting the task. The user can specify the service contact for the job manager, the provider, the executable, and the optional arguments. Several other optional parameters control the behavior of the execution. The user can execute this job as a batch job, whereby the job status will not be updated on the client side. The user can also redirect the job output and error to a user-supplied file, either on the remote machine or on the local machine.

OPTIONS

```
-checkpoint <fileName> | -c <fileName>
  Checkpoint file name. The task will be checkpointed to this file

-name <taskName> | -n <taskName>
  Task name

-service-contact <host> | -s <host>
  Service contact

-job-manager <jobmanager> | -jm <jobmanager>
  Execution JobManager (fork, pbs, etc)

-provider <provider> | -p <provider>
  Provider; available providers: [gt2ft, gsiftp, file, gt4.0.0,
gt3.0.2, ssh, gt4ft, gridftp, local, gsiftp-old, http, gt3.2.1,
gt2, gt3.2.0, gridftp-old, ftp, webdav]

-executable | -e <file>
  Executable

-arguments | -args <string>
  Arguments. If more than one, use quotes
```

-environment <string> | -env <string>
 Environment variables for the remote execution environment, specified as "name=value[,name=value]"

-directory | -d <string>
 Target directory

-batch | -b
 If present, the job is run in batch mode

-redirected | -r
 If present, the arguments to -stdout and -stderr refer to local files

-stdout <file>
 Indicates a file where the standard output of the job should be redirected

-stderr <file>
 Indicates a file where the standard error of the job should be redirected

-attributes <string> | -a <string>
 Additional task specification attributes. Attributes can be specified as "name=value[,name=value]"

-verbose | -v
 If enabled, display information about what is being done

-help | -h
 Display usage

SEE ALSO

cog-checkpoint-submit, cog-checkpoint-status, cog-job-submit

6.6. globus-personal-gatekeeper

NAME

globus-personal-gatekeeper

SYNOPSIS

```
globus-personal-gatekeeper [-version] [-help]
    [-p port | -port port] [-d|-debug]
    [-s service_file]
    [-l log_file]
    [-gridmap gridmap_file]
    [-proxy cretential]
    [-serverKey key]
    [-serverCert cert]
    [-caCertDir cadir]
```

OPTIONS

`-help` | `-usage`
Displays usage

`-p` | `-port`
Port of the Gatekeeper

`-d` | `-debug`
Enable debug mode

`-s` | `-services`
Specifies services configuration file.

`-l` | `-log`
Specifies log file.

`-gridmap`
Specifies gridmap file.

`-proxy`
Proxy credentials to use.

`-serverKey`
Specifies private key (to be used with `-serverCert`).

`-serverCert`
Specifies certificate (to be used with `-serverKey`).

`-caCertDir`
Specifies locations (directory or files) of trusted CA certificates.

SEE ALSO

Gatekeeper

BUGS

The name `gatekeeper` is incorrectly used in the Globus Toolkit. This should be called the term `execution-service` should be used instead.

The parameters of this command must be reviewed.

7. FILE MANAGEMENT

7.1. `cog-file-transfer`

NAME

`cog-file-transfer` - Transfers a Grid file from one file server to another

SYNOPSIS

```
cog-file-transfer -s source-uri -d destination-uri [-t]  
cog-file-transfer -help
```

DESCRIPTION

This command transfers a file hosted on one file server to another file server. If both the file servers are GridFTP servers, then the files can be transferred in third party mode.

OPTIONS

`-source-uri <URI>` | `-s <URI>`

Source URI: <provider>://<hostname>[:port]/<directory>/<file>

-destination-uri <URI> | -d <URI>
Destination URI:
<provider>://<hostname>[:port]/<directory>/<file>

-thirdparty | -t
If present, performs a third party file transfer. Valid only
between two GridFTP resources

-help | -h
Display usage

SEE ALSO

cog-job-submit, cog-file-operation

7.2. cog-file-operation

NAME

cog-file-operation - Performs operations on files hosted on remote
file servers

SYNOPSIS

cog-file-operation -s hostname -p provider
cog-file-operation -help

DESCRIPTION

This command initiates a connection with a remote file server and
allows the user to invoke operations on files hosted on that server.
On execution, this command enters a shell-based mode allowing the
user to invoke file operations.

OPTIONS

-service-contact <host> | -s <host>
Service contact of the remote file server

-provider <provider> | -p <provider>
Provider; available providers: [gridftp, ftp, and webdav]

-verbose | -v
If enabled, display information about what is being done

-help | -h
Display usage

SEE ALSO

cog-file-transfer, cog-job-submit

7.3. globus-url-copy

NAME

globus-url-copy

SYNOPSIS

```
globus-url-copy [-help]
                 [-s subject]
                 [-ss source subject]
                 [-ds subject]
                 [-noopt]
                 [-nodcau]
                 fromURL toURL
```

DESCRIPTION

TBD

OPTIONS

```
-s <subject> | -subject <subject>
    Use this subject to match with both the source
    and destination servers

-ss <subject> | -source-subject <subject>
    Use this subject to match with the source server

-ds <subject> | -dest-subject <subject>
    Use this subject to match with the destination server

-notpt | -no-third-party-transfers
    Turn third-party transfers off (on by default)

-nodcau | -no-data-channel-authentication
    Turn off data channel authentication for ftp transfers
    Applies to FTP protocols only.
```

PROTOCOLS SUPPORTED

```
- gass (http and https)
- ftp
- gsiftp
- file
```

BUGS

This should in future have a replacement in cog-transfer which is not the same as url copy.

SEE ALSO

GlobusUrlCopy

7.4. globus-gass-server-shutdown

NAME

globus-gass-server-shutdown - shuts down the gass server

Syntax:

```
globus-gass-server-shutdown [-help] [-usage]
                             [-version] gass_server_url
```

DESCRIPTION

Allows the user to shut down a (remotely) running GASS server, started with client-shutdown permissions (option -c).

Options:

```
-help | -usage
    Displays usage
-version
    Displays version
```

SEE ALSO

GassServerShutdown

BUGS

option -c is not described

7.5. globus-gass-server

NAME

```
globus-gass-server [-version] [-help]
```

DESCRIPTION

start the gass server

OPTIONS

```
-help | -usage
    Displays usage
-version
    Displays the version
-s | -silent
    Enable silent mode (Don't output server URL)
-r | -read
    Enable read access to the local file system
-w | -write
    Enable write access to the local file system
-o
    Enable stdout redirection
-e
    Enable stderr redirection
```

```

-c | -client-shutdown
    Allow client to trigger shutdown the GASS server
    See globus-gass-server-shutdown
-p <port> | -port <port>
    Start the GASS server using the specified port
-i | -insecure
    Start the GASS server without security
-n <options>
    Disable <options>, which is a string consisting
    of one or many of the letters "crwoe"

```

SEE ALSO

GassServer

8. WORKFLOW

8.1. cog-graph-editor

NAME

graph-editor - TBD

SYNOPSIS

```

graph-editor <options>
  [-s <port>]
  [(-h | -help)]
  [(-l | -load) <file>]
  [-q | -quit]
  [-r | -loop]
  [(-o | -options) <options>]

```

DESCRIPTION

TBD

OPTIONS

```

-s <port>
    Starts the service on the specified port. If no port
    is specified, 9999 is used.

-h | -help
    Displays this help message and exits.

-l | -load <file>
    specifies a file to be loaded on startup

-t | -target <target>
    Starts on the specified target. If missing, the
    default target (the Swing GUI) will be used

-q | -quit
    Render the graph and quit. Useful with
    non-interactive targets. This is the default when

```

the `-load` option is used. In server mode, the program will wait for a graph first, render it and then quit.

- `-r | -loop`
In server mode loop and wait for updates, and render them, as opposed to quitting after the graph is received.
- `-o | -options <options>`
Pass additional options to various sub-components. The value must be quoted and has the form `[property=value[, property=value[,...]]]`. Take a look at `etc/grapheditor.properties` for a list of properties.

SEE ALSO
TBD

8.2. cog-workflow-gui

NAME
cog-workflow-gui

SYNOPSIS
cog-workflow-gui [-help]
 [-load <file>]
 [-run]

DESCRIPTION
TBD

OPTIONS

- `[-load <file>]`
Loads the specified file
- `[-run]`
If a workflow specification was loaded, it starts executing it; otherwise, it does nothing.
- `[-help]`
Displays a usage summary

SEE ALSO
gridant

8.3. cog-workflow

NAME
cog-workflow - TBD

SYNOPSIS

DESCRIPTION

OPTIONS

BUGS

9. INFORMATION SERVICES

9.1. grid-info-search

NAME

grid-info-search - TBD

SYNOPSIS

grid-info-search [options] <search filter> [attributes]

DESCRIPTION

Searches the MDS server based on the search filter,
where some options are:

OPTIONS

-help

Displays this message

-version

Displays the current version number

-mdshost host (-h)

The host name on which the MDS server is running
The default is ROBIN.

-mdsport port (-p)

The port number on which the MDS server is running
The default is 2135

-mdsbasedn branch-point (-b)

Location in DIT from which to start the search
The default is 'mds-vo-name=local, o=grid'

-mdstimeout seconds (-T)

The amount of time (in seconds) one should allow to
wait on an MDS request. The default is 30

-anonymous (-x)

Use anonymous binding instead of GSSAPI.

grid-info-search also supports some of the flags that are
defined in the LDAP v3 standard.

Supported flags:

-s scope one of base, one, or sub (search scope)

-P version protocol version (default: 3)
-l limit time limit (in seconds) for search
-z limit size limit (in entries) for search
-Y mech SASL mechanism
-D binddn bind DN
-v run in verbose mode (diagnostics to standard output)
-O props SASL security properties (auth, auth-conf, auth-int)
-w passwd bind password (for simple authentication)

SEE ALSO
TBD

10. MISCELLANEOUS

10.1. cog-info

NAME

cog-info - Displays all the relevant Grid information of the client machine

SYNOPSIS

cog-info [-all] [-user] [-os] [-java] [-ant] [-provider] [-env] [-help]

OPTIONS

cog-info <options>

[-all]

Display all the client-side information

[-os]

Display the operating system on the client machine

[-user]

Display the username

[-java]

Display all the java-specific information

[-ant]

Display all the Apache Ant specific information

[(-providers | -p)]

Display the list of supported providers

[-env]

Prints all the environment variables

[(-help | -h)]

Display usage

10.2. sample-launcher

NAME

simple-launcher

BUGS

java.lang.NoClassDefFoundError: org/globus/cog/example/Class
Exception in thread "main"

REFERENCES

- [1] G. von Laszewski, I. Foster, J. Gawor, and P. Lane, "A Java Commodity Grid Kit," *Concurrency and Computation: Practice and Experience*, vol. 13, no. 8-9, pp. 643-662, 2001. [Online]. Available: <http://www.mcs.anl.gov/~gregor/papers/vonLaszewski--cog-cpe-final.pdf>
- [2] "Java CoG Kit Wiki," 2004. [Online]. Available: <http://www.cogkit.org/wiki>
- [3] "Java CoG Kit Registration," 2004. [Online]. Available: <http://www.cogkit.org/register>

Additional publications about the Java CoG Kit can be found as part of the vita of Gregor von Laszewski <http://www-unix.mcs.anl.gov/~laszewsk/vita.pdf>. Most documents are available online if you follow the links. In future we intend to provide this information without Gregors vita data.

If you need to cite the Java CoG Kit, please use [1].

A. DOCUMENTATION

The Java CoG Kit documentation is distributed as a series of guides. These guides for version 4.1.3 include:

A.1. Java CoG Kit Guides

Short Title	Audience	Description	Format
Install	All	A guide to the different ways of installing the Java CoG Kit	[PDF] [HTML]
Commands	User	A guide to the command line tools of the Java CoG Kit	[PDF] [HTML]
Workflow	User	A guide to the Karajan Workflow	[PDF] [HTML]
Abstractions	User	A guide to the Java CoG Kit abstractions API	[PDF] [HTML]
MPI	User	A guide to execute MPI programs on the TeraGrid	[PDF] [HTML]
Coding	Developer	A guide to the Coding rules for the Java CoG Kit	[PDF] [HTML]

A.2. Java CoG Kit Guides Under Construction

More guides are under development. The following guides are not yet completed, but are listed here to help us improving these guides. Please, explore them and send us e-mail about improvement suggestions. If you like to contribute a guide yourself, please contact gregor@mcs.anl.gov.

Short Title	Audience	Description	Format
Writing Guides	Developer	A preliminary guide to document writing guides	[PDF] [HTML]
Examples	User	A preliminary guide to examples	[PDF] [HTML]
Release Process	Developer	A preliminary guide to document the release process	[PDF] [HTML]

A.3. API Documentation

- [JGlobus](#)
- [Common classes and interfaces for the Java CoG Kit abstraction layer](#)
- [Utility Classes](#)
- [Graph Editor](#)
- [Various examples for the Java COG Kit abstraction layer](#)
- [GT2 Provider for Java CoG Kit abstractions](#)
- [GT2 Provider for Java CoG Kit abstractions with fault tolerance](#)
- [GT3.0.2 provider for the abstraction layer](#)
- [GT3.2.0 provider for the abstractions](#)

- [GT3.2.1 provider for abstractions](#)
- [GT4.0.0 provider for abstractions](#)
- [Native Condor provider for the Java CoG Kit abstractions](#)
- [SSH provider for abstractions](#)
- [WebDav provider for abstractions](#)
- [Local provider for abstractions](#)
- [Karajan Workflow Engine](#)
- [Setup Wizard](#)
- [GridCertRequest Tool](#)
- [Certificate Management Applications](#)
- [GridShell](#)
- [GridFace Classes](#)

B. DOWNLOADS

Before downloading the Java CoG Kit, users should read the “Guide to Installing the Java CoG Kit” [\[PDF\]](#) [\[HTML\]](#). We hope that you will find this guide useful to decide which bundles you need. For the more experienced user, we provide the following index.

Binary Distributions • Complete (all providers) [\[tar.gz\]](#)[\[zip\]](#)

- Separate providers
 - Main package (includes GT2 providers) [\[tar.gz\]](#)[\[zip\]](#)
 - Common GT 3.x.x package [\[tar.gz\]](#)[\[zip\]](#) (required for all GT 3.x.x providers)
 - GT 3.0.2 provider [\[tar.gz\]](#)[\[zip\]](#)
 - GT 3.2.0 provider [\[tar.gz\]](#)[\[zip\]](#)
 - GT 3.2.1 provider [\[tar.gz\]](#)[\[zip\]](#)
 - GT 4.0.0 and 4.0.1 provider [\[tar.gz\]](#)[\[zip\]](#)
 - Condor provider [\[tar.gz\]](#)[\[zip\]](#)
 - SSH provider [\[tar.gz\]](#)[\[zip\]](#)
 - WebDAV provider [\[tar.gz\]](#)[\[zip\]](#)
 - Local provider [\[tar.gz\]](#)[\[zip\]](#)

Source Distributions • Source Distribution [\[tar.gz\]](#)[\[zip\]](#)

API Documentation • Complete API [\[tar.gz\]](#)[\[zip\]](#) [\[HTML\]](#)

Module List • Module list [\[HTML\]](#)

CVS • Please consult the Installation Guide [\[HTML\]](#) [\[PDF\]](#)

C. AVAILABILITY OF THE DOCUMENT

The newest version of this document can be downloaded by the developers from

1. `cvs -d:pserver:anonymous@cvs.cogkit.org:/cvs/cogkit checkout manual/guide`

It is not allowed to reproduce this document or the source. This documentation is copyrighted and is not distributed under the CoG Kit license.

D. BUGS

We use Bugzilla for tracking bugs and for enhancement suggestions. It is located in the bugzilla.globus.org, but you may find it easier to use one of the following quick links:

- [Submit new bug report](#)
- [List current bugs](#)
- [Make a simple query](#)
- [Make an advanced query](#)
- [Create a new account](#)

E. ADMINISTRATIVE CONTACT

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