

# JAVA CoG KIT COMMAND LINE PROGRAMS

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Software Version: 4.1.2

Manual version: 02/18/05

Url: <http://www.cogkit.org/release/4.1.2/manual/commands.pdf>

Url: <http://www.cogkit.org/release/4.1.2/manual/commands/commands.html>

Last update: July 11, 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.

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### 1.1. Reproduction

The material presented in this document can not be published, mirrored, electronically or otherwise reproduced without prior written consent. As you can link to this document, this should not pose much of a restriction.

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### 1.2. Viewing

The best way to read this document is 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.

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### 1.3. 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.

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## 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](mailto: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)
- cogrun (see Section 6.1)
- cog-job-submit (see Section 6.2)
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- cog-checkpoint-status (see Section 6.4)
- cog-task2xml (see Section 6.5)
- cog-file-transfer (see Section 7.1)
- cog-file-operation (see Section 7.2)
- 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)
- sample-launcher (see Section 10.1)

---

### 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  
visual-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`

`-caCertDir` Specifies certificate (to be used with `-serverKey`.  
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  
Dispalys 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. sample-launcher

NAME

sample-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. JAVA CoG KIT GUIDES

Short Title	Description	Format
Guide	A guide to help you finding out what guides have been written	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Install	A guide to the different ways of installing the Java CoG Kit	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Commands	A guide to the command line tools of the Java CoG Kit	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Workflow	A guide to the Gridant/Karajan Workflow	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Abstractions	A guide to the Java CoG Kit abstractions API	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
JavaDoc	The Java API documentation to the Java CoG Kit	<a href="#">[HTML]</a>
Coding	A guide to the Coding rules for the Java CoG Kit	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Overview	A future guide that will be an overview to the Java CoG Kit	<a href="#">[PDF]</a> <a href="#">[HTML]</a>

## B. 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](mailto:gregor@mcs.anl.gov).

Short Title	Description	Format
MPI	A preliminary guide to execute MPI programs on the TeraGrid and alike	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Release Process	A preliminary guide to document the release process	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Guide	A preliminary guide to document writing guides	<a href="#">[PDF]</a> <a href="#">[HTML]</a>
Examples	A preliminary guide to examples alike	<a href="#">[PDF]</a> <a href="#">[HTML]</a>

## C. AVAILABLE DOWNLOADS

First time users of the Java CoG Kit 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 table.

**Binary Distributions**

- Complete (all providers) [\[tar.gz\]](#)[\[zip\]](#)  
Installation Guide [\[HTML\]](#) [\[PDF\]](#)
- Separate providers  
Installation Guide [\[HTML\]](#) [\[PDF\]](#)
  - 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

- Complete source distribution  
Installation Guide [[HTML](#)] [[PDF](#)]  
Source Distribution [[tar.gz](#)][[zip](#)]

### API Documentation

- Complete API [[tar.gz](#)][[zip](#)]

### Module List

- Module list [[HTML](#)]

### CVS

- Please consult the Installation Guide [[HTML](#)] [[PDF](#)]

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## D. 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`

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## E. BUGS

This guide is constantly improved and your input is highly appreciated. Please report suggestion, errors, changes, and new sections or chapters through our [Bugzilla](#) system at <http://www-unix.globus.org/cog/contact/bugs/>

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## F. ADMINISTRATIVE CONTACT

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