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Berkeley Database Information Index V5

Note: This page is no longer maintained. For up to date information on Information Systems, please check the Information System online documentation. [or the original BDII paper](#)

`/opt/bdii/etc/bdii-slapd.conf` The slapd.conf template for use with the bdii
`/opt/bdii/etc/default.ldif` A default LDIF file to populate the bdii
`/etc/init.d/bdii` BDII init.d script
`/opt/bdii/bin/bdii-update` Main update script
`/opt/bdii/bin/bdii-proxy` Creates proxy for the BDII
`/var/log/bdii/bdii-update.log` The BDII log file
`/var/run/bdii-update.pid` The bdii-update.pid of the main process
`/opt/bdii/var/2171` Directory containing slapd data/config for the running instance

Running Processes

When a BDII is started, the following processes run:

- One multithreaded slapd process. The number of (active) threads may depend on the query load and/or the `/opt/bdii/etc/bdii-slapd.conf` file.
- 1 bdii-update process.
- Periodically, one ldapadd, ldapdelete or ldapmodify process.

Monitoring the BDII Instance

Status information about the BDII is available by querying the `o=infosys` root for the UpdateStats object. This entry contains a number of metrics relating to the latest update such as the time to update the database and the total number of entries. An example of such entry is shown below.

```
dn: Hostname=lxbra2510.cern.ch,o=infosys
objectClass: UpdateStats
Hostname: lxbra2510.cern.ch
FailedDeletes: 0
ModifiedEntries: 4950
DeletedEntries: 1318
UpdateTime: 150
FailedAdds: 603
FailedModifies: 0
TotalEntries: 52702
QueryTime: 8
NewEntries: 603
DBUpdateTime: 11
ReadTime: 0
PluginsTime: 4
ProvidersTime: 113
```

The following table shows the meaning of these metrics:

Metric	Description
Hostname	The hostname of the BDII instance
FailedDeletes	The number of delete statements which failed
ModifiedEntries	The number of objects to modify
DeletedEntries	The number of objects to delete
UpdateTime	To total update time in seconds
FailedAdds	The number of add statements which failed
FailedModifies	The number of modify statements which failed
TotalEntries	The total number of entries in the database
QueryTime	The time taken to query the database

NewEntries	The number of new objects
DBUpdateTime	The time taken to update the database in seconds
ReadTime	The time taken to read the LDIF sources in seconds
PluginsTime	The time taken to run the plugins in seconds
ProvidersTime	The time taken to run the information providers in seconds

Nagios Plugins

Nagios plugins are available to monitor the bdii. For more details see the GStat documentation [↗](#).

glite-info-provider-ldap

This information provider `glite-info-provider-ldap` enables information to be obtained by querying other BDII's or LDAP servers. The script requires as input a configuration file containing a list of LDAP URLs.

```
Usage: /opt/glite/libexec/glite-info-provider-ldap -c <config file> [-m <mds-vo-name>] [-v validi
```

This information provider takes a list of LDAP urls from the configuration file and queries the LDAP sources. It then merges the results and modifies the dn to append the mds-vo-name as specified on the command line. The configuration file has lines typically with the following format:

```
entity ldap://host.domain:2170/mds-vo-name=something,o=grid
```

Comments starting with "#" and are ignored.

Options:

- c The configuration file listing all the LDAP URLs.
- m The mds-vo-name which should be used.
- h Displays this helpful message.
- d This option will change the search filter to only retrieve the dynamic information. (currently not supported)
- t The timeout of the ldapsearch in seconds.
- v The validity of the cache files in seconds.
- s Maximum file size in megabytes for a single source.

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