

Tutorial on X-DB System (Version 0.3.1)

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Introduction.

This is the third release of the X-DB System tutorial. In this tutorial I'll explain the basic concepts of the system, the commands and the web access to it.

General concepts

The system is installed in a server called x-db.iciq.es (10.3.1.210). To access the system using the shell you have to install in your Desktop computer some software and setup some environment variables.

For the moment there is only one role in the System: “users”, this role give access to all the operations you can do in the repository. In the future, there will be more roles and according to the role the user will be able to do something or not to do it.

The x-db system is accessed through bash command lines and you can access at the same time to your local hard disk and also to the remote system.

In your local hard disk, you can navigate using cd, ls, and so on. You have a “home”, and so on, and so on. In the repository you also have a “home”. In that case the “home” is /db/username, for example: /db/jiglesias. Into this structure, you can create and manage “projects” and “calculations”. Projects are the units that let you to group other projects and calculations. The control access to your data in the database is managed through the project concept. Calculation concept inherit the private policy of the parent project, but each project can have their own privacy policy. Later I'll show you some samples.

To load and manage files located in other machines others than your local machine, you will can create an special directory with all the remote file systems mounted there. For example, you will have a structure like this:

```
/home/mbesora/remote-machines/kimik  
/home/mbesora/remote-machines/kimik2  
/home/mbesora/remote-machines/marenostrum  
/home/mbesora/remote-machines/cesca  
...
```

Using the bash shell commands you can access those remote systems. How to mount those remote systems will be explained in another tutorial (the fuse one).

Shell Installation.

The first step is to install the repository client in your desktop computer. The shell works fine in Linux and Mac OS, but not in Windows.

Step by Step installation HOWTO for Linux (for MacOS you can go to step 3):

1. execute the command `uname -a`. If it's printed `x86_64` you have a 64 bits architecture. In other case you have a 32 bits architecture.
 1. If 32 bits architecture:
 1. Download the Java Runtime Environment version 6 from the following link: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
Choose the JRE column and download Linux x86 - Self Extracting Installer
 2. In the other case:
 1. Download the Java Runtime Environment version 6 from the following link: <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
Choose the JRE column and download Linux x64 - Self Extracting Installer
 2. After downloaded in a temporal directory execute:
 1. `chmod +x` on the file
 2. execute the file. A directory structure will be uncompressed.
 3. Copy the uncompressed directory structure into a location of your home. For exemple at `/home/user/bin`.
 4. Edit the `.bashrc` file. And add:
 1. `export PATH=path_to_the_bin_sub_directory_of_the_uncompressed_directory:$PATH`
 5. After that step you have successfully installed the JRE environment necessary to execute Java programs.
3. Now is time to install the shell. The shell is composed of several files:
 - 1.
 2. Copy the following files into the `/home/user/bin` directory.
 1. `exe-rep-command`
 2. `exit-rep`
 3. `start-rep-shell`
 4. `shell.jar`
 3. `cd` into the `bin` directory and execute `chmod +x` over each file.
 4. Copy the `cert.bin` file into this directory (the `bin` one).
 5. Execute `chmod 600 cert.bin`
 6. Edit the `.bashrc` file and add the following variables:
 1. `export USERDB="your_user_name"`
 2. `export REPPASS="your password"`
 3. `export CERT_FILE="/home/username/bin/cert.bin"`
 4. `export REP_SCRIPTS="/home/username/bin"`
 5. `export PATH=$REP_SCRIPTS:$PATH`
4. The setup of the shell is done. For mounting remote homes, check the fuse tutorial.
5. To properly view the applets in the web interface you have to make a soft link in the `plugins` directory of the `firefox`. The place of this directory depends on each distribution, but it uses to be at `/usr/lib`. Once located the directory execute

ln -s /path/to/java/run/time/environment/lib/processor_architecture/libnjp2.so libnjp2.so
*processor_architecture have to be i386 or amd64 or another similar name.
You need root permissions to do this. After this operation is done, you will be able to visualize molecules in your browser using the repository web interface

General shell commands overview.

The best way to learn how to interact with the system is through examples:

Command start-rep-shell

After the installation is done you have to start a session in the remote x-db system executing:

```
jiglesias@p008:~$ . start-rep-shell
Starting Repository Shell
[1]+  Done                echo 'Starting Repository Shell'
```

Pay spacial attention to the “.” plus an “space” before the start-rep-shell command.

After that a remote session is started.

Command pwdpro

Now for example you can pwd the remote system executing:

```
jiglesias@p008:~$ pwdpro
/db/jiglesias
jiglesias@p008:~$
```

Command lspro

You can browse the repository using lspro:

```
jiglesias@p008:~$ lspro
{proj001} {proj002} {proj003} {proj004}
jiglesias@p008:~$
```

The symbol “{“ and “}” means that concept is a “project”, without “{“ “}” means that it's a calculation.

If you want a more detailed list of the projects of a path:

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group   State
-----
PRO proj001    zsdff           111000   jiglesias cbo     2010-09-27 20:37:40 /calculation/con1 created
PRO proj002    asdddd          111000   jiglesias cbo     2010-09-27 20:37:40 /calculation/bon1 created
PRO proj003    bgggfgf         111000   jiglesias cbo     2010-09-27 20:37:40 /calculation/aaa created
PRO proj004    badfdfd dfd           111000   jiglesias cbo     2010-09-27 20:37:40 /calculation/bon0 created
jiglesias@p008:~$
```

Here you have 4 projects, with name description, permissions, and so on. Concept Group is the calculation.xsd concept under the calculations that contains the projects are grouped. For example /calculation/geometry/final-geometry.

Check the file <http://datachem.iciq.es/xsd/calculation/chemicalDef.xsd> for a more detailed description of what is a concept and the general introduction tutorial.

You can modify the order in which the projects are listed using the flag “order by” -o

For example:

```
jiglesias@p008:~$ lspro -o o
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
PRO proj001    zsdff           111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
PRO proj002    asdddd          111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/bon1  created
PRO proj003    bgggfgf         111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/aaa   created
PRO proj004    badfdfd dfd         111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/bon0  created
jiglesias@p008:~$
```

This command will list the contents of the project ordered by “owner”. This is done using -o o. You have:

```
-o o : owner
-o n : name
-o g: group
-o t: creation time
-o c: concept group
-o s: state.
```

The permissions of a project are managed in a linux way. The first two bits means read and write of the owner. The third and fourth bits means read and write for the group, the the last two means read and write for the other users.

For example lets to modify the permissions of the proj002:

```
jiglesias@p008:~$ mpro proj002 -p 110000
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
PRO proj001    zsdff           111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
PRO proj002    asdddd          110000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/bon1  modified
PRO proj003    bgggfgf         111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/aaa   created
PRO proj004    badfdfd dfd         111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/bon0  created
jiglesias@p008:~$
```

As you can appreciate the permissions on proj002 have changed and also the state has changed from created to modified.

Command catpro

You can also cat a project:

```
jiglesias@p008:~$ catpro proj001
Printing the contents of proj001
-----
Name:proj001
Description:zsdf
Permissions:111000
Owner:jiglesias
Group:cbo
Path:/db/jiglesias
Concept Group:/calculation/con1
Creation Time:2010-09-27 20:37:40
Modification Time:null
Certification Time:null
State:created
jiglesias@p008:~$
```

Command cdpro

Lets to navigate into a project:

```
jiglesias@p008:~$ cdpro proj001
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
CAL  cal001    A description    111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
CAL  cal002    A description    111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
CAL  cal003    A description    111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
CAL  cal004    A description    111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
CAL  cal005    A description    111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
CAL  cal006    A description    111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
jiglesias@p008:~$
```

In this sample we have some calculations. And if you type:

```
jiglesias@p008:~$ lspro
cal001 cal002 cal003 cal004 cal005 cal006
jiglesias@p008:~$
```

You can see the calculations without {}.

To move one project down:

```
jiglesias@p008:~$ cdpro ..
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
PRO  proj001    zsdf            111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/con1  created
PRO  proj002    asdddd         110000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/bon1  modified
PRO  proj003    bgggfgf        111000  jiglesias  cbo     2010-09-27 20:37:40 /calculation/aaa   created
```

```
PRO proj004 badfdfd dfd      111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/bon0  created
jiglesias@p008:~$
```

Don't use expressions like cdpro ../../something/something-else. That is not allowed. For the moment the command just use simple paths like .. , a name and also a long path /path/to/somewhere

Command cpro

Lets go to create a project:

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
PRO proj001    zsdff           111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/con1  created
PRO proj002    asdddd          110000  jiglesias cbo    2010-09-27 20:37:40 /calculation/bon1  modified
PRO proj003    bgggfgf         111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/aaa   created
PRO proj004    badfdfd dfd     111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/bon0  created
jiglesias@p008:~$ cpro -n myfirstpro -d Some destription -cg /calculation/energy/solvation-energy
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
PRO myfirstpro Some destription 111000  jiglesias cbo    2010-09-28 15:33:24 /calculation/energy/ created
PRO proj001    zsdff           111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/con1  created
PRO proj002    asdddd          110000  jiglesias cbo    2010-09-27 20:37:40 /calculation/bon1  modified
PRO proj003    bgggfgf         111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/aaa   created
PRO proj004    badfdfd dfd     111000  jiglesias cbo    2010-09-27 20:37:40 /calculation/bon0  created
jiglesias@p008:~$
```

Don't use very long name for the projects.

Once you set a name very long for a project, maybe using lspro -f you will not see the entire name, in that case execute lspro without arguments, and you will see the name as long as it is. But try to don't use very long names. The usual length should be 10 characters.

Command mpro

If you want to modify a project use the command: mpro.

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time      Concept Group      State
-----
PRO myfirstpro  Some destription  111000  jiglesias  cbo    2010-09-28 15:33:24 /calculation/energy/ created
PRO proj001    zsdff             111000  jiglesias  cbo    2010-09-27 20:37:40 /calculation/con1  created
PRO proj002    asdddd           110000  jiglesias  cbo    2010-09-27 20:37:40 /calculation/bon1  modified
PRO proj003    bgggfgf          111000  jiglesias  cbo    2010-09-27 20:37:40 /calculation/aaa   created
PRO proj004    badfdff dfd          111000  jiglesias  cbo    2010-09-27 20:37:40 /calculation/bon0  created
jiglesias@p008:~$ mpro myfirstpro -d Another description
jiglesias@p008:~$ catpro myfirstpro
Printing the contents of myfirstpro
-----
Name:myfirstpro
Description:Another description
Permissions:111000
Owner:jiglesias
Group:cbo
Path:/db/jiglesias
Concept Group:/calculation/energy/solvation-energy
Creation Time:2010-09-28 15:33:24
Modification Time:2010-09-28 15:39:00
Certification Time:null
State:modified
jiglesias@p008:~$
```

You can always ask for help in a command typing: command -h. For example:

```
jiglesias@p008:~$ mpro -h
mpro
mpro modification of the project
Options:
  Option -d: Description of the project      (optional)
  Option -nn: New Name of the project        (optional)
  Option -np: New Parent project (absolute path) (optional)
  Option -n: Relative or absolute project path (mandatory)
  Option -cg: Concept Group of the project   (optional)
  Option -p: Permissions of the project. Ex: '110100' (optional)
  Option -o: Owner of the project            (optional)
  Option -g: Group owner of the project      (optional)
jiglesias@p008:~$
```

The -n flag can be usually omitted and usually taken from the first parameter. Example:

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner      Group      Creation time      Concept Group      State
-----
PRO myfirstpro Another description 111000 jiglesias cbo      2010-09-28 15:33:24 /calculation/energy/ modified
PRO proj001    zsdff           111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
PRO proj002    asdddd          110000 jiglesias cbo      2010-09-27 20:37:40 /calculation/bon1 modified
PRO proj003    bgggfgf         111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/aaa created
PRO proj004    badffdf dff      111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/bon0 created
jiglesias@p008:~$ cdpro proj001
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner      Group      Creation time      Concept Group      State
-----
CAL cal001     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal002     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal003     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal004     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal005     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal006     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
jiglesias@p008:~$
```

Is the same as:

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner      Group      Creation time      Concept Group      State
-----
PRO myfirstpro Another description 111000 jiglesias cbo      2010-09-28 15:33:24 /calculation/energy/ modified
PRO proj001    zsdff           111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
PRO proj002    asdddd          110000 jiglesias cbo      2010-09-27 20:37:40 /calculation/bon1 modified
PRO proj003    bgggfgf         111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/aaa created
PRO proj004    badffdf dff      111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/bon0 created
jiglesias@p008:~$ cdpro -n proj001
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner      Group      Creation time      Concept Group      State
-----
CAL cal001     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal002     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal003     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal004     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal005     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
CAL cal006     A description    111000 jiglesias cbo      2010-09-27 20:37:40 /calculation/con1 created
jiglesias@p008:~$
```

Command dpro:

Lets go to delete a project:

```
jiglesias@p008:~$ pwdpro
```

```
/db/jiglesias
```

```
jiglesias@p008:~$ lspro -f
```

Type	Name	Description	Permission	Owner	Group	Creation time	Concept Group	State
PRO	myfirstpro	Another description	111000	jiglesias	cbo	2010-09-28 15:33:24	/calculation/energy/	modified
PRO	proj001	zsdf	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/con1	created
PRO	proj002	asdddd	110000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/bon1	modified
PRO	proj003	bgggfgf	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/aaa	created
PRO	proj004	badfdfd dfd	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/bon0	created

```
jiglesias@p008:~$ dpro myfirstpro
```

```
jiglesias@p008:~$ lspro -f
```

Type	Name	Description	Permission	Owner	Group	Creation time	Concept Group	State
PRO	proj001	zsdf	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/con1	created
PRO	proj002	asdddd	110000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/bon1	modified
PRO	proj003	bgggfgf	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/aaa	created
PRO	proj004	badfdfd dfd	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/bon0	created

```
jiglesias@p008:~$
```

Be aware!!! Only it's checked the project permissions you want to delete and are applied recursively to all subproject at delete time. A deletion is **always** recursive.

Command findpro

Maybe you would like to find some string or regular expression on some fields of the projects. For this purpose you will have findpro command. You can find which project contains certain text value in their fields.

For example:

```
jiglesias@p008:~$ lspro -f
```

Type	Name	Description	Permission	Owner	Group	Creation time	Concept Group	State
PRO	proj001	zsdf	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/con1	created
PRO	proj002	asdddd	110000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/bon1	modified
PRO	proj003	bgggfgf	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/aaa	created
PRO	proj004	badfdfd dfd	111000	jiglesias	cbo	2010-09-27 20:37:40	/calculation/bon0	created

```
jiglesias@p008:~$ findpro -h
```

```
findpro
```

```
findpro description. Always searches in a recursive way.
```

```
Options:
```

```
Option -d: Regular expression to find in the description field of project (optional)
```

```
Option -n: Regular expression to find in the name field of project (optional)
```

```
Option -p: Regular expression to find in the path field of project (optional)
```

```
jiglesias@p008:~$ findpro -d zsd
Name          Path
```

```
-----
proj001       /db/jiglesias
jiglesias@p008:~$ exit-rep
jiglesias@p008:~$
```

The command just searches in the current path a description containing zsd

In the next example I create a project into proj002.

Then I search specifying the absolute path where I want to search. Lets see:

```
jiglesias@p008:~$ cdpro proj002
jiglesias@p008:~$ lspro
```

```
jiglesias@p008:~$ cpro test -d desc -cg gggg
jiglesias@p008:~$ lspro
{test}
```

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time   Concept Group   State
-----
PRO test   desc            111000  jiglesias cbo    2010-09-28 20:58:56  gggg           created
```

```
jiglesias@p008:~$ cdpro ..
```

```
jiglesias@p008:~$ lspro -f
Type Name      Description      Permission Owner   Group   Creation time   Concept Group   State
-----
PRO proj001  zsd             111000  jiglesias cbo    2010-09-27 20:37:40  /calculation/con1  created
PRO proj002  asdddd         110000  jiglesias cbo    2010-09-27 20:37:40  /calculation/bon1  modified
PRO proj003  bgggfgf        111000  jiglesias cbo    2010-09-27 20:37:40  /calculation/aaa   created
PRO proj004  badfdfd dfd          111000  jiglesias cbo    2010-09-27 20:37:40  /calculation/bon0  created
```

```
jiglesias@p008:~$ findpro /db/jiglesias/proj002 -d desc
Name          Path
```

```
-----
test          /db/jiglesias/proj002
jiglesias@p008:~$ findpro /db/jiglesias -d desc
Name          Path
```

```
-----
test          /db/jiglesias/proj002
jiglesias@p008:~$
```

Command loadcalc

And finally we arrive at the loadcalc command. This command load the contents of a calculation file or files into the repository. For this purpose uses a xml definitions placed at:

<http://datachem.iciq.es/xml/extraction/cutting-areas/>

With ADF, Gaussian and VASP definitions. Those definitions were created by special users of this room called data-architects. Those files define using regular expression and xml tags what information to cut in your calculations, and that cut text is associated with a meaning name. A meaning for the moment is also called Area (A peace of text). But in the future will be a very concrete data (for

example potential-energy and the value of it).

Lets to see a sample:

Into the same directory we have two gaussian outputs:

```
jiglesias@p008:~/test/extraction-tests/test002$ ls -l
total 480
-rw-r----- 1 jiglesias jiglesias 244651 2010-09-16 15:24 gaussian2.out
-rw-r----- 1 jiglesias jiglesias 244650 2010-09-14 17:31 gaussian.out
-rw-r----- 1 jiglesias jiglesias 244650 2010-09-14 17:31 gausinput.in
jiglesias@p008:~/test/extraction-tests/test002$
```

If we just execute:

```
jiglesias@p008:~/test/extraction-tests/test002$ loadcalc test -d some description
Type is : Gaussian
jiglesias@p008:~/test/extraction-tests/test002$
```

In that case the first .out file and the first .in file, or the VASP special ones are searched and loaded automatically. The command prints the calculation type detected.

Imagine you want to specify a concrete output and input file to load, then you can execute:

```
jiglesias@p008:~/test/extraction-tests/test002$ loadcalc -o gaussian.out -i input.in
Type is : Gaussian
jiglesias@p008:~/test/extraction-tests/test002$
```

You can also specify the calculation type using the flags:

```
jiglesias@p008:~/test/extraction-tests/test002$ loadcalc -og gaussian2.log -ig input.in
Type is : Gaussian
```

Type `loadcalc -h` for the complete flag options, and other type calculation flags.

Command viewcalc

To view the calculation loaded into the repository execute this command.

Example:

```
jiglesias@p008:~/test/extraction-tests/test002$ viewcalc test
Printing the contents of test
-----
Name:test
Description:dddddd
Permissions:111000
Owner:jiglesias
Group:cbo
Type:VSP
Path:/db/jiglesias/proj002
Concept Group:/calculation/bon1
Creation Time:2010-10-12 21:32:47.473975
Certification Time:null
jiglesias@p008:~/test/extraction-tests/test002$
```

Here we are checking the basic contents of the calculation stored in the database.

To check the whole data stored in the database execute:

```
viewcalc test -f
```

This command will print the contents of the basic data, plus the contents of the Areas. Here goes a sample of the printing of a some Areas:

```
<<<k-points used in calculation and their position.>>>
[[[Monkhorst Pack
0
Gamma
1 1 1
0 0 0

]]]
<<<Compute Engine-Extraction.>>>
[[[ vasp.4.6.21 23Feb03 complex
]]]
```

The format of the contents areas is:

```
<<< name of the area >>>
[[[ the contents of the area ]]]
```

If the calculation has Areas in the form of files stored in the database, those files will be download in the current path. The loadcalc command stores areas in the form of file if the area is bigger than 3Kb or information of the final geometry.

Command exit-rep

Don't forget to execute:

exit-rep to exit the remote x-db system.

We access interface (substructure search engine).

There is also a temporal web interface to the system. This web interface is only used to search substructures into the repository.

The url is <https://x-db.iciq.es:8080/jchem/search/db>

Please bookmark this url to access the substructure search engine.

This primary web interface is made basically using applets. Because of this you need to ask Joan to configure the Firefox browser with Java support.

You need the user and password provided to you to access the web interface.

The main page is an applet to draw the substructure and search it into the database. It's very intuitive interface. When you press "search" button, another applet is loaded with the results. The application has a little unresolved bug and you need to click on the "hit" checkbox several times to see the results. This only happens the first time. The next times, the application works fine.

Because it's a temporal web application, not a lot of changes will be made to it, and the future web interface will be more stable and nice.