

# 1 SVN

## Determine version and revision

```
cd /workgpfs/cours/for/cfor001/TP/ORCHIDEE/modipsl/modeles/ORCHIDEE.2
svn info
```

Which version and which revision of ORCHIDEE is installed in this directory?

```
svn stat
svn diff
```

Are there any local modifications done to the version? Using `svn stat`, the local so called working version is compared to the version and revision that was extracted (see information in `svn info`).

```
svn help stat
```

Use `svn help` to know more about the commands `svn`.

```
svn -u stat
```

Are there any modifications done on the server more recent than your version? What is the difference when you add `-u`?

```
cd /workgpfs/cours/for/cfor001/TP/ORCHIDEE/modipsl/modeles/ORCHIDEE.3
```

Answer the same question for this version. Which version and which revision is installed here? Are there any local modifications? Modifications done later on the server?

Note that the use of `svn` is based on `.svn` folders stored in each directory and each sub-directory. If these directories are not there, it is not possible to get information about the version used. Therefore, when you copy a local version of ORCHIDEE, always copy all sub-folder too, use `cp -r`.

## Clean, update and resolve conflicts

```
cd $WORKDIR
cp -r /workgpfs/cours/for/cfor001/TP/ORCHIDEE/modipsl/modeles/ORCHIDEE.3 myORCHIDEE.3
cd myORCHIDEE.3
svn stat
svn diff
```

Now you've copied the version ORCHIDEE.3 into your workdir. Is this version modified? Is it up to date or has it been changed on the server? You will now clean and update this version. Remove modifications which are not needed and update to the latest version. You will need to resolve conflicts.

```
svn revert file_where_modifications_are_not_needed_to_be_saved.f90
svn -u stat
```

You will now update the full ORCHIDEE to the latest revision on the current version (path on `svn`). Always do this command from the basedirectory ORCHIDEE. Use `svn -u stat`. All files marked with `*` (star) will be updated. Files with `*` and `M`, might make conflicts.

```
svn update      # Answer p if conflict is detected
svn stat
```

If a file is marked `C`, it means conflict. You have to resolve the conflict manually. Open the file and try to resolve the conflict. When this is done, tell `svn` that the conflict is resolved.

```
vi file_with_conflict          # look for sections with <<<<<<<
svn resolved file_with_conflict # tell svn conflict is resolved
svn diff file_with_conflict
```