

# Unison File Synchronizer

## Introduction

[Unison](#) is a cross-platform and robust file synchronisation tool. Version 2.13.16 of Unison is installed on both file servers `russe.l.inf.unibz.it` and `actarus.inf.unibz.it`.

## Links

- [Unison user manual](#)
- [Unison Wiki](#)
- [Unison File Synchronizer: Liberation through Data Replication](#) is an excellent introduction to Unison

## Installation and Use

### MacOS X

- Install Unison using [MacPorts](#) (former DarwinPorts). See [http://www.macgeekery.com/gspot/2006-07/complete\\_bi\\_directional\\_home\\_sync\\_and\\_backup\\_with\\_unison](http://www.macgeekery.com/gspot/2006-07/complete_bi_directional_home_sync_and_backup_with_unison) for a short tutorial on installing unison.
- Unison wiki has a specific section on [unison and OSX](#)

### Tips and Tricks

- You should use `ssh` to connect to the server, by specifying one of the roots as `ssh://stessaris@russe.l.inf.unibz.it/home` folder. To discover the exact path of your home folder you can connect to the server via `ssh` and type `pwd` on the command line. E.g. my unison configuration file contains the line

```
root = ssh://stessaris@russe.l.inf.unibz.it//home/professors/stessaris
```

- Under some circumstances Excel modifies its files without changing the timestamps. Obviously, this confuses file synchronization tools. If you get an error on an excel file you can fix it by updating the timestamp of the file with the command line `touch filename` and running unison again.

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## Windows XP

Install Unison on Windows to synchronize data between Windows and Linux using SSH

## Requirements

Software Packages:

1. gtk-runtime-2.12.1-rev-b.exe
2. ssh.exe
3. Unison-2.27.57-Gtk.zip
4. Unison-ssh.zip

Download Software Packages from Internet or from our local Repository!

## Installation

### Install all 4 Packages

1. Run gtk-runtime-2.12.1-rev-b.exe by default installed in C:\Program Files\Common Files\GTK\2.0
2. Copy ssh.exe in C:\WINDOWS\
3. Create folder Unison in C:\Program Files\ and extract Unison-2.27.57 Gtk+.exe, if you want to use the graphical interface to the newly created folder
4. Extract from unison-ssh.zip the file plink.exe and place it in C:\WINDOWS\

### Add bin gtk-runtime to PATH

1. Select My Computer → Properties → Advanced
2. Environment Variables → System Variables: Click on Path and press Edit
3. Go to the end of the line and insert :C:\Program Files\Common Files\GTK\2.0\bin
4. Press 3 x OK

Test if Unison works by double clicking Unison-2.27.57 Gtk+.exe in C:\Program Files\Unison

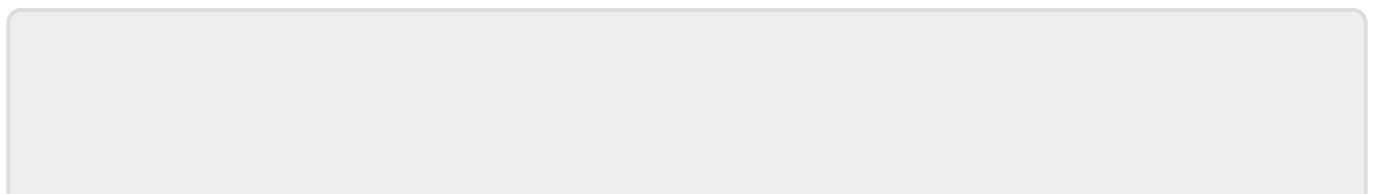
Unison configuration files are stored in C:\Documents and Settings\username\.unison. Initially there should be a configuration file default.prf there. Prepare/Modify a configuration file to fit your needs.

If the Unison version on your Server is different you can use the -addversionno. For this create a batch file e.g. sync.bat in the C:\Program Files\Unison directory:

sync.bat

```
"C:\Program Files\Unison\Unison-2.27.57 Gtk+.exe" -addversionno
```

Next create from the batch file a shortcut to the Desktop if you wish.



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