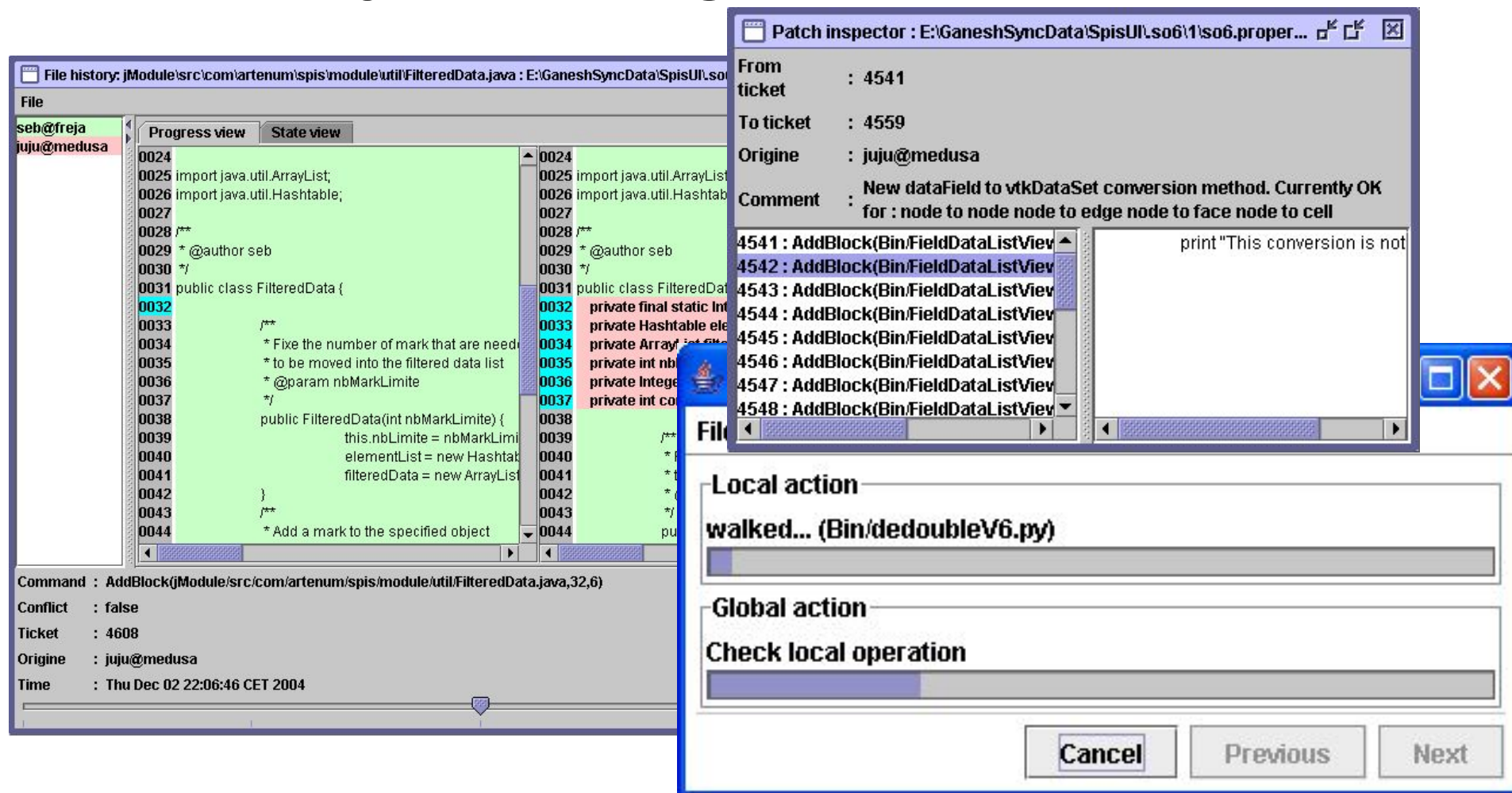


# Versionning system

## Synchronizing with LibreSource



## The goal of synchronization

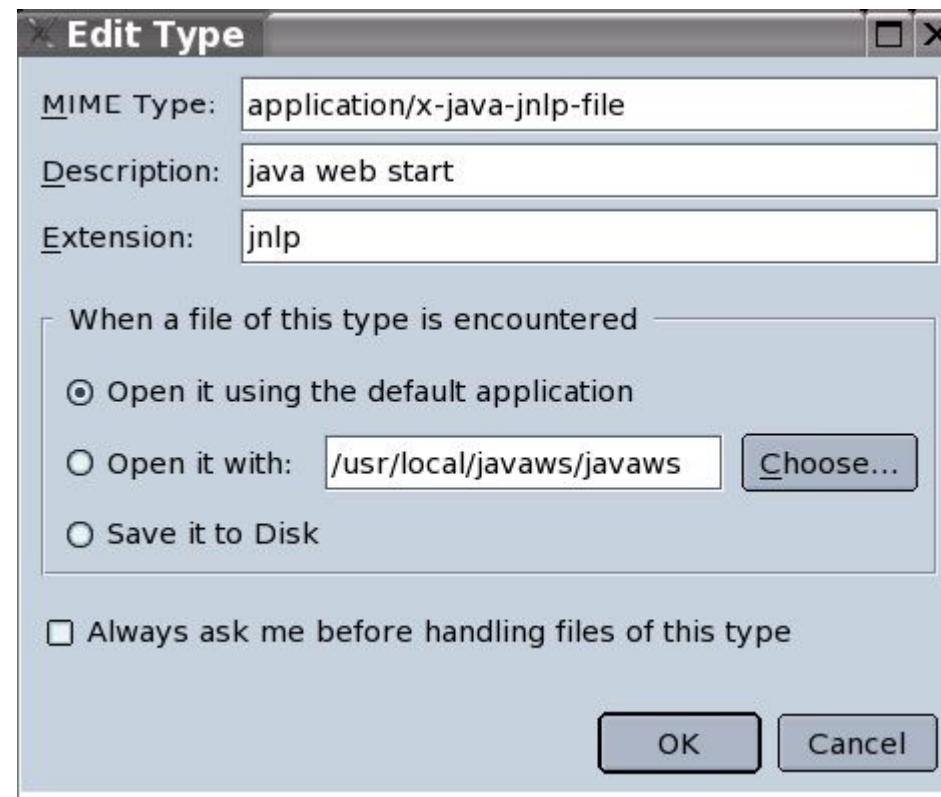
- ✓ Each user can modify a common copy and synchronized it with the other users in order to get the contribution of each other.
- ✓ Convergence of every copy

## What do we need ?

- ✓ A synchronizer (on the server)
- ✓ A set of directory (on each computer)
- ✓ Link those directory to the synchronizer
- ✓ Commit when you want to publish your work
- ✓ Update when you want to retrieve the concurrent work
- ✓ Java and a browser...

## How to install Java Web Star ?

- ✓ Install Java 1.4 or above
- ✓ Link in your browser ***jnl***p files with ***javaws*** application.



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<a href="#">inegration@medusa</a>	3349	Nov 22, 2004 1:34 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/juju
<a href="#">juju@shiva_win</a>	767	Oct 23, 2004 1:57 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/juju
<a href="#">juju@shiva</a>	3726	Nov 26, 2004 9:09 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/juju
<a href="#">seb@freja</a>	4379	Dec 1, 2004 3:30 PM	<a href="#">UPDATE</a> - COMMIT	Is://ganesh.artenum.com/users/seb
<a href="#">juju@medusa</a>	4867	Dec 2, 2004 9:04 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/juju
<a href="#">juju@shiva_win2</a>	3726	Nov 26, 2004 9:01 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/juju
<a href="#">roussel@leo</a>	3560	Nov 24, 2004 2:22 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/roussel
<a href="#">ben@linux.esa</a>	4559	Dec 2, 2004 10:39 AM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/thiebault
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WORKSPACE NAME	TIC
<a href="#">integration@medusa</a>	33
<a href="#">juju@shiva_win</a>	76
<a href="#">juju@shiva</a>	37
<a href="#">seb@freja</a>	43
<a href="#">juju@medusa</a>	4867
<a href="#">juju@shiva_win2</a>	3726
<a href="#">roussel@leo</a>	3560
<a href="#">ben@linux.esa</a>	4859
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Workspace Name :

Base Path :  [Browse](#)

Synchronizer URI :

Login :

Password :

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<a href="#">rousseau@leo</a>	3560	Nov 24, 2004 2:22 PM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/rousseau
<a href="#">ben@linux.esa</a>	4559	Dec 2, 2004 10:39 AM	UPDATE - COMMIT	Is://ganesh.artenum.com/users/thiebault
<a href="#">Smack54</a>	4867	Dec 3, 2004 1:48 AM	UPDATE - <a href="#">COMMIT</a>	Is://ganesh.artenum.com/users/seb
<a href="#">TheNameInTheList</a>	0	(never)	<a href="#">UPDATE</a> - COMMIT	Is://ganesh.artenum.com/users/seb

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The directory

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[juju@shiva](#)

[seb@freja](#)

[juju@medusa](#)

[juju@shiva\\_win2](#)

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Update connection: E:\GaneshSyncData\SpisU...

File View

Local action

Downloading 963934 / 5414288

Global action

Download all patch

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## Some important features

### To prevent the synchronization of unwanted files

- ✓ Use the “**.ignore.so6**” file in the synchronized directory
  - ✓ Ends with: “.\*\.**class\$**”, “.\*~\$”
  - ✓ Directory: “:build\$”, “:doc:api\$”

### Retrieve a previous version of your file

- ✓ Get directly the last synchronized state in the directory
  - ✓ SyncBasePath/**.so6/1/REFCOPY/...**
- ✓ Otherwise use the history viewer
  - ✓ Launch the So6 studio
  - ✓ Select your base working dir (Synchronized directory)
  - ✓ Select your connection
  - ✓ View file tree => Pop-up menu on the dedicated file...

## How conflict arise ?

- ✓ When two users add a new file with the same name.
  - ✓ The user that make the update will generate a conflict on the file.
  - ✓ The local file will be marked: ***MyClass.java#1520***
- ✓ When two users edit the same lines in the same file.
  - ✓ The conflict will be inside the file presenting the concurrent contribution.

```
>>>> CONFLICT >>>> REMOVE - ADD
> duplicatedNodesList = []
==== juju@medusa / juju@shiva
> count = shift + 1
> nodeCount = 1 + len(shared['MeshElmtList'][0].List)
<<<< CONFLICT <<<<
```



## **It's simple to use but use it smartly !**

- ✓ Synchronize only what you need
  - ✓ No need to synchronized your configuration files.
  - ✓ No need to synchronized your generated files. (.class)
  - ✓ Use the ignore file
- ✓ Try to prevent conflict
  - ✓ Don't work on the same part of the code
  - ✓ Coordinate your work
  - ✓ Reduce the divergence by updating yourself often.
- ✓ Synchronization has been designed for source code
  - ✓ Not for CD images, or big binary files.
  - ✓ Use download area for this kind of data instead.