



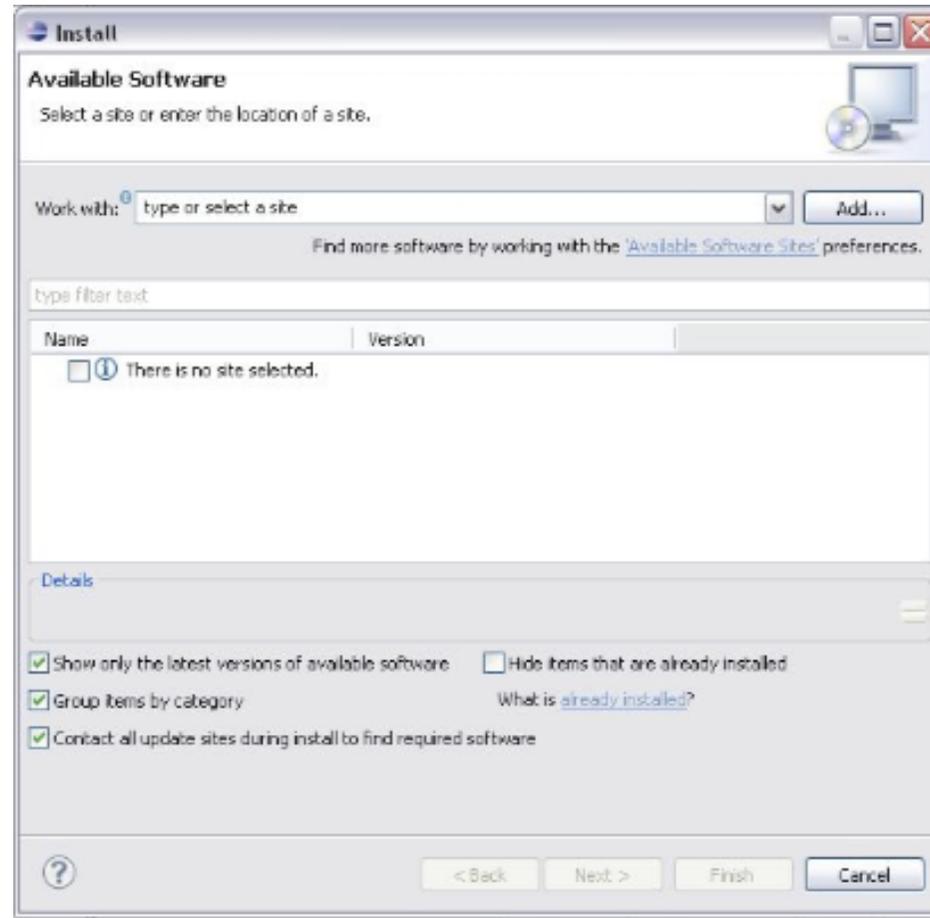
You need install:

- Eclipse Galileo
- SVN packages for eclipse Galileo
- CDT packages for eclipse Galileo
- MinGW, “Minimalist GNU for Windows”
- MSYS, “Minimal SYStem”

# CDT packages for eclipse Galileo

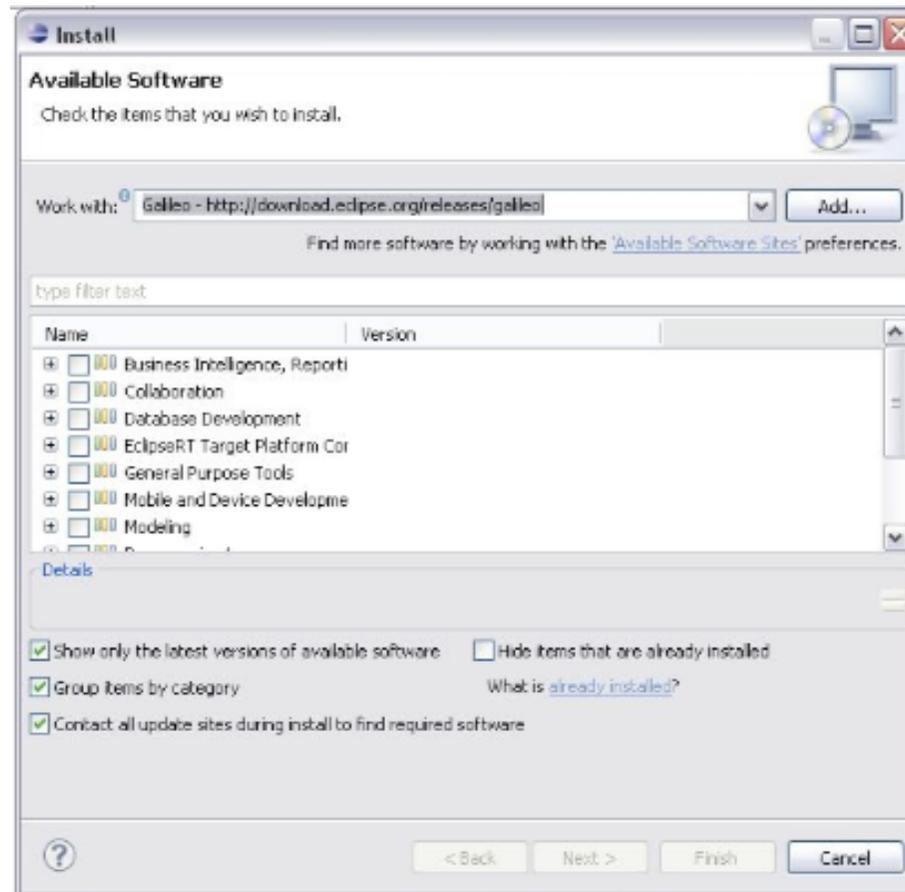
## CDT: Eclipse C/C++ Development Tooling

- From Help → Install New Software

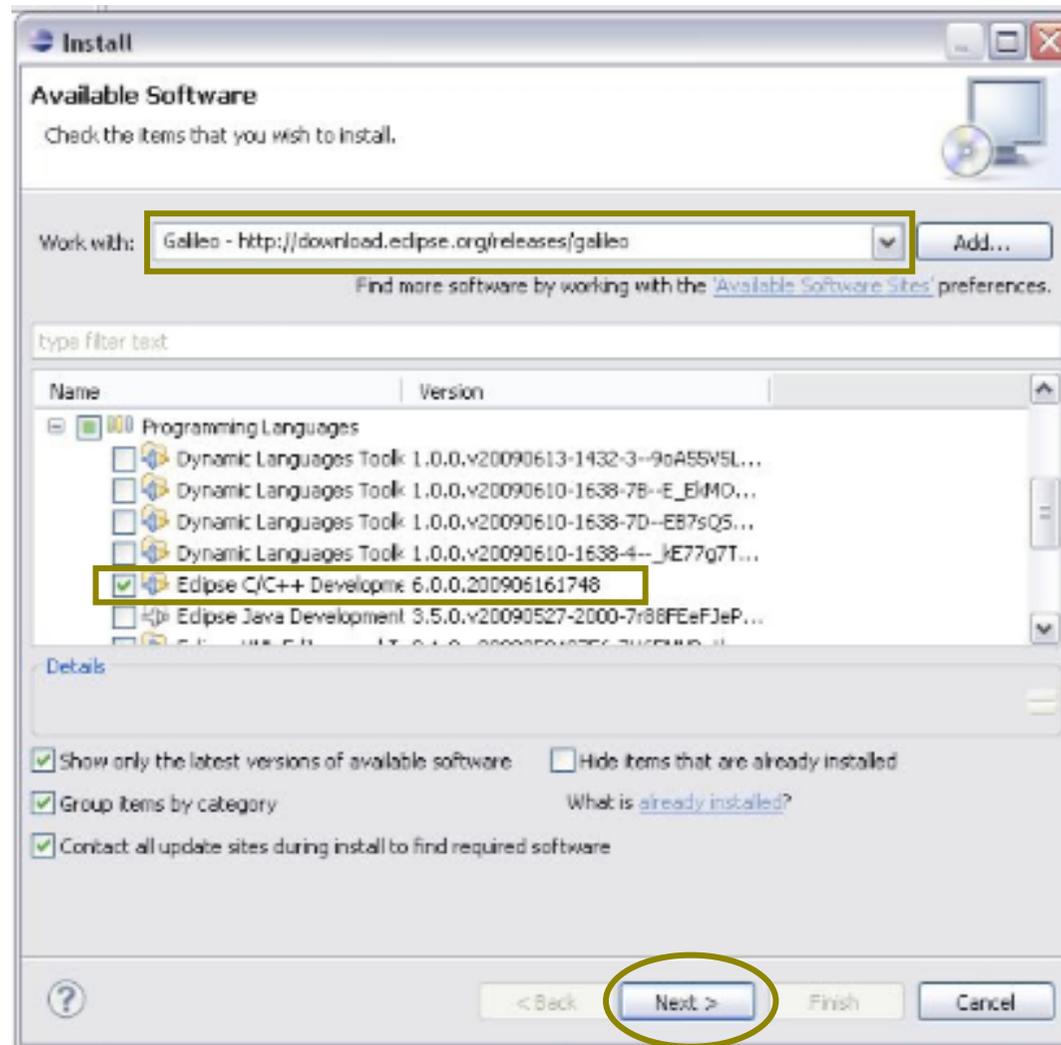


## CDT: Eclipse C/C++ Development Tooling

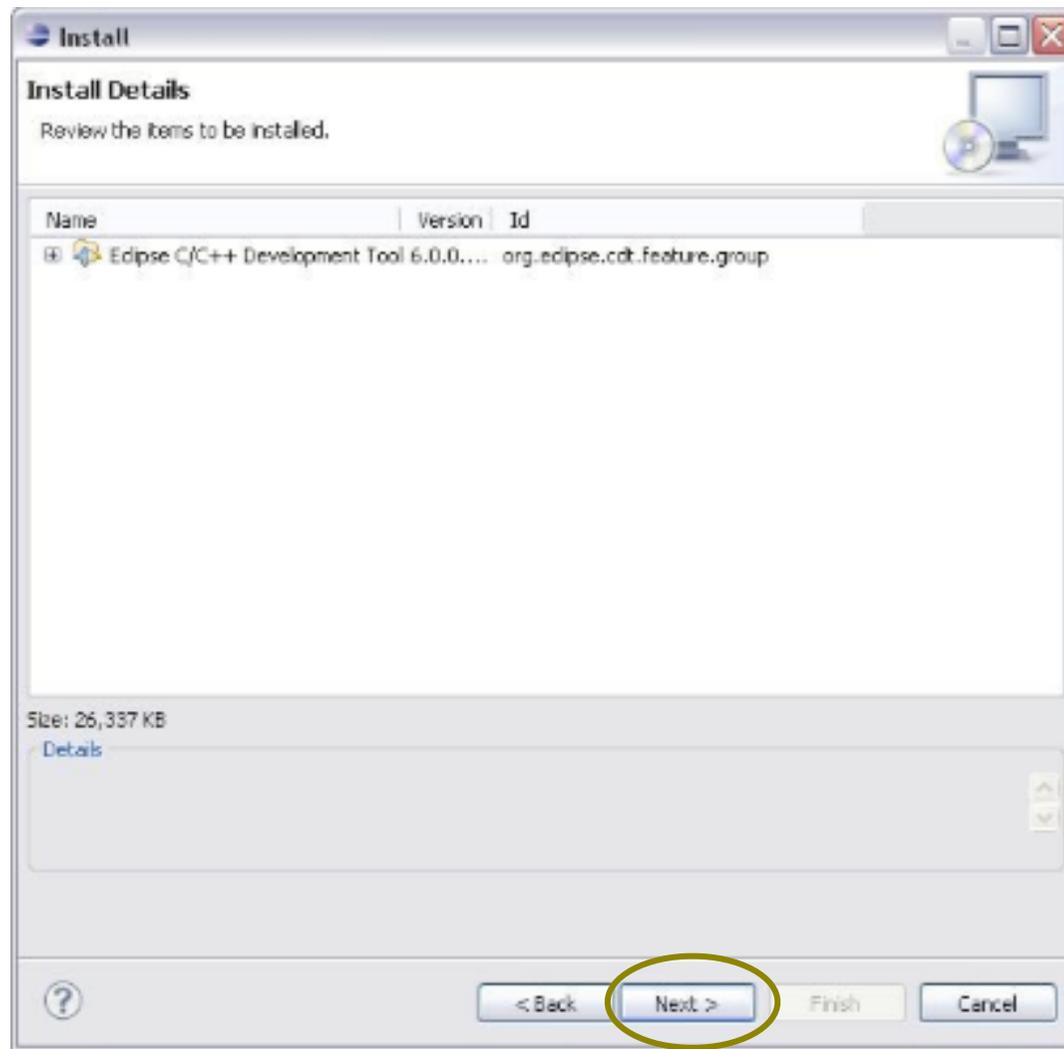
- From Help → Install New Software
- Work with: Galileo - <http://download.eclipse.org/releases/galileo>



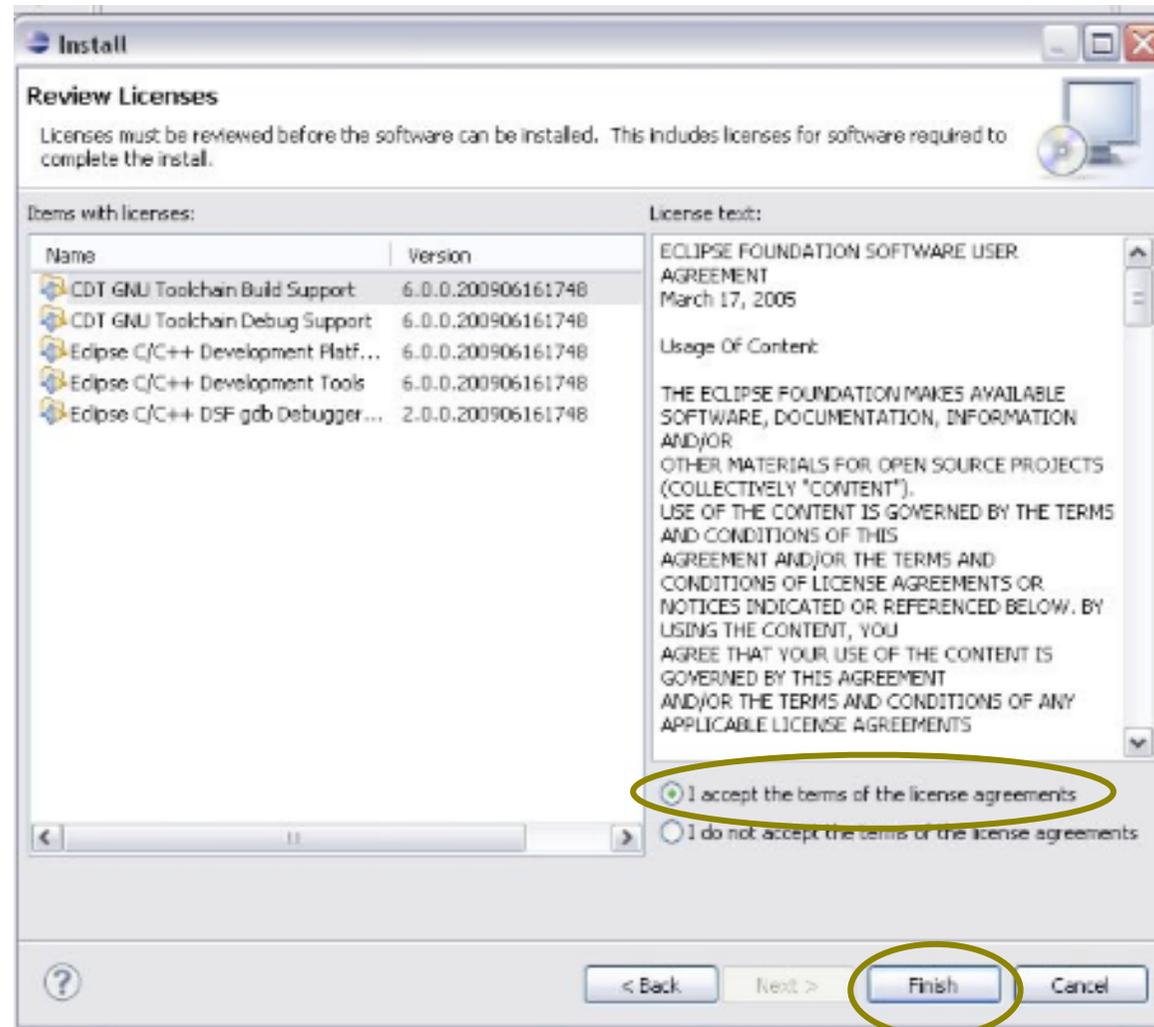
## CDT: Eclipse C/C++ Development Tooling



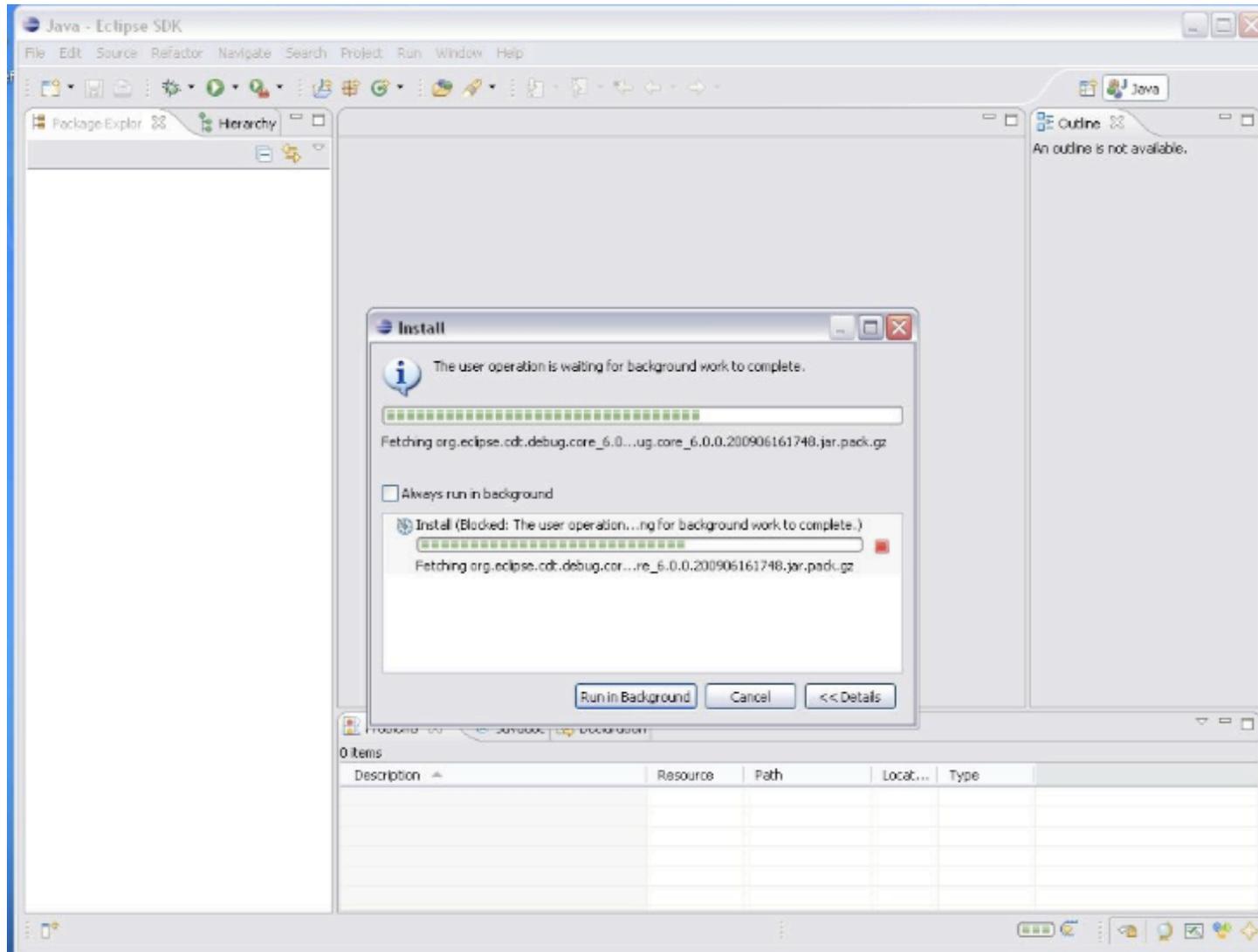
## CDT: Eclipse C/C++ Development Tooling



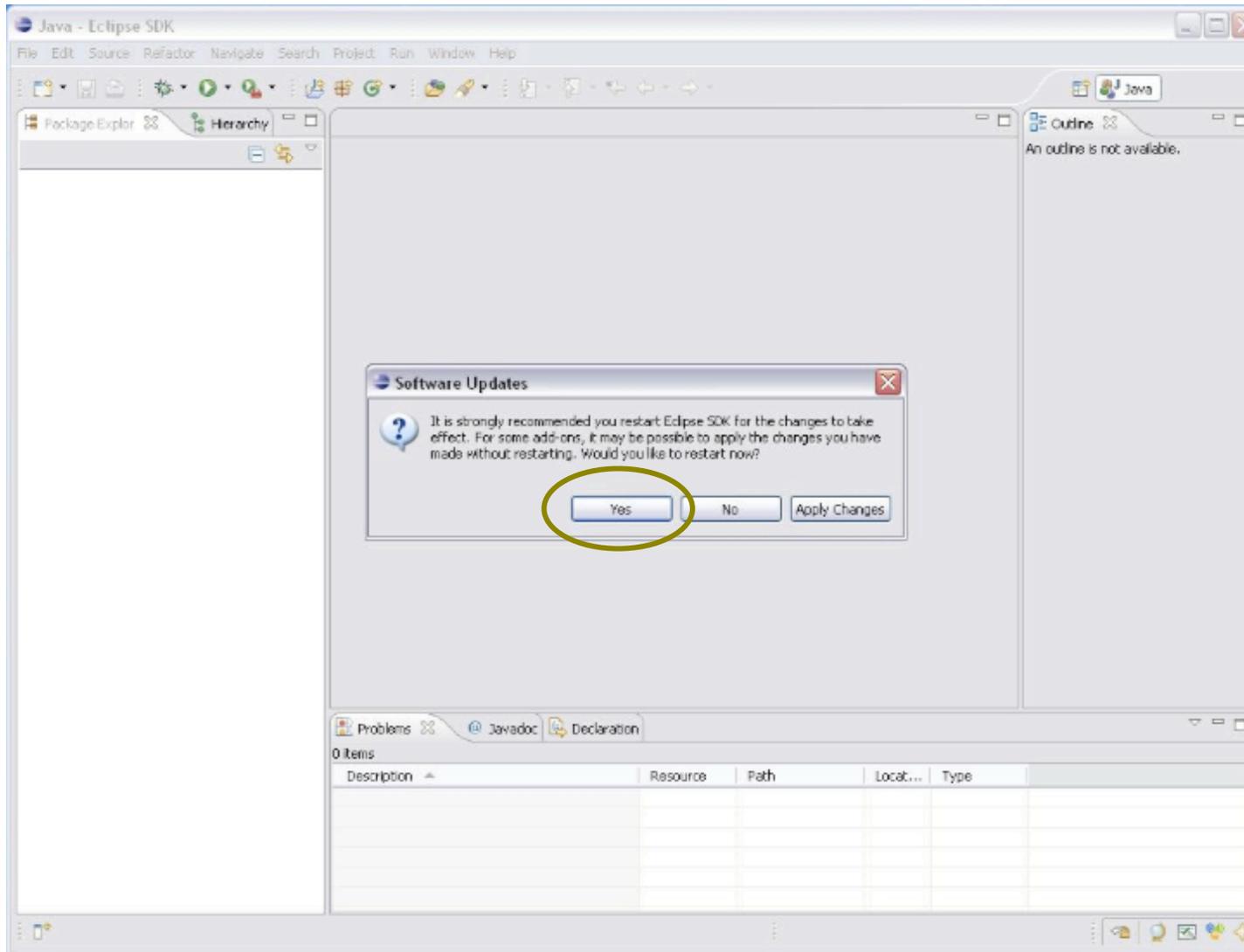
## CDT: Eclipse C/C++ Development Tooling



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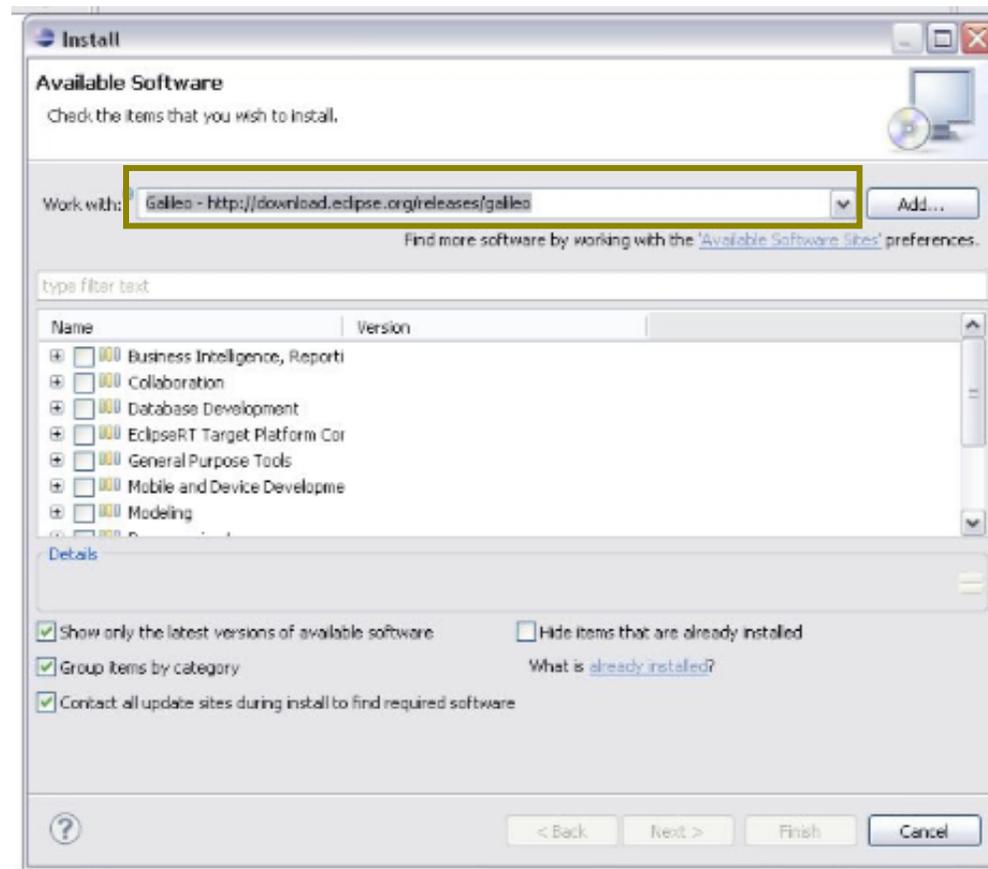
## CDT: Eclipse C/C++ Development Tooling



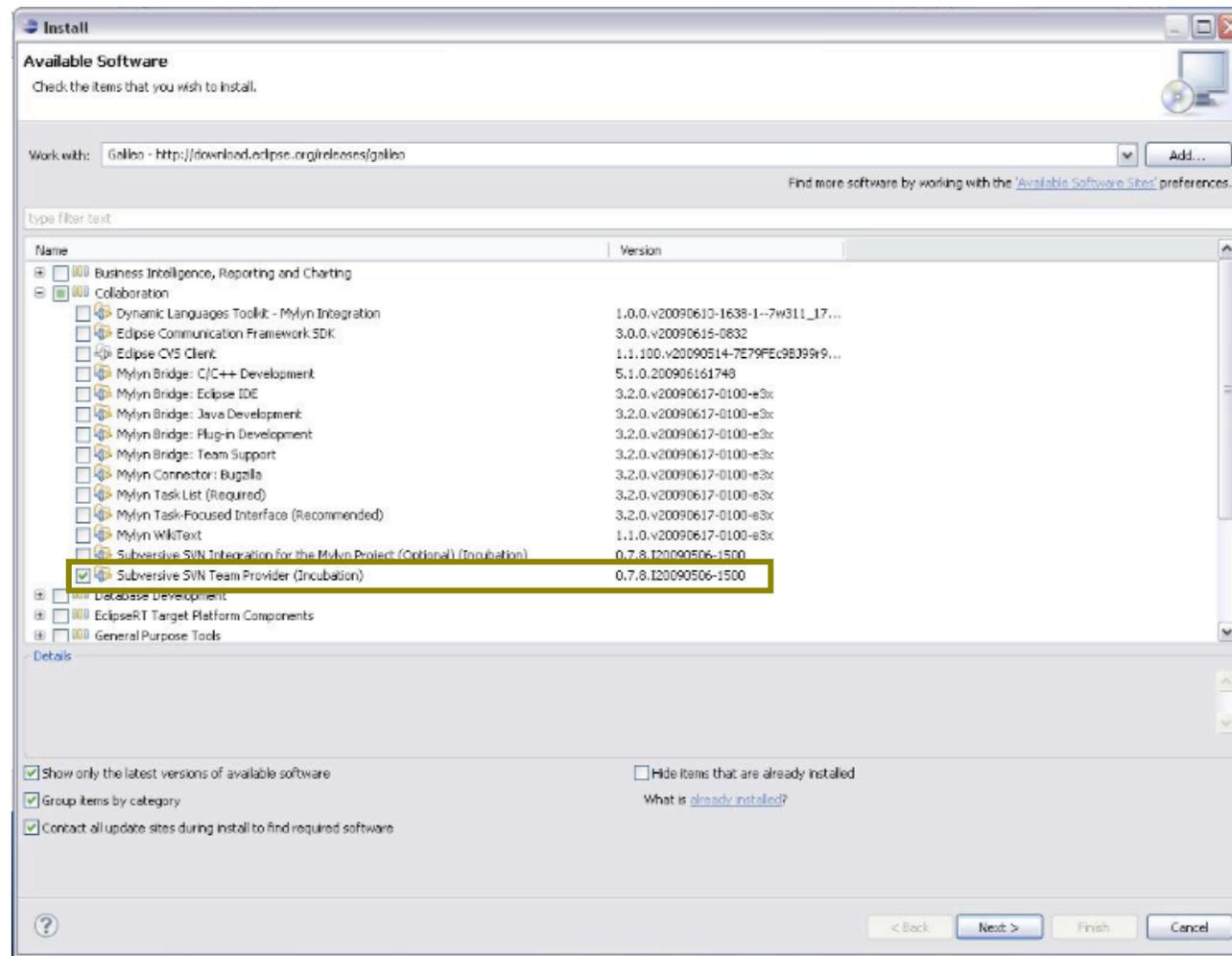
# To use SVN in eclipse Galileo

## To use SVN in eclipse Galileo: Subversion

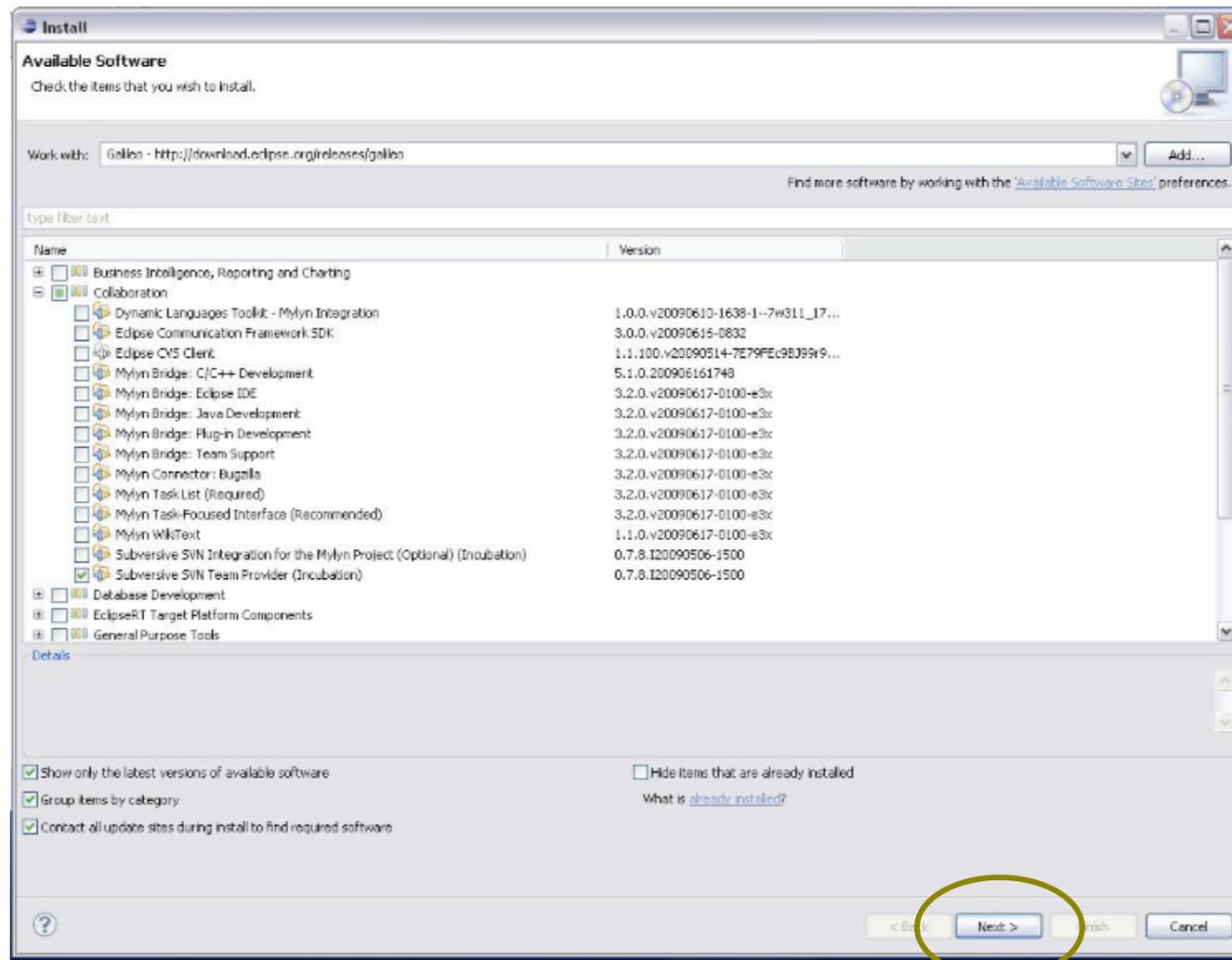
- From Help → Install New Software
- Work with: Galileo - <http://download.eclipse.org/releases/galileo>



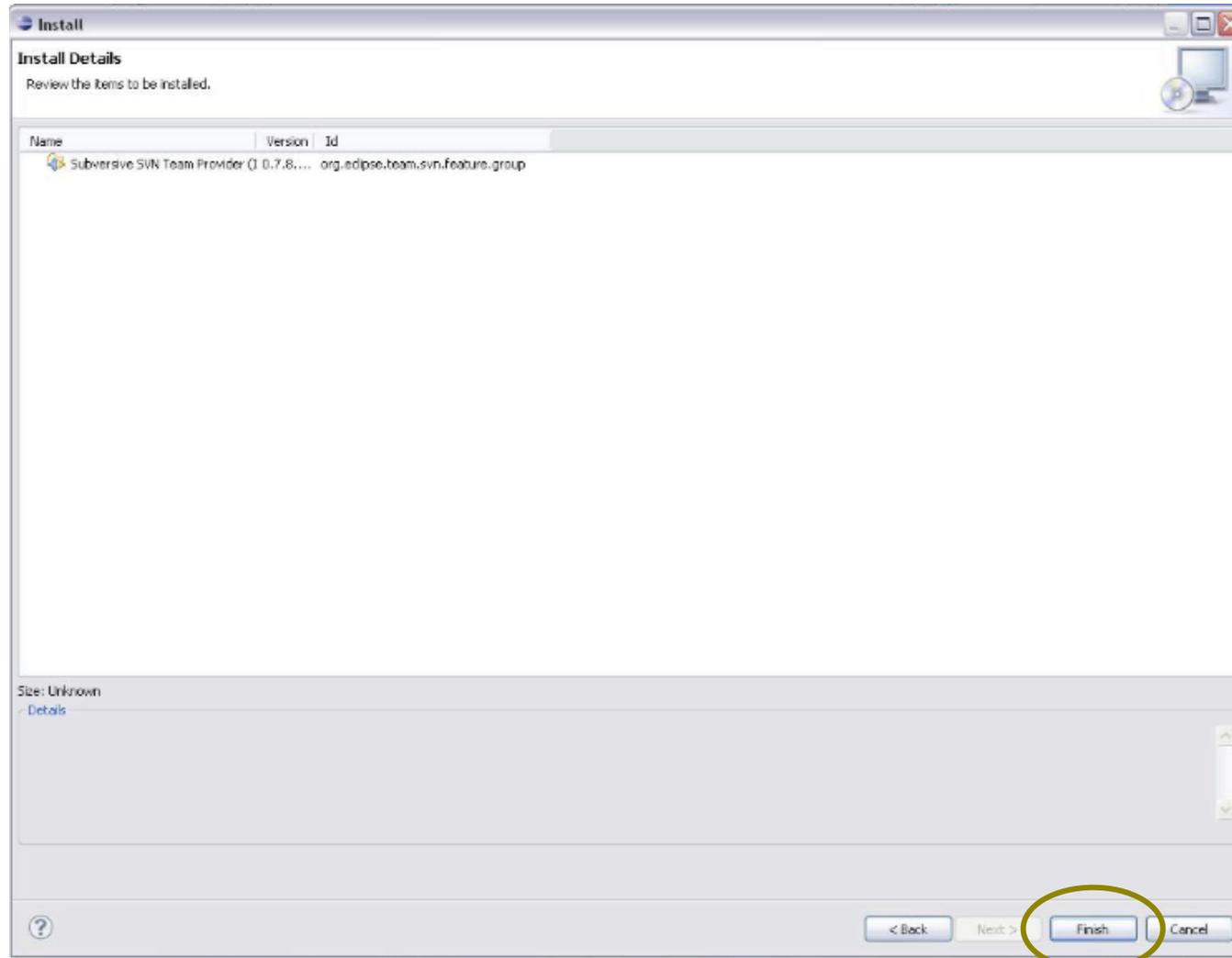
## To use SVN in eclipse Galileo: Subversion



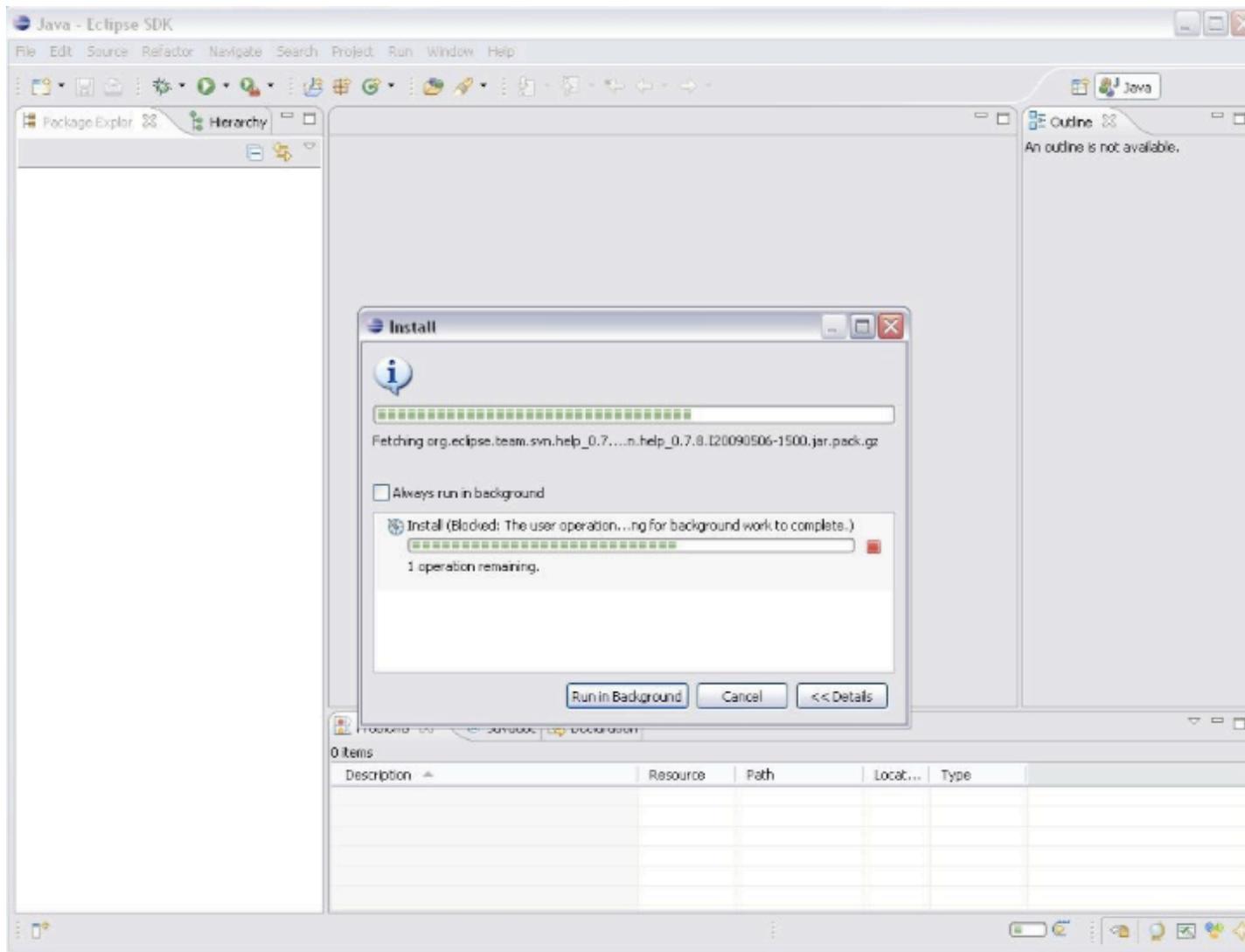
## To use SVN in eclipse Galileo: Subversion



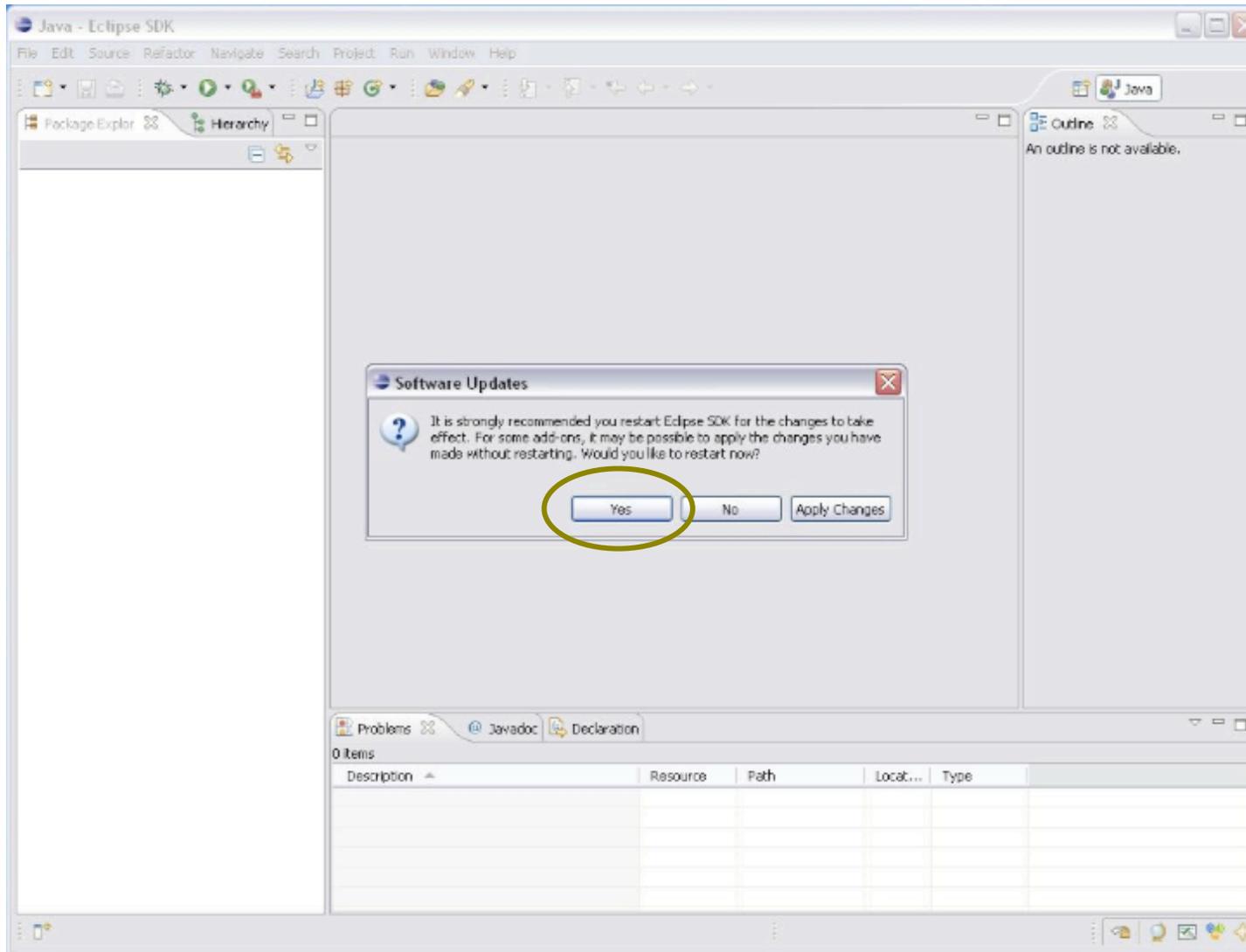
## To use SVN in eclipse Galileo: Subversion



## To use SVN in eclipse Galileo: Subversion

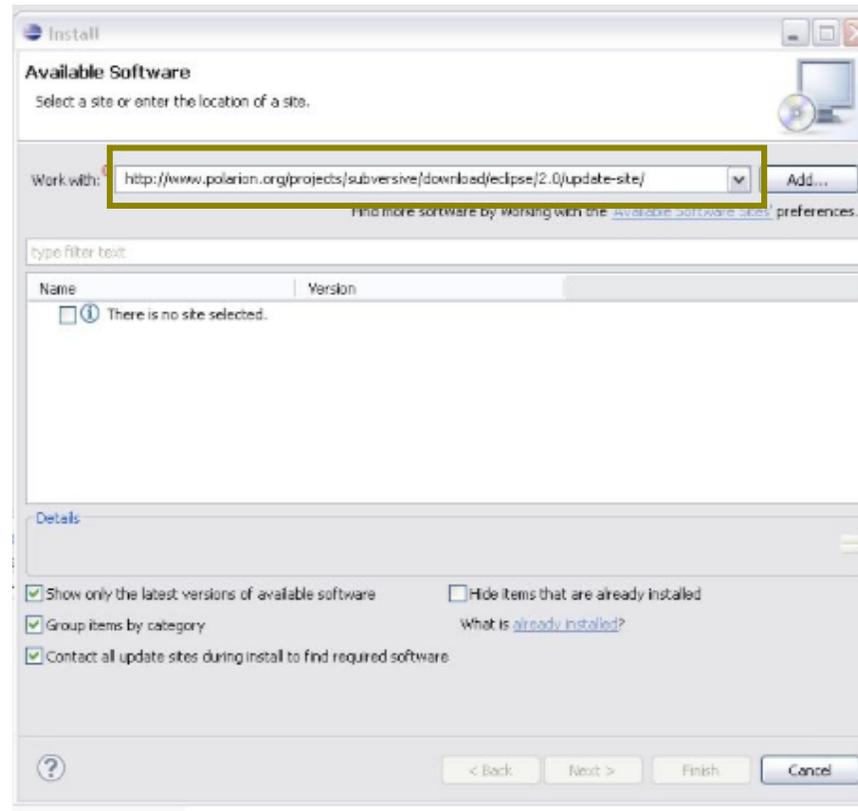


## To use SVN in eclipse Galileo: Subversion

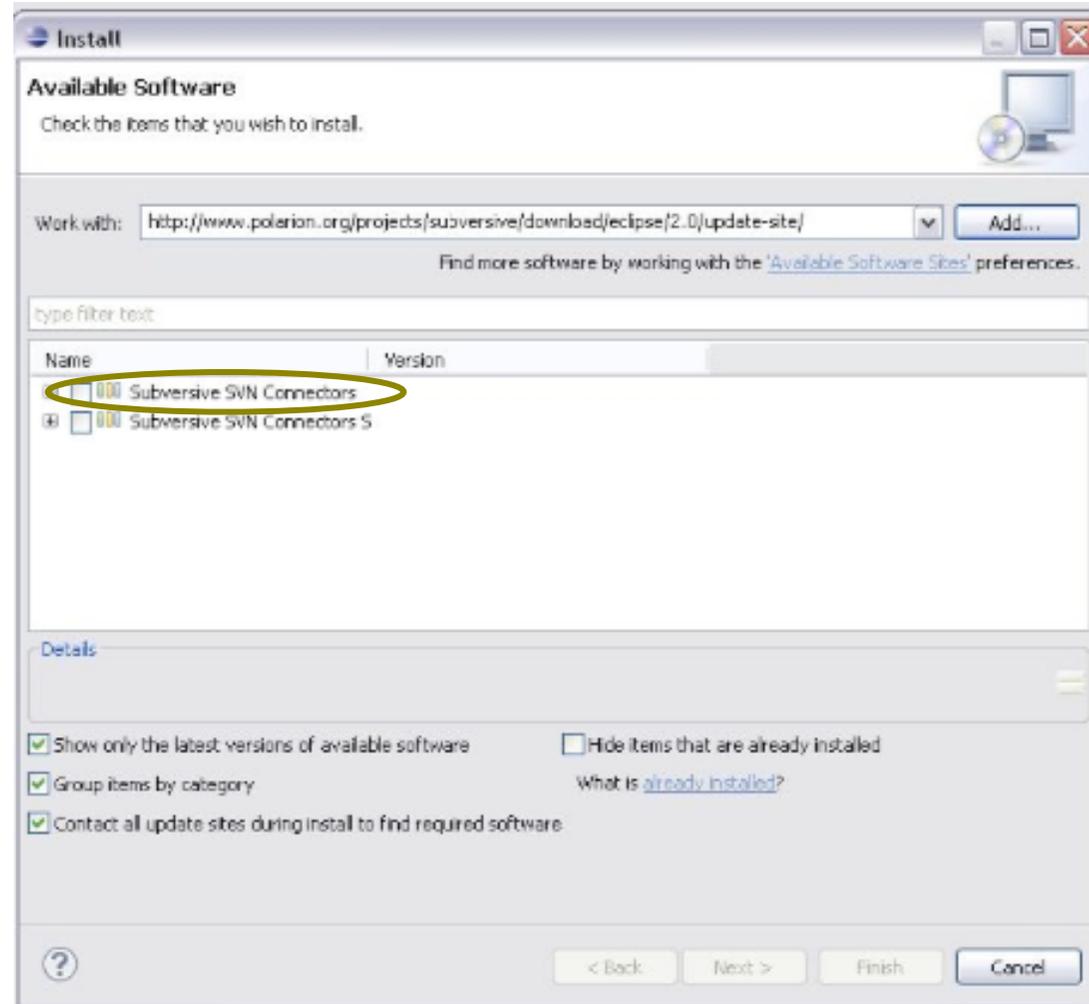


## To use SVN in eclipse Galileo: Subversion

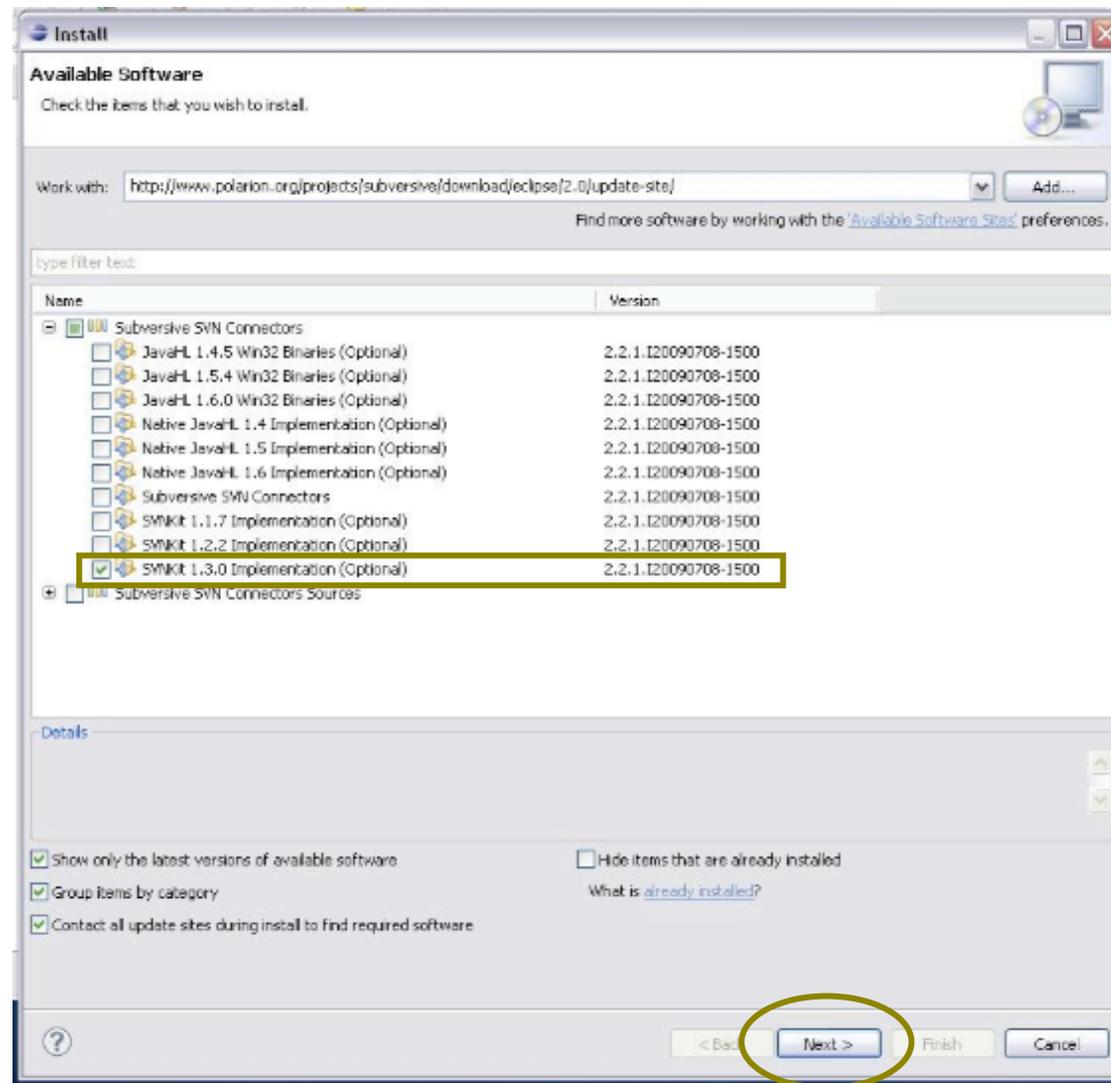
- From Help → Install New Software
- Work with: <http://www.polarion.org/projects/subversive/download/eclipse/2.0/update-site/>
- Click on “add” → enter any name → click on ok.



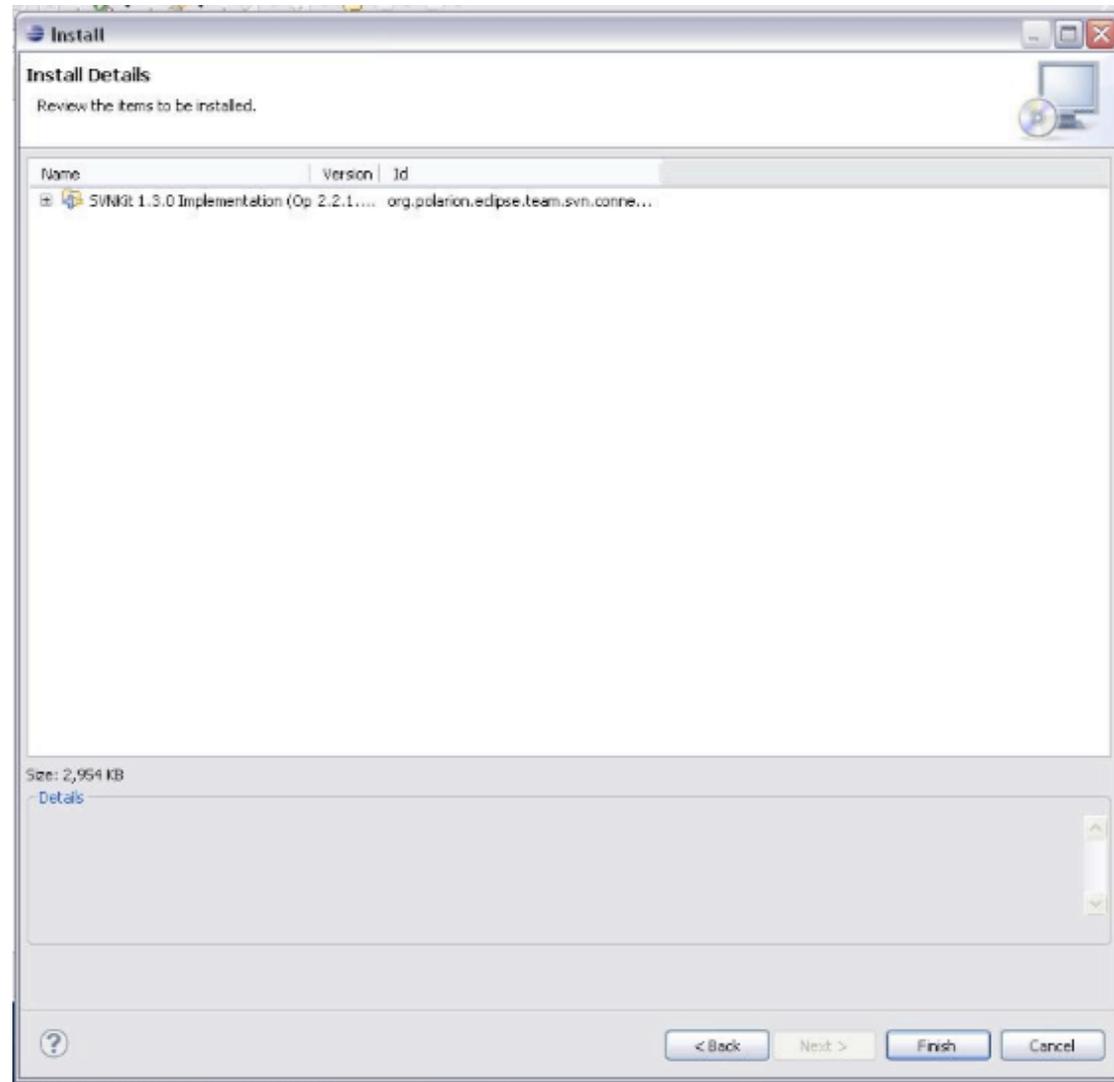
## To use SVN in eclipse Galileo: Subversion



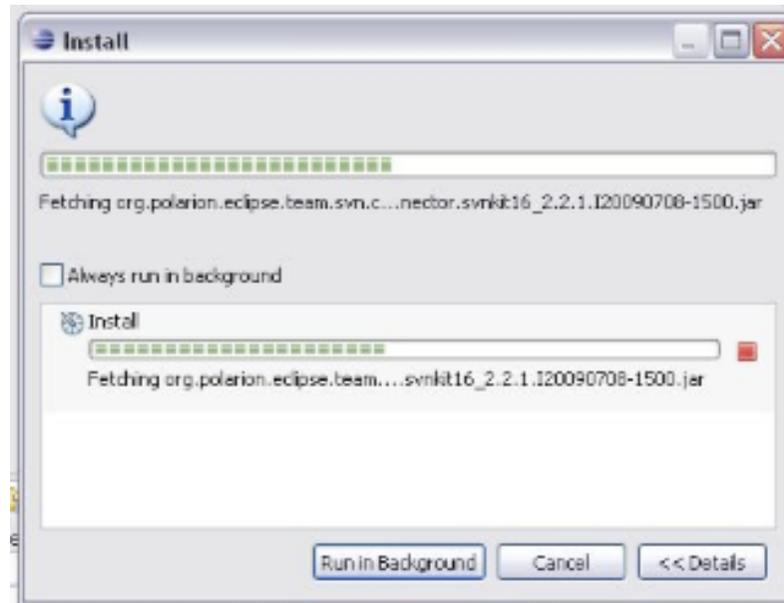
## To use SVN in eclipse Galileo: Subversion



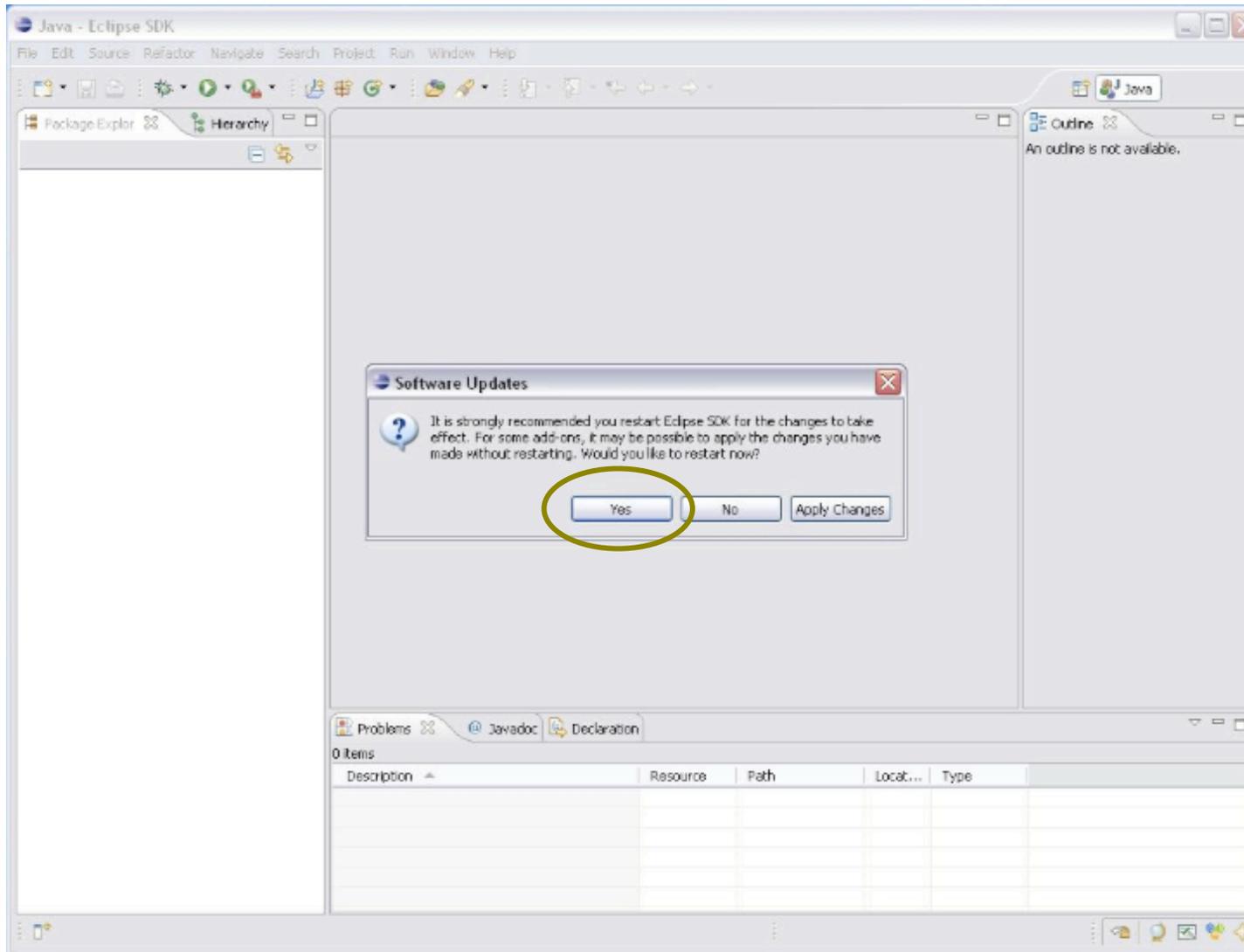
## To use SVN in eclipse Galileo: Subversion



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# To Install MinGW

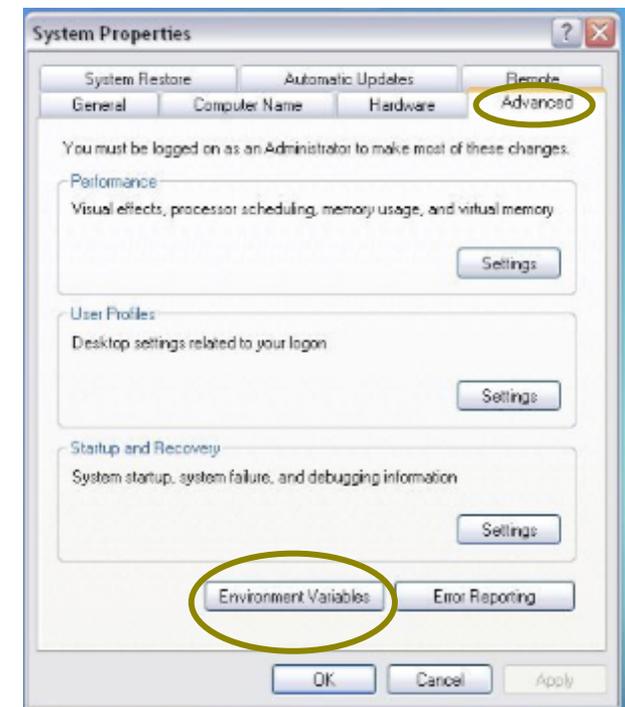
## To Install MinGW: “Minimalist GNU for Windows”

- Download MinGW from: <http://www.mingw.org/>

A tested version is available on:

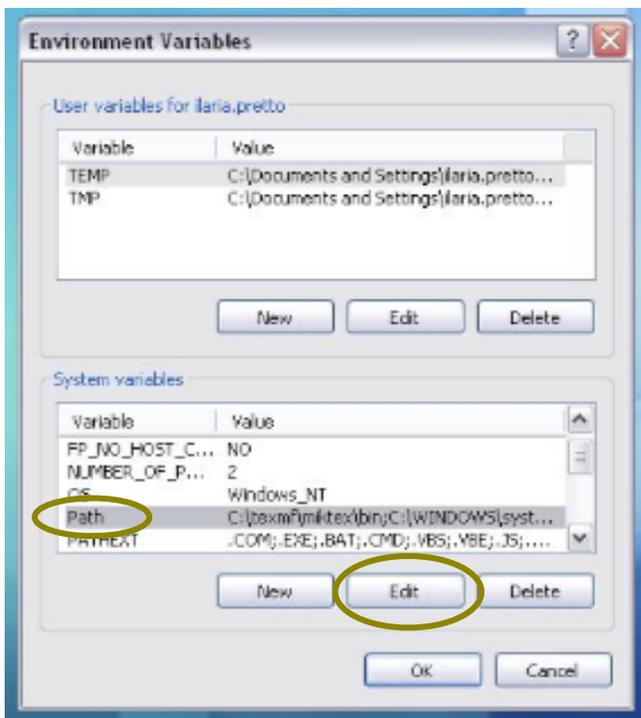
[http://www.ing.unitn.it/~cordano/geotop\\_downloads/windows\\_compilers/](http://www.ing.unitn.it/~cordano/geotop_downloads/windows_compilers/)

- Execute MinGW.exe;
- Set Environment variable:
  - Right-click on "My Computer" and select "Properties";
  - Advanced -> Environment Variables.



## To Install MinGW: “Minimalist GNU for Windows”

- Set Environment variable: - Right-click on "My Computer" and select "Properties";



- Advanced -> Environment Variables;

- Box System Variables -> Select “Path”;

- Edit -> add "<path-installation-directory>\bin".

If, during MinGW installation, you accepted the defaults,  
<path-installation-directory> will be: C:\MinGW\bin.

Don't forget the semicolon;

## To Install MinGW: “Minimalist GNU for Windows”

- Set Environment variable: - Right-click on "My Computer" and select "Properties";  
- Advanced -> Environment Variables;



- Box System Variables -> Select “Path”;

- Edit -> add "<path-installation-directory>\bin".

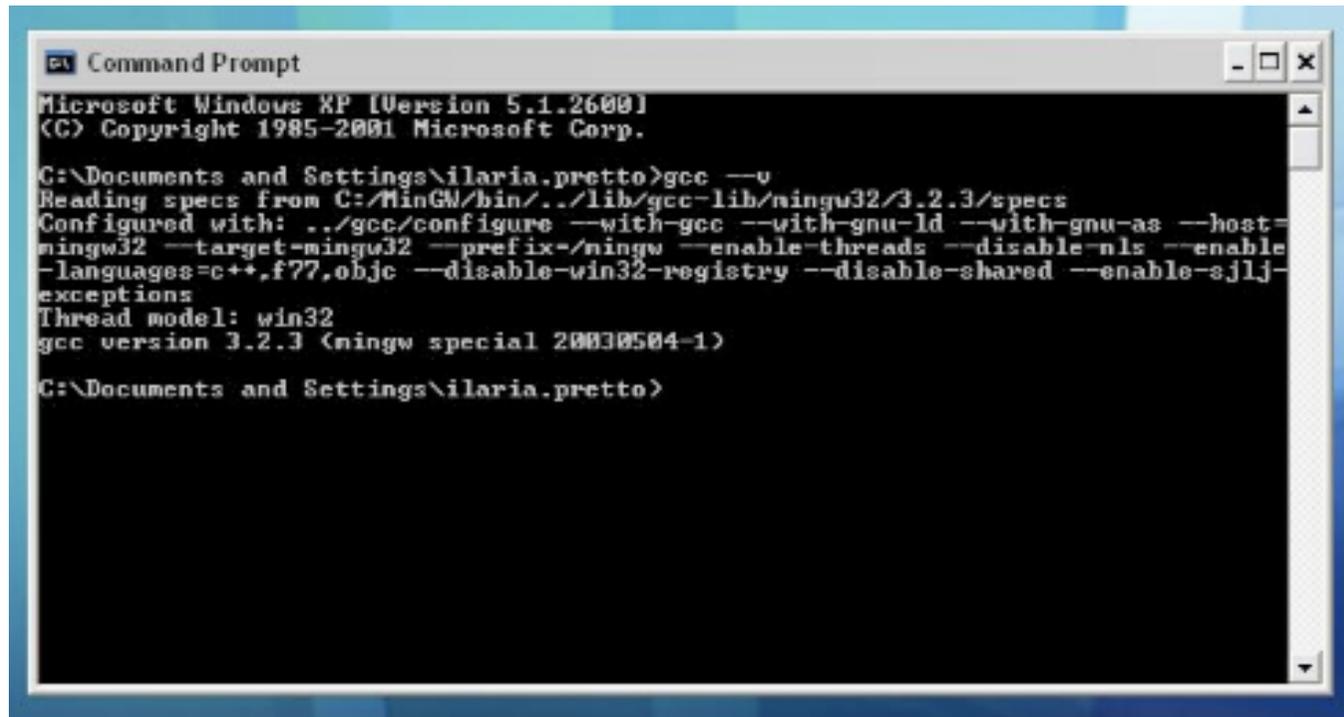
If, during MinGW installation, you accepted the defaults, <path-installation-directory> will be:

**;C:\MinGW\bin;**

Don't forget the semicolon.

## To Install MinGW: “Minimalist GNU for Windows”

- To test that MinGW really work open command prompt and to write: `gcc --v`
- You have to obtain:



```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\ilaria.pretto>gcc --v
Reading specs from C:/MinGW/bin/./lib/gcc-lib/mingw32/3.2.3/specs
Configured with: ./gcc/configure --with-gcc --with-gnu-ld --with-gnu-as --host=
mingw32 --target=mingw32 --prefix=/mingw --enable-threads --disable-nls --enable
-languages=c++,f77,objc --disable-win32-registry --disable-shared --enable-sjlj-
exceptions
Thread model: win32
gcc version 3.2.3 (mingw special 20030504-1)

C:\Documents and Settings\ilaria.pretto>
```

# To install MSYS

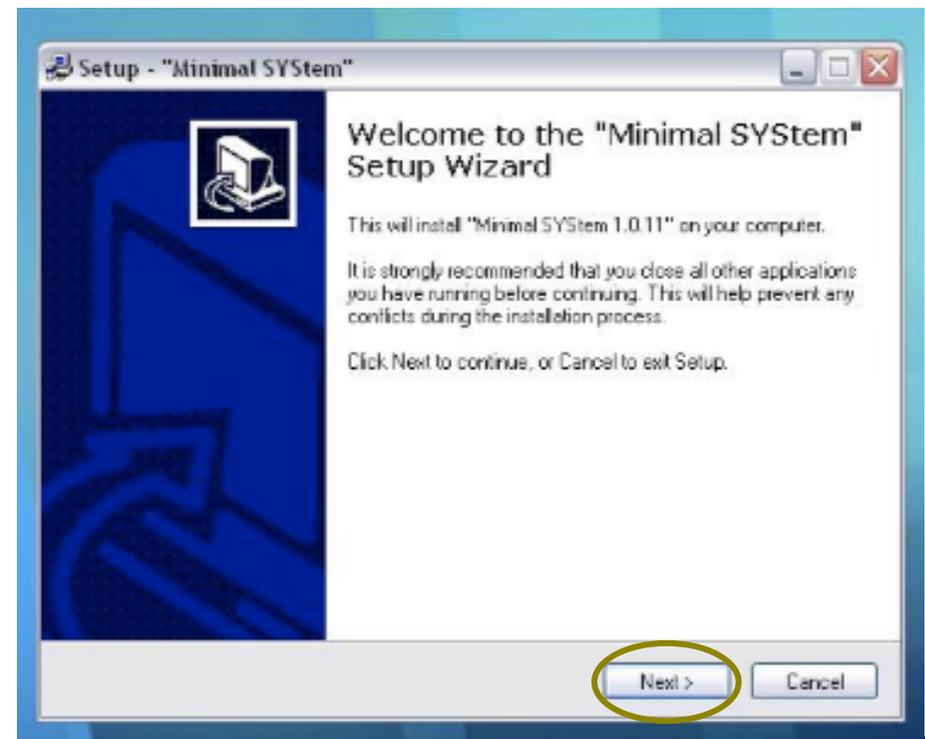
## To install MSYS, "Minimal SYStem":

- After install MInGW, download MSYS from: <http://www.mingw.org/wiki/msys>;

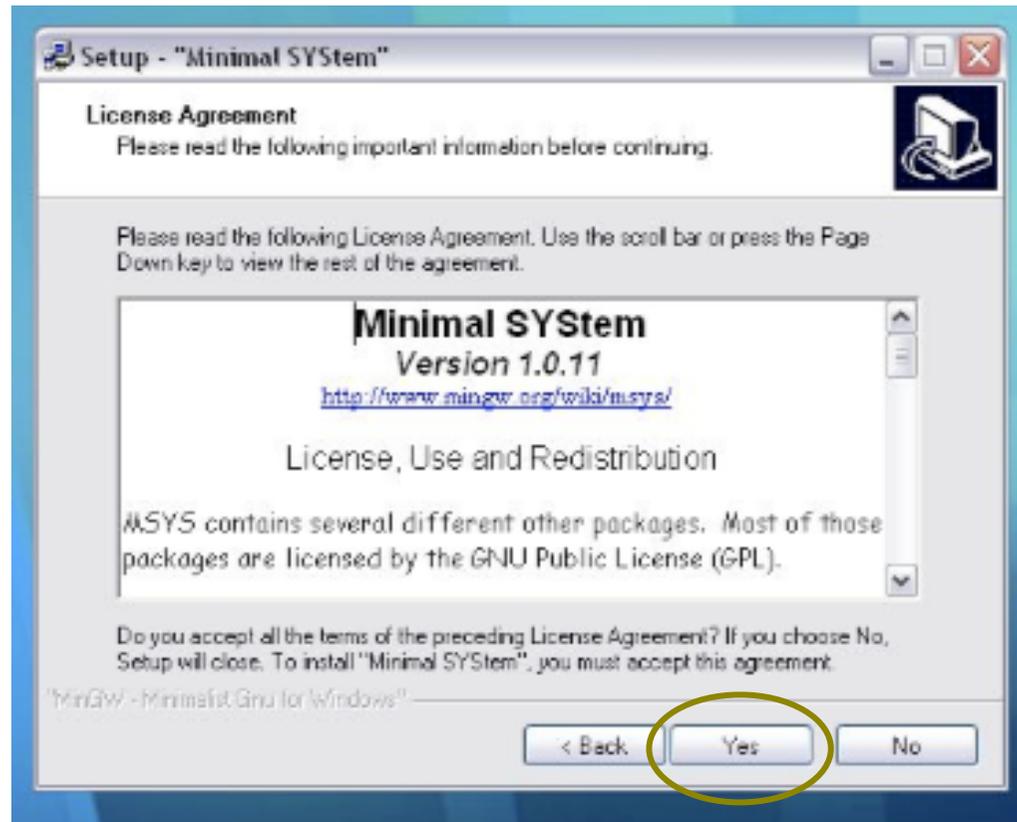
A tested version is available on:

[http://www.ing.unitn.it/~cordano/geotop\\_downloads/windows\\_compilers/](http://www.ing.unitn.it/~cordano/geotop_downloads/windows_compilers/)

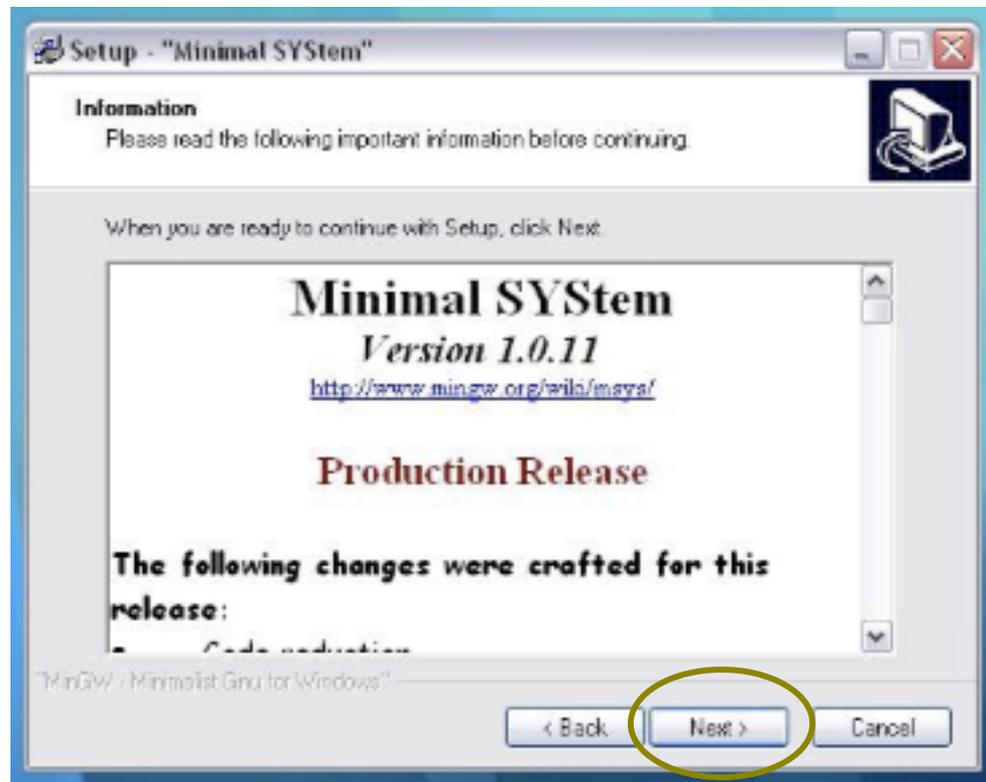
- Execute MSYS.exe:



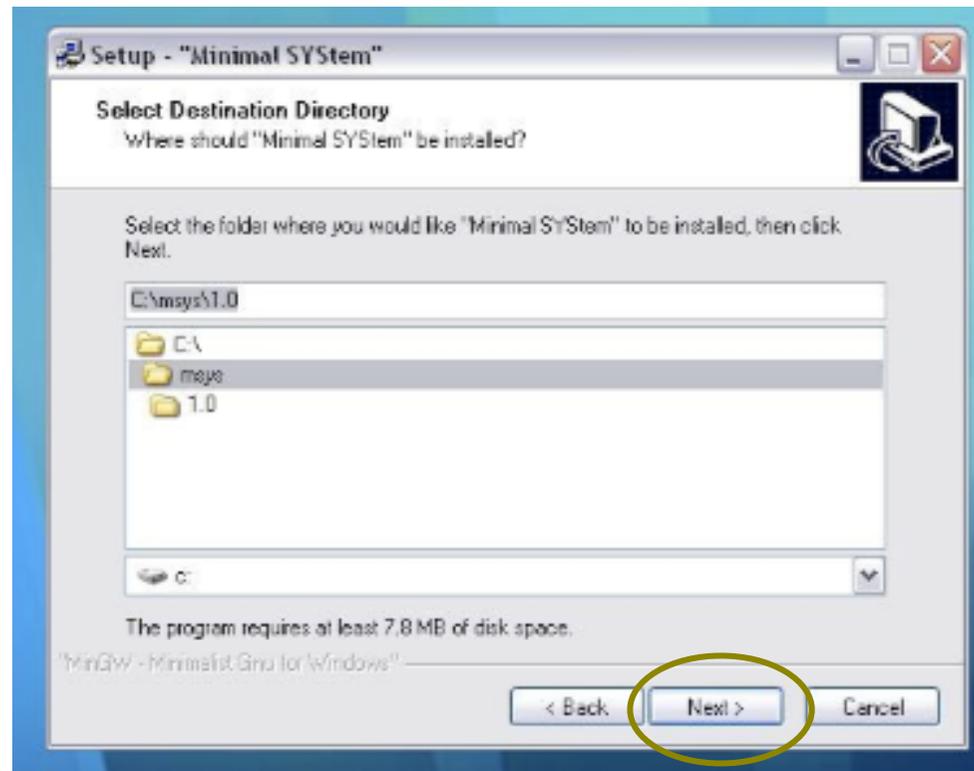
To install MSYS, “Minimal SYStem”:



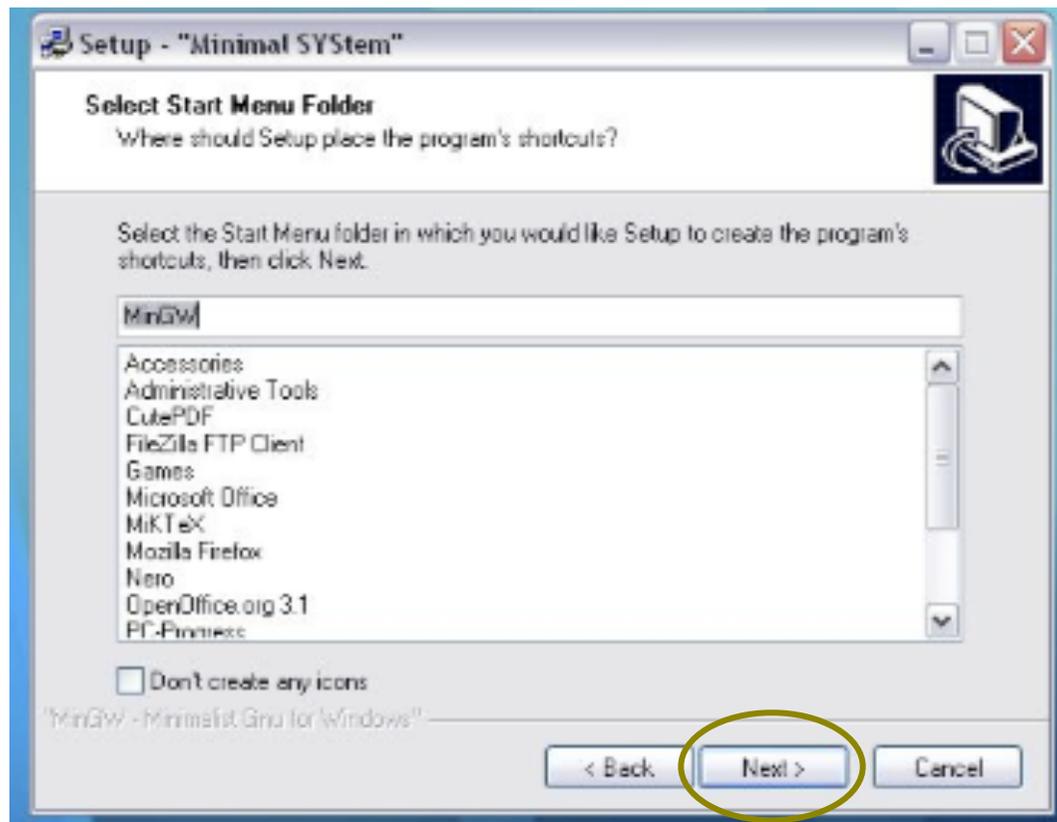
To install MSYS, “Minimal SYStem”:



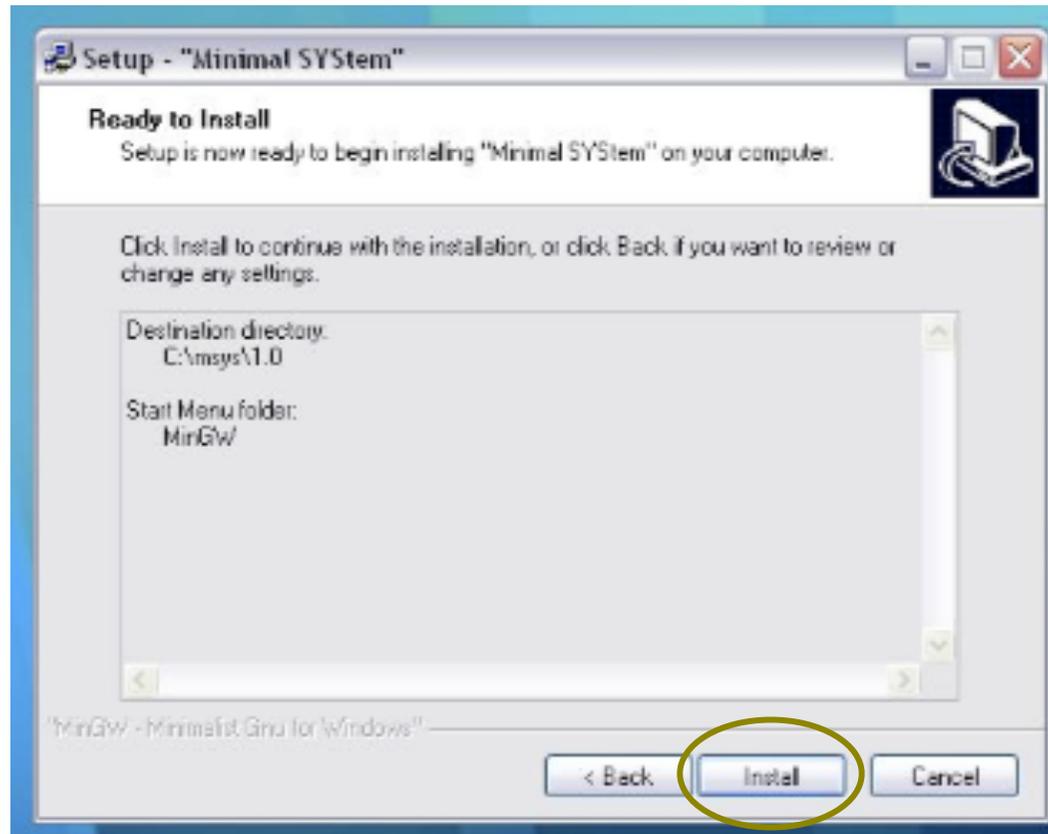
To install MSYS, “Minimal SYStem”:



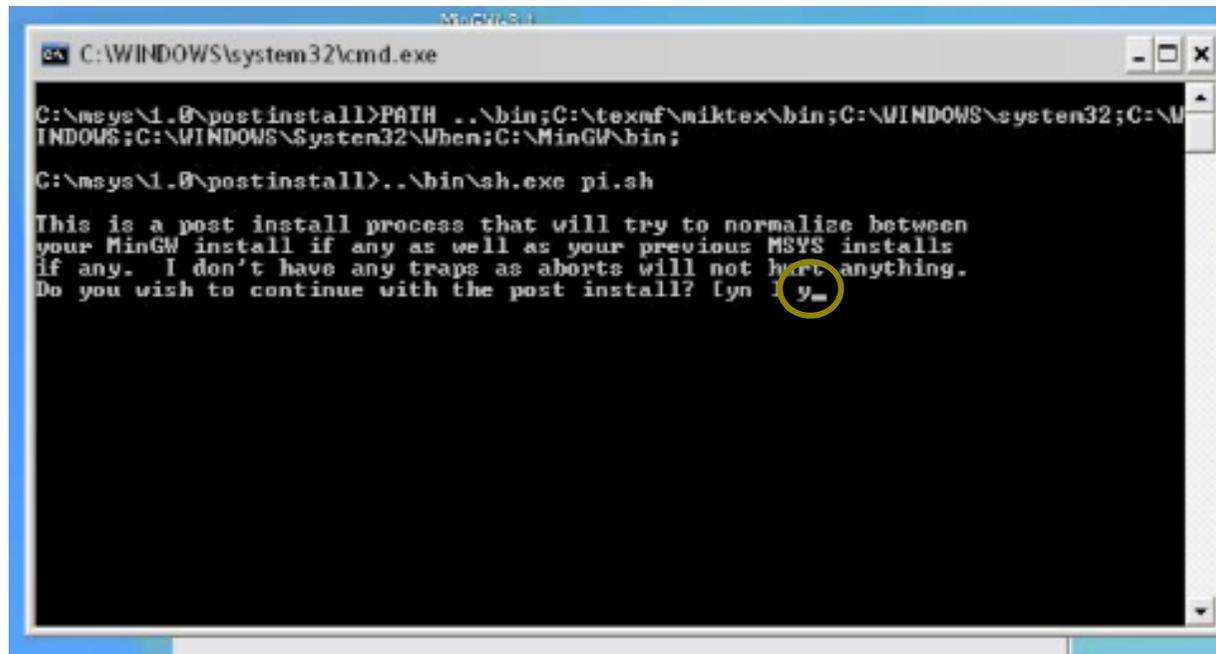
To install MSYS, “Minimal SYStem”:



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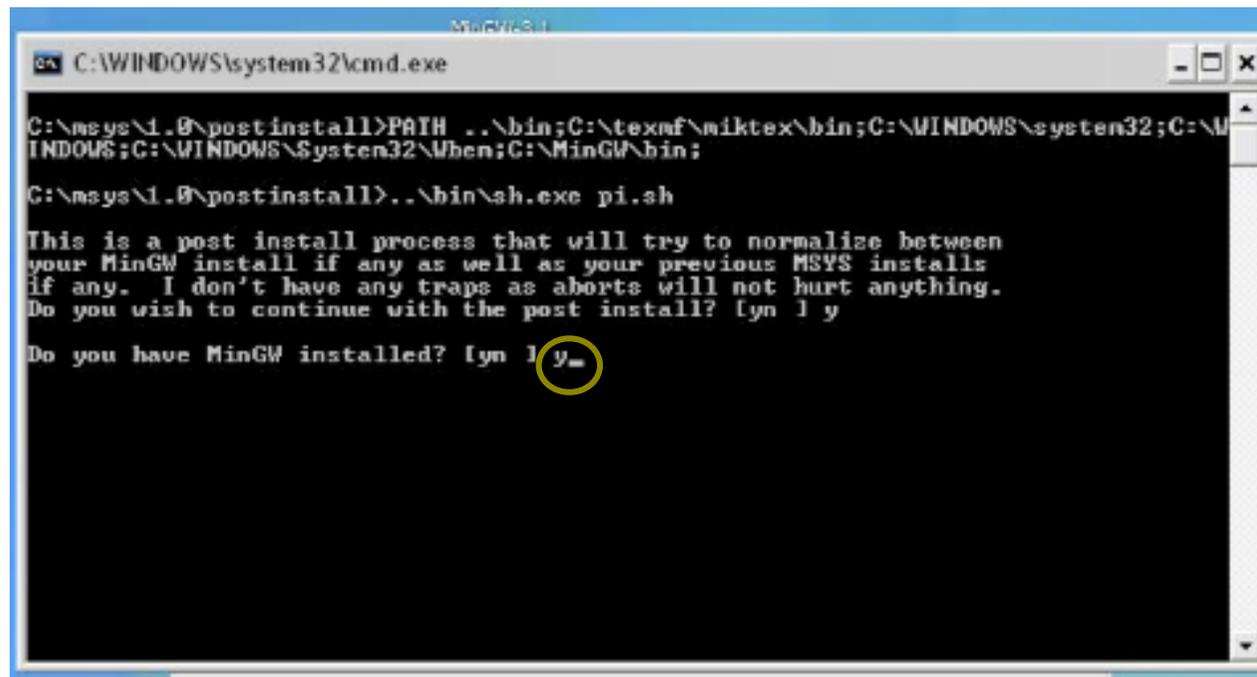


To install MSYS, “Minimal SYStem”:



```
C:\WINDOWS\system32\cmd.exe
C:\msys\1.0\postinstall>PATH ..\bin;C:\texmf\miktex\bin;C:\WINDOWS\system32;C:\MINDOWS;C:\WINDOWS\system32\Wben;C:\MinGW\bin;
C:\msys\1.0\postinstall>..\bin\sh.exe pi.sh
This is a post install process that will try to normalize between
your MinGW install if any as well as your previous MSYS installs
if any. I don't have any traps as aborts will not hurt anything.
Do you wish to continue with the post install? [yn] y_
```

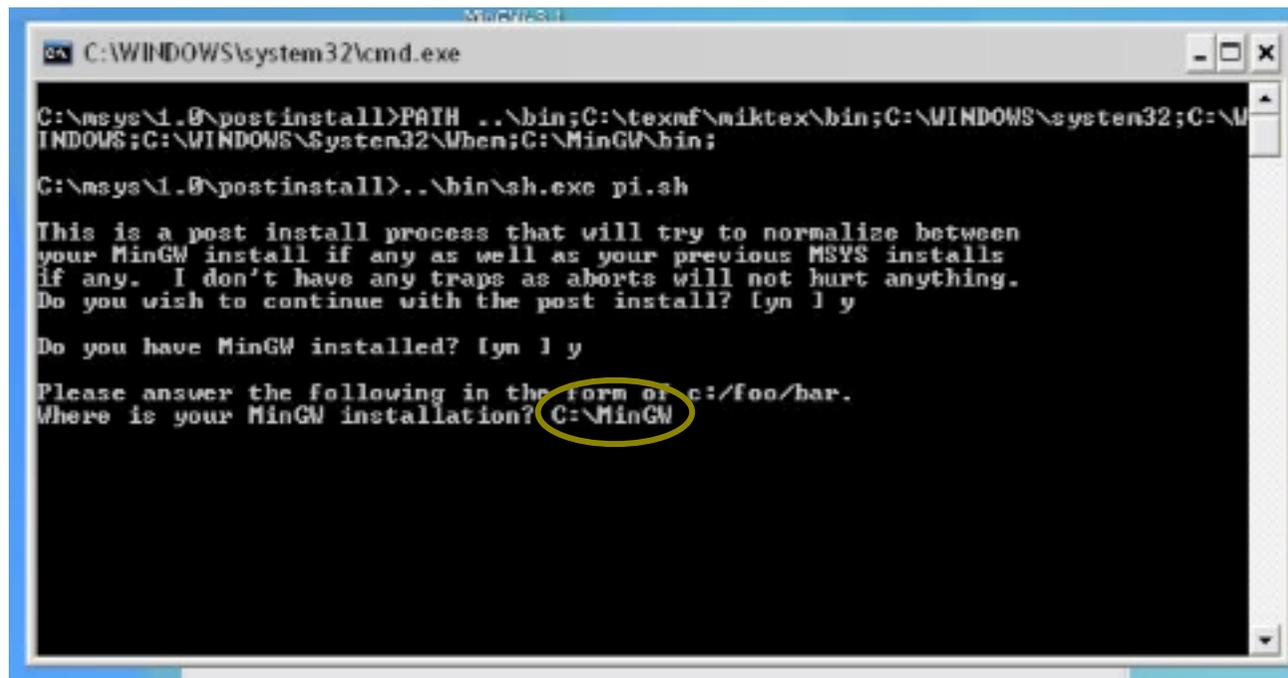
To install MSYS, “Minimal SYStem”:



```
C:\WINDOWS\system32\cmd.exe
C:\msys\1.0\postinstall>PATH ..\bin;C:\texmf\miktex\bin;C:\WINDOWS\system32;C:\W
INDOWS;C:\WINDOWS\system32\Wbem;C:\MinGW\bin;
C:\msys\1.0\postinstall>..\bin\sh.exe pi.sh
This is a post install process that will try to normalize between
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if any. I don't have any traps as aborts will not hurt anything.
Do you wish to continue with the post install? [yn] y
Do you have MinGW installed? [yn] y_
```

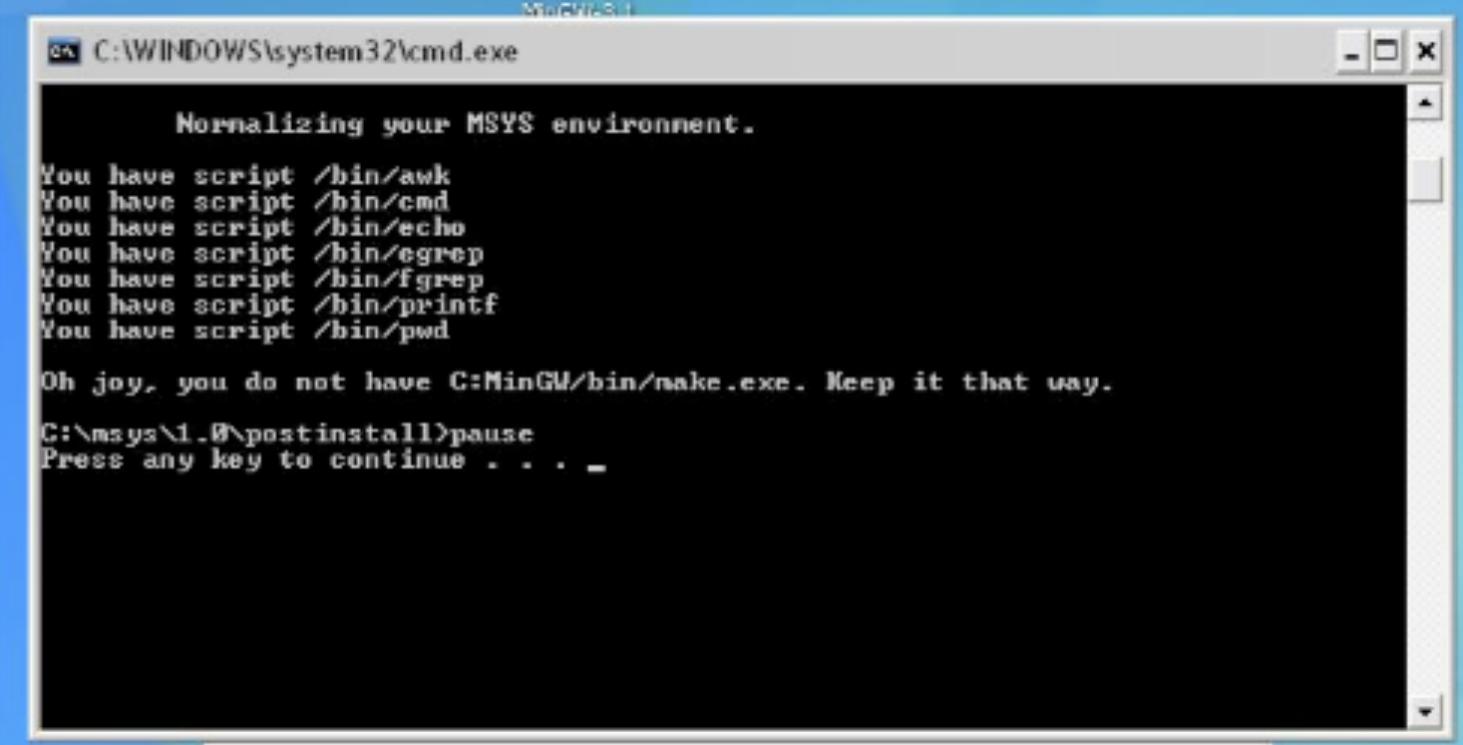
To install MSYS, “Minimal SYStem”:

Now it will ask for the directory where MinGW was installed to



```
C:\WINDOWS\system32\cmd.exe
C:\msys\1.0\postinstall>PATH ..\bin;C:\texmf\miktex\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\Wbem;C:\MinGW\bin;
C:\msys\1.0\postinstall>..\bin\sh.exe pi.sh
This is a post install process that will try to normalize between
your MinGW install if any as well as your previous MSYS installs
if any. I don't have any traps as aborts will not hurt anything.
Do you wish to continue with the post install? [yn] y
Do you have MinGW installed? [yn] y
Please answer the following in the form of c:/foo/bar.
Where is your MinGW installation? C:\MinGW
```

To install MSYS, “Minimal SYStem”:

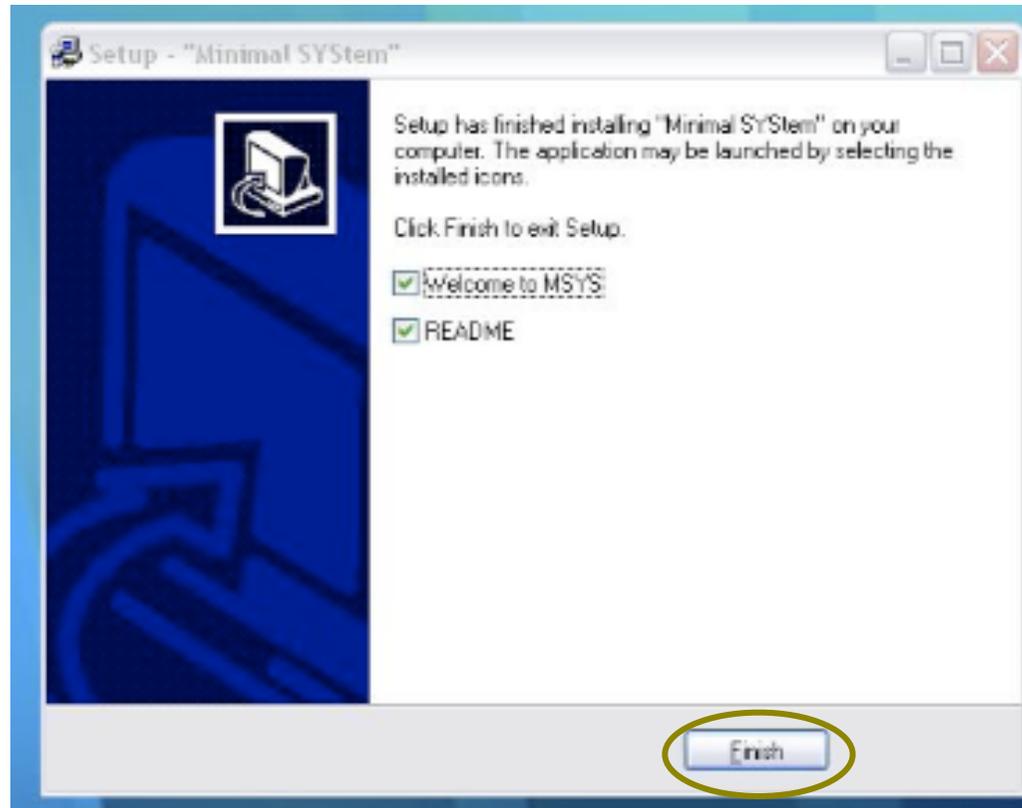


```
MinGW64
C:\WINDOWS\system32\cmd.exe

Normalizing your MSYS environment.
You have script /bin/awk
You have script /bin/cmd
You have script /bin/echo
You have script /bin/egrep
You have script /bin/fgrep
You have script /bin/printf
You have script /bin/pwd

Oh joy, you do not have C:\MinGW\bin\nmake.exe. Keep it that way.
C:\msys\1.0\postinstall>pause
Press any key to continue . . . _
```

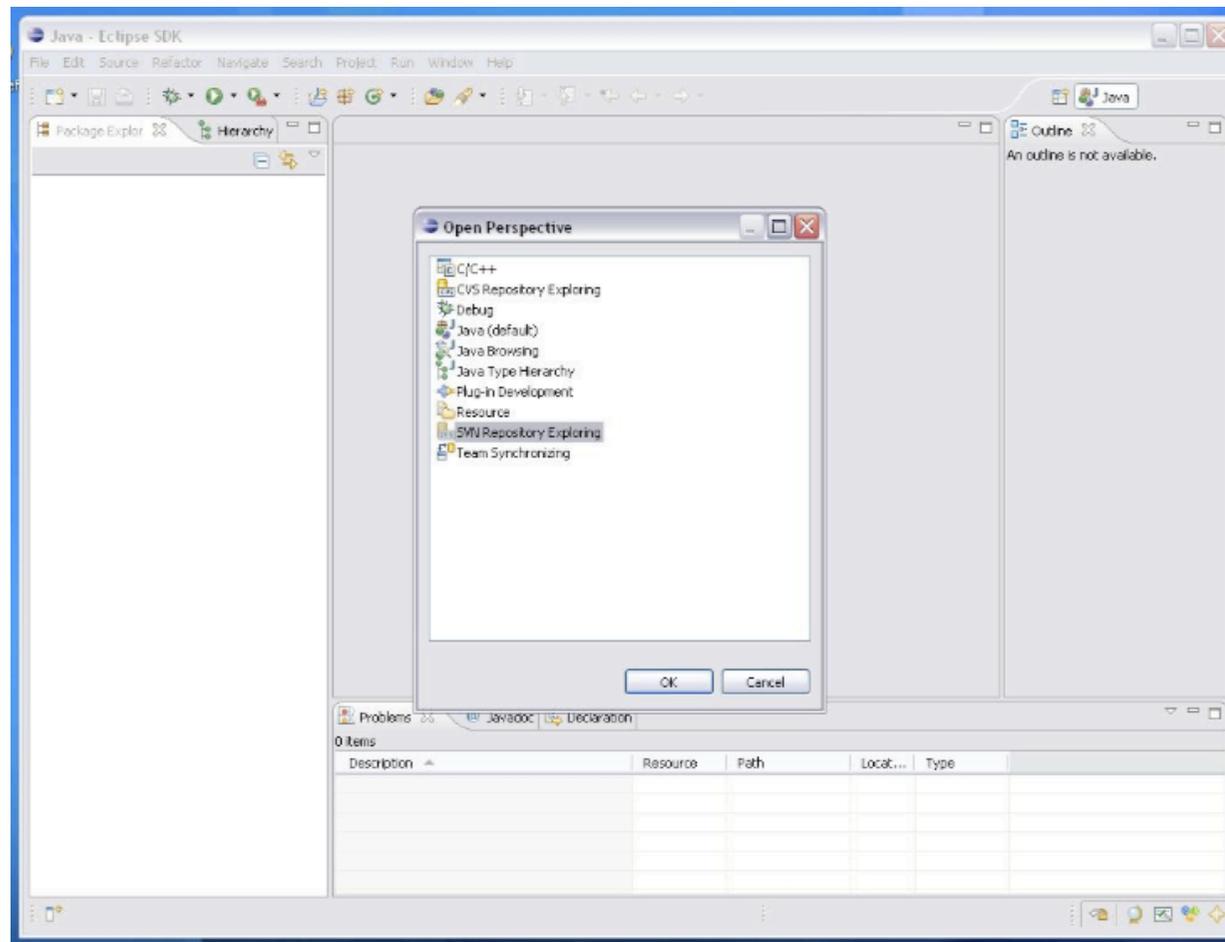
To install MSYS, “Minimal SYStem”:



Download from SVN GEOTop code

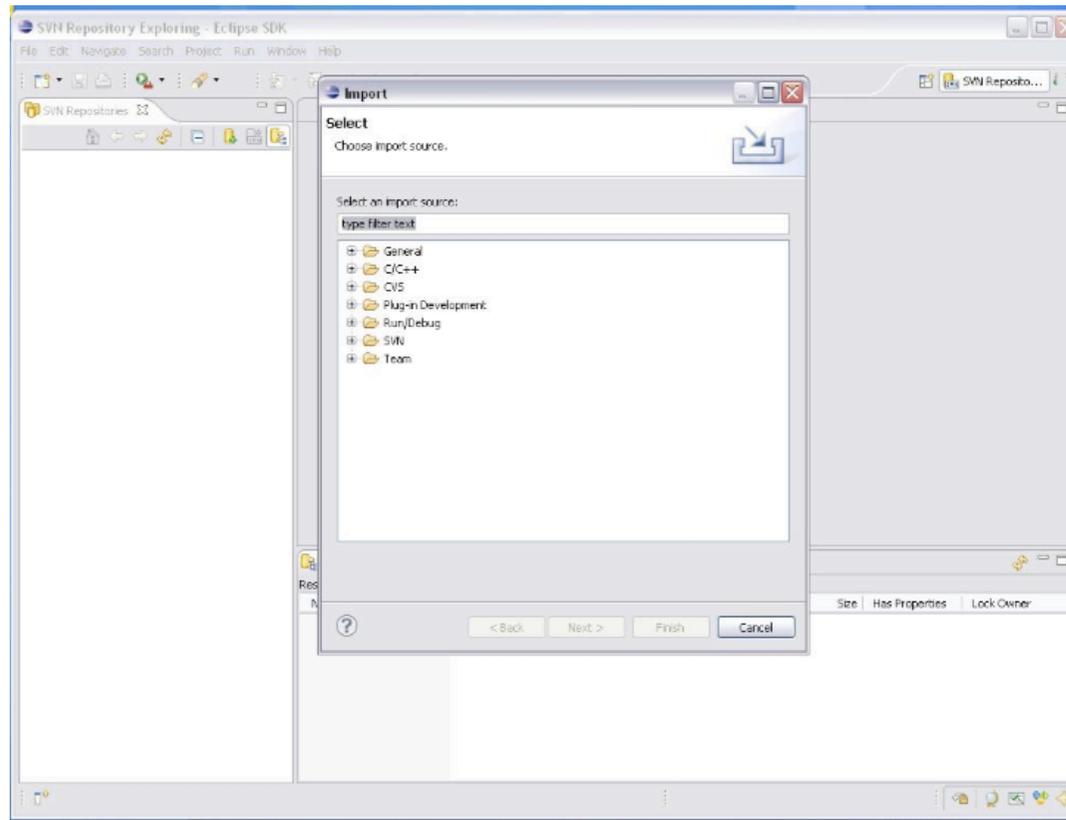
## Download from SVN GEOTop code: Set prospective

- In eclipse, from Window → Open prospective → Other → SVN Repository Exploring

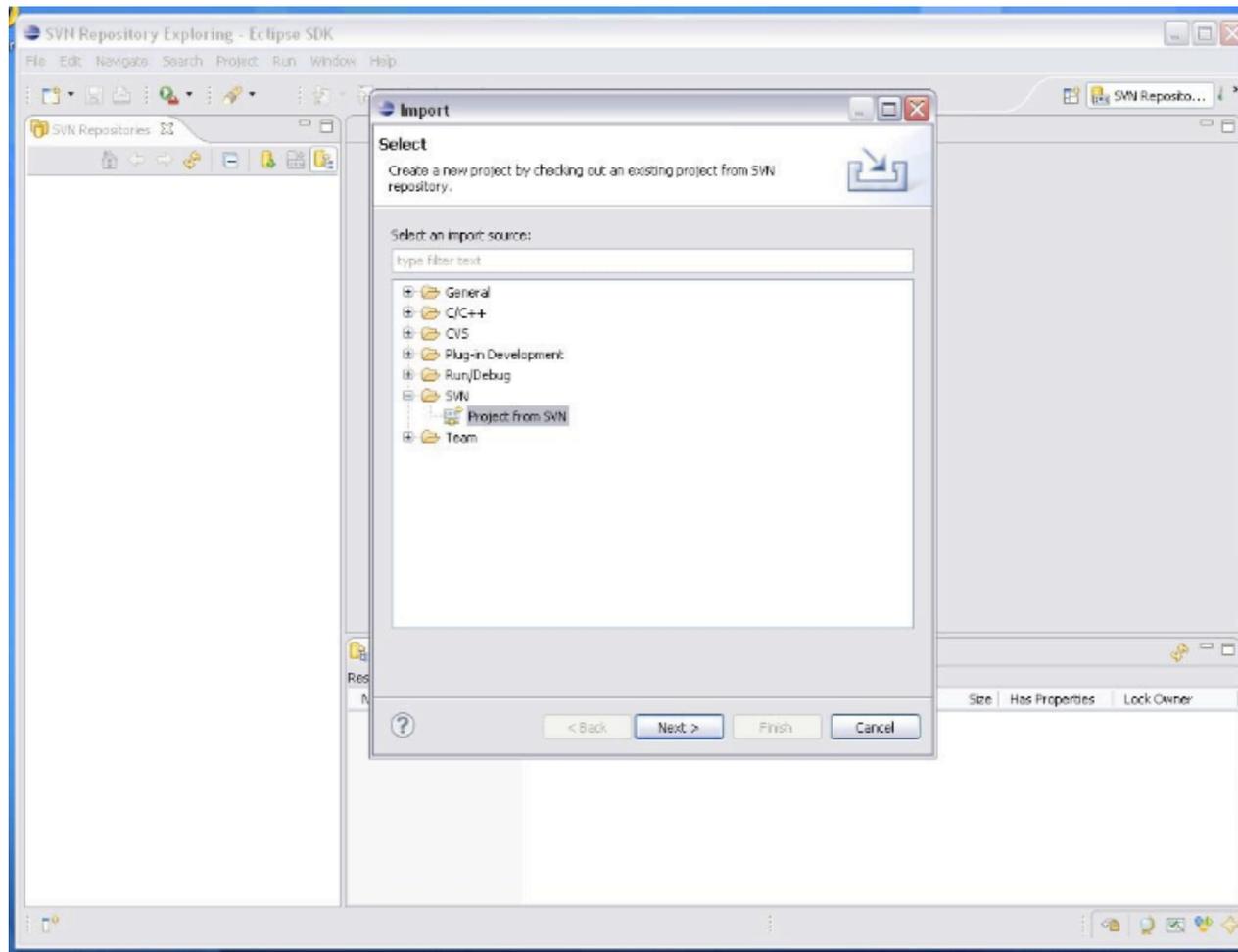


## Download from SVN GEOTop code

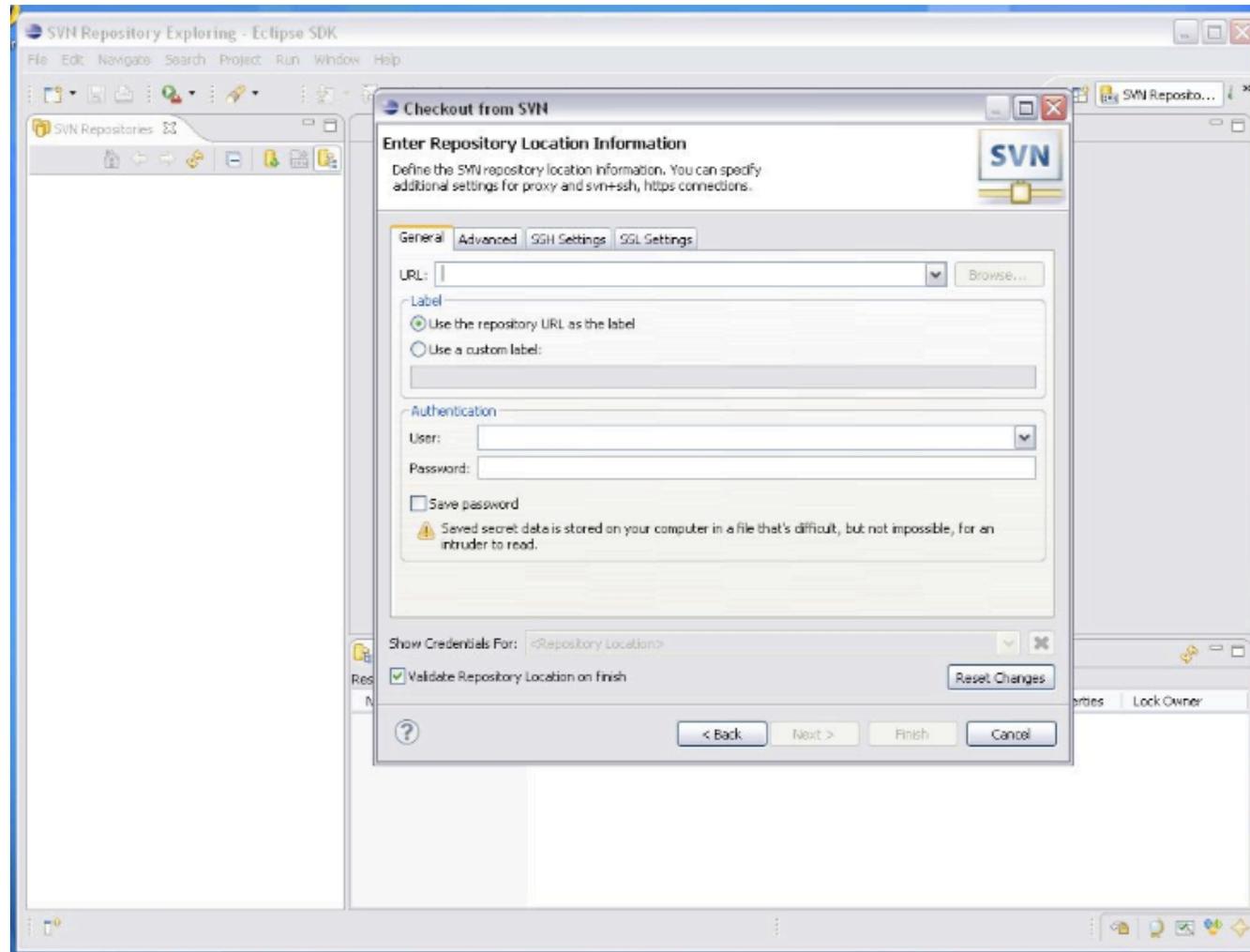
- In eclipse, from File → Import



## Download from SVN GEOTop code

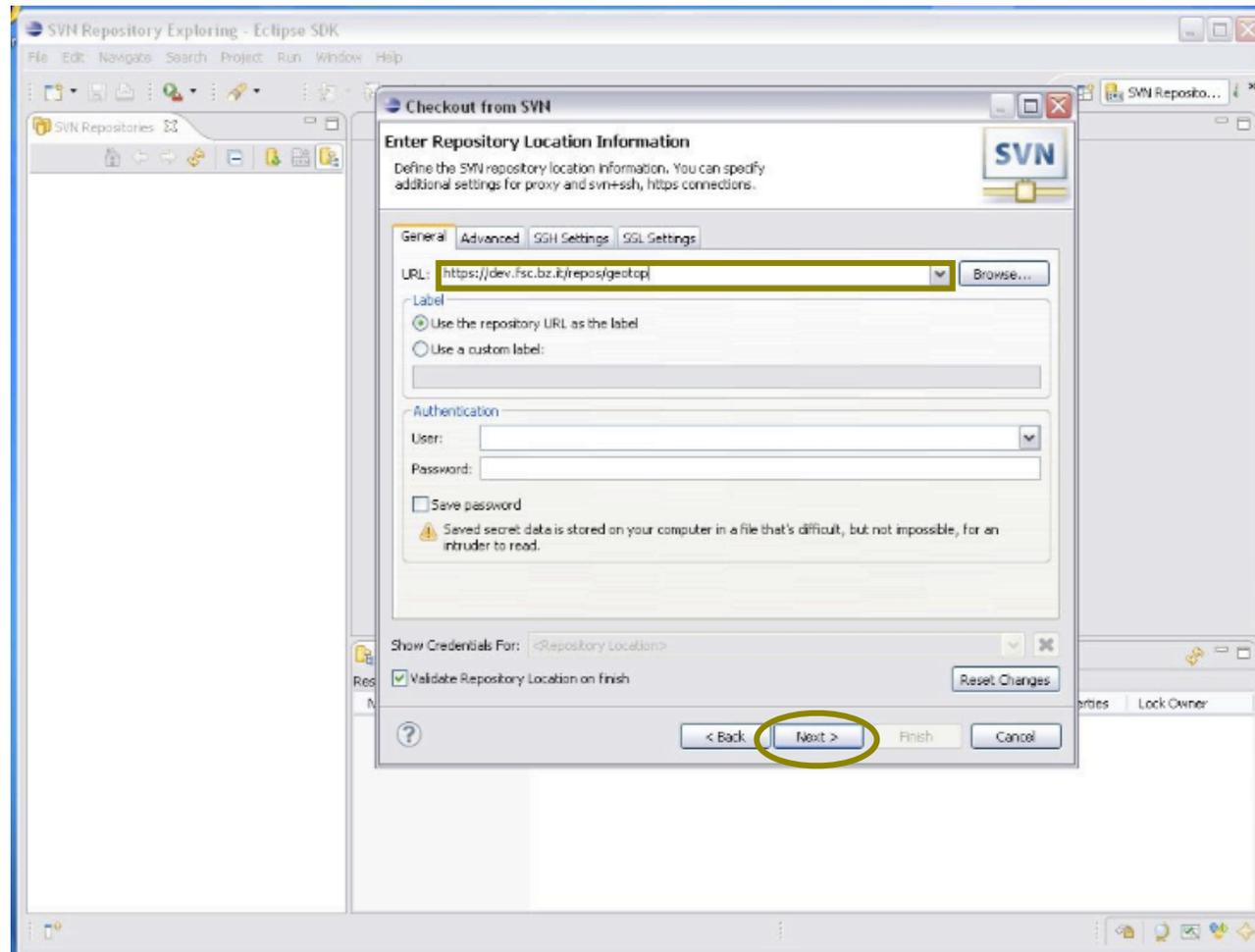


## Download from SVN GEOTop code



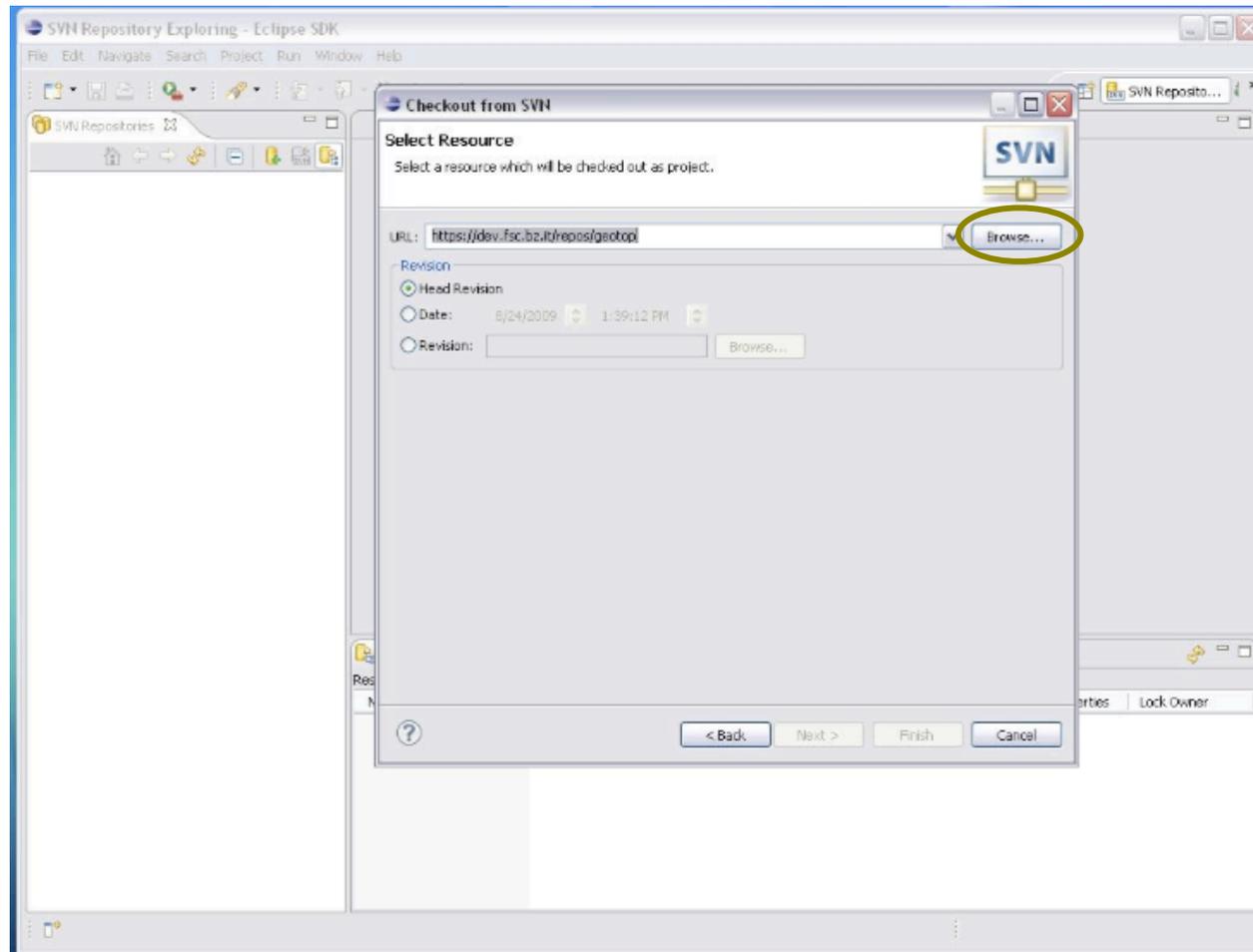
## Download from SVN GEOTop code

- Add the Url: <https://dev.fsc.bz.it/repos/geotop>



## Download from SVN GEOTop code

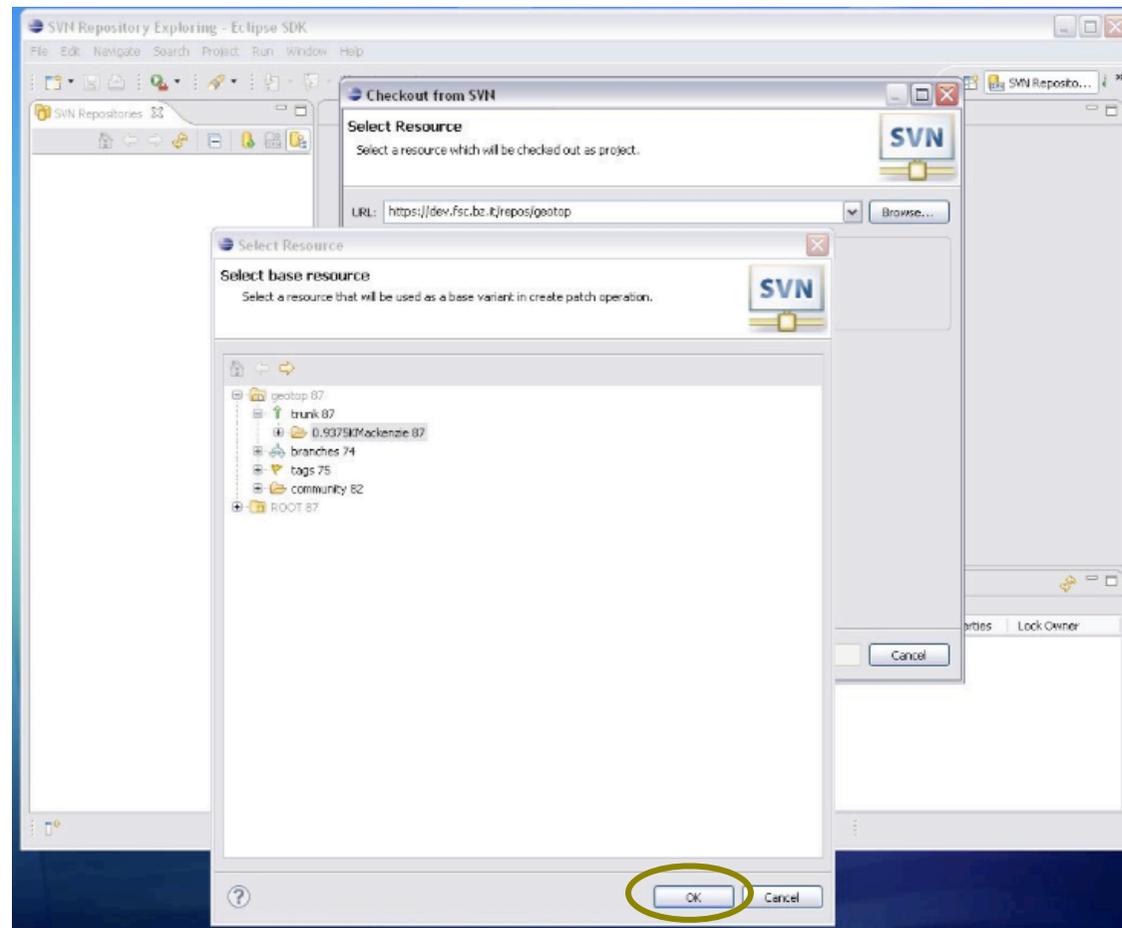
- Click on Browse...



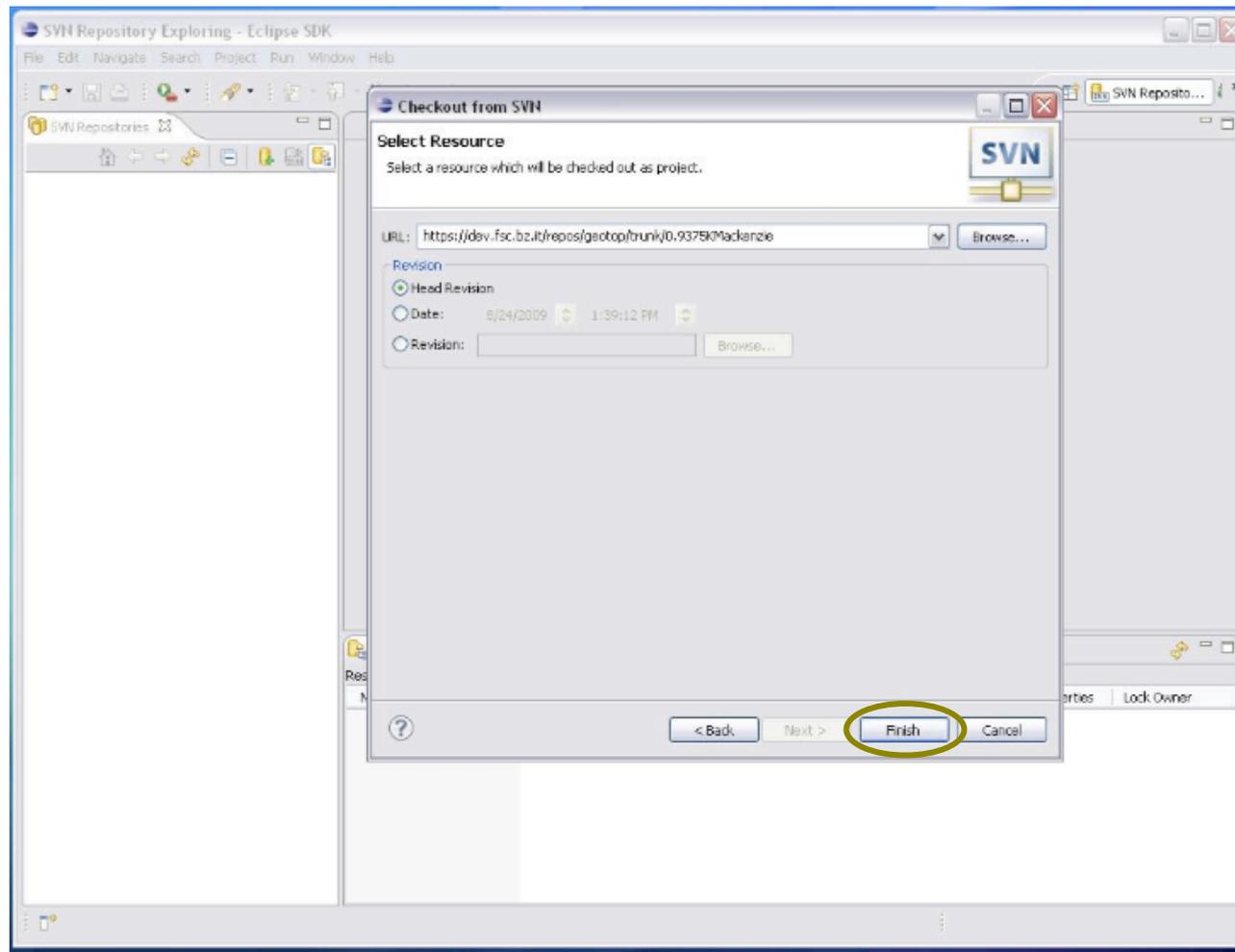
## Download from SVN GEOTop code

- From geotop ## → trunk ## → select 0.9375KMackenzie ##

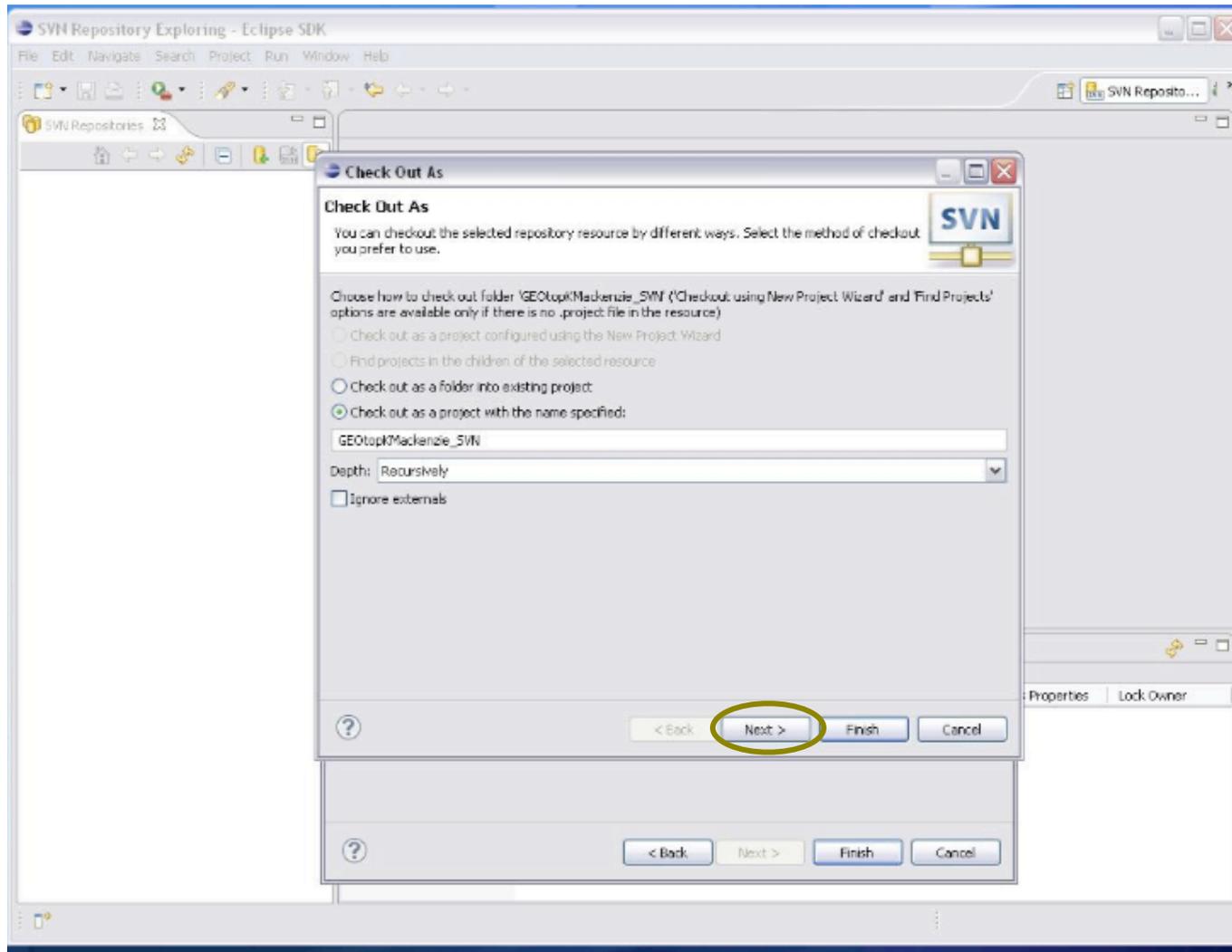
## is the current version  
(87 in the example)



## Download from SVN GEOTop code

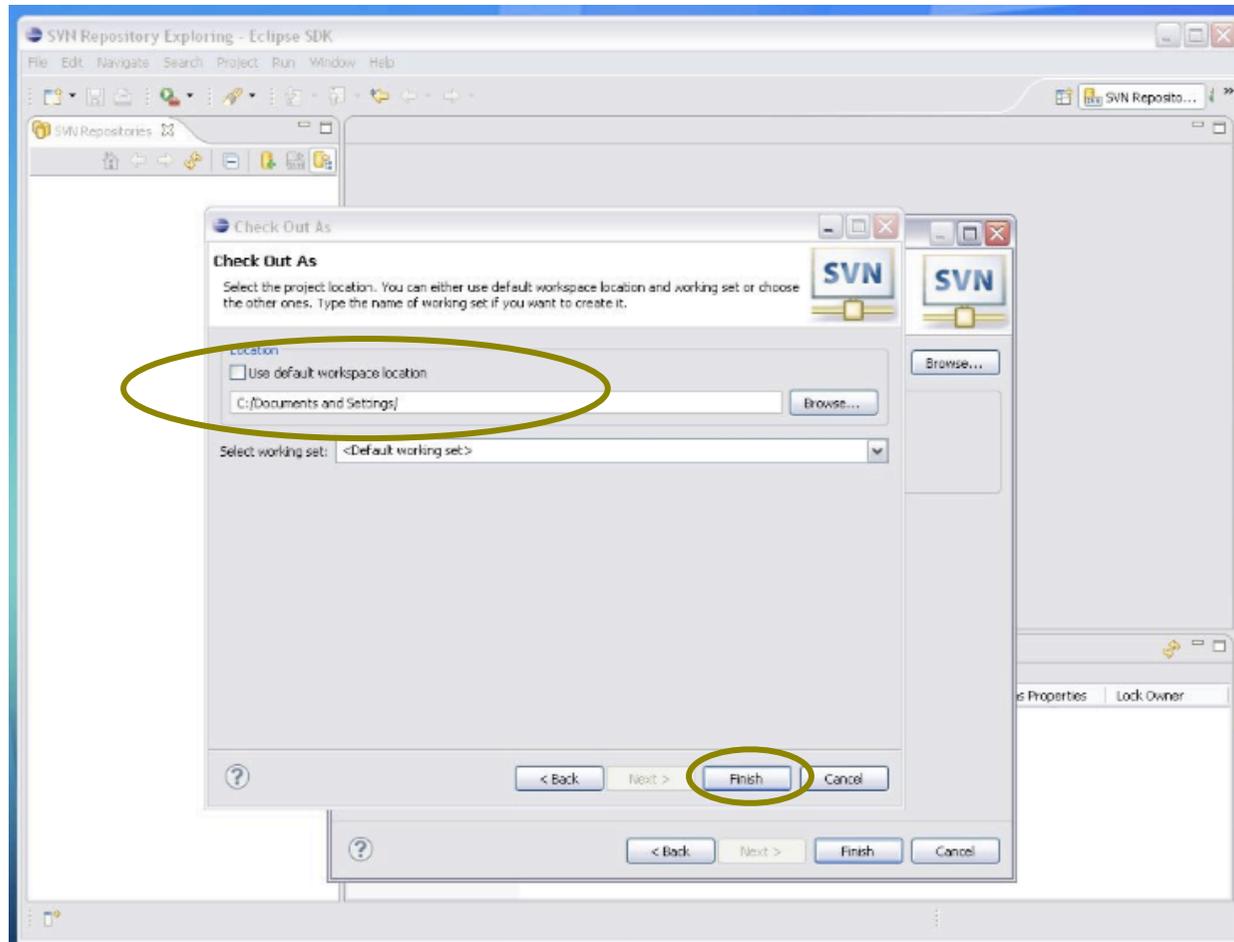


## Download from SVN GEOTop code

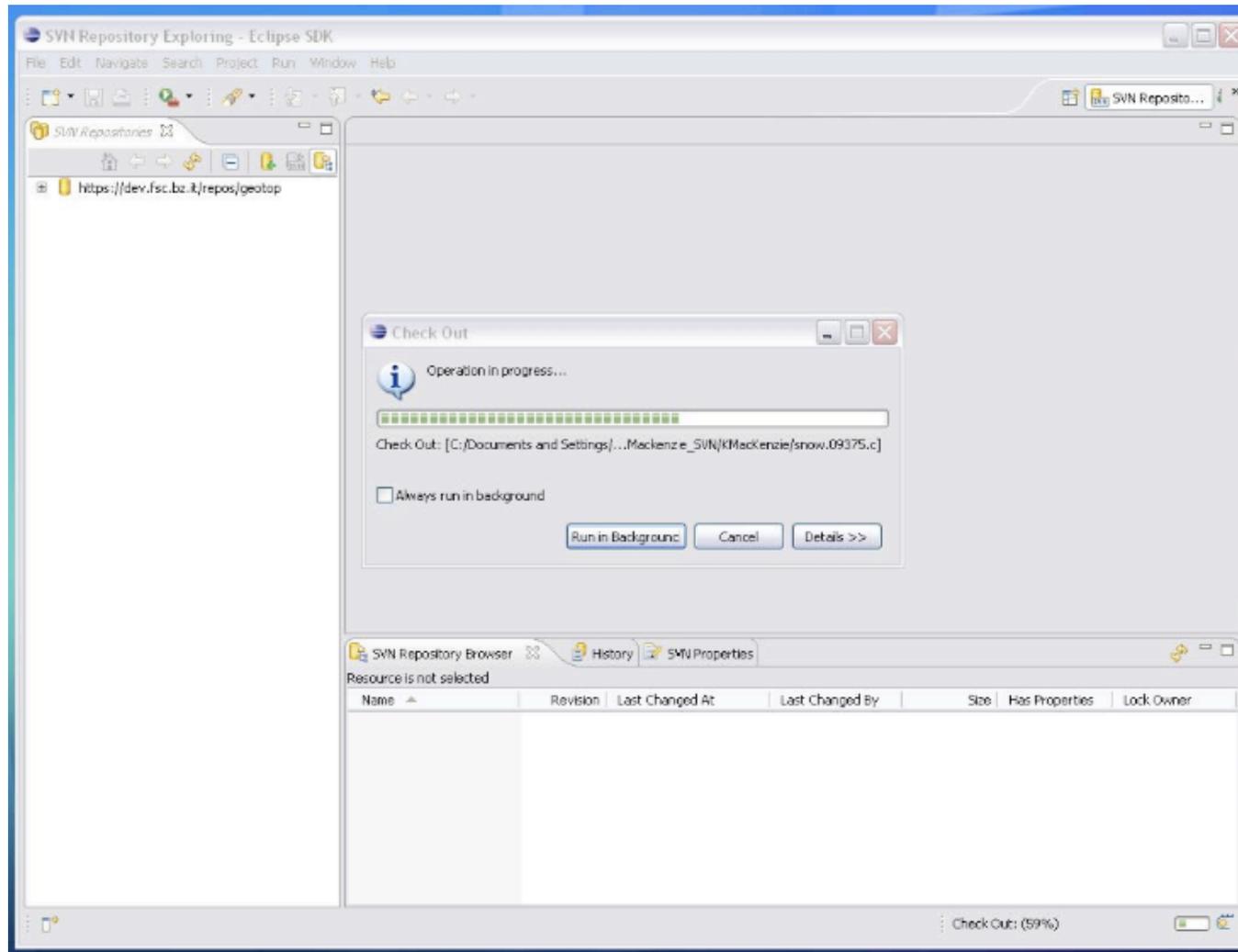


## Download from SVN GEOTop code

- Do not save in workspace location but in any other path

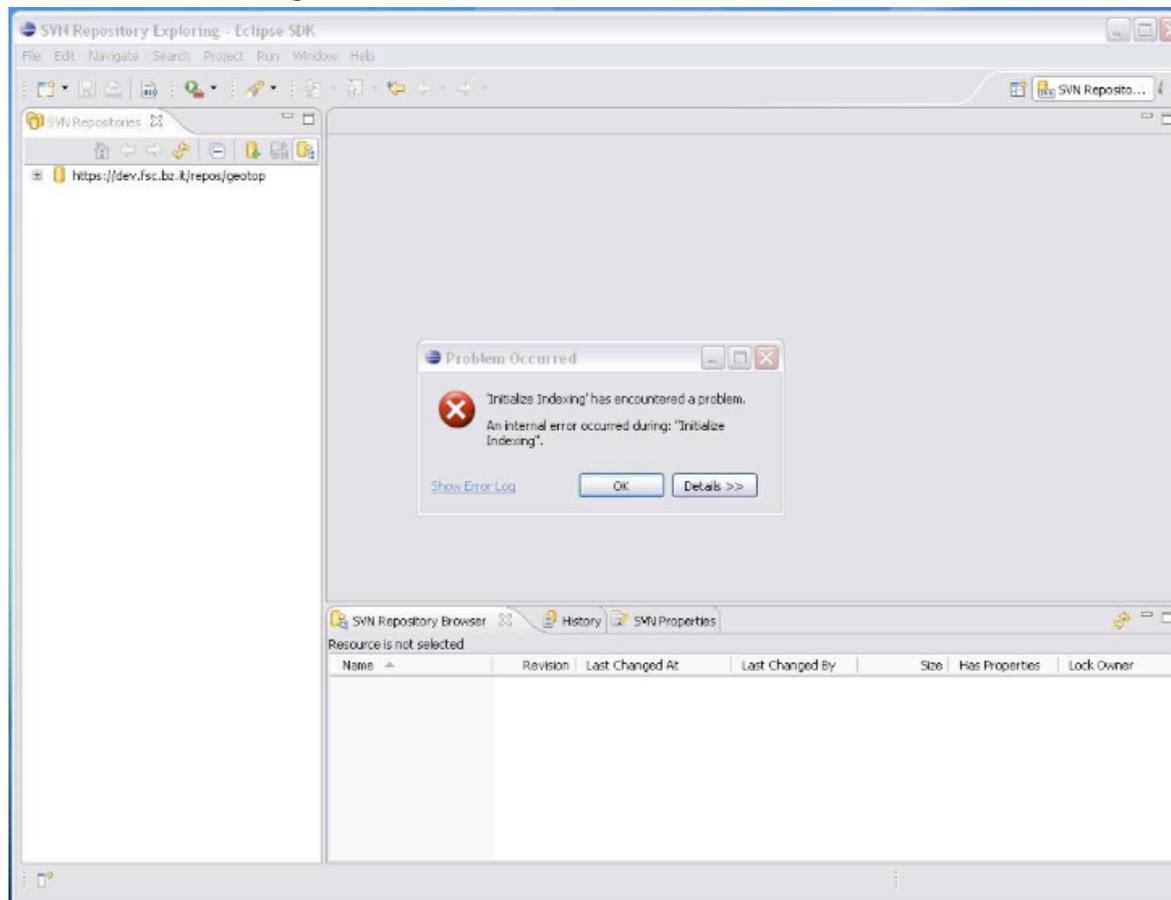


## Download from SVN GEOTop code



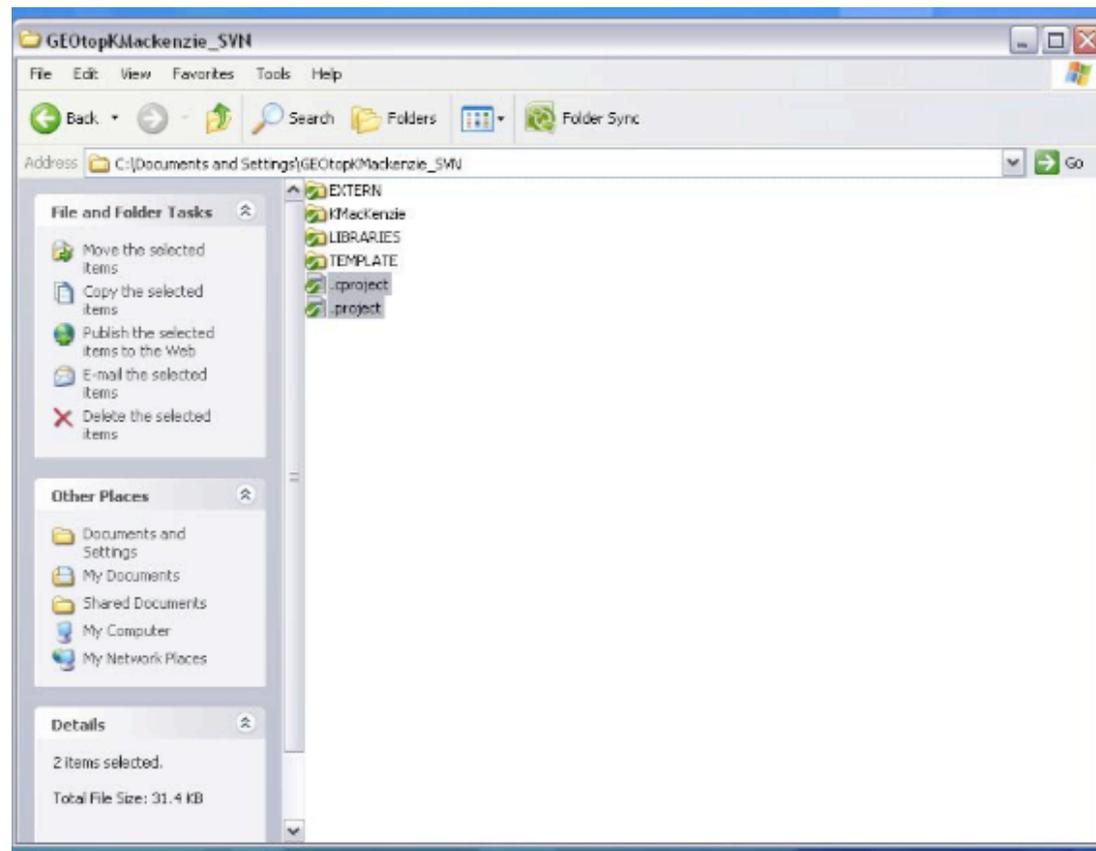
## Download from SVN GEOTop code

- This error is not a problem because now you only download the code and next you will create the c project



## Download from SVN GEOTop code

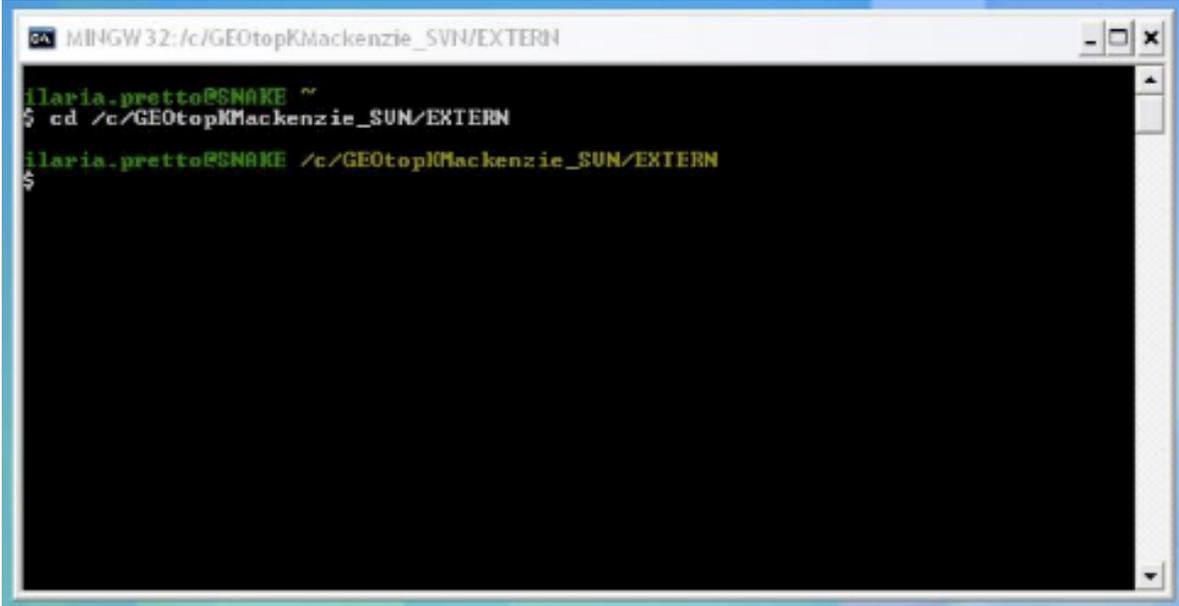
- You go in the location where you saved GEOTopKMackenzie\_SVN code and delete .cproject and .project files.



To compile the fortran file micromet\_code.f

To compile with MSYS the fortran file micromet\_code.f

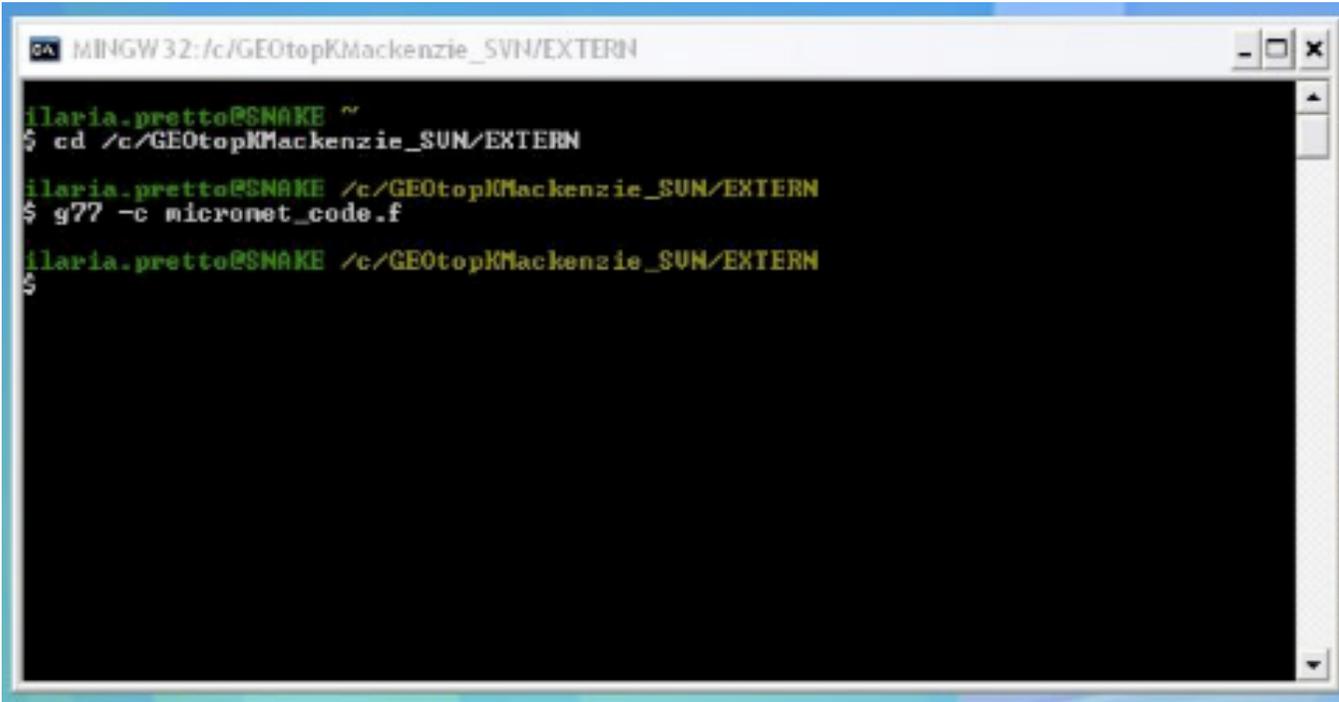
- Open MSYS terminal



```
MINGW32:/c/GEOTopKMackenzie_SVN/EXTERN
ilaria.pretto@SNAKE ~
$ cd /c/GEOTopKMackenzie_SUN/EXTERN
ilaria.pretto@SNAKE /c/GEOTopKMackenzie_SUN/EXTERN
$
```

To compile with MSYS the fortran file micromet\_code.f

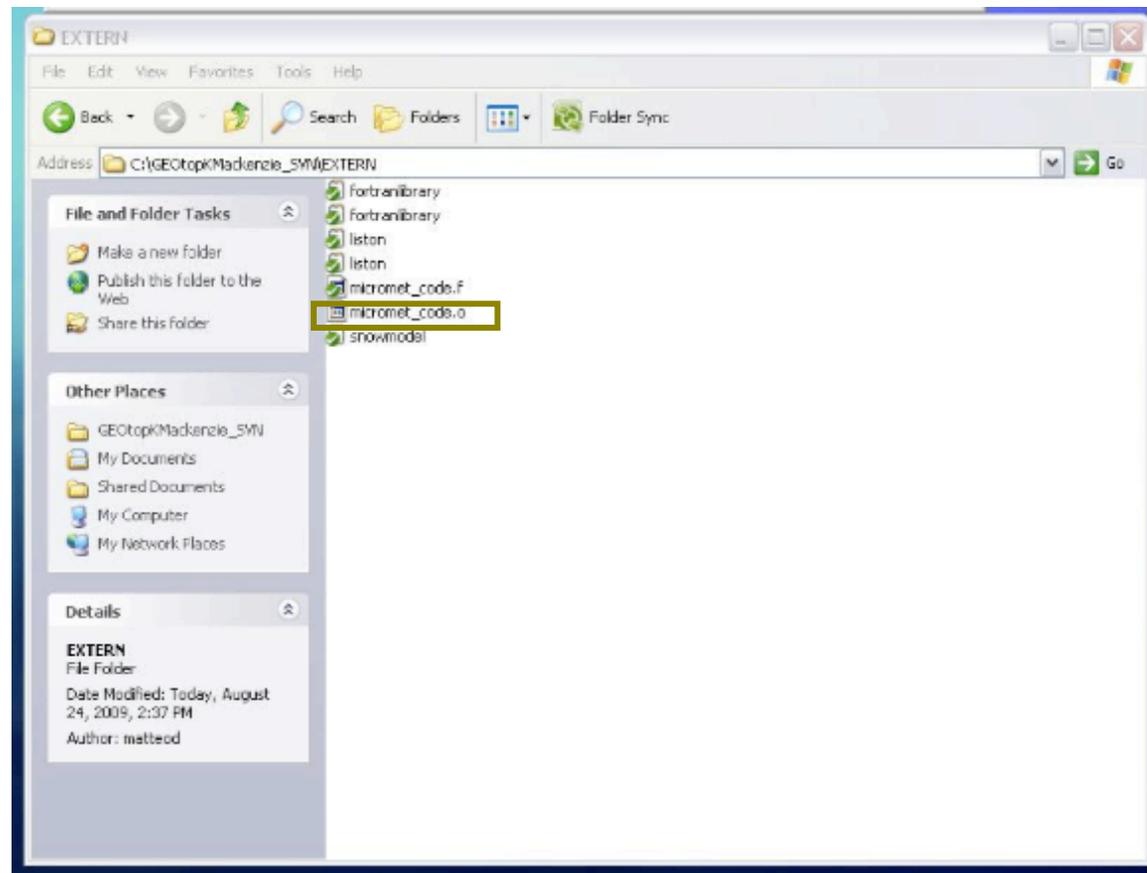
- From terminal go in GEOTopKMackenzie\_SVN/EXTERN (downloaded before):
- If GEOTopKMackenzie\_SVN/EXTERN location is in C:/ the syntax is shown down
- To compile the fortran code you write: `g77 -c micromet_code.f`



```
MINGW32:/c/GEOTopKMackenzie_SVN/EXTERN
ilaria.pretto@SNAKE ~
$ cd /c/GEOTopKMackenzie_SVN/EXTERN
ilaria.pretto@SNAKE /c/GEOTopKMackenzie_SVN/EXTERN
$ g77 -c micromet_code.f
ilaria.pretto@SNAKE /c/GEOTopKMackenzie_SVN/EXTERN
$
```

To compile with MSYS the fortran file micromet\_code.f

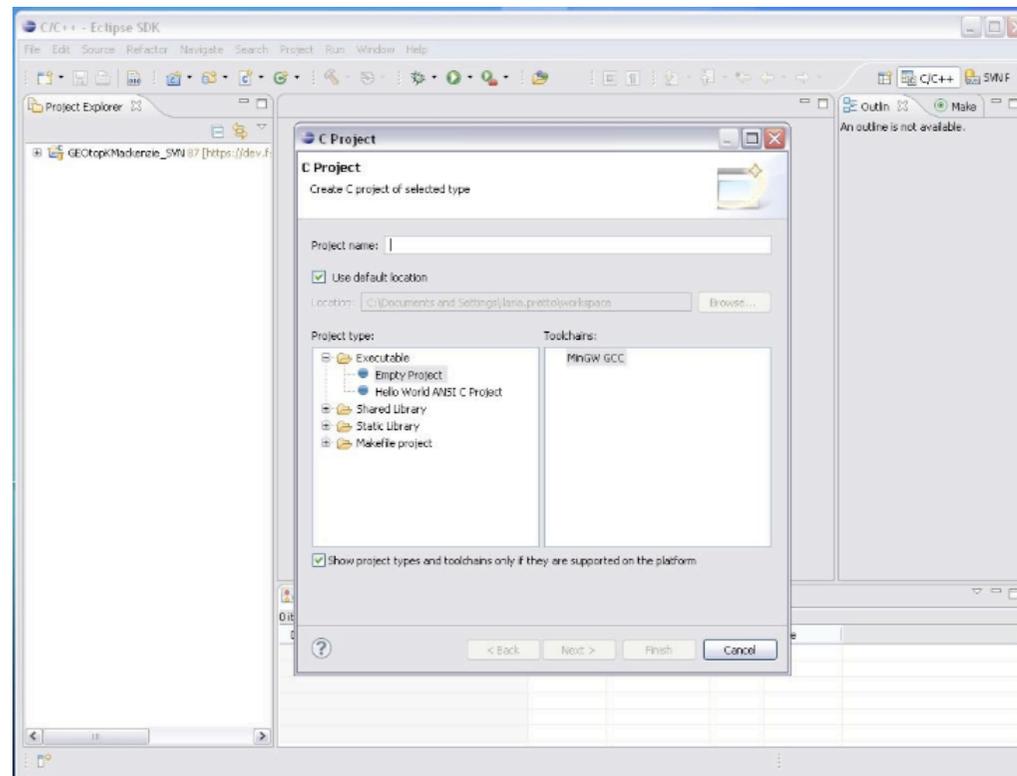
- This creates the file: micromet\_code.o



To create GEOTop c project

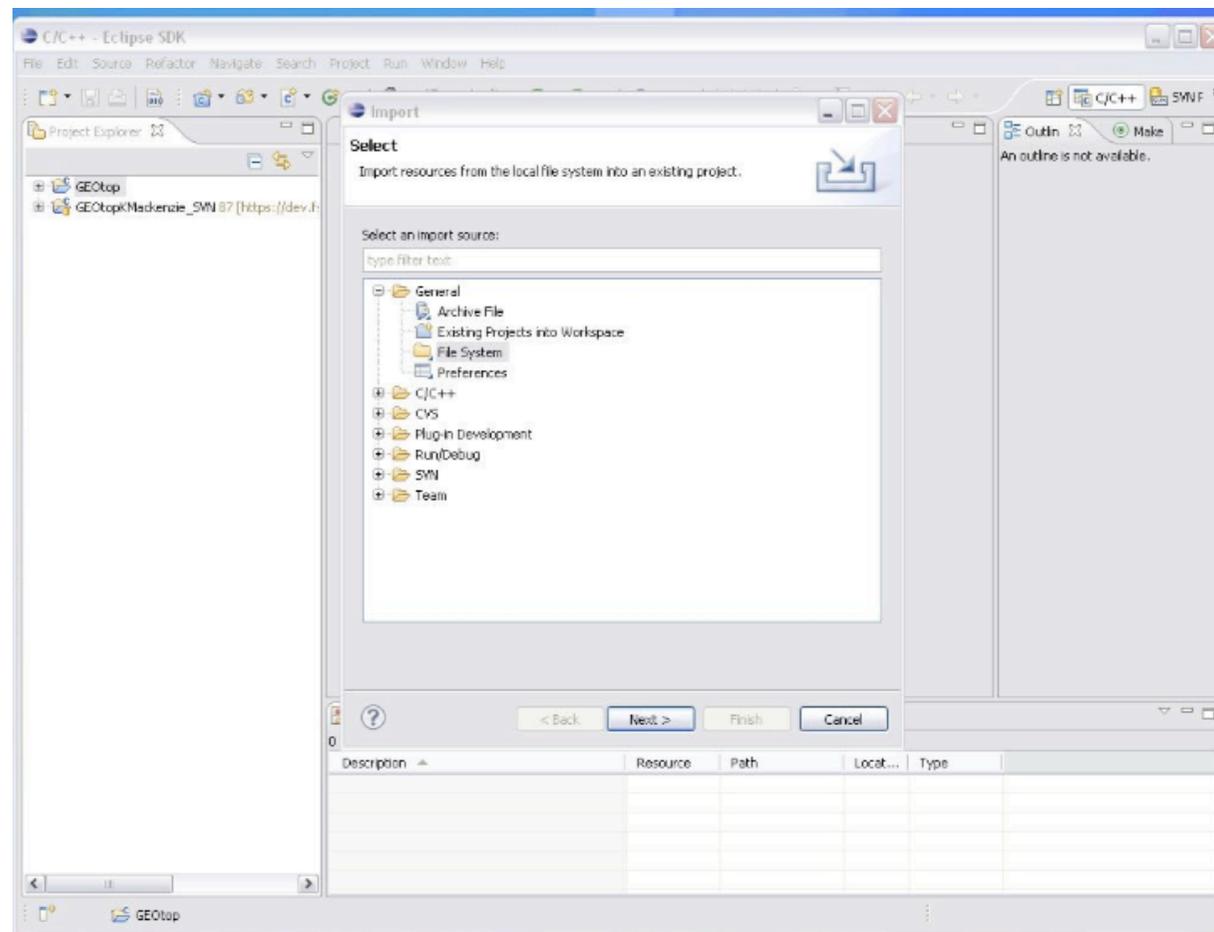
## To create GEOTop c project

- In Eclipse, window → open prospective → other → C C++ ;
- Create a new C project (I named it GEOTop) as an executable, empty project using the MinGW toolchain



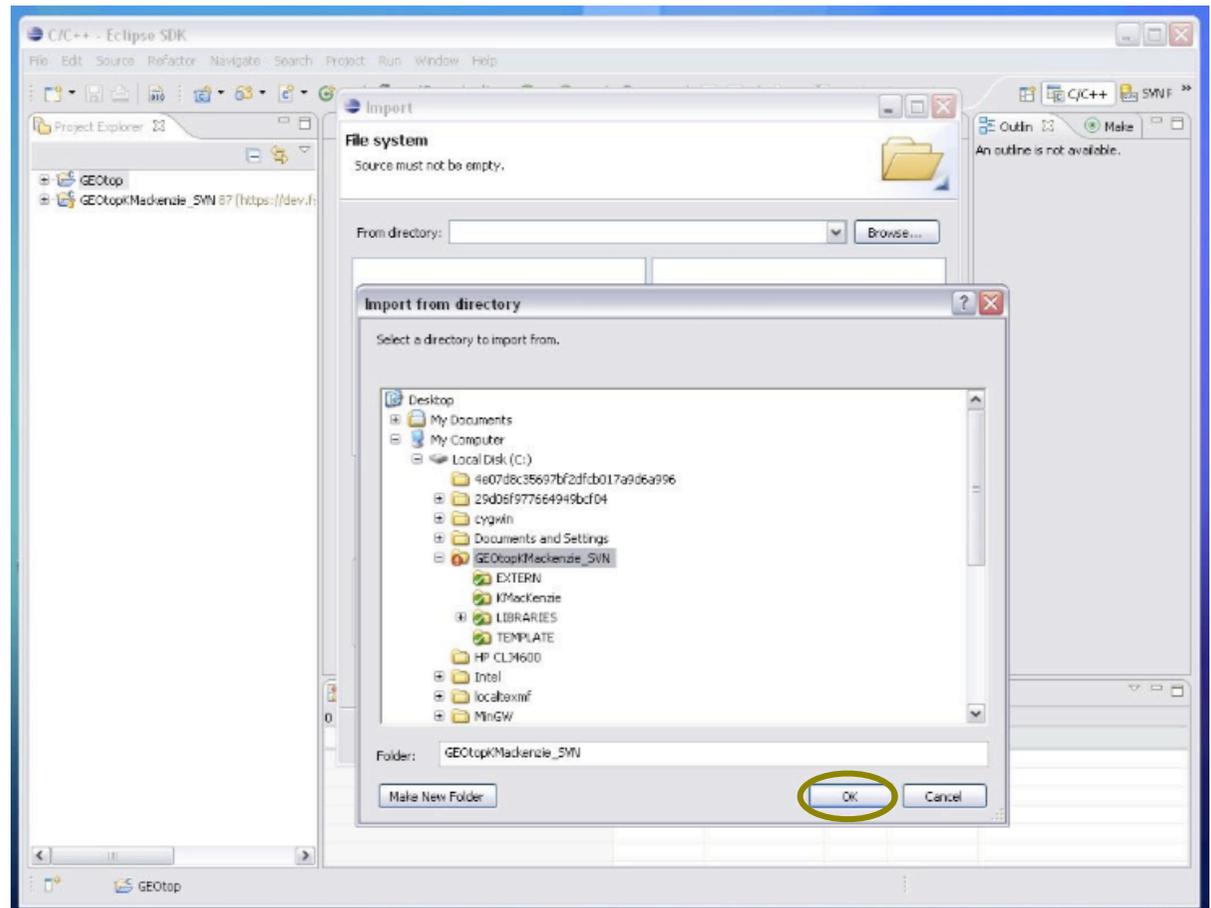
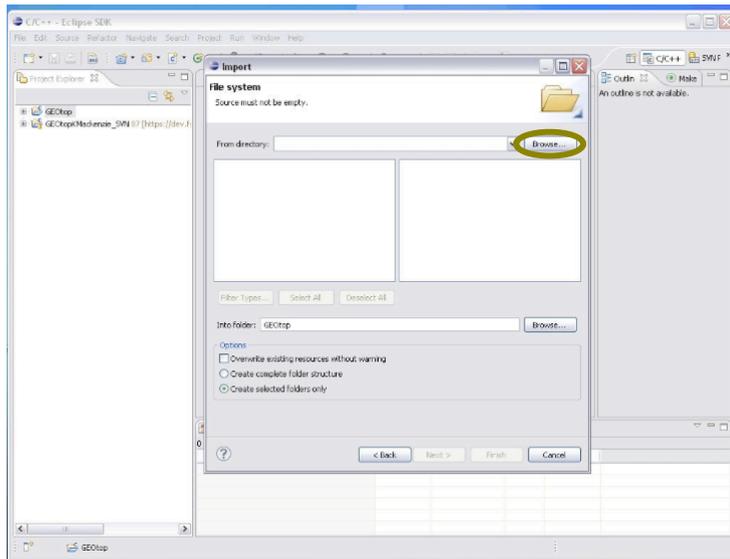
To create GEOTop c project

- Right click on the GEOTop project → select Import → General → Filesystem



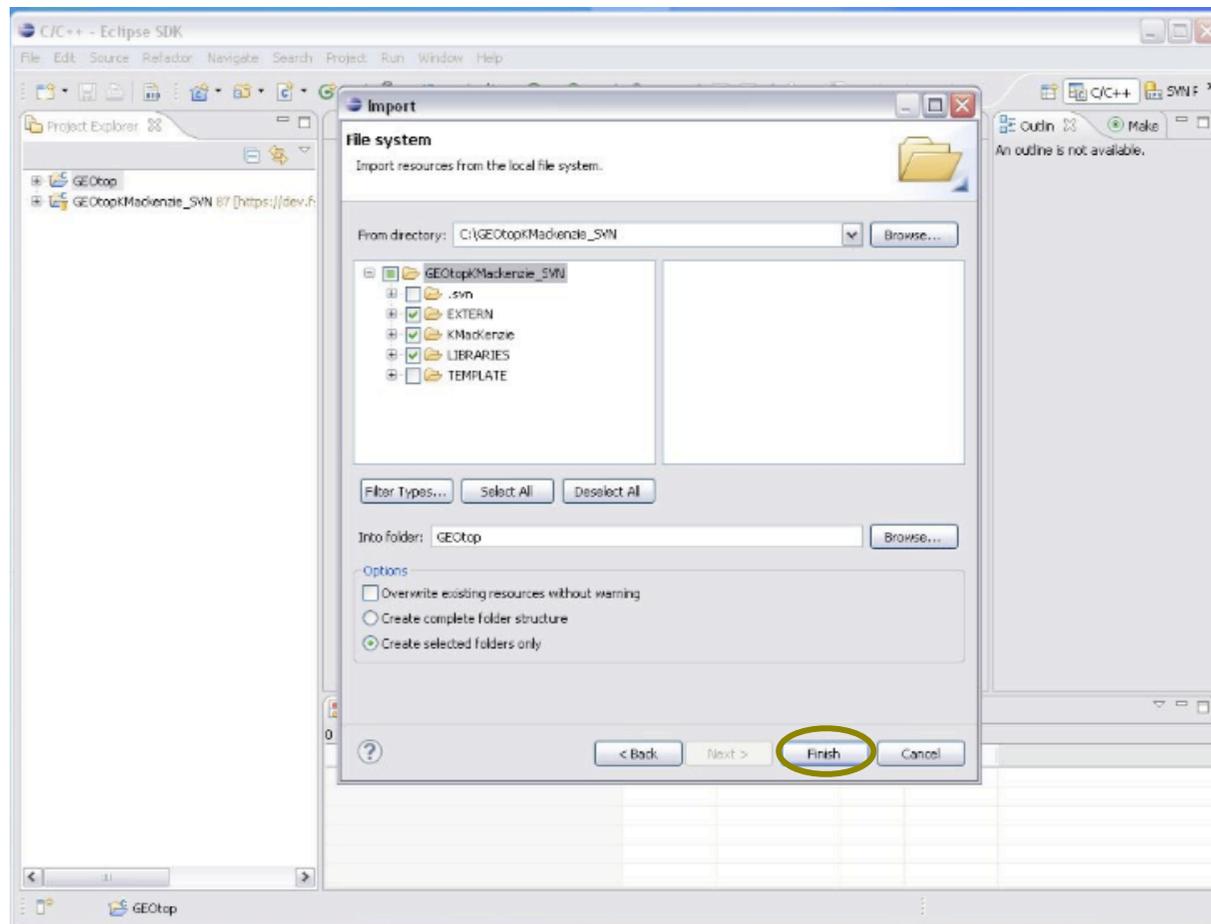
## To create GEOTop c project

- From Browse navigate to your GEOTopKMackenzie\_SVN directory



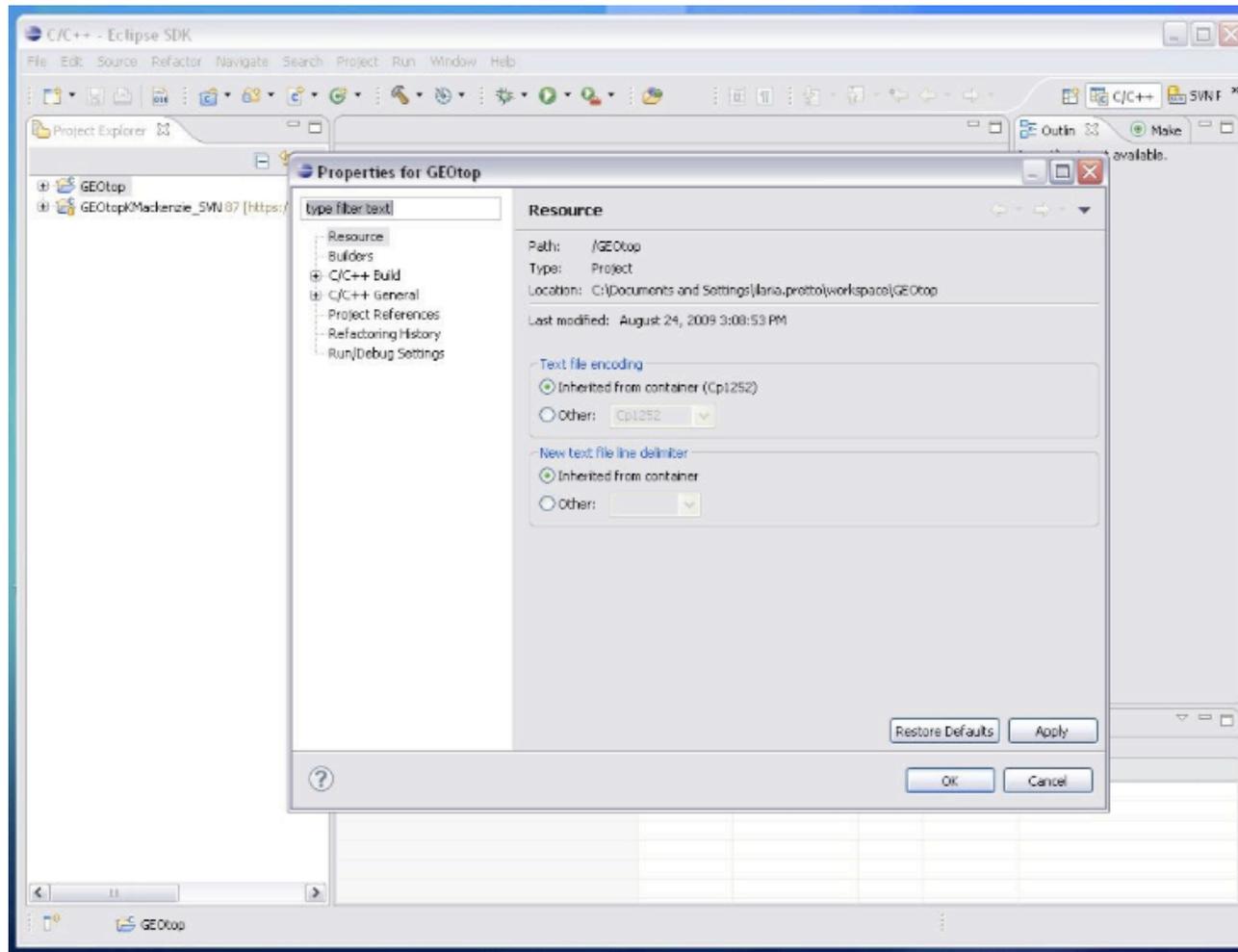
## To create GEOTop c project

- Check EXTERN, KMackenzie, LIBRARIES
- Make sure that the Option "Create selected folders only" is selected.



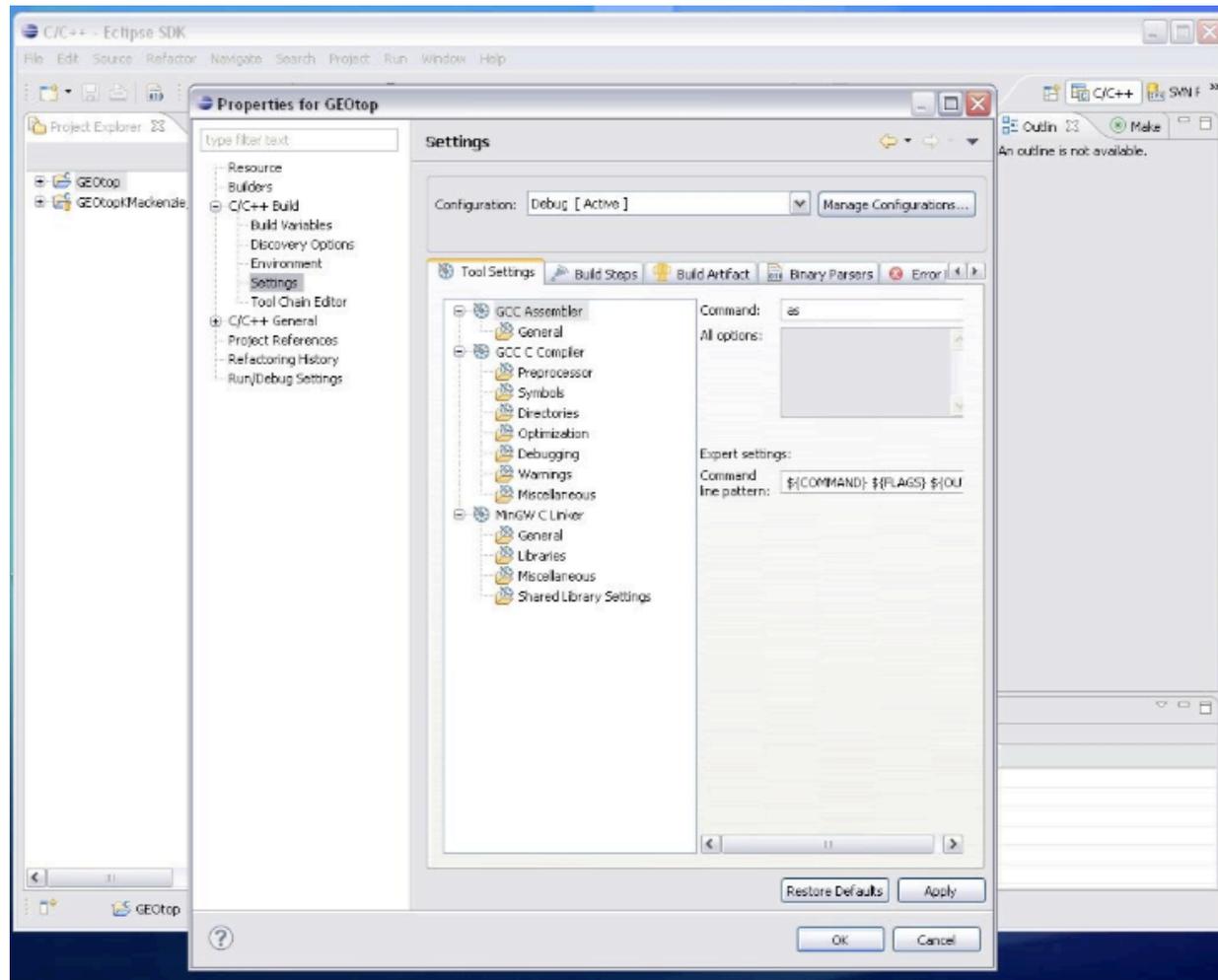
To create GEOTop c project

- Right click on the GEOTop project → Properties



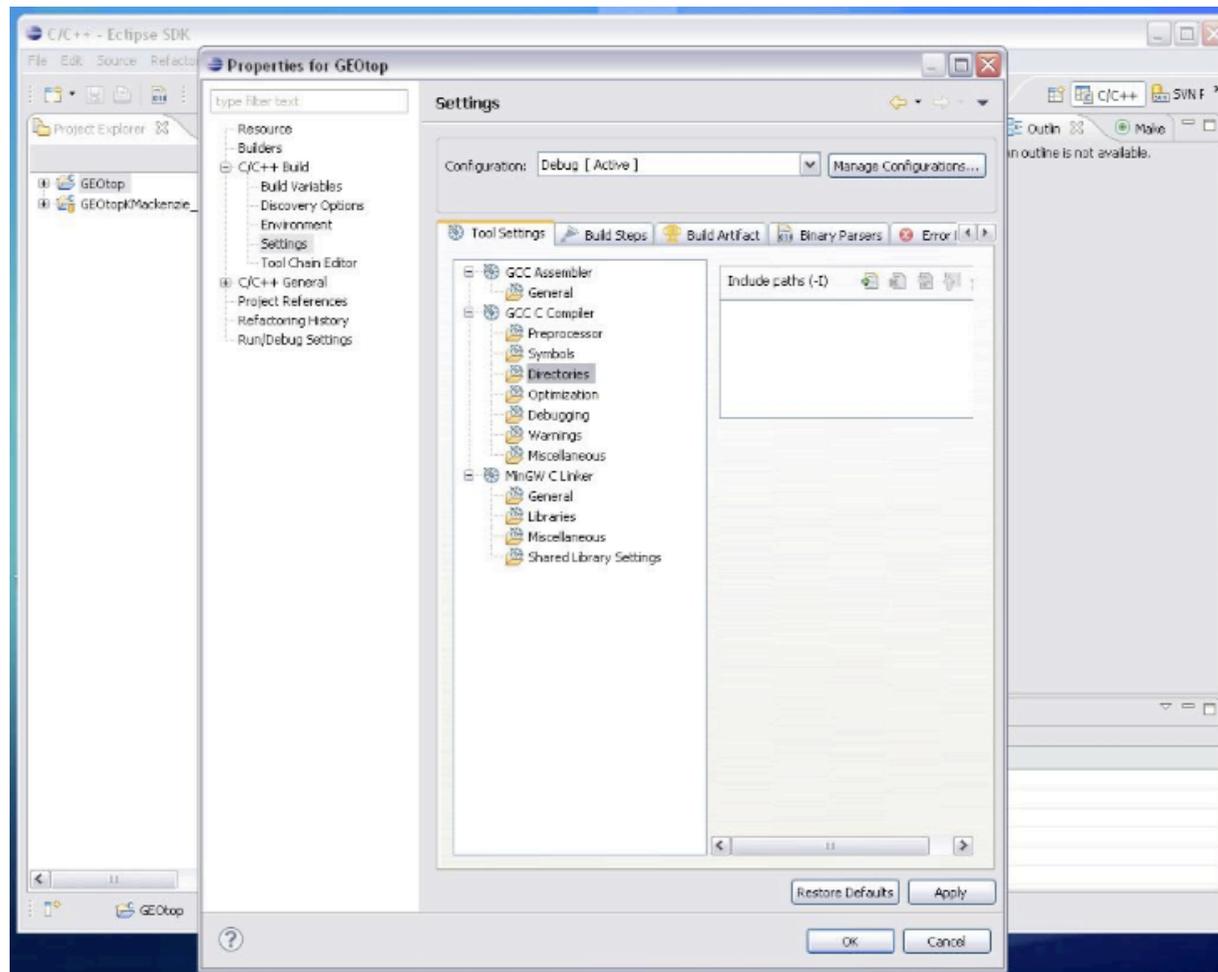
To create GEOTop c project

- C C++ Build → Settings → Tool Setting tab



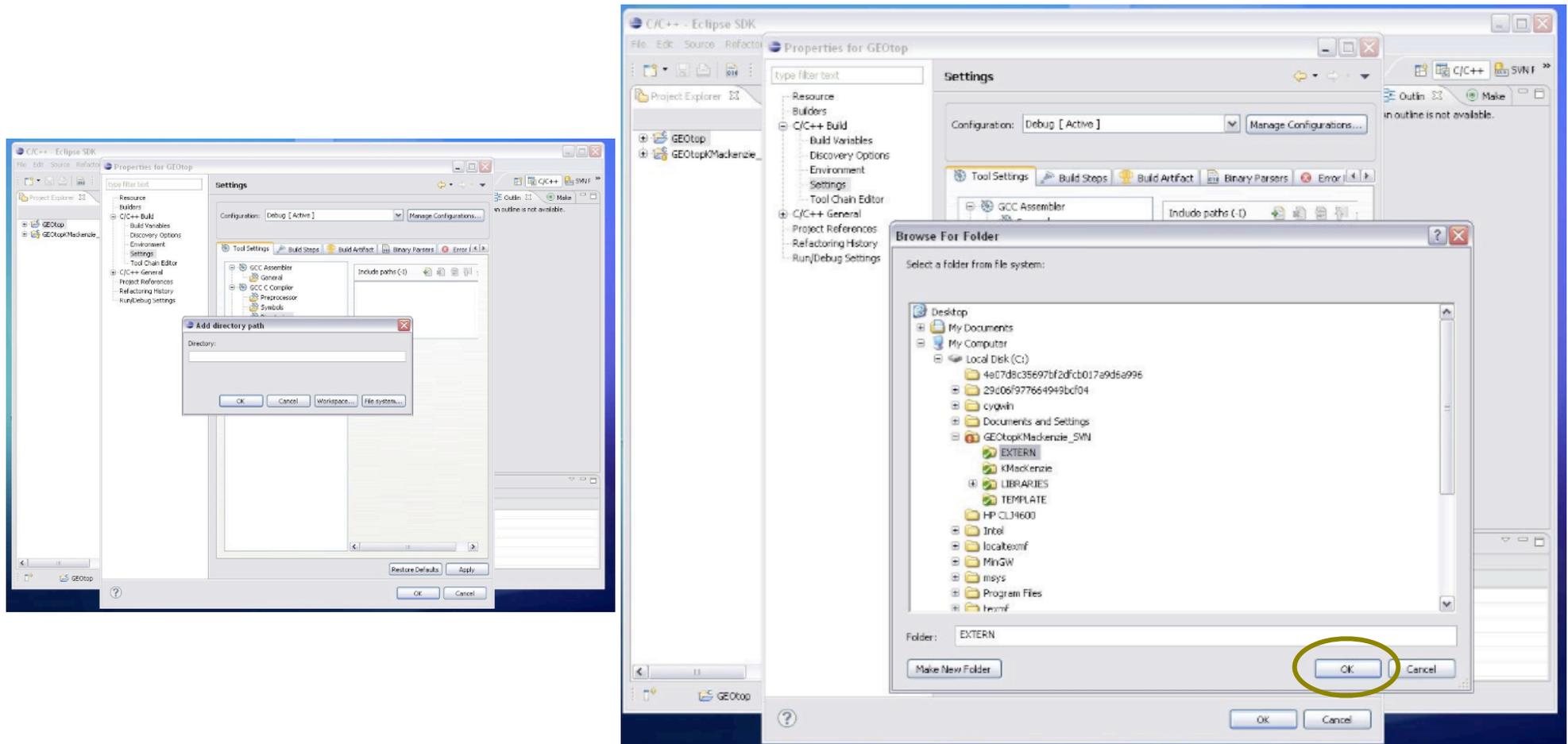
To create GEOTop c project

- GCC C Compiler → Directories → Include path → add



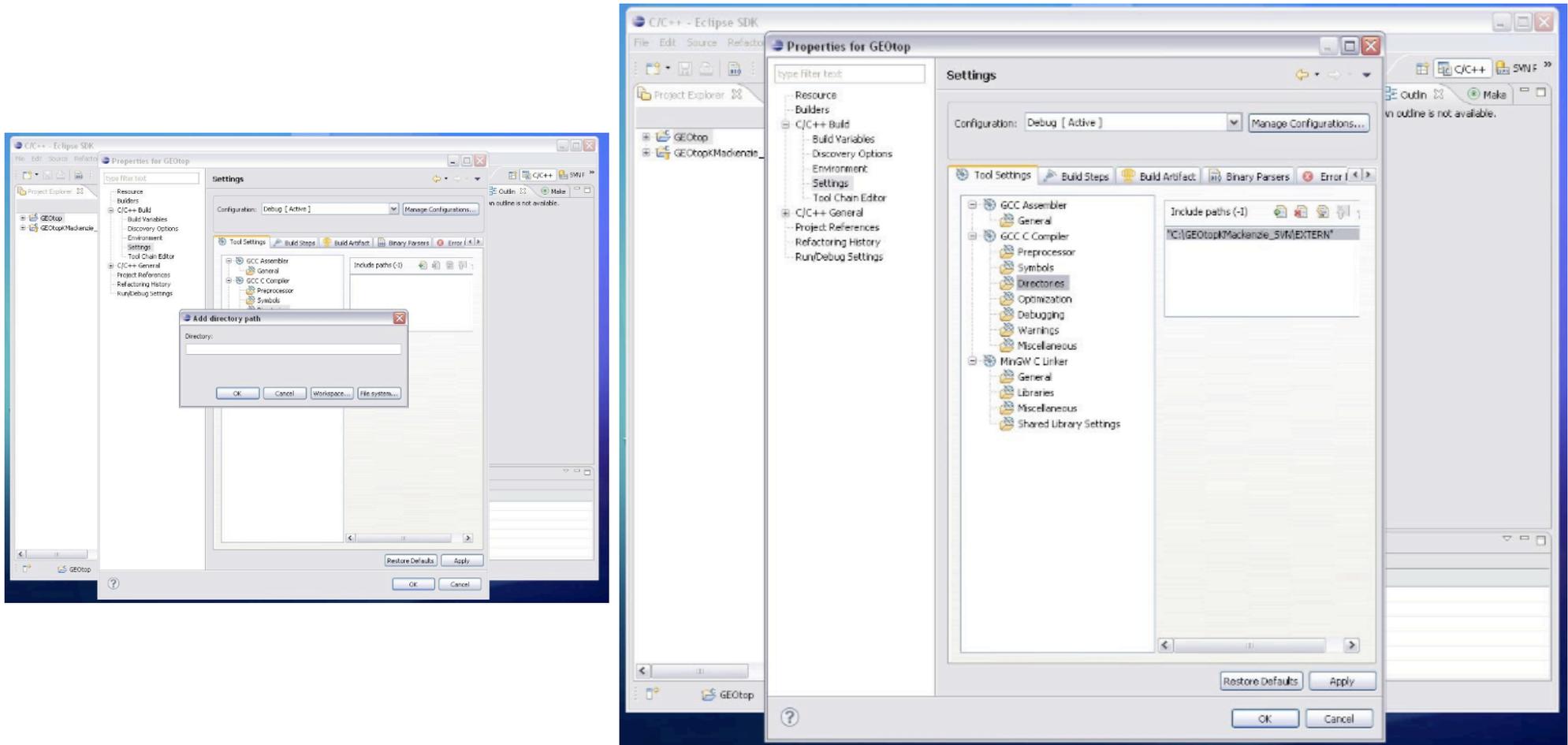
## To create GEOTop c project

- File system → Arrive to EXTERN folder in GEOTopKMackenzie\_SVN

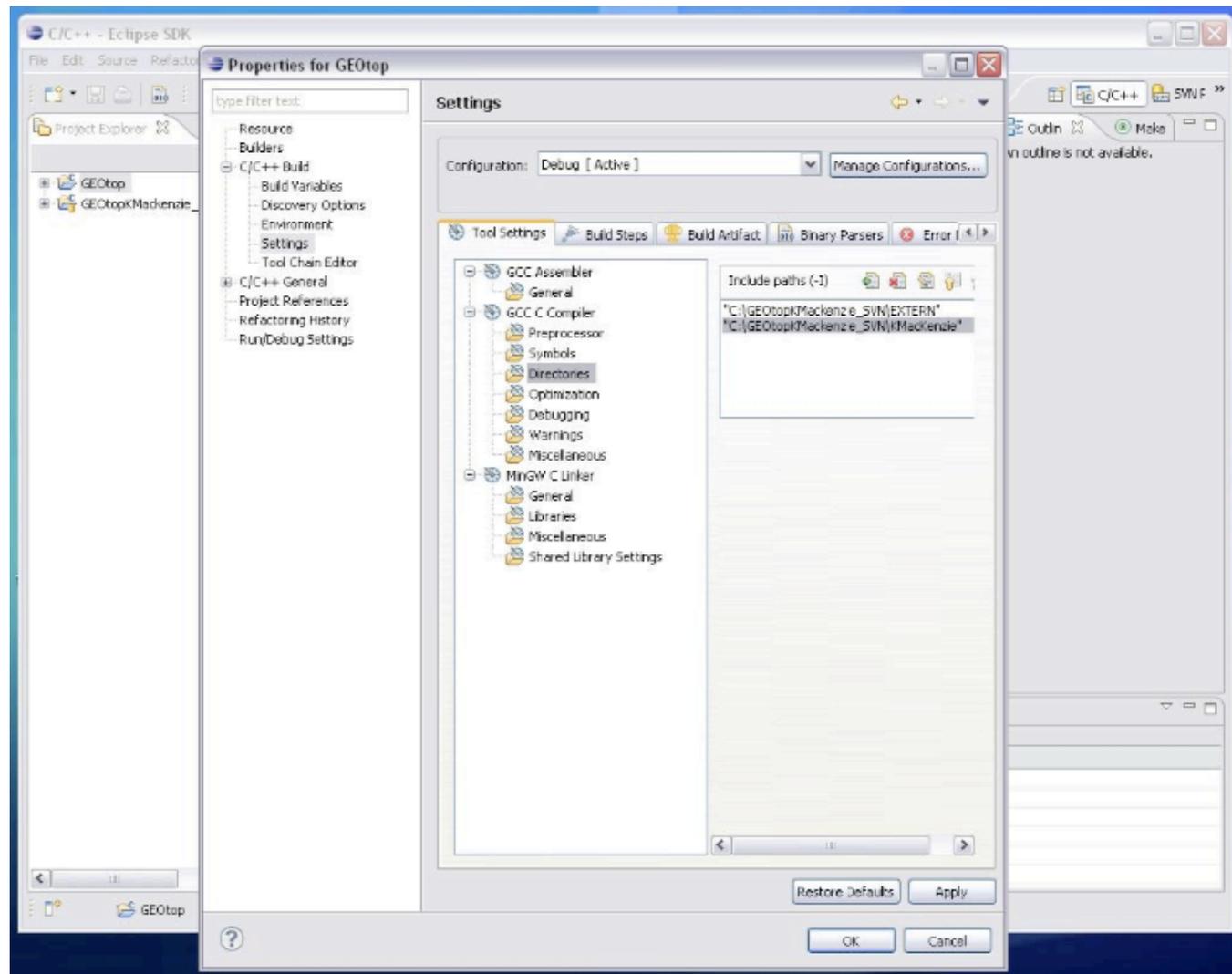


## To create GEOTop c project

- add → File system → Arrive to KMackenzie folder in GEOTopKMackenzie\_SVN

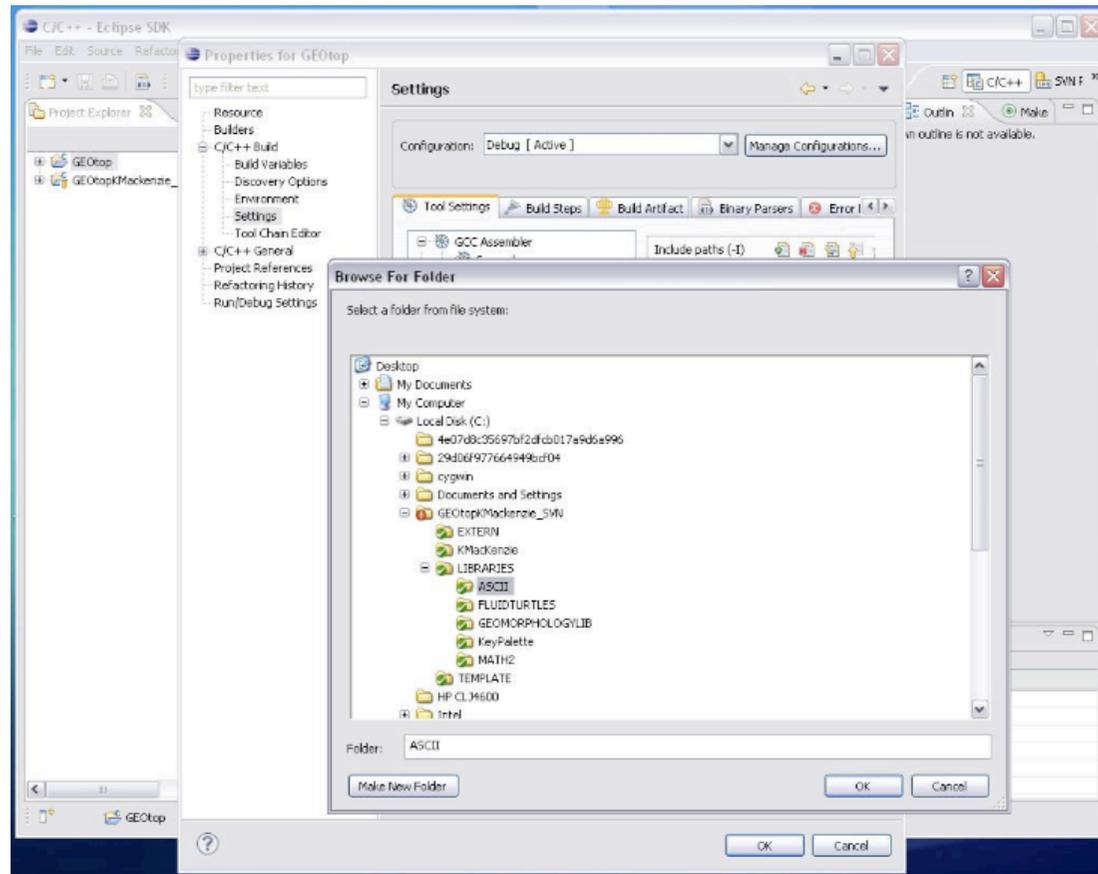


## To create GEOTop c project

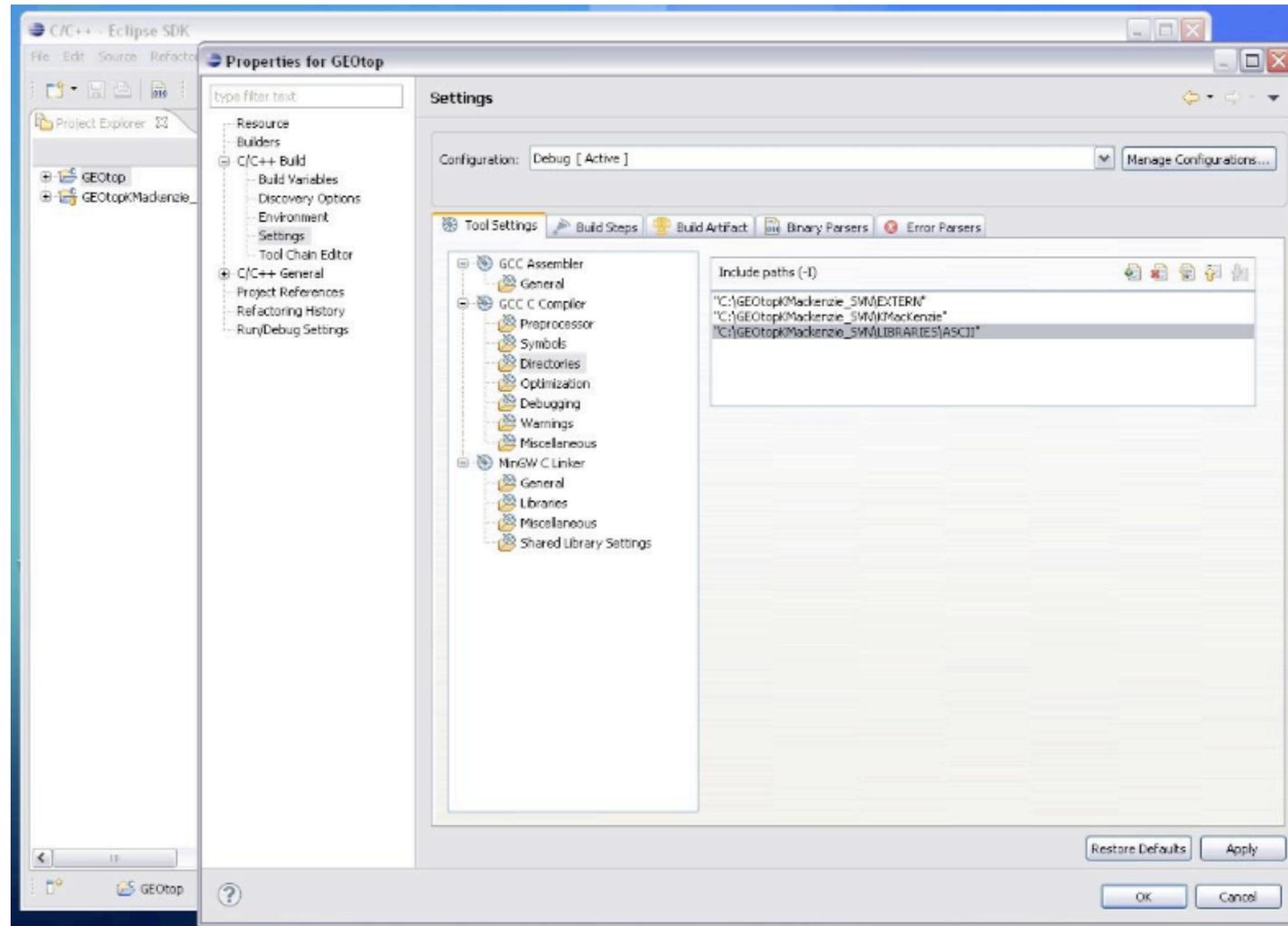


## To create GEOTop c project

- add → File system → Arrive to LIBRARIES folder in GEOTopKMackenzie\_SVN
- Select ASCII → OK

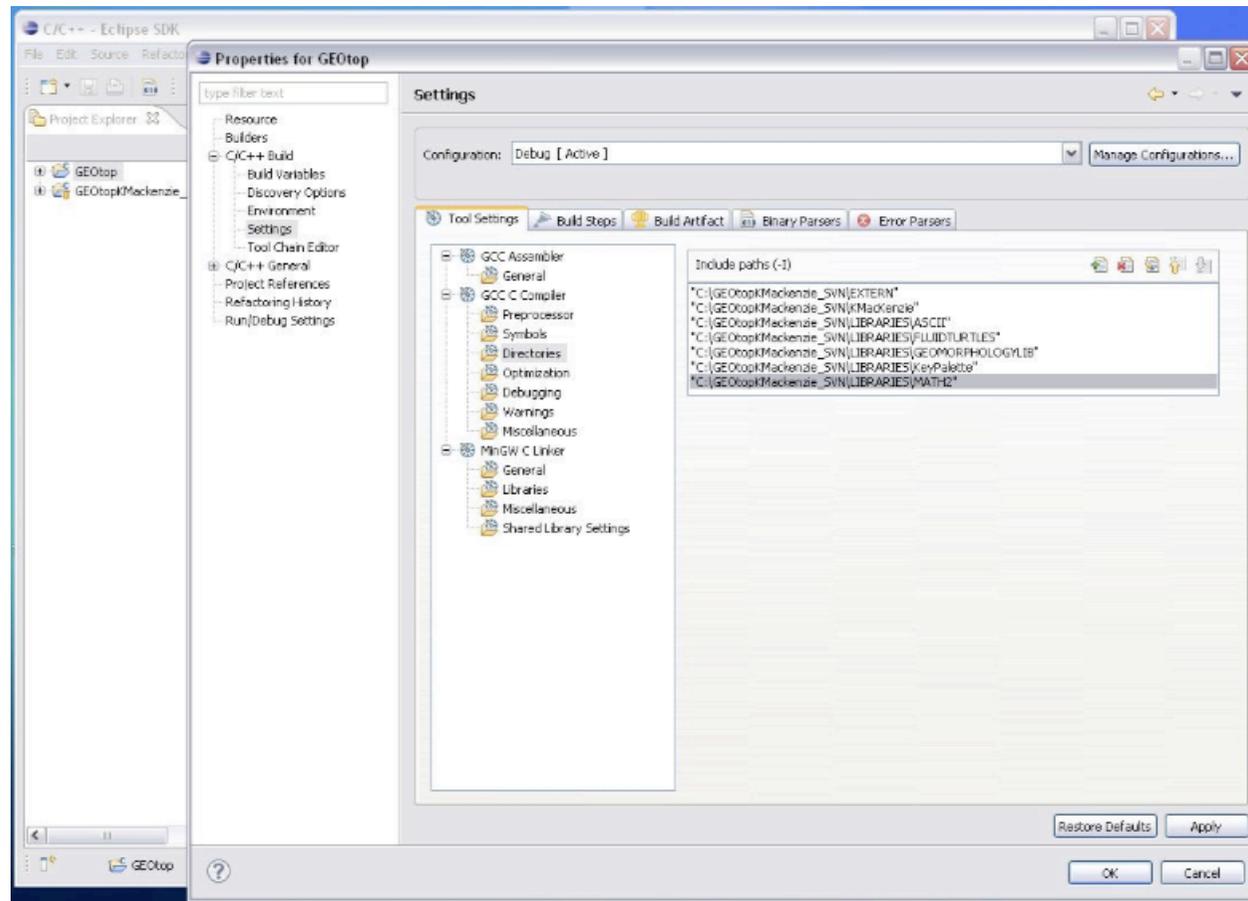


To create GEOTop c project



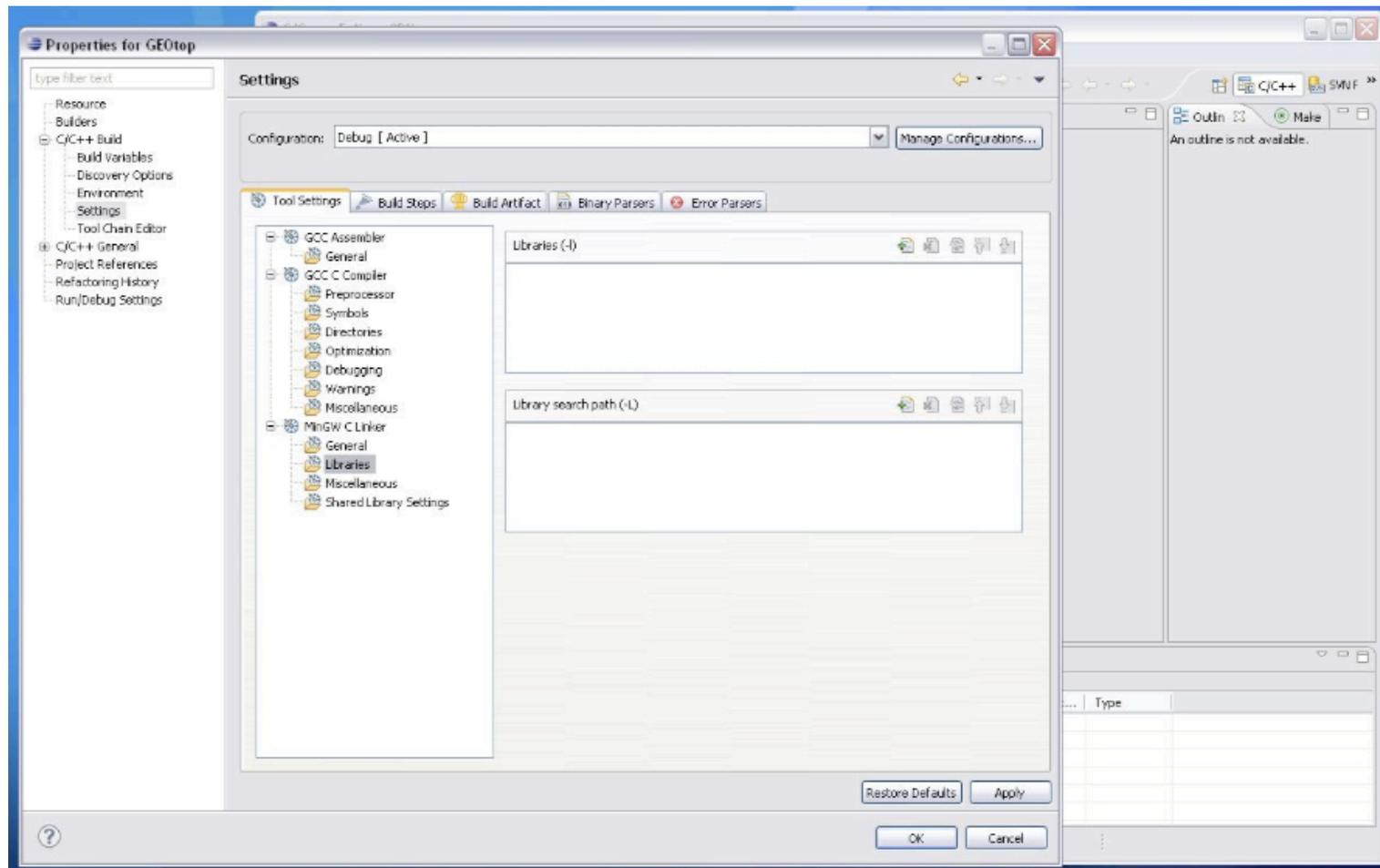
## To create GEOTop c project

- Repeat the same procedure of the ASCII library for the other libraries.
- Finally you obtain:



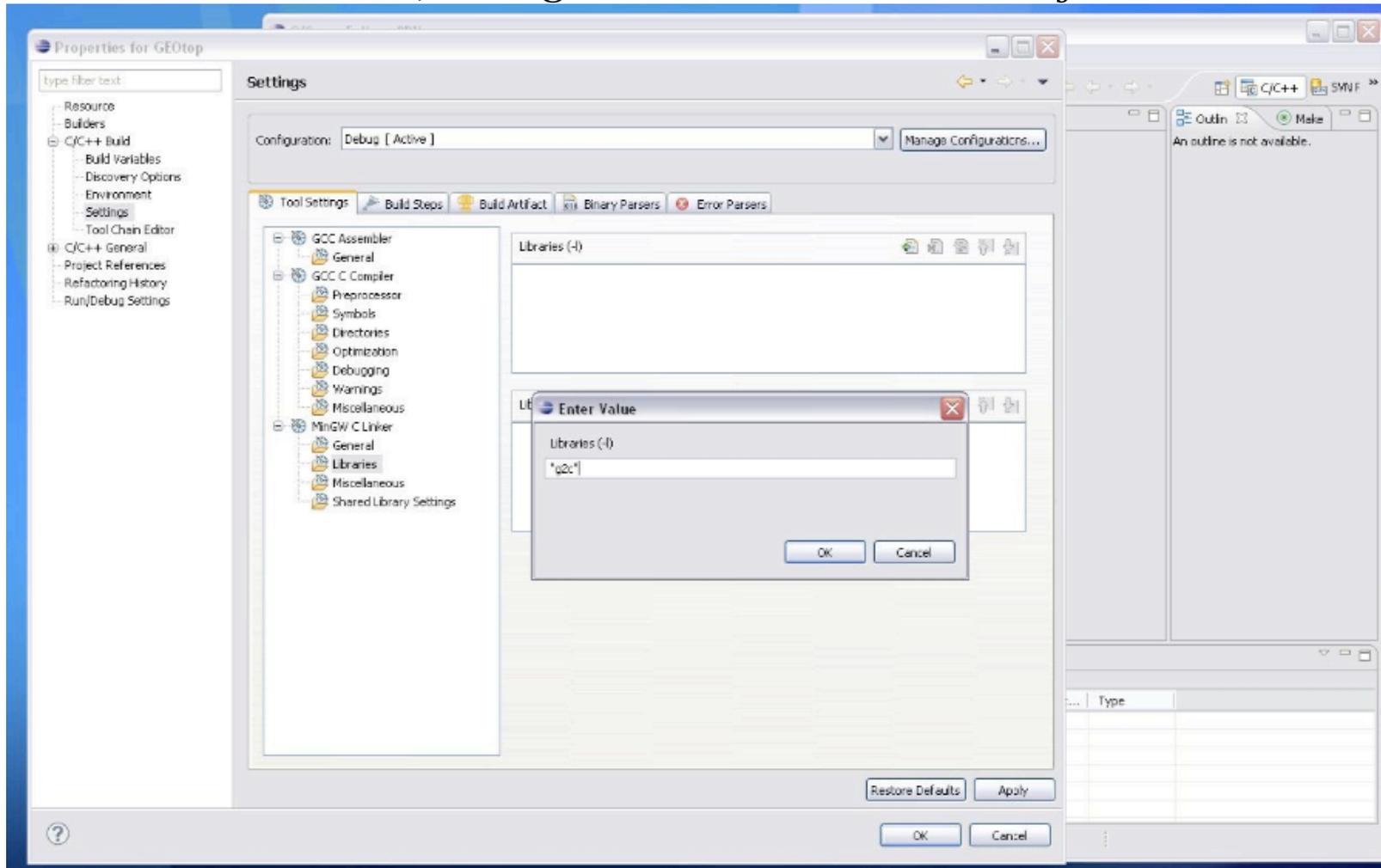
To create GEOTop c project

- Still in C/C++ Build → Settings → MinGW C Linker → Libraries



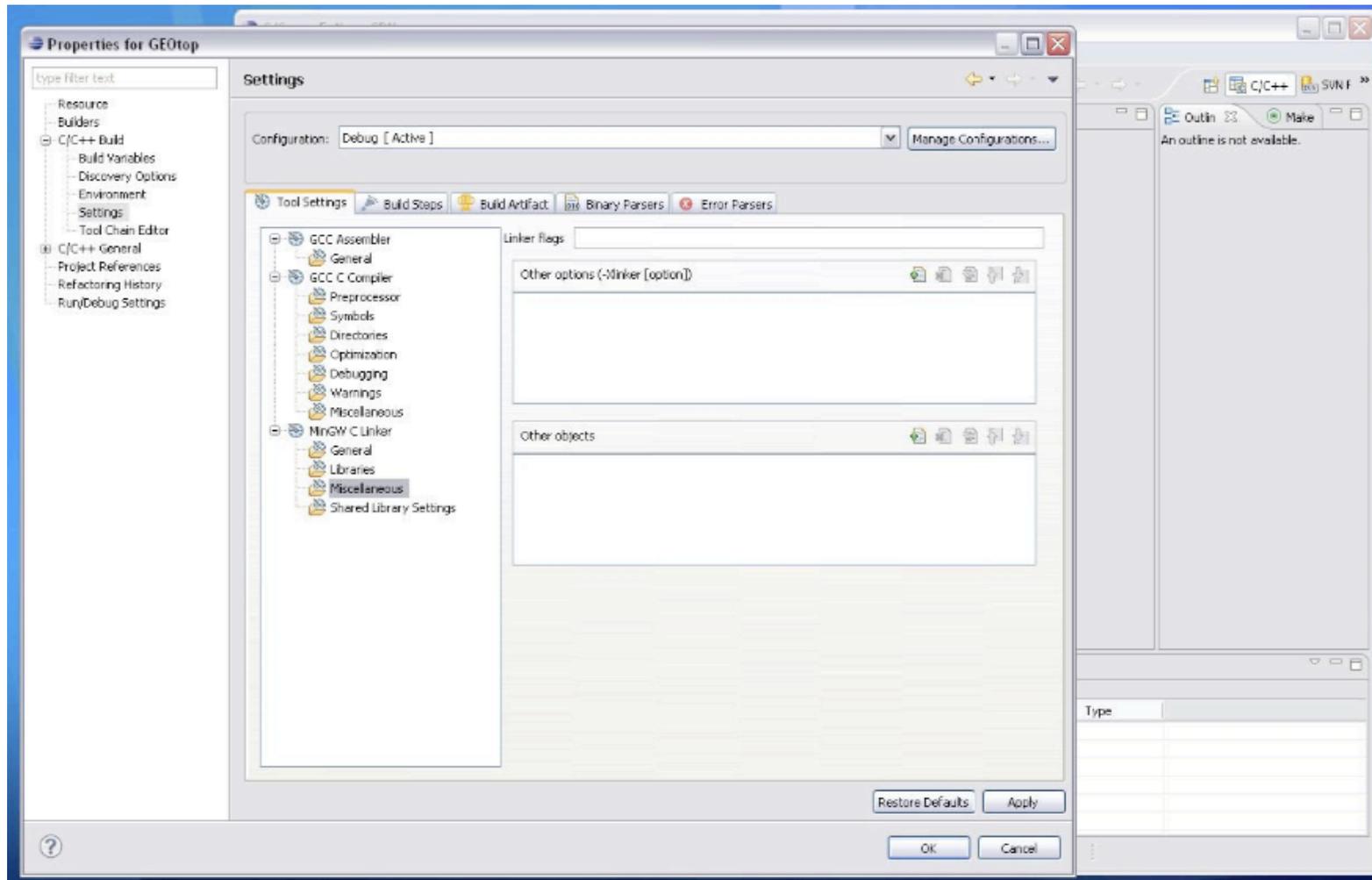
## To create GEOTop c project

- In the "Libraries (-l)" box, add "g2c" to link the fortran object file micromet\_code.o



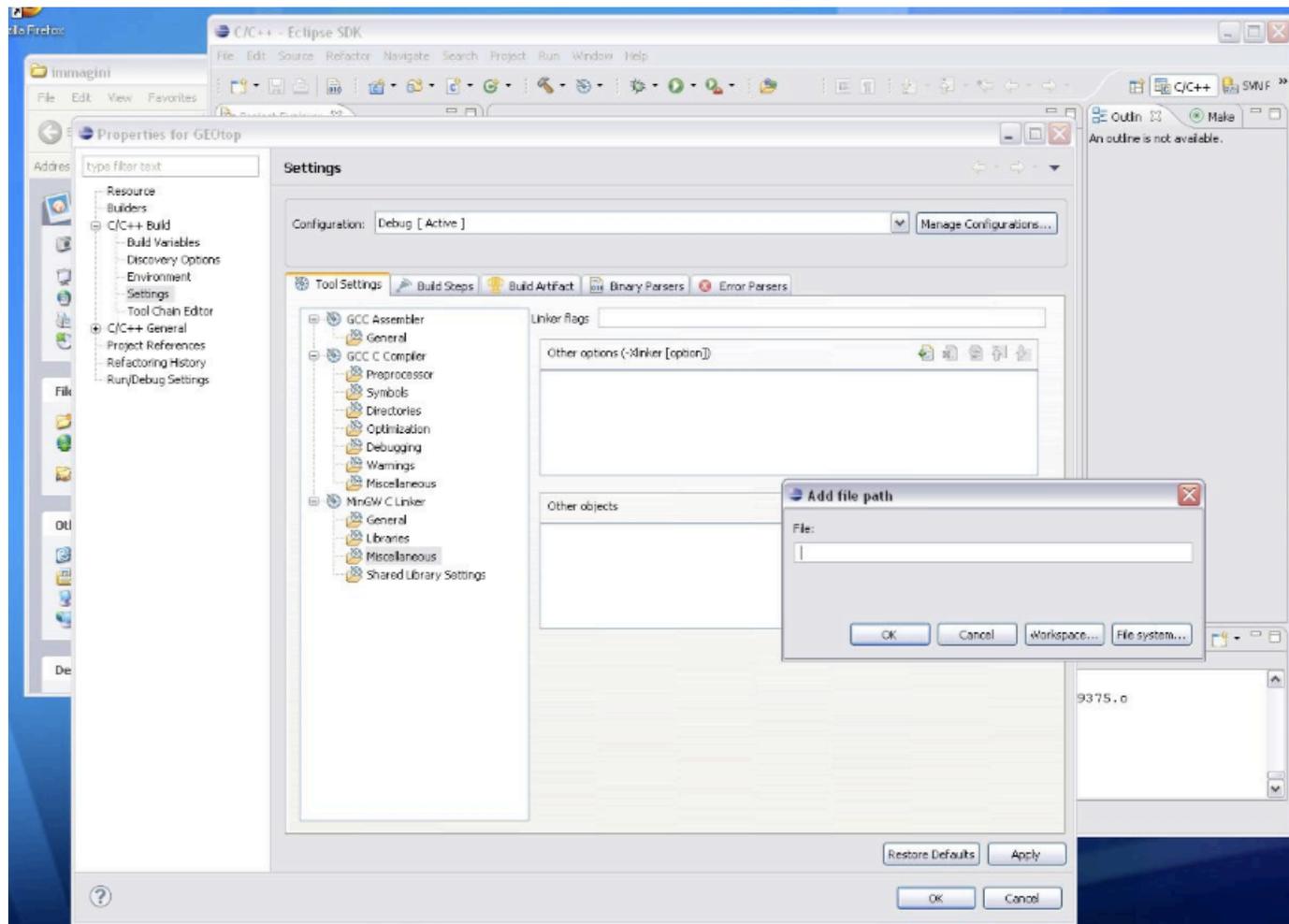
To create GEOTop c project

- Still in C/C++ Build → Settings → MinGW C Linker → Miscellaneous



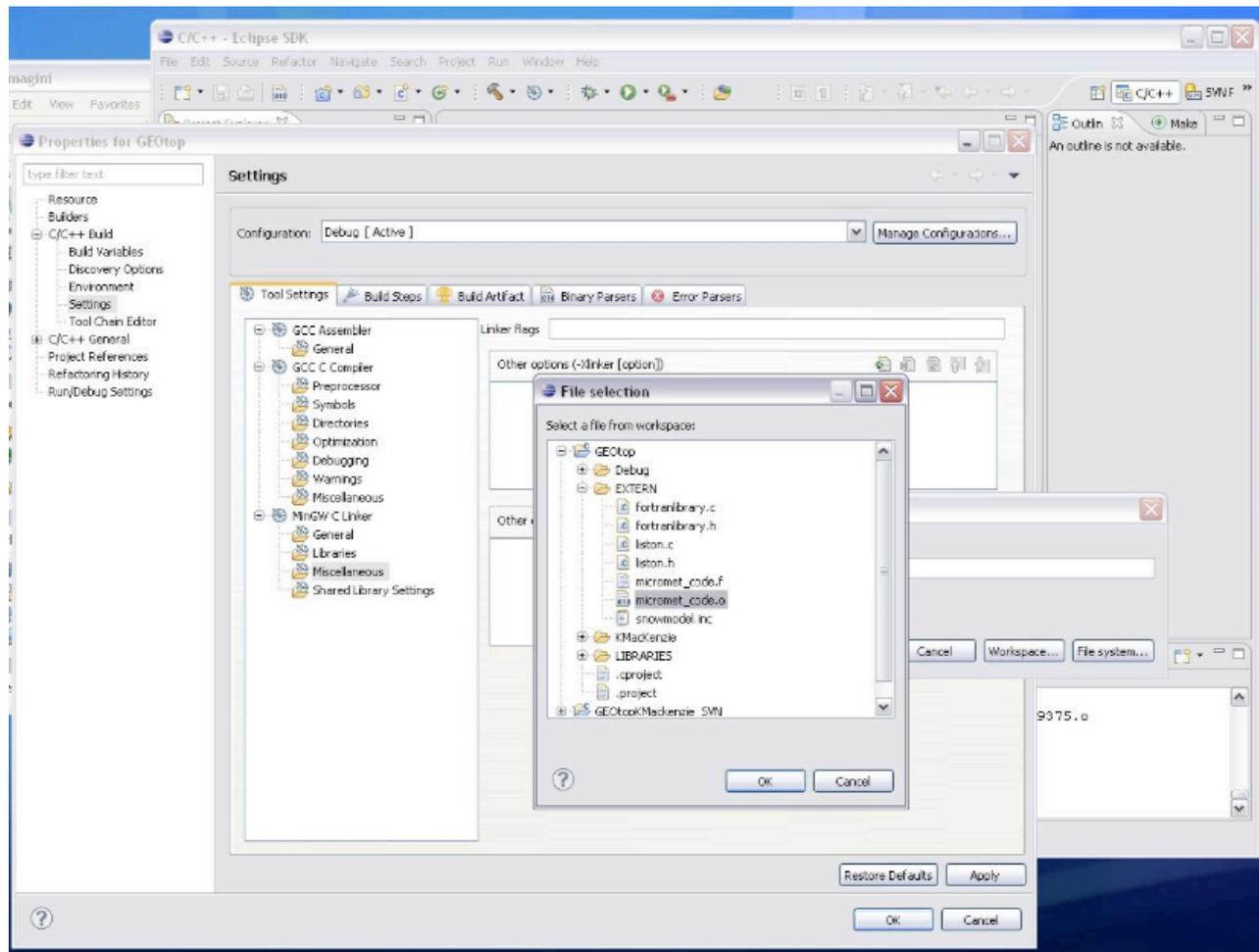
## To create GEOTop c project

- In the "Other objects" box, add in the full path and filename for micromet\_code.o



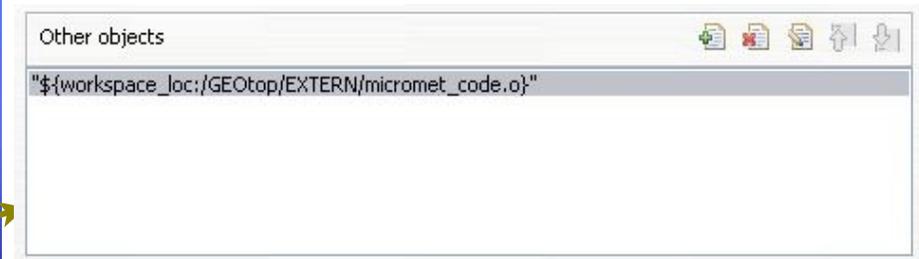
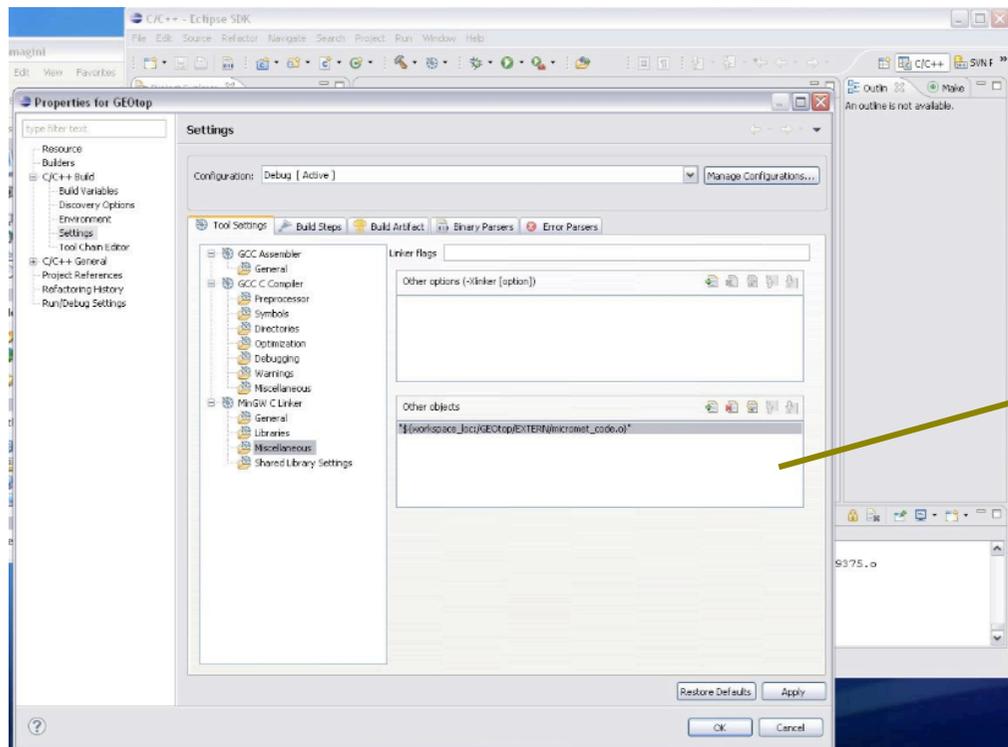
## To create GEOTop c project

- Click on Workspace → GEOTop → EXTERN



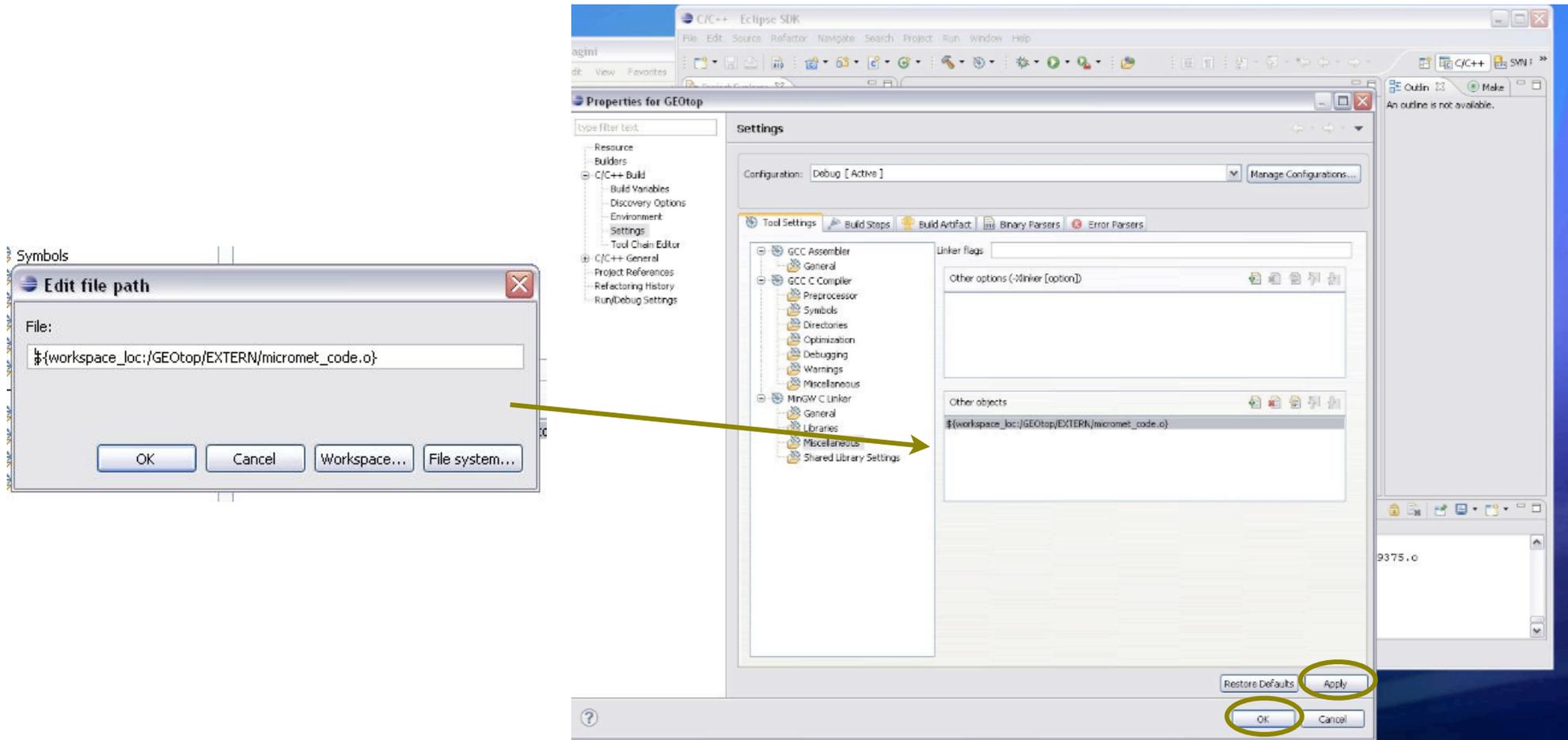
## To create GEOTop c project

- BEWARE - Eclipse will put quotes around the name when you add it in.



## To create GEOTop c project

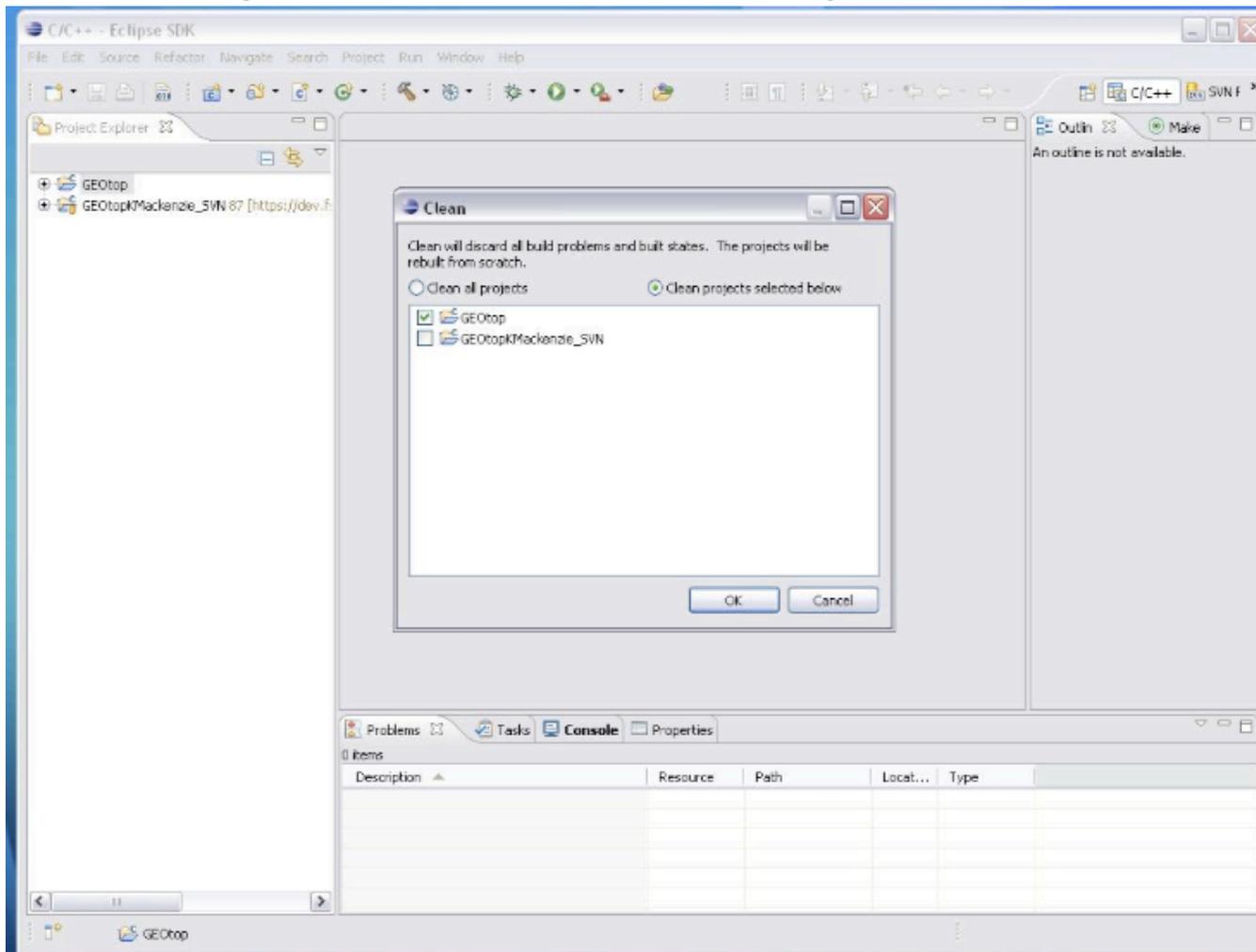
- Double click on the added object and remove the quotes.



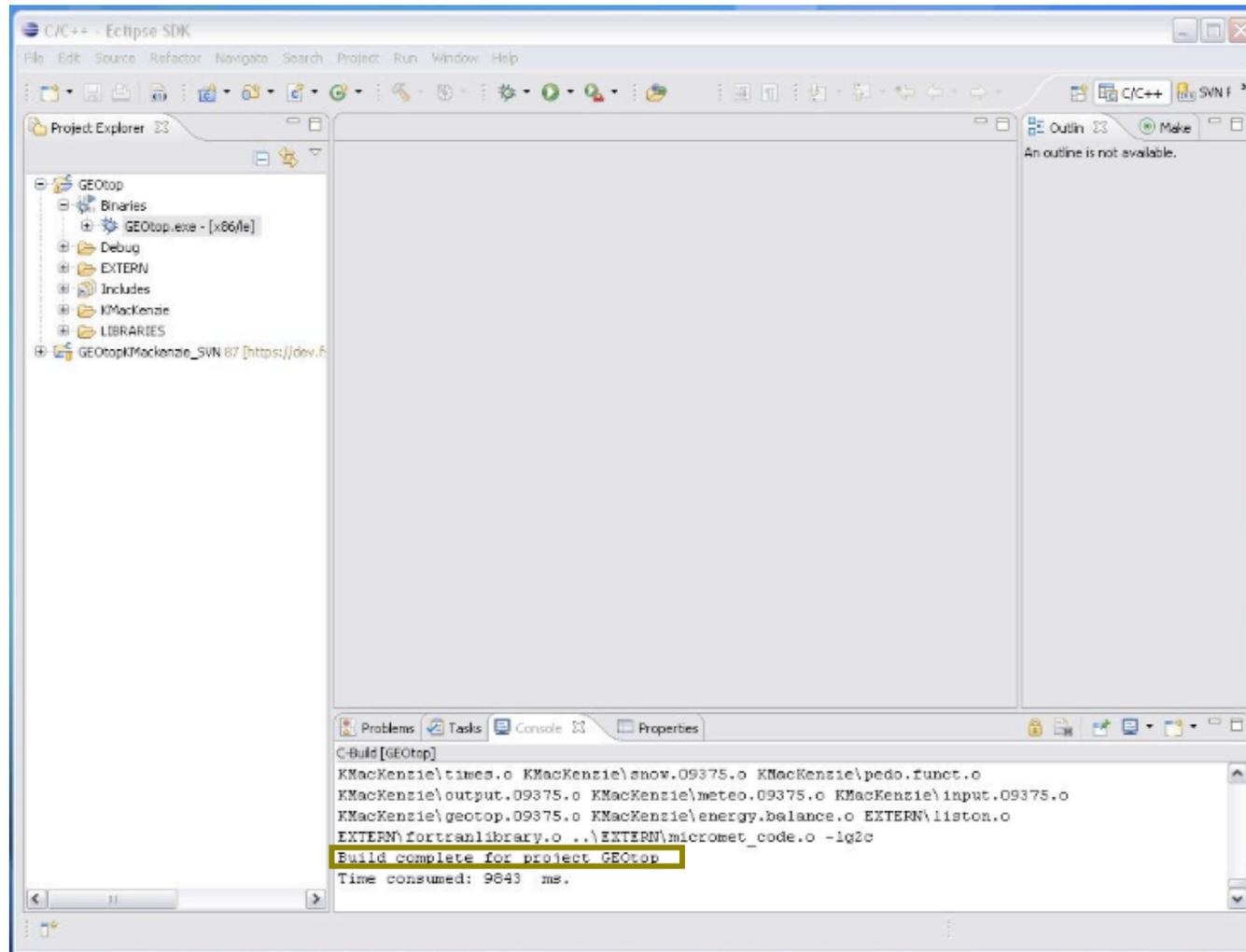
To compile GEOTop c project

## To compile GEOTop c project

- In Eclipse from Project → clean → clean projects selected below → OK



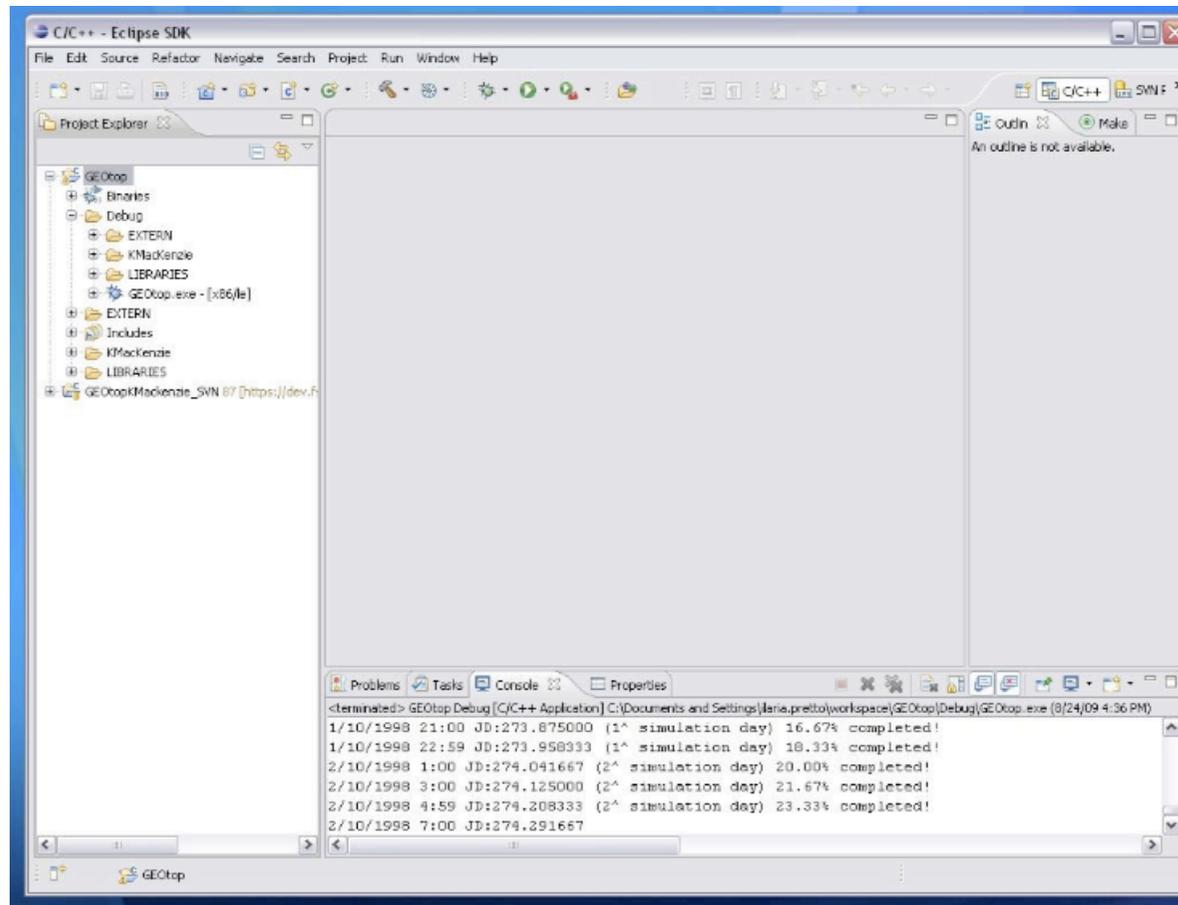
## To compile GEOTop c project



To run GEOtop by command prompt

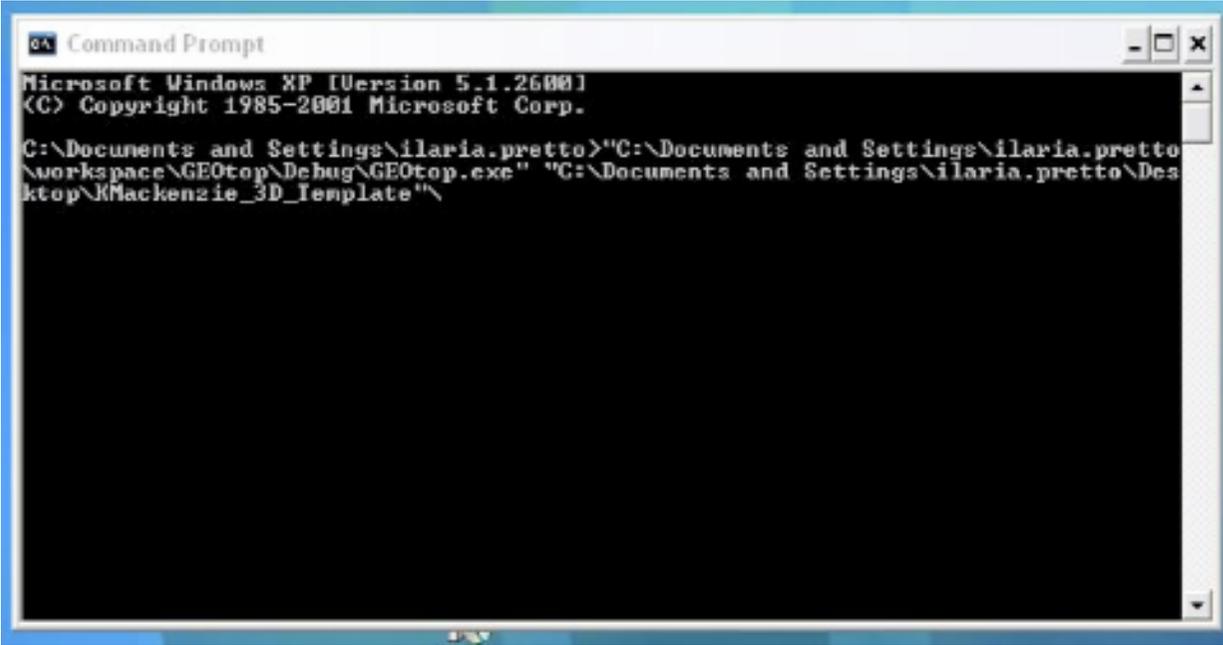
## To run GEOTop by command prompt

- After to compile in the good way GEOTop.exe appear in Debug folder of the project



To run GEOTop by command prompt

- Open command prompt, to drag GEOTop.exe in command prompt;
- Get one space;
- To Drag in the command prompt the folder in which there are geotop input
- To give slash.



```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\ilaria.pretto>"C:\Documents and Settings\ilaria.pretto
\workspace\GEOTop\Debug\GEOTop.exe" "C:\Documents and Settings\ilaria.pretto\Des
ktop\RMacKenzie_3D_Template"
```

[list-geotopusers@ing.unitn.it](mailto:list-geotopusers@ing.unitn.it)