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Download at www.openfoam.org and prepare patch

- Follow the instructions at www.openfoam.org to download and unpack the *Source pack* and the *third party binary packs*. Skip the OpenFOAM binary packs, since we will compile all of OpenFOAM ourselves.
- Check at http://openfoam-extend.svn.sourceforge.net/viewvc/ openfoam-extend/branches/OpenCFD_Release/ if there is a patched version of the code.
- If there is a patched version, open

http://openfoam-extend.wiki.sourceforge.net/Subversion_Guidelines, click on Guidelines for using OpenFOAM-extend and scroll down to Use Cases. Do the instructions under

"User only wants to patch his OpenCFD distribution of OpenFOAM with bug-fix In this case go to http://sourceforge.net/projects/openfoam-extend/ and click Code/SVN Browse/branches/OpenCFD_Release/OpenFOAM-1.4.1_patch.

Now click on updateFromRepositoryAndCompile.sh and download it to your OpenFOAM/OpenFOAM-1.4.1 directory. Make sure that it has this name and that it is executable (otherwise chmod +x updateFromRepositoryAndCompile.sh)

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Patch and compile

- Make sure that you have the correct WM_PROJECT_INST_DIR path in your OpenFOAM/OpenFOAM-1.4.1/.OpenFOAM-1.4.1/cshrc (or bashrc) file.
- cd to OpenFOAM/OpenFOAM-1.4.1and type:
 ./updateFromRepositoryAndCompile.sh & to patch and compile. (approx 5h)
- svnPatch.log shows what has been patched.
- recompile.log shows the output from the compilation
- You can re-do this procedure every now and then to keep updated with the recent patches. Then only the patched files will be re-compiled.

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Make paraFoam work

- Unfortunately paraFoam does not work if you compiled from scratch.
- paraFoam needs the libPVFoamReader.so dynamic library to be compiled, and to compile that you need cmake, and if you are unlucky you need to recompile all of paraview as well. We will not do that here.
- Here we use a quick solution: copy the pre-compiled libPVFoamReader.so from the OpenCFD distribution to make paraFoam work. You can find it in OpenFOAM/OpenFOAM-1.4.1/lib in the central installation here at Chalmers.



Make FoamX work

- Unfortunately FoamX does not work if you compiled from scratch.
- FoamX uses MICO, which does not compile automatically in our system for some reason.
- Here we use the MICO version distributed with OpenFOAM-1.2, which worked perfectly. In the central installation you can see that there are two mico versions in OpenFOAM/OpenFOAM-1.4.1/src. To use version 2.3.11, copy that directory to your own installation and modify the mico version number in OpenFOAM/OpenFOAM-1.4.1/.cshrc. Re-source!
- If you copy MICO from OpenFOAM-1.2 yourself you have to do some more things to make it work:

Rename src/mico-2.3.11/platforms/linuxGcc4Opt to linuxGccDPOpt (1.4.1 style) Remove \$FOAMX_CONFIG/ns.ref if it exists.

Remove \$FOAMX_CONFIG/HostBrowserLog.xml if it exists.

Remember to modify the version number in the .cshrc-file (see above), and to re-source!

• If someone knows how to compile MICO in our system, please tell me!