**How to update the list of PDB structures with MTSL**

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*1. Get the current PDB directory*

Use total commander or an FTP tool that can provide a long directory. A Matlab FTP object will return an empty directory, probably due to timeout. In total commander, use the following FTP settings:

Host name: [ftp.ebi.ac.uk](ftp://ftp.ebi.ac.uk)

User name: anonymous

Password: anonymous

Remote dir: /pub/databases/rcsb/pdb/data/structures/all/pdb

Sever type: Auto detect

Connect and directory download will take quite some time. After the directory listing appears, use menu Mark/Select all and then Mark/Copy Selected Names to Clipboard. In a file editor, paste the names from clipboard. Insert a return after the last line. Save the file as 'PDB\_directory\_*date*.txt', where *date* is of the form *yyyymmdd*, for instance 20121203 for December 3rd 2012. The file should be save into the MMM subdirectory coarse\_PDB.

2. Update scan\_PDB\_for\_MTSL.m

This file is in the main directory of MMM. In line 7 you have to change fname to the name of the current PDB directory.

3. Run scan\_PDB\_for\_MTSL.m

If the last update was not too long ago, this should take only a few minutes. If you call scan\_PDB\_for\_MTSL.m without parameters, it will stop after 1 hour, even if the scan is not completed. To override this behavior, run the program from the command line with an argument that specifies the maximum alloted runtime in hours.

4. Update scan\_PDB\_for\_MTSL.m

After a successful run, don't forget to update line 9 of scan\_PDB\_for\_MTSL.m. The PDB directory just scanned should be assigned to variable old\_basis. This makes sure that the same files are not scanned again next time, which would unnecessarily increase runtime.