

# Compiling

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Compiling COBOL locally can save you considerable time during the development/troubleshooting stage.

In order to compile COBOL locally you will need to have the MicroFocus NetExpress COBOL compiler installed on your machine. This requires a license.

The steps for compiling COBOL locally are:

- Install Microfocus NetExpress
- Configure the `%COBR00T%` system variable to point to the Microfocus NetExpress compiler path
- Copy the batch files for compiling COBOLs from `%PS_HOME%\src\cbl\win32` to your `C:\WINDOWS` directory
- Copy all COBOLs to a local directory, for example `C:\COBOL`
- Compile COBOLs using the `CBLMAKE.BAT` batch script

When you install Microfocus, put it in a directory with no spaces. I like to use something like `C:\NetExpress` rather than the default directory. This is just a preference, I'm not sure if it causes any issues.

You will need create a system environment variable called `COBR00T`. This points to the Base directory of your Microfocus NetExpress installation. For example, `C:\NetExpress\Base`.

Browse to your PeopleSoft File Server and copy the following files from `%PS_HOME%\src\cbl\win32` to your `C:\WINDOWS` directory:

- `ASCII.DIR`
- `CBLRULE.BAT`
- `CBLMAKE.BAT`
- `CBLCRINT.BAT`
- `CBLCD.BAT`
- `EBCDIC.DIR`

Copying them to your `WINDOWS` directory lets you run them from anywhere as they are automatically in the system path.

Alternatively you could add `%PS_HOME%\src\cbl\win32` to your system path.

Copy all the COBOLs from your PeopleSoft file server to a local directory (`C:\COBOL`).

Command prompt to the local directory and attempt to compile a program (e.g. the delivered `PTPDBTST` program) by issuing the command (note that you drop the `.cbl` extension):

```
cblmake PTPDBTST
```

Hopefully it compiles for you. If not, you may have forgot to set the `COBR00T` environment variable. Make sure you set this first.

To build all cobols, run the following command (in Windows) from `%PS_HOME%\setup`:

```
cblbld.bat C: \temp
```

This will copy source COBOLs from `%PS_HOME%\src\cbl\base` to `C:\Temp` (or whatever drive and directory you specify), compile them and put them in a directory named `%PS_HOME%\CBLBIN(A/E/U)` where `A=Ansi`, `E=EBCDIC` and `U=Unicode`.

After the build, the build log will be displayed. You can also view the build log by opening the file `CBLBLD.LOG` which will be located in the compile directory (e.g. `C:\Temp`).

If you find the following throughout your log file:

```
...
Creating error listing (COB0L1.LIS)
Creating error listing (COB0L2.LIS)
Creating error listing (COB0L3.LIS)
...
```

It may mean your Microfocus NetExpress license has expired. Check by starting Microfocus NetExpress. COBOLs will not compile on Windows systems when the license has expired.

If compiling gives the following error:

Application Program Failed

Action Type

: SQL CONNEC

In Pgm Section : SQLRT:GG100 SQL-CONNECT

With Return Code: 9989Error Message : SQLRT: Operator ID not allowed to submit COBOL from client

This can be caused by having `%PS_HOME%\bin\client\winx86\` in your system path. Remove this location from your system path and try again.

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