How to compile fit for a new func.cc

Once you have compiled and installed **fit** for the first time, you will have an installed **library** of all the functions that are used in every **fit** program, *i.e.*, all the functions that are listed in the `lib` subdirectory of the main source code package for **fit**. These are all the functions used in every **fit** program, except for the two functions `main.cc` and `func.cc` that are in the `src` subdirectory.

As distributed, this initial **fit** program should work only for fitting the supplied "`gauss`" (or "`gauss_nosigs`") datafiles, or similar datafiles suitable for fitting to a Gaussian curve, *i.e.*, that described in the distributed code as `src/func.cc`.

If you should happen to want to fit data to a different function, *i.e.*, using a `func.cc` that is different from the one distributed, there is no need to recompile all the functions in the `lib` subdirectory.

We include, in this distribution, a tarball that compiles **fitgauss** as an example, and the files in this tarball may be used as a template, to compile a program that can be named whatever you like, such as **fitwxyz**. Only three files—`configure.ac`, `Makefile.am` and `src/func.cc` need to be changed. There are comments in these files that provide a few hints. After they are changed, you need only to give these three commands:

```
./configure --prefix=$HOME
make
make install
```

and you will be set to go.

– Peter Scott
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