zahra@zahra-System-Product-Name: /usr/local/software Q zahra@zahra-System-Product-Name:/usr/local/software\$ tar xvf fftw-3.2.1.tar.gz fftw-3.2.1/ fftw-3.2.1/doc/ fftw-3.2.1/doc/stamp-vti fftw-3.2.1/doc/FAQ/ fftw-3.2.1/doc/FAQ/m-info.pl fftw-3.2.1/doc/FAQ/m-post.pl fftw-3.2.1/doc/FAQ/m-lout.pl fftw-3.2.1/doc/FAQ/m-ascii.pl fftw-3.2.1/doc/FAQ/m-html.pl fftw-3.2.1/doc/FAQ/fftw-faq.html/ fftw-3.2.1/doc/FAO/fftw-faq.html/section5.html fftw-3.2.1/doc/FAQ/fftw-faq.html/section4.html fftw-3.2.1/doc/FAQ/fftw-faq.html/section2.html fftw-3.2.1/doc/FAQ/fftw-faq.html/section1.html fftw-3.2.1/doc/FAQ/fftw-faq.html/index.html fftw-3.2.1/doc/FAQ/fftw-faq.html/section3.html fftw-3.2.1/doc/FAQ/Makefile.in fftw-3.2.1/doc/FAQ/fftw-faq.bfnn fftw-3.2.1/doc/FAQ/html.refs fftw-3.2.1/doc/FAQ/fftw-faq.ascii fftw-3.2.1/doc/FAQ/bfnnconv.pl fftw-3.2.1/doc/FAQ/Makefile.am fftw-3.2.1/doc/html/

To install Doris, I must have installed fftw-3.2.1. I installed fftw, according to INSRALL file.

ΓŦ	zahra@zahra-System-Product-Name: /usr/local/software	Q	≡		×
	3.2.1/genfft/littlesimp.mli				
	3.2.1/genfft/algsimp.mli				
	3.2.1/genfft/gen_twidsq_c.ml				
	3.2.1/genfft/unique.mli				
	3.2.1/genfft/trig.ml				
	3.2.1/genfft/gen_hc2cdft.ml				
	3.2.1/genfft/complex.mli				
	3.2.1/genfft/gen_notw.ml				
	3.2.1/genfft/util.ml				
	3.2.1/genfft/to_alist.ml				
	3.2.1/genfft/to_alist.mli				
	3.2.1/genfft/gen_hc2c.ml				
	3.2.1/genfft/Makefile.am				
	3.2.1/genfft/gen_r2cf.ml				
	3.2.1/genfft/gen_r2cb.ml				
	3.2.1/genfft/assoctable.mli				
	3.2.1/genfft/util.mli				
	3.2.1/genfft/twiddle.ml				
	3.2.1/genfft/variable.mli				
	3.2.1/genfft/number.mli				
	3.2.1/genfft/gen_twiddle.ml				
	3.2.1/genfft/dag.ml				
	3.2.1/AUTHORS				
zahra	<pre>@zahra-System-Product-Name:/usr/local/software\$ cd f</pre>	ftw-3.	.2.1		

ſŦ	zahra@zahra-System-Product-Name: /usr/local/software/fftw-3.2.1	Q =		•	×
fftw-3.2.1	/genfft/util.mli				
fftw-3.2.1	/genfft/twiddle.ml				
fftw-3.2.1	/genfft/variable.mli				
fftw-3.2.1	/genfft/number.mli				
fftw-3.2.1	/genfft/gen_twiddle.ml				
fftw-3.2.1	/genfft/dag.ml				
fftw-3.2.1					
	a-System-Product-Name:/usr/local/software\$ cd fftw-3.2.1				
	a-System-Product-Name:/usr/local/software/fftw-3.2.1\$ ./configureprefi	ix=`pwd` ·	-enabl	e-floa	at
	or a BSD-compatible install /usr/bin/install -c				
	hether build environment is sane yes				
	or a thread-safe mkdir -p /usr/bin/mkdir -p				
	or gawk gawk				
	hether make sets \$(MAKE) yes				
	hether to enable maintainer-specific portions of Makefiles no				
	uild system type x86_64-unknown-linux-gnu				
	ost system type x86_64-unknown-linux-gnu				
	or gcc gcc				
	or C compiler default output file name a.out				
	hether the C compiler works yes				
	hether we are cross compiling no				
	or suffix of executables				
	or suffix of object files o				
checking w	hether we are using the GNU C compiler yes				

```
zahra@zahra-System-Product-Name: /usr/local/s...
                                                  Q
                                                                 ×
config.status: creating cell/spu/Makefile
config.status: creating api/Makefile
config.status: creating libbench2/Makefile
config.status: creating tests/Makefile
config.status: creating doc/Makefile
config.status: creating doc/FAQ/Makefile
config.status: creating tools/Makefile
config.status: creating tools/fftw wisdom.1
config.status: creating tools/fftw-wisdom-to-conf
config.status: creating m4/Makefile
config.status: creating fftw.pc
config.status: creating config.h
config.status: config.h is unchanged
config.status: executing depfiles commands
config.status: executing libtool commands
zahra@zahra-System-Product-Name:/usr/local/software/fftw-3.2.1$ make
make all-recursive
make[1]: Entering directory '/usr/local/software/fftw-3.2.1'
Making all in support
make[2]: Entering directory '/usr/local/software/fftw-3.2.1/support'
make[2]: Nothing to be done for 'all'.
make[2]: Leaving directory '/usr/local/software/fftw-3.2.1/support'
Making all in kernel
make[2]: Entering directory '/usr/local/software/fftw-3.2.1/kernel'
```

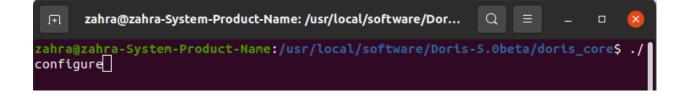
```
FI.
       zahra@zahra-System-Product-Name: /usr/local/softwar...
                                                       Q
make[3]: Nothing to be done for 'all-am'.
make[3]: Leaving directory '/usr/local/software/fftw-3.2.1/doc'
make[2]: Leaving directory '/usr/local/software/fftw-3.2.1/doc'
Making all in tools
make[2]: Entering directory '/usr/local/software/fftw-3.2.1/tools'
rm -f fftwf-wisdom.1
cp fftw wisdom.1 fftwf-wisdom.1
make all-am
make[3]: Entering directory '/usr/local/software/fftw-3.2.1/tools'
/bin/bash ../libtool --tag=CC --mode=link gcc -O3 -fomit-frame-pointer -m
align-double -fstrict-aliasing -ffast-math
                                            -o fftwf-wisdom fftw-wisdom.o .
./tests/bench.o ../tests/fftw-bench.o ../libfftw3f.la ../libbench2/libbench
2.a -lm
libtool: link: gcc -O3 -fomit-frame-pointer -malign-double -fstrict-aliasing
 -ffast-math -o fftwf-wisdom fftw-wisdom.o ../tests/bench.o ../tests/fftw-be
nch.o ../.libs/libfftw3f.a ../libbench2/libbench2.a -lm
make[3]: Leaving directory '/usr/local/software/fftw-3.2.1/tools'
make[2]: Leaving directory '/usr/local/software/fftw-3.2.1/tools'
Making all in m4
make[2]: Entering directory '/usr/local/software/fftw-3.2.1/m4'
make[2]: Nothing to be done for 'all'.
make[2]: Leaving directory '/usr/local/software/fftw-3.2.1/m4'
zahra@zahra-System-Product-Name:/usr/local/software/fftw-3.2.1$ make install
```

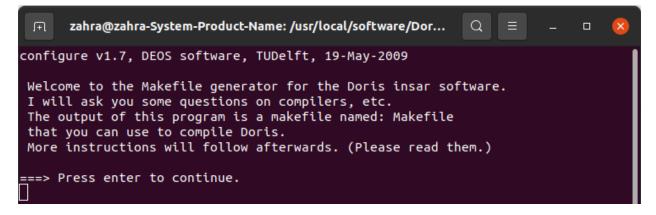
```
zahra@zahra-System-Product-Name: /usr/local/softwar...
  ΓŦ
                                                             Q
                                                                   \equiv
                                                                              /usr/local/software/fftw-3.2.1/bin/fftwf-wisdom'
libtool: install: /usr/bin/install -c fftwf-wisdom /usr/local/software/fftw-
3.2.1/bin/fftwf-wisdom
test -z "/usr/local/software/fftw-3.2.1/bin" || /usr/bin/mkdir -p "/usr/loca
l/software/fftw-3.2.1/bin"
 /usr/bin/install -c 'fftw-wisdom-to-conf' '/usr/local/software/fftw-3.2.1/b
in/fftw-wisdom-to-conf'
test -z "/usr/local/software/fftw-3.2.1/share/man/man1" || /usr/bin/mkdir -p
 "/usr/local/software/fftw-3.2.1/share/man/man1"
 /usr/bin/install -c -m 644 'fftw-wisdom-to-conf.1' '/usr/local/software/fft
w-3.2.1/share/man/man1/fftw-wisdom-to-conf.1'
 /usr/bin/install -c -m 644 'fftwf-wisdom.1' '/usr/local/software/fftw-3.2.1
/share/man/man1/fftwf-wisdom.1'
make[3]: Leaving directory '/usr/local/software/fftw-3.2.1/tools'
make[2]: Leaving directory '/usr/local/software/fftw-3.2.1/tools'
make[1]: Leaving directory '/usr/local/software/fftw-3.2.1/tools'
Making install in m4
make[1]: Entering directory '/usr/local/software/fftw-3.2.1/m4'
make[2]: Entering directory '/usr/local/software/fftw-3.2.1/m4'
make[2]: Nothing to be done for 'install-exec-am'.
make[2]: Nothing to be done for 'install-data-am'.
make[2]: Leaving directory '/usr/local/software/fftw-3.2.1/m4'
make[1]: Leaving directory '/usr/local/software/fftw-3.2.1/m4'
zahra@zahra-System-Product-Name:/usr/local/software/fftw-3.2.1$
```

I finished fftw installation, successfully.

To install Doris, I installed Python2.7, g++-7.5, gcc-7.5, and gfortran7.5. I can't install lower level of gcc, g++, and gfortran.







I answered to the some questions.

🗊 zahra@zahra-System-Product-Name: /usr/local/software/Dor 🔾 📃 – 🗆 😣
I found libfftw3f.a in//fftw-3.2.1/lib
===> What is your C++ compiler? [g++] g++
===> Do you have the FFTW library (y/n)? [y] v
===> What is the path to the FFTW library (libfftw3f.a or libfftw3f.so)? [// fftw-3.2.1/lib]
/usr/local/software/fftw-3.2.1/lib ===> What is the path to the FFTW include file (fftw3.h)? [//fftw-3.2.1/incl
ude] /usr/local/software/fftw-3.2.1/include
===> Do you have the VECLIB library (y/n)? [n]
 ===> Do you have the LAPACK library (y/n)? [n] n
 ===> Are you working on a Little Endian (X86 PC, Intel) machine (y/n)? [y] v
<pre>y ===&gt; Do you want to compile a more verbose DEBUG version (y/n)? [n] (You can first compile an optimal version, then perform a make clean, and then compile a debug version, which you can use in case doris does not produce expected results)</pre>
n ===> Installation of Doris in directory: /usr/local/bin (y/n)? [y]
n ===> Enter installation directory (use absolute path): /usr/local/doris

```
zahra@zahra-System-Product-Name: /usr/local/software/Dor...
 ΓŦ
                                                            Q
                                                                           n
===> Are you working on a Little Endian (X86 PC, Intel) machine (y/n)? [y]
===> Do you want to compile a more verbose DEBUG version (y/n)? [n]
     (You can first compile an optimal version, then perform a make clean,
      and then compile a debug version, which you can use in case doris
      does not produce expected results)
n
===> Installation of Doris in directory: /usr/local/bin (y/n)? [y]
n
===> Enter installation directory (use absolute path):
/usr/local/doris
 Creating Makefile for:
 compiler:
                 g++
 fftw:
                 у
                   /usr/local/software/fftw-3.2.1/lib
 FFTW LIB DIR:
 FFTW INCLUDE DIR: /usr/local/software/fftw-3.2.1/include
 veclib:
                 Π
 lapack:
                 n
 Little endian: y
 DEBUG version: n
Install in dir: /usr/local/doris
 file: Makefile will be OVERWRITTEN.
 ==> Press enter to continue (CTRL-C to exit).
```

