

Focus only on the blue lines

```
arnav@kapoor:~/Desktop$ sudo apt update  
sudo apt install build-essential libgsl-dev wget
```

```
[sudo] password for arnav:
```

```
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease  
Hit:2 https://packages.microsoft.com/repos/code stable InRelease  
Hit:3 https://dl.google.com/linux/chrome/deb stable InRelease  
Hit:4 http://archive.ubuntu.com/ubuntu jammy InRelease  
Hit:5 http://in.archive.ubuntu.com/ubuntu noble InRelease  
Hit:6 http://security.ubuntu.com/ubuntu noble-security InRelease  
Hit:7 http://packages.ros.org/ros2/ubuntu noble InRelease  
Hit:8 http://in.archive.ubuntu.com/ubuntu noble-updates InRelease  
Hit:9 https://ppa.launchpadcontent.net/malcscott/ppa/ubuntu noble InRelease  
Hit:10 https://esm.ubuntu.com/apps/ubuntu noble-apps-security InRelease  
Hit:11 https://ppa.launchpadcontent.net/touchegg/stable/ubuntu noble InRelease  
Hit:12 http://in.archive.ubuntu.com/ubuntu noble-backports InRelease  
Hit:13 https://esm.ubuntu.com/apps/ubuntu noble-apps-updates InRelease  
Hit:14 https://esm.ubuntu.com/infra/ubuntu noble-infra-security InRelease  
Hit:15 https://esm.ubuntu.com/infra/ubuntu noble-infra-updates InRelease  
Hit:16 https://esm.ubuntu.com/realtime/ubuntu noble InRelease
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
14 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
build-essential is already the newest version (12.10ubuntu1).
```

```
libgsl-dev is already the newest version (2.7.1+dfsg-6ubuntu2).
```

```
wget is already the newest version (1.21.4-1ubuntu4.1).
```

```
wget set to manually installed.
```

```
0 upgraded, 0 newly installed, 0 to remove and 14 not upgraded.
```

```
arnav@kapoor:~/Desktop$ sudo apt upgrade
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
Calculating upgrade... Done
```

```
The following upgrades have been deferred due to phasing:
```

```
  ibverbs-providers libibverbs1 libqt5qml5 libqt5qmlmodels5 libqt5quick5 librdmacm1t64  
libtraceevent1 libtraceevent1-plugin
```

```
  update-notifier update-notifier-common
```

```
The following packages will be upgraded:
```

```
  cloud-init gstreamer1.0-plugins-bad libgstreamer-plugins-bad1.0-0 openssh-client
```

```
4 upgraded, 0 newly installed, 0 to remove and 10 not upgraded.
```

```
2 esm-apps security updates
```

```
Need to get 5,394 kB of archives.
```

```
After this operation, 33.8 kB of additional disk space will be used.
```

```
Do you want to continue? [Y/n] y
```

```
Get:1 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 openssh-client amd64
1:9.6p1-3ubuntu13.12 [905 kB]
Get:2 https://esm.ubuntu.com/apps/ubuntu noble-apps-security/main amd64
gststreamer1.0-plugins-bad amd64 1.24.2-1ubuntu4+esm1 [3,084 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu noble-updates/main amd64 cloud-init all
25.1.2-0ubuntu0~24.04.1 [607 kB]
Get:4 https://esm.ubuntu.com/apps/ubuntu noble-apps-security/main amd64
libgststreamer-plugins-bad1.0-0 amd64 1.24.2-1ubuntu4+esm1 [798 kB]
Fetched 5,394 kB in 4s (1,422 kB/s)
Preconfiguring packages ...
(Reading database ... 345615 files and directories currently installed.)
Preparing to unpack .../openssh-client_1%3a9.6p1-3ubuntu13.12_amd64.deb ...
Unpacking openssh-client (1:9.6p1-3ubuntu13.12) over (1:9.6p1-3ubuntu13.11) ...
Preparing to unpack .../gststreamer1.0-plugins-bad_1.24.2-1ubuntu4+esm1_amd64.deb ...
Unpacking gststreamer1.0-plugins-bad:amd64 (1.24.2-1ubuntu4+esm1) over
(1.24.2-1ubuntu4) ...
Preparing to unpack .../libgststreamer-plugins-bad1.0-0_1.24.2-1ubuntu4+esm1_amd64.deb
...
Unpacking libgststreamer-plugins-bad1.0-0:amd64 (1.24.2-1ubuntu4+esm1) over
(1.24.2-1ubuntu4) ...
Preparing to unpack .../cloud-init_25.1.2-0ubuntu0~24.04.1_all.deb ...
Unpacking cloud-init (25.1.2-0ubuntu0~24.04.1) over (24.4.1-0ubuntu0~24.04.3) ...
dpkg: warning: unable to delete old directory '/lib/systemd/system/ssh-keygen@.service.d':
Directory not empty
Setting up cloud-init (25.1.2-0ubuntu0~24.04.1) ...
Installing new version of config file /etc/cloud/templates/sources.list.debian.deb822.tmpl ...
Installing new version of config file /etc/cloud/templates/sources.list.ubuntu.deb822.tmpl ...
Setting up openssh-client (1:9.6p1-3ubuntu13.12) ...
Setting up libgststreamer-plugins-bad1.0-0:amd64 (1.24.2-1ubuntu4+esm1) ...
Setting up gststreamer1.0-plugins-bad:amd64 (1.24.2-1ubuntu4+esm1) ...
Processing triggers for rsyslog (8.2312.0-3ubuntu9.1) ...
Processing triggers for man-db (2.12.0-4build2) ...
Processing triggers for libc-bin (2.39-0ubuntu8.4) ...
arnav@kapoor:~/Desktop$ wget
https://www.mpi-hd.mpg.de/personalhomes/globes/download/globes-3.2.18.tar.gz
--2025-06-07 10:41:26--
https://www.mpi-hd.mpg.de/personalhomes/globes/download/globes-3.2.18.tar.gz
Resolving www.mpi-hd.mpg.de (www.mpi-hd.mpg.de)... 149.217.99.101
Connecting to www.mpi-hd.mpg.de (www.mpi-hd.mpg.de)[149.217.99.101]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2003810 (1.9M) [application/x-gzip]
Saving to: 'globes-3.2.18.tar.gz'

globes-3.2.18.tar.gz
100%[=====>]
1.91M 1.05MB/s in 1.8s

2025-06-07 10:41:29 (1.05 MB/s) - 'globes-3.2.18.tar.gz' saved [2003810/2003810]
```

```
arnav@kapoor:~/Desktop$ tar -xzvf globes-3.2.18.tar.gz
```

```
globes-3.2.18/  
globes-3.2.18/depcomp  
globes-3.2.18/globes-config.in  
globes-3.2.18/INSTALL  
globes-3.2.18/configure  
globes-3.2.18/configure.in  
globes-3.2.18/doc/  
globes-3.2.18/doc/globes-discovery.1  
globes-3.2.18/doc/Makefile.in  
globes-3.2.18/doc/Makefile.am  
globes-3.2.18/config.sub  
globes-3.2.18/NEWS  
globes-3.2.18/mkinstalldirs  
globes-3.2.18/Makefile.in  
globes-3.2.18/config.rpath  
globes-3.2.18/m4/  
globes-3.2.18/m4/gnulib.m4  
globes-3.2.18/m4/itsugar.m4  
globes-3.2.18/m4/uintmax_t.m4  
globes-3.2.18/m4/swig.m4  
globes-3.2.18/m4/gnulib-cache.m4  
globes-3.2.18/m4/libtool.m4  
globes-3.2.18/m4/stdint_h.m4  
globes-3.2.18/m4/exitfail.m4  
globes-3.2.18/m4/ltversion.m4  
globes-3.2.18/m4/inttypes_h.m4  
globes-3.2.18/m4/ulonglong.m4  
globes-3.2.18/m4/lt~obsolete.m4  
globes-3.2.18/m4/swig_perl.m4  
globes-3.2.18/m4/rpm.m4  
globes-3.2.18/m4/gsl.m4  
globes-3.2.18/m4/obstack.m4  
globes-3.2.18/m4/ltoptions.m4  
globes-3.2.18/globes.spec.in  
globes-3.2.18/source/  
globes-3.2.18/source/glb_fluxes.h  
globes-3.2.18/source/glb_parser.y  
globes-3.2.18/source/glb_lexer.h  
globes-3.2.18/source/glb_prior.c  
globes-3.2.18/source/glb_parser.h  
globes-3.2.18/source/glb_tools_parser.h  
globes-3.2.18/source/glb_parser_addons.h  
globes-3.2.18/source/glb_profile.h  
globes-3.2.18/source/Makefile.in  
globes-3.2.18/source/glb_smear.h  
globes-3.2.18/source/glb_error.h  
globes-3.2.18/source/glb_parser.c
```

globes-3.2.18/source/glb_parser_type.h
globes-3.2.18/source/glb_lexer.c
globes-3.2.18/source/glb_lexer.l
globes-3.2.18/source/glb_multiex.h
globes-3.2.18/source/glb_tools_header.h
globes-3.2.18/source/glb_tools_eightfold.c
globes-3.2.18/source/glb_smear.c
globes-3.2.18/source/glb_path.c
globes-3.2.18/source/globes-simple.c
globes-3.2.18/source/glb_sys.c
globes-3.2.18/source/glb_prior.h
globes-3.2.18/source/glb_minimize.h
globes-3.2.18/source/glb_compat.c
globes-3.2.18/source/glb_glb.c
globes-3.2.18/source/glb_types.h
globes-3.2.18/source/glb_probability.h
globes-3.2.18/source/glb_rate_engine.h
globes-3.2.18/source/glb_tools_parser.c
globes-3.2.18/source/glb_wrapper.c
globes-3.2.18/source/glb_min_sup.h
globes-3.2.18/source/glb_tools_header.c
globes-3.2.18/source/glb_wrapper.h
globes-3.2.18/source/glb_probability.c
globes-3.2.18/source/globes.c
globes-3.2.18/source/glb_version.c
globes-3.2.18/source/glb_min_sup.c
globes-3.2.18/source/glb_fluxes.c
globes-3.2.18/source/globes-discovery.c
globes-3.2.18/source/glb_rate_engine.c
globes-3.2.18/source/Makefile.am
globes-3.2.18/source/glb_multiex.c
globes-3.2.18/source/globes-deltatheta.c
globes-3.2.18/source/glb_sys.h
globes-3.2.18/source/glb_error.c
globes-3.2.18/source/glb_tools_eightfold.h
globes-3.2.18/source/globes-accuracy.c
globes-3.2.18/source/glb_profile.c
globes-3.2.18/source/glb_path.h
globes-3.2.18/source/glb_version.h
globes-3.2.18/source/glb_minimize.c
globes-3.2.18/compile
globes-3.2.18/TODO
globes-3.2.18/config-h.in
globes-3.2.18/COPYING
globes-3.2.18/aclocal.m4
globes-3.2.18/data/
globes-3.2.18/data/md5-sums
globes-3.2.18/data/SuperBeam/

globes-3.2.18/data/SuperBeam/NOvA/
globes-3.2.18/data/SuperBeam/NOvA/XNC.dat
globes-3.2.18/data/SuperBeam/NOvA/XCC.dat
globes-3.2.18/data/SuperBeam/NOvA/NOvA.glb
globes-3.2.18/data/SuperBeam/NOvA/NOvAminus.dat
globes-3.2.18/data/SuperBeam/NOvA/NOvAplus.dat
globes-3.2.18/data/SuperBeam/T2HK/
globes-3.2.18/data/SuperBeam/T2HK/XNC.dat
globes-3.2.18/data/SuperBeam/T2HK/XCC.dat
globes-3.2.18/data/SuperBeam/T2HK/XQE.dat
globes-3.2.18/data/SuperBeam/T2HK/JHFminus.dat
globes-3.2.18/data/SuperBeam/T2HK/T2HK.glb
globes-3.2.18/data/SuperBeam/T2HK/JHFplus.dat
globes-3.2.18/data/SuperBeam/T2K/
globes-3.2.18/data/SuperBeam/T2K/XNC.dat
globes-3.2.18/data/SuperBeam/T2K/XCC.dat
globes-3.2.18/data/SuperBeam/T2K/XQE.dat
globes-3.2.18/data/SuperBeam/T2K/JHFminus.dat
globes-3.2.18/data/SuperBeam/T2K/JHFplus.dat
globes-3.2.18/data/SuperBeam/T2K/T2K.glb
globes-3.2.18/data/SuperBeam/SPL/
globes-3.2.18/data/SuperBeam/SPL/XNC_spl.dat
globes-3.2.18/data/SuperBeam/SPL/XCC_spl.dat
globes-3.2.18/data/SuperBeam/SPL/Mig_WC_numubar.dat
globes-3.2.18/data/SuperBeam/SPL/Mig_WC_numu.dat
globes-3.2.18/data/SuperBeam/SPL/SPLplus.dat
globes-3.2.18/data/SuperBeam/SPL/SPL.glb
globes-3.2.18/data/SuperBeam/SPL/Mig_WC_nuebar.dat
globes-3.2.18/data/SuperBeam/SPL/Mig_WC_nue.dat
globes-3.2.18/data/SuperBeam/SPL/SPLminus.dat
globes-3.2.18/data/Makefile.in
globes-3.2.18/data/NuFact/
globes-3.2.18/data/NuFact/GoldSilver/
globes-3.2.18/data/NuFact/GoldSilver/XNC.dat
globes-3.2.18/data/NuFact/GoldSilver/XCC.dat
globes-3.2.18/data/NuFact/GoldSilver/NF_GoldSilver.glb
globes-3.2.18/data/NuFact/Standard/
globes-3.2.18/data/NuFact/Standard/XNC.dat
globes-3.2.18/data/NuFact/Standard/XCC.dat
globes-3.2.18/data/NuFact/Standard/NFstandard.glb
globes-3.2.18/data/NuFact/Variable/
globes-3.2.18/data/NuFact/Variable/XNC.dat
globes-3.2.18/data/NuFact/Variable/XCC.dat
globes-3.2.18/data/NuFact/Variable/NFvar.glb
globes-3.2.18/data/NuFact/HighResLowThresh/
globes-3.2.18/data/NuFact/HighResLowThresh/XNC.dat
globes-3.2.18/data/NuFact/HighResLowThresh/XCC.dat
globes-3.2.18/data/NuFact/HighResLowThresh/NF_hR_IT.glb

globes-3.2.18/data/Reactor/
globes-3.2.18/data/Reactor/small/
globes-3.2.18/data/Reactor/small/Reactor.dat
globes-3.2.18/data/Reactor/small/XCCreactor.dat
globes-3.2.18/data/Reactor/small/Reactor1.glb
globes-3.2.18/data/Reactor/DoubleCHOOZ/
globes-3.2.18/data/Reactor/DoubleCHOOZ/D-Chooz_near.glb
globes-3.2.18/data/Reactor/DoubleCHOOZ/Reactor.dat
globes-3.2.18/data/Reactor/DoubleCHOOZ/XCCreactor.dat
globes-3.2.18/data/Reactor/DoubleCHOOZ/D-Chooz_far.glb
globes-3.2.18/data/Reactor/large/
globes-3.2.18/data/Reactor/large/Reactor.dat
globes-3.2.18/data/Reactor/large/XCCreactor.dat
globes-3.2.18/data/Reactor/large/Reactor2.glb
globes-3.2.18/data/Makefile.am
globes-3.2.18/data/BetaBeam/
globes-3.2.18/data/BetaBeam/BB350/
globes-3.2.18/data/BetaBeam/BB350/XNC.dat
globes-3.2.18/data/BetaBeam/BB350/XCC.dat
globes-3.2.18/data/BetaBeam/BB350/HeBckgRej350.dat
globes-3.2.18/data/BetaBeam/BB350/HeDisEffMig350.dat
globes-3.2.18/data/BetaBeam/BB350/HeEffMig350.dat
globes-3.2.18/data/BetaBeam/BB350/BB_350.glb
globes-3.2.18/data/BetaBeam/BB350/NeBckgRej350.dat
globes-3.2.18/data/BetaBeam/BB350/BB350flux.dat
globes-3.2.18/data/BetaBeam/BB350/NeEffMig350.dat
globes-3.2.18/data/BetaBeam/BB350/NeDisEffMig350.dat
globes-3.2.18/data/BetaBeam/BB100/
globes-3.2.18/data/BetaBeam/BB100/BeamBckg_100.dat
globes-3.2.18/data/BetaBeam/BB100/Mig_WC_numubar.dat
globes-3.2.18/data/BetaBeam/BB100/Null.dat
globes-3.2.18/data/BetaBeam/BB100/BB100flux_Ne.dat
globes-3.2.18/data/BetaBeam/BB100/BB100flux_He.dat
globes-3.2.18/data/BetaBeam/BB100/BB_100.glb
globes-3.2.18/data/BetaBeam/BB100/Mig_WC_numu.dat
globes-3.2.18/data/BetaBeam/BB100/XNC_Nuance.dat
globes-3.2.18/data/BetaBeam/BB100/AtmBckg_100.dat
globes-3.2.18/data/BetaBeam/BB100/Mig_WC_nuebar.dat
globes-3.2.18/data/BetaBeam/BB100/Mig_WC_nue.dat
globes-3.2.18/data/BetaBeam/BB100/XCC_Nuance.dat
globes-3.2.18/data/BetaBeam/BB_TASD/
globes-3.2.18/data/BetaBeam/BB_TASD/XNC.dat
globes-3.2.18/data/BetaBeam/BB_TASD/XCC.dat
globes-3.2.18/data/BetaBeam/BB_TASD/BBvar_TASD.glb
globes-3.2.18/data/BetaBeam/BB_WC/
globes-3.2.18/data/BetaBeam/BB_WC/XNC.dat
globes-3.2.18/data/BetaBeam/BB_WC/XCC.dat
globes-3.2.18/data/BetaBeam/BB_WC/XQE.dat

globes-3.2.18/data/BetaBeam/BB_WC/BBvar_WC.glb
globes-3.2.18/data/BetaBeam/BB_WC/BckgMig_var.dat
globes-3.2.18/Makefile.am
globes-3.2.18/README
globes-3.2.18/ylwrap
globes-3.2.18/missing
globes-3.2.18/lib/
globes-3.2.18/lib/gettext.h
globes-3.2.18/lib/Makefile.in
globes-3.2.18/lib/obstack.c
globes-3.2.18/lib/obstack.h
globes-3.2.18/lib/exitfail.c
globes-3.2.18/lib/Makefile.am
globes-3.2.18/lib/exitfail.h
globes-3.2.18/lib/exit.h
globes-3.2.18/acinclude.m4
globes-3.2.18/config.guess
globes-3.2.18/AUTHORS
globes-3.2.18/globes.m4
globes-3.2.18/ChangeLog
globes-3.2.18/install-sh
globes-3.2.18/BUGS
globes-3.2.18/examples/
globes-3.2.18/examples/XNC.dat
globes-3.2.18/examples/example2.c
globes-3.2.18/examples/XCC.dat
globes-3.2.18/examples/D-Chooz_near.glb
globes-3.2.18/examples/Makefile.in
globes-3.2.18/examples/Reactor.dat
globes-3.2.18/examples/myio.h
globes-3.2.18/examples/XCCreactor.dat
globes-3.2.18/examples/NFstandard.glb
globes-3.2.18/examples/example1.c
globes-3.2.18/examples/example4.c
globes-3.2.18/examples/example5.c
globes-3.2.18/examples/Reactor1.glb
globes-3.2.18/examples/example3.c
globes-3.2.18/examples/D-Chooz_far.glb
globes-3.2.18/examples/example-tour.c
globes-3.2.18/examples/myio.c
globes-3.2.18/examples/example6.c
globes-3.2.18/examples/DocPlots.nb
globes-3.2.18/ltmain.sh
globes-3.2.18/ltconfig
globes-3.2.18/globes/
globes-3.2.18/globes/glb-modules.h
globes-3.2.18/globes/globes.i
globes-3.2.18/globes/Makefile.in

```
globes-3.2.18/globes/globes.h
globes-3.2.18/globes/globes.pm
globes-3.2.18/globes/Makefile.am
globes-3.2.18/globes/example.pl.in
globes-3.2.18/globes/globes_perl.c
arnav@kapoor:~/Desktop$ cd globes-3.2.18
arnav@kapoor:~/Desktop/globes-3.2.18$ ./configure
checking for a BSD-compatible install... /usr/bin/install -c
checking whether build environment is sane... yes
/home/arnav/Desktop/globes-3.2.18/missing: Unknown `--is-lightweight' option
Try `/home/arnav/Desktop/globes-3.2.18/missing --help' for more information
configure: WARNING: 'missing' script is too old or missing
checking for a thread-safe mkdir -p... /usr/bin/mkdir -p
checking for gawk... no
checking for mawk... mawk
checking whether make sets $(MAKE)... yes
checking whether make supports nested variables... yes
checking whether to enable maintainer-specific portions of Makefiles... no
checking whether make supports nested variables... (cached) yes
checking for gcc... gcc
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking for suffix of executables...
checking whether we are cross compiling... no
checking for suffix of object files... o
checking whether we are using the GNU C compiler... yes
checking whether gcc accepts -g... yes
checking for gcc option to accept ISO C89... none needed
checking whether gcc understands -c and -o together... yes
checking whether make supports the include directive... yes (GNU style)
checking dependency style of gcc... gcc3
checking for gcc option to accept ISO C99... none needed
checking how to run the C preprocessor... gcc -E
checking whether ln -s works... yes
checking for bison... bison -y
checking for flex... flex
checking lex output file root... lex.yy
checking lex library... -lfl
checking whether yytext is a pointer... yes
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking how to print strings... printf
checking for a sed that does not truncate output... /usr/bin/sed
checking for grep that handles long lines and -e... /usr/bin/grep
checking for egrep... /usr/bin/grep -E
checking for fgrep... /usr/bin/grep -F
checking for ld used by gcc... /usr/bin/ld
checking if the linker (/usr/bin/ld) is GNU ld... yes
```


checking for BSD- or MS-compatible name lister (nm)... /usr/bin/nm -B
checking the name lister (/usr/bin/nm -B) interface... BSD nm
checking the maximum length of command line arguments... 1572864
checking whether the shell understands some XSI constructs... yes
checking whether the shell understands "+="... yes
checking how to convert x86_64-unknown-linux-gnu file names to
x86_64-unknown-linux-gnu format... func_convert_file_noop
checking how to convert x86_64-unknown-linux-gnu file names to toolchain format...
func_convert_file_noop
checking for /usr/bin/ld option to reload object files... -r
checking for objdump... objdump
checking how to recognize dependent libraries... pass_all
checking for dlltool... no
checking how to associate runtime and link libraries... printf %s\n
checking for ar... ar
checking for archiver @FILE support... @
checking for strip... strip
checking for ranlib... ranlib
checking command to parse /usr/bin/nm -B output from gcc object... ok
checking for sysroot... no
checking for mt... mt
checking if mt is a manifest tool... no
checking for ANSI C header files... yes
checking for sys/types.h... yes
checking for sys/stat.h... yes
checking for stdlib.h... yes
checking for string.h... yes
checking for memory.h... yes
checking for strings.h... yes
checking for inttypes.h... yes
checking for stdint.h... yes
checking for unistd.h... yes
checking for dlfcn.h... yes
checking for objdir... .libs
checking if gcc supports -fno-rtti -fno-exceptions... no
checking for gcc option to produce PIC... -fPIC -DPIC
checking if gcc PIC flag -fPIC -DPIC works... yes
checking if gcc static flag -static works... yes
checking if gcc supports -c -o file.o... yes
checking if gcc supports -c -o file.o... (cached) yes
checking whether the gcc linker (/usr/bin/ld -m elf_x86_64) supports shared libraries... yes
checking whether -lc should be explicitly linked in... no
checking dynamic linker characteristics... GNU/Linux ld.so
checking how to hardcode library paths into programs... immediate
checking whether stripping libraries is possible... yes
checking if libtool supports shared libraries... yes
checking whether to build shared libraries... yes
checking whether to build static libraries... yes

```

checking for inttypes.h... yes
checking for stdint.h... yes
checking for unsigned long long... yes
checking for obstacks... yes
checking for swig... no
checking for main in -lm... yes
checking for gsl-config... /usr/bin/gsl-config
checking for GSL - version >= 0.2.5... yes
checking gsl/gsl_math.h usability... yes
checking gsl/gsl_math.h presence... yes
checking for gsl/gsl_math.h... yes
checking gsl/gsl_sf_erf.h usability... yes
checking gsl/gsl_sf_erf.h presence... yes
checking for gsl/gsl_sf_erf.h... yes
checking gsl/gsl_errno.h usability... yes
checking gsl/gsl_errno.h presence... yes
checking for gsl/gsl_errno.h... yes
checking for ANSI C header files... (cached) yes
checking for an ANSI C-conforming const... yes
checking for size_t... yes
checking for strdup... yes
checking for mkstemp... yes
checking for tempnam... yes
checking for working alloca.h... yes
checking for alloca... yes
Not trying to build rpms for your system (use --enable-rpm-rules to override)
checking that generated files are newer than configure... done
configure: creating ./config.status
config.status: creating globes.spec
config.status: creating Makefile
config.status: creating globes/Makefile
config.status: creating globes/example.pl
config.status: creating source/Makefile
config.status: creating examples/Makefile
config.status: creating data/Makefile
config.status: creating globes-config
config.status: creating doc/Makefile
config.status: creating lib/Makefile
config.status: creating config.h
config.status: executing depfiles commands
config.status: executing libtool commands
*****
*       After 'make install':       *
* Do not forget to run 'ldconfig' as root! *
*****
arnav@kapoor:~/Desktop/globes-3.2.18$ make
make all-recursive
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18'

```

Making all in lib

make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/lib'

make all-am

make[3]: Entering directory '/home/arnav/Desktop/globes-3.2.18/lib'

CC exitfail.lo

CCLD libgnu.la

ar: `u' modifier ignored since `D' is the default (see `U')

make[3]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/lib'

make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/lib'

Making all in source

make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/source'

make all-am

make[3]: Entering directory '/home/arnav/Desktop/globes-3.2.18/source'

CC globes.o

CC libglobes_la-glb_minimize.lo

CC libglobes_la-glb_error.lo

CC libglobes_la-glb_path.lo

CC libglobes_la-glb_multiex.lo

CC libglobes_la-glb_version.lo

CC libglobes_la-glb_rate_engine.lo

CC libglobes_la-glb_parser.lo

glb_parser.y: In function 'glbInitExperiment':

glb_parser.y:2176:16: warning: format '%c' expects argument of type 'char *', but argument 3 has type 'char (*)[11]' [-Wformat=]

```
2176 | fscanf(input,"%08c",&tct);
```

```
    |           ^~~~~ ~~~~
    |           |
    |           char (*)[11]
```

glb_parser.y:2176:3: warning: ignoring return value of 'fscanf' declared with attribute 'warn_unused_result' [-Wunused-result]

```
2176 | fscanf(input,"%08c",&tct);
```

```
    | ^~~~~~
```

CC libglobes_la-glb_min_sup.lo

CC libglobes_la-glb_fluxes.lo

CC libglobes_la-glb_smear.lo

CC libglobes_la-glb_lexer.lo

glb_lexer.c: In function 'yy_init_buffer':

glb_lexer.c:2436:40: warning: implicit declaration of function 'isatty' [-Wimplicit-function-declaration]

```
2436 |     b->yy_is_interactive = file ? (isatty( fileno(file) ) > 0) : 0;
```

```
    |           ^~~~~~
```

CC libglobes_la-glb_probability.lo

CC libglobes_la-glb_profile.lo

glb_profile.c: In function 'glbLoadProfileData':

glb_profile.c:122:31: warning: ignoring return value of 'fscanf' declared with attribute 'warn_unused_result' [-Wunused-result]

```
122 |     for (i=0; i<steps; i++) fscanf(fp,"%lf %lf",&l[i],&d[i]);
```

```
    |           ^~~~~~
```

```

CC      libglobes_la-glb_sys.lo
CC      libglobes_la-glb_wrapper.lo
CC      libglobes_la-glb_glb.lo
CC      libglobes_la-glb_prior.lo
CC      libglobes_la-glb_compat.lo
CCLD    libglobes.la
ar: `u' modifier ignored since `D' is the default (see `U')
CCLD    globes
CC      glb_tools_parser.o
glb_tools_parser.c: In function 'vector_read_double':
glb_tools_parser.c:109:13: warning: implicit declaration of function 'isspace'
[-Wimplicit-function-declaration]
  109 |     while(isspace(wrk[0])) wrk++;
      |           ^~~~~~
glb_tools_parser.c:33:1: note: include '<ctype.h>' or provide a declaration of 'isspace'
   32 | #include "globes/globes.h"
      |
+++ |+#include <ctype.h>
   33 |
CC      glb_tools_header.o
CC      glb_tools_eightfold.o
CC      globes-accuracy.o
CCLD    globes-accuracy
CC      globes-deltatheta.o
CCLD    globes-deltatheta
CC      globes-discovery.o
CCLD    globes-discovery
CC      globes-simple.o
CCLD    globes-simple
make[3]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/source'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/source'
Making all in data
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/data'
make[2]: Nothing to be done for 'all'.
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/data'
Making all in globes
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/globes'
make all-am
make[3]: Entering directory '/home/arnav/Desktop/globes-3.2.18/globes'
make[3]: Nothing to be done for 'all-am'.
make[3]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/globes'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/globes'
Making all in doc
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/doc'
make[2]: Nothing to be done for 'all'.
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/doc'
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18'
make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18'

```

```

arnav@kapoor:~/Desktop/globes-3.2.18$ sudo make install
Making install in lib
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18/lib'
make install-am
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/lib'
make[3]: Entering directory '/home/arnav/Desktop/globes-3.2.18/lib'
make[3]: Nothing to be done for 'install-exec-am'.
make[3]: Nothing to be done for 'install-data-am'.
make[3]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/lib'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/lib'
make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/lib'
Making install in source
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18/source'
make install-am
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/source'
make[3]: Entering directory '/home/arnav/Desktop/globes-3.2.18/source'
/usr/bin/mkdir -p '/usr/local/lib'
/bin/bash ../libtool --mode=install /usr/bin/install -c libglobes.la '/usr/local/lib'
libtool: install: /usr/bin/install -c .libs/libglobes.so.8.3.2 /usr/local/lib/libglobes.so.8.3.2
libtool: install: (cd /usr/local/lib && { ln -s -f libglobes.so.8.3.2 libglobes.so.8 || { rm -f
libglobes.so.8 && ln -s libglobes.so.8.3.2 libglobes.so.8; }; })
libtool: install: (cd /usr/local/lib && { ln -s -f libglobes.so.8.3.2 libglobes.so || { rm -f
libglobes.so && ln -s libglobes.so.8.3.2 libglobes.so; }; })
libtool: install: /usr/bin/install -c .libs/libglobes.lai /usr/local/lib/libglobes.la
libtool: install: /usr/bin/install -c .libs/libglobes.a /usr/local/lib/libglobes.a
libtool: install: chmod 644 /usr/local/lib/libglobes.a
libtool: install: ranlib /usr/local/lib/libglobes.a
libtool: finish: PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/snap/bin:/sbin"
ldconfig -n /usr/local/lib

```

Libraries have been installed in:
 /usr/local/lib

If you ever happen to want to link against installed libraries in a given directory, LIBDIR, you must either use libtool, and specify the full pathname of the library, or use the '-LLIBDIR' flag during linking and do at least one of the following:

- add LIBDIR to the 'LD_LIBRARY_PATH' environment variable during execution
- add LIBDIR to the 'LD_RUN_PATH' environment variable during linking
- use the '-Wl,-rpath -Wl,LIBDIR' linker flag
- have your system administrator add LIBDIR to '/etc/ld.so.conf'

See any operating system documentation about shared libraries for more information, such as the ld(1) and ld.so(8) manual pages.

```

/usr/bin/mkdir -p '/usr/local/bin'

```

```

/bin/bash ../libtool --mode=install /usr/bin/install -c globes globes-accuracy
globes-deltatheta globes-discovery globes-simple '/usr/local/bin'
libtool: install: /usr/bin/install -c .libs/globes /usr/local/bin/globes
libtool: install: /usr/bin/install -c .libs/globes-accuracy /usr/local/bin/globes-accuracy
libtool: install: /usr/bin/install -c .libs/globes-deltatheta /usr/local/bin/globes-deltatheta
libtool: install: /usr/bin/install -c .libs/globes-discovery /usr/local/bin/globes-discovery
libtool: install: /usr/bin/install -c .libs/globes-simple /usr/local/bin/globes-simple
make[3]: Nothing to be done for 'install-data-am'.
make[3]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/source'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/source'
make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/source'
Making install in data
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18/data'
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/data'
make[2]: Nothing to be done for 'install-exec-am'.
/usr/bin/mkdir -p '/usr/local/share/globes'
/usr/bin/mkdir -p '/usr/local/share/globes/SuperBeam/T2HK'
/usr/bin/install -c -m 644 SuperBeam/T2HK/JHFminus.dat SuperBeam/T2HK/JHFplus.dat
SuperBeam/T2HK/T2HK.glb SuperBeam/T2HK/XCC.dat SuperBeam/T2HK/XNC.dat
SuperBeam/T2HK/XQE.dat '/usr/local/share/globes/SuperBeam/T2HK'
/usr/bin/mkdir -p '/usr/local/share/globes/NuFact/Variable'
/usr/bin/install -c -m 644 NuFact/Variable/NFvar.glb NuFact/Variable/XCC.dat
NuFact/Variable/XNC.dat '/usr/local/share/globes/NuFact/Variable'
/usr/bin/mkdir -p '/usr/local/share/globes/SuperBeam/T2K'
/usr/bin/install -c -m 644 SuperBeam/T2K/JHFminus.dat SuperBeam/T2K/JHFplus.dat
SuperBeam/T2K/T2K.glb SuperBeam/T2K/XCC.dat SuperBeam/T2K/XNC.dat
SuperBeam/T2K/XQE.dat '/usr/local/share/globes/SuperBeam/T2K'
/usr/bin/mkdir -p '/usr/local/share/globes/BetaBeam/BB_WC'
/usr/bin/install -c -m 644 BetaBeam/BB_WC/BBvar_WC.glb
BetaBeam/BB_WC/BckgMig_var.dat BetaBeam/BB_WC/XCC.dat
BetaBeam/BB_WC/XNC.dat BetaBeam/BB_WC/XQE.dat
'/usr/local/share/globes/BetaBeam/BB_WC'
/usr/bin/mkdir -p '/usr/local/share/globes/BetaBeam/BB_TASD'
/usr/bin/install -c -m 644 BetaBeam/BB_TASD/BBvar_TASD.glb
BetaBeam/BB_TASD/XCC.dat BetaBeam/BB_TASD/XNC.dat
'/usr/local/share/globes/BetaBeam/BB_TASD'
/usr/bin/mkdir -p '/usr/local/share/globes/BetaBeam/BB100'
/usr/bin/install -c -m 644 BetaBeam/BB100/AtmBckg_100.dat
BetaBeam/BB100/BB100flux_He.dat BetaBeam/BB100/BB100flux_Ne.dat
BetaBeam/BB100/BB_100.glb BetaBeam/BB100/BeamBckg_100.dat
BetaBeam/BB100/Mig_WC_nue.dat BetaBeam/BB100/Mig_WC_nuebar.dat
BetaBeam/BB100/Mig_WC_numu.dat BetaBeam/BB100/Mig_WC_numubar.dat
BetaBeam/BB100/Null.dat BetaBeam/BB100/XCC_Nuance.dat
BetaBeam/BB100/XNC_Nuance.dat '/usr/local/share/globes/BetaBeam/BB100'
/usr/bin/mkdir -p '/usr/local/share/globes/Reactor/large'
/usr/bin/install -c -m 644 Reactor/large/Reactor.dat Reactor/large/Reactor2.glb
Reactor/large/XCCreactor.dat '/usr/local/share/globes/Reactor/large'
/usr/bin/mkdir -p '/usr/local/share/globes/BetaBeam/BB350'

```

```

/usr/bin/install -c -m 644 BetaBeam/BB350/BB350flux.dat BetaBeam/BB350/BB_350.glb
BetaBeam/BB350/HeBckgRej350.dat BetaBeam/BB350/HeDisEffMig350.dat
BetaBeam/BB350/HeEffMig350.dat BetaBeam/BB350/NeBckgRej350.dat
BetaBeam/BB350/NeDisEffMig350.dat BetaBeam/BB350/NeEffMig350.dat
BetaBeam/BB350/XCC.dat BetaBeam/BB350/XNC.dat
'/usr/local/share/globes/BetaBeam/BB350'
/usr/bin/mkdir -p '/usr/local/share/globes/Reactor/DoubleCHOOZ'
/usr/bin/install -c -m 644 Reactor/DoubleCHOOZ/D-Chooz_far.glb
Reactor/DoubleCHOOZ/D-Chooz_near.glb Reactor/DoubleCHOOZ/Reactor.dat
Reactor/DoubleCHOOZ/XCCreacator.dat '/usr/local/share/globes/Reactor/DoubleCHOOZ'
/usr/bin/mkdir -p '/usr/local/share/globes/NuFact/Standard'
/usr/bin/install -c -m 644 NuFact/Standard/NFstandard.glb NuFact/Standard/XCC.dat
NuFact/Standard/XNC.dat '/usr/local/share/globes/NuFact/Standard'
/usr/bin/mkdir -p '/usr/local/share/globes/NuFact/GoldSilver'
/usr/bin/install -c -m 644 NuFact/GoldSilver/NF_GoldSilver.glb NuFact/GoldSilver/XCC.dat
NuFact/GoldSilver/XNC.dat '/usr/local/share/globes/NuFact/GoldSilver'
/usr/bin/mkdir -p '/usr/local/share/globes/NuFact/HighResLowThresh'
/usr/bin/install -c -m 644 NuFact/HighResLowThresh/NF_hR_IT.glb
NuFact/HighResLowThresh/XCC.dat NuFact/HighResLowThresh/XNC.dat
'/usr/local/share/globes/NuFact/HighResLowThresh'
/usr/bin/mkdir -p '/usr/local/share/globes/SuperBeam/SPL'
/usr/bin/install -c -m 644 SuperBeam/SPL/Mig_WC_nue.dat
SuperBeam/SPL/Mig_WC_nuebar.dat SuperBeam/SPL/Mig_WC_numu.dat
SuperBeam/SPL/Mig_WC_numubar.dat SuperBeam/SPL/SPL.glb
SuperBeam/SPL/SPLminus.dat SuperBeam/SPL/SPLplus.dat SuperBeam/SPL/XCC_spl.dat
SuperBeam/SPL/XNC_spl.dat '/usr/local/share/globes/SuperBeam/SPL'
/usr/bin/mkdir -p '/usr/local/share/globes/Reactor/small'
/usr/bin/install -c -m 644 Reactor/small/Reactor.dat Reactor/small/Reactor1.glb
Reactor/small/XCCreacator.dat '/usr/local/share/globes/Reactor/small'
/usr/bin/mkdir -p '/usr/local/share/globes/SuperBeam/NOvA'
/usr/bin/install -c -m 644 SuperBeam/NOvA/NOvA.glb SuperBeam/NOvA/NOvAminus.dat
SuperBeam/NOvA/NOvAplus.dat SuperBeam/NOvA/XCC.dat SuperBeam/NOvA/XNC.dat
'/usr/local/share/globes/SuperBeam/NOvA'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/data'
make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/data'
Making install in globes
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18/globes'
make install-am
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/globes'
make[3]: Entering directory '/home/arnav/Desktop/globes-3.2.18/globes'
make install-exec-hook
make[4]: Entering directory '/home/arnav/Desktop/globes-3.2.18/globes'
:
make[4]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/globes'
/usr/bin/mkdir -p '/usr/local/include/globes'
/usr/bin/install -c -m 644 globes.h glb-modules.h '/usr/local/include/globes'
make[3]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/globes'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/globes'

```

```

make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/globes'
Making install in doc
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18/doc'
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18/doc'
make[2]: Nothing to be done for 'install-exec-am'.
/usr/bin/mkdir -p '/usr/local/share/man/man1'
/usr/bin/install -c -m 644 globes-discovery.1 '/usr/local/share/man/man1'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/doc'
make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18/doc'
make[1]: Entering directory '/home/arnav/Desktop/globes-3.2.18'
make[2]: Entering directory '/home/arnav/Desktop/globes-3.2.18'
/usr/bin/mkdir -p '/usr/local/bin'
/usr/bin/install -c globes-config '/usr/local/bin'
/usr/bin/mkdir -p '/usr/local/share/aclocal'
/usr/bin/install -c -m 644 globes.m4 '/usr/local/share/aclocal'
make[2]: Leaving directory '/home/arnav/Desktop/globes-3.2.18'
make[1]: Leaving directory '/home/arnav/Desktop/globes-3.2.18'
arnav@kapoor:~/Desktop/globes-3.2.18$ globes-config --version
Package 3.2.18
Library 11:2:3
arnav@kapoor:~/Desktop/globes-3.2.18$ cd examples
arnav@kapoor:~/Desktop/globes-3.2.18/examples$ ls
D-Chooz_far.glb  example1.c  example4.c  example-tour.c  myio.c      Reactor1.glb
XCCreactor.dat
D-Chooz_near.glb  example2.c  example5.c  Makefile      myio.h      Reactor.dat  XNC.dat
DocPlots.nb       example3.c  example6.c  Makefile.in   NFstandard.glb  XCC.dat
arnav@kapoor:~/Desktop/globes-3.2.18/examples$ gcc example1.c myio.c -o example1
`globes-config --cflags --libs`
myio.c: In function 'InitOutput':
myio.c:32:2: warning: format not a string literal and no format arguments [-Wformat-security]
  32 | if(strlen(THEFILE)==0) printf(headline);
     |   ^~
myio.c:42:5: warning: format not a string literal and no format arguments [-Wformat-security]
  42 |     fprintf(f,headline);
     |     ^~~~~~
arnav@kapoor:~/Desktop/globes-3.2.18/examples$ ./example1
arnav@kapoor:~/Desktop/globes-3.2.18/examples$ ls -lt
total 2852
-rw-rw-r-- 1 arnav arnav  54181 Jun  7 10:44 test1.dat
-rwxrwxr-x 1 arnav arnav  26128 Jun  7 10:44 example1
-rw-rw-r-- 1 arnav arnav   2879 Jun  7 10:41 Makefile
-rw-r--r-- 1 arnav arnav  17878 Jan 10 2012 example5.c
-rw-r--r-- 1 arnav arnav 142090 Jan 10 2012 XNC.dat
-rw-r--r-- 1 arnav arnav   5161 Nov 21 2007 D-Chooz_far.glb
-rw-r--r-- 1 arnav arnav   5008 Nov 21 2007 D-Chooz_near.glb
-rw-r--r-- 1 arnav arnav 2319930 Nov 21 2007 DocPlots.nb
-rw-r--r-- 1 arnav arnav   3032 Nov 21 2007 example1.c
-rw-r--r-- 1 arnav arnav   4041 Nov 21 2007 example2.c

```



```
-rw-r--r-- 1 arnav arnav 3718 Nov 21 2007 example3.c
-rw-r--r-- 1 arnav arnav 7168 Nov 21 2007 example4.c
-rw-r--r-- 1 arnav arnav 10556 Nov 21 2007 example6.c
-rw-r--r-- 1 arnav arnav 10527 Nov 21 2007 example-tour.c
-rw-r--r-- 1 arnav arnav 2871 Nov 21 2007 Makefile.in
-rw-r--r-- 1 arnav arnav 1958 Nov 21 2007 myio.c
-rw-r--r-- 1 arnav arnav 1435 Nov 21 2007 myio.h
-rw-r--r-- 1 arnav arnav 3885 Nov 21 2007 NFstandard.glb
-rw-r--r-- 1 arnav arnav 2113 Nov 21 2007 Reactor1.glb
-rw-r--r-- 1 arnav arnav 37688 Nov 21 2007 Reactor.dat
-rw-r--r-- 1 arnav arnav 66692 Nov 21 2007 XCCreator.dat
-rw-r--r-- 1 arnav arnav 143902 Nov 7 2007 XCC.dat
arnav@kapoor:~/Desktop/globes-3.2.18/examples$ nano test1.dat
```

By default, GLoBES just computes data (like χ^2 values or event rates) and logs them as text.