

sudo apt-get install subversion

```
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
asymptote-doc bbswitch-dkms fonts-gfs-baskerville fonts-gfs-porson
fonts-hosny-amiri fonts-jsmath freeglut3 guile-1.8-libs lib32gcc1 libc6-i386
libcuda1-331 libgsl0ldbl libjpeg-progs libjpeg-turbo-progs libtiff-tools
libwxbase3.0-0 libwxgtk3.0-0 maxima nvidia-settings ps2eps python-imaging-tk
screen-resolution-extra swath texmacs-common ttf-jsmath
Use 'apt-get autoremove' to remove them.
The following extra packages will be installed:
  libserf-1-1 libsvn1
Suggested packages:
  subversion-tools db5.3-util
The following NEW packages will be installed:
  libserf-1-1 libsvn1 subversion
0 upgraded, 3 newly installed, 0 to remove and 6 not upgraded.
Need to get 1,240 kB of archives.
After this operation, 4,701 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://mirror.iranserver.com/ubuntu/ trusty-updates/main libserf-1-1 amd64 1.3.3-1ubuntu0.1 [42.2 kB]
Get:2 http://mirror.iranserver.com/ubuntu/ trusty-updates/main libsvn1 amd64 1.8.8-1ubuntu3.1 [917 kB]
Get:3 http://mirror.iranserver.com/ubuntu/ trusty-updates/main subversion amd64 1.8.8-1ubuntu3.1 [280 kB]
Fetched 1,240 kB in 8s (144 kB/s)
Selecting previously unselected package libserf-1-1:amd64.
(Reading database ... 547539 files and directories currently installed.)
Preparing to unpack .../libserf-1-1_1.3.3-1ubuntu0.1_amd64.deb ...
Unpacking libserf-1-1:amd64 (1.3.3-1ubuntu0.1) ...
Selecting previously unselected package libsvn1:amd64.
Preparing to unpack .../libsvn1_1.8.8-1ubuntu3.1_amd64.deb ...
Unpacking libsvn1:amd64 (1.8.8-1ubuntu3.1) ...
Selecting previously unselected package subversion.
Preparing to unpack .../subversion_1.8.8-1ubuntu3.1_amd64.deb ...
Unpacking subversion (1.8.8-1ubuntu3.1) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Setting up libserf-1-1:amd64 (1.3.3-1ubuntu0.1) ...
Setting up libsvn1:amd64 (1.8.8-1ubuntu3.1) ...
```

Setting up subversion (1.8.8-1ubuntu3.1) ...

Processing triggers for libc-bin (2.19-0ubuntu6.6) ...

```
$ svn co -q svn://svn.macauley2.com/Macauley2/trunk/M2
```

```
$ svn co -q svn://svn.macauley2.com/Macauley2/trunk/M2
```

```
$ svn list svn://svn.macauley2.com/Macauley2/release-branches
```

1.0/

1.1/

1.2/

1.3/

1.3.1/

1.4/

1.5/

```
$ svn co -q svn://svn.macauley2.com/Macauley2/release-branches/1.5
```

```
$ svn list svn://svn.macauley2.com/Macauley2/stable
```

2006-06-19/
2006-07-04/
2006-07-15-0.9.20/
2006-10-11-0.9.91/
2006-10-14-0.9.92/
2006-11-05-0.9.95/
2007-12-22-1.0/
2008-02-21-1.1/
2009-02-18-1.2/
2009-11-04-1.3/
2009-11-19-1.3.1/
2010-01-06-1.3.1/
2010-01-15-1.3.1/
2010-11-08-1.4/
2013-04-01-1.5/

\$ svn co -q svn://svn.macaulay2.com/Macaulay2/stable/2013-04-01-1.5

\$ cd M2

~/M2\$ make

```
+ autoconf
autoheader
touch "include/M2/config.h.in.stamp"
--: The configure script in this directory has been prepared.
--: To configure and build Macaulay2:
--:
    mkdir BUILD/normal
    cd BUILD/normal
    ../../configure --prefix=/usr/local
    make install
--:
--: To reconfigure and try again:
--:
    cd BUILD/normal
    make reconfigure install
--:
--: To see all the options to "configure":
--:
    ./configure --help
--:
```

~/M2\$ cd BUILD

~/M2/BUILD\$ mkdir foo

~/M2/BUILD\$ cd foo

~/M2/BUILD/foo\$../../configure --prefix=/usr/local --enable-download

```
relevant environment variable values, if any:
checking for gmake... no
checking for make... make
checking for wget... wget
checking for curl... curl
```

checking for objdump... objdump
checking for objcopy... objcopy
checking for etags... etags
checking for lintian... lintian
checking for ldd... ldd
checking for fakeroot... fakeroot
checking for rpmlint... no
checking for gtar... no
checking for gnutar... no
checking for tar... tar
checking for gfind... no
checking for find... find
checking for strip... strip
checking whether strip accepts the remove-section option... yes
checking whether make is GNU make... yes
checking whether tar is GNU tar... yes
configure: operating system to be used in distribution file names: Linux
configure: issue to be used in distribution file names: Ubuntu-14.04.3
checking build system type... x86_64-unknown-linux-gnu
checking host system type... x86_64-unknown-linux-gnu
checking for ranlib... ranlib
checking for a BSD-compatible install... /usr/bin/install -c
checking for gawk... gawk
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 for g++... g++
checking whether we are using the GNU C++ compiler... yes
checking whether g++ accepts -g... yes
checking for bison... no
checking for byacc... no
checking for gcc version... 4.8
checking how to run the C preprocessor... gcc -E
checking for grep that handles long lines and -e... /bin/grep
checking for egrep... /bin/grep -E
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 size of int *... 8
checking whether linking C++ programs with C compiler gcc works... yes
checking order of construction implemented by the linker... link order o1a2o3a4, construction order o1a2o3a4, obj order LR, lib order LR
checking whether time.h and sys/time.h may both be included... yes
checking sys/ioctl.h usability... yes
checking sys/ioctl.h presence... yes
checking for sys/ioctl.h... yes
checking termios.h usability... yes
checking termios.h presence... yes
checking for termios.h... yes
checking sys/mman.h usability... yes
checking sys/mman.h presence... yes
checking for sys/mman.h... yes
checking sys/socket.h usability... yes
checking sys/socket.h presence... yes
checking for sys/socket.h... yes
checking netdb.h usability... yes
checking netdb.h presence... yes
checking for netdb.h... yes
checking netinet/in.h usability... yes
checking netinet/in.h presence... yes
checking for netinet/in.h... yes

checking arpa/inet.h usability... yes
checking arpa/inet.h presence... yes
checking for arpa/inet.h... yes
checking sys/time.h usability... yes
checking sys/time.h presence... yes
checking for sys/time.h... yes
checking sys/wait.h usability... yes
checking sys/wait.h presence... yes
checking for sys/wait.h... yes
checking sys/resource.h usability... yes
checking sys/resource.h presence... yes
checking for sys/resource.h... yes
checking io.h usability... no
checking io.h presence... no
checking for io.h... no
checking linux/personality.h usability... yes
checking linux/personality.h presence... yes
checking for linux/personality.h... yes
checking stddef.h usability... yes
checking stddef.h presence... yes
checking for stddef.h... yes
checking for stdint.h... (cached) yes
checking for inttypes.h... (cached) yes
checking bits/wordsize.h usability... yes
checking bits/wordsize.h presence... yes
checking for bits/wordsize.h... yes
checking endian.h usability... yes
checking endian.h presence... yes
checking for endian.h... yes
checking elf.h usability... yes
checking elf.h presence... yes
checking for elf.h... yes
checking execinfo.h usability... yes
checking execinfo.h presence... yes
checking for execinfo.h... yes
checking for stdlib.h... (cached) yes
checking syscall.h usability... yes
checking syscall.h presence... yes
checking for syscall.h... yes
checking for sys/types.h... (cached) yes
checking for execinfo.h... (cached) yes
checking for library containing clock_gettime... none required
checking for library containing socket... none required
checking for library containing hstrerror... none required
checking for library containing dlopen... -ldl
checking for library containing gethostbyname... none required
checking for somesillyfunction... no
checking for sys_errlist... yes
checking for perror... yes
checking for error... yes
checking for socket... yes
checking for backtrace... yes
checking for clock_gettime... yes
checking for gnu_get_libc_version... yes
checking for __environ... yes
checking for _environ... yes
checking for environ... yes
checking for _setmode... no
checking for getaddrinfo... yes
checking for hstrerror... yes
checking for gnu_get_libc_version... (cached) yes
checking for __environ... (cached) yes
checking for _environ... (cached) yes
checking for environ... (cached) yes
checking for _setmode... (cached) no
checking for getaddrinfo... (cached) yes
checking for hstrerror... (cached) yes
checking whether ADDR_NO_RANDOMIZE is declared... yes
checking whether gnu_get_libc_version is declared... no
checking whether sys_errlist is declared... yes
checking whether sys_nerr is declared... yes
checking whether perror is declared... no
checking whether __environ is declared... no

checking whether _environ is declared... no
checking whether environ is declared... no
checking whether __INTEL_COMPILER is declared... no
checking for size_t... yes
checking for working alloca.h... yes
checking for alloca... yes
checking how to run the C++ preprocessor... g++ -E
checking NTL/tools.h usability... no
checking NTL/tools.h presence... no
checking for NTL/tools.h... no
checking for personality... yes
checking whether the C compiler accepts the __thread storage attribute... yes
checking for gfortran... gfortran
checking whether we are using the GNU Fortran compiler... yes
checking whether gfortran accepts -g... yes
configure: by default, adding linker flags to link with Fortran libraries
checking how to get verbose linking output from gfortran... -v
checking for Fortran libraries of gfortran... -L/usr/lib/gcc/x86_64-linux-gnu/4.8 -L/usr/lib/gcc/x86_64-linux-gnu/4.8/../../../../x86_64-linux-gnu
-L/usr/lib/gcc/x86_64-linux-gnu/4.8/../../../../lib -L/lib/x86_64-linux-gnu -L/lib/./lib -L/usr/lib/x86_64-linux-gnu -L/usr/lib/./lib -L/usr/lib/gcc/x86_64-
linux-gnu/4.8/../../../../lib -ldl -lgfortran -lm -lquadmath
checking for dummy main to link with Fortran libraries... none
checking for Fortran name-mangling scheme... lower case, underscore, no extra underscore
checking how to get verbose linking output from gfortran... (cached) -v
checking for Fortran libraries of gfortran... (cached) -L/usr/lib/gcc/x86_64-linux-gnu/4.8 -L/usr/lib/gcc/x86_64-linux-gnu/4.8/../../../../x86_64-linux-gnu
-L/usr/lib/gcc/x86_64-linux-gnu/4.8/../../../../lib -L/lib/x86_64-linux-gnu -L/lib/./lib -L/usr/lib/x86_64-linux-gnu -L/usr/lib/./lib -L/usr/lib/gcc/x86_64-
linux-gnu/4.8/../../../../lib -ldl -lgfortran -lm -lquadmath
checking for library containing pthread_mutex_trylock... -lpthread
configure: default dumpdata option for Linux operating system used, value: no
checking whether g++ gets confused about C linkage in system library files... no
checking for library containing tgoto... -lncurses
checking readline/readline.h usability... yes
checking readline/readline.h presence... yes
checking for readline/readline.h... yes
checking for library containing common symbol _rl_comment_begin and text symbol rl_set_prompt... yes, -lreadline
checking for library containing rl_completion_matches... none required
checking for library containing readline... none required
checking for library containing add_history... none required
checking for library containing __mpir_version... no
checking mpir.h usability... no
checking mpir.h presence... no
checking for mpir.h... no
checking for library containing pari_init... no
checking pari/pari.h usability... no
checking pari/pari.h presence... no
checking for pari/pari.h... no
checking for frobby library... no, will build it
checking glpk.h usability... no
checking glpk.h presence... no
checking for glpk.h... no
checking glpk.h usability... no
checking glpk.h presence... no
checking for glpk.h... no
checking boost/version.hpp usability... no
checking boost/version.hpp presence... no
checking for boost/version.hpp... no
checking for cdd.h... no
checking for cdd.h... no
checking for library containing GC_free... no
checking for library containing gdbm_close... no
checking gdbm.h usability... no
checking gdbm.h presence... no
checking for gdbm.h... no
checking NTL/version.h usability... no
checking NTL/version.h presence... no
checking for NTL/version.h... no
checking for ntl library... no, will build ntl
checking factory/factory.h usability... no
checking factory/factory.h presence... no
checking for factory/factory.h... no
checking whether the vecLib framework is available... no
configure: using fortran compiler gfortran
checking for library containing sgemv... -lblas
checking for library containing dgetrf... -llapack

checking libxml/parser.h usability... no
checking libxml/parser.h presence... no
checking for libxml/parser.h... no
checking libxml/parser.h usability... no
checking libxml/parser.h presence... no
checking for libxml/parser.h... no

**configure: error: include file libxml/parser.h not
found, set CPPFLAGS or install libxml2
development files**