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Build Octave-3.2.0 from source? - make error!! - DapperDrake

Results 1 to 6 of 6

Thread: Build Octave-3.2.0 from source? - make error!! - DapperDrake

Thread Tools Display

June 30th, 2009

#1

serxyz
First Cup of Ubuntu



Join Date:
Oct 2007

Beans:
9

Build Octave-3.2.0 from source? - make error!! - DapperDrake

Hi all,

I am a regular Matlab user under Ubuntu6-DapperDrake and I want to switch to Octave3.

I am trying to install it from source by compiling its code (<http://ubuntuforums.org/archive/index.php/t-680690.html>).

I have followed the following steps:

1) I set up the folders from which to install the program:

```
=====
sudo chown username /usr/local/src
sudo chmod u+rw /usr/local/src

sudo mkdir /usr/local/OCTAVE3p2
sudo chown username:root /usr/local/OCTAVE3p2
sudo chmod u+rw /usr/local/OCTAVE3p2
=====
```

2) I downloaded (<http://www.gnu.org/software/octave/download.html>) the stable version "octave-3.2.0.tar.gz" into "/usr/local/src".

3) I extracted the tarball:

```
=====
cd /usr/local/src/
tar xzvf octave-3.2.0.tar.gz
=====
```

4) I installed many things:

```
=====
```

```
sudo apt-get build-dep octave
```

```
sudo apt-get install g77
sudo apt-get install f2c
sudo apt-get install fort77
sudo apt-get install gfortran
sudo apt-get install xlibs-dev
sudo apt-get install libx11-dev
sudo apt-get install x11-dev
sudo apt-get install build-essential
sudo apt-get install checkinstall
sudo apt-get install cvs git-core mercurial
sudo apt-get install flex
sudo apt-get install bison
sudo apt-get install libumfpack
sudo apt-get install libumfpack4-dev
sudo apt-get install bootparamd
sudo apt-get install enamdict
sudo apt-get install libarpack2
sudo apt-get install libarpack2-dev
sudo apt-get install libarpack++2c2a
sudo apt-get install libarpack++2-dev
sudo apt-get install glpk
sudo apt-get install libglpk0
sudo apt-get install libncurses5-dev
sudo apt-get install libreadline5-dev
sudo apt-get install libsuitesparse-dev
sudo apt-get install fftw3-dev
sudo apt-get install libglpk-dev
sudo apt-get install libhdf5-serial-dev
sudo apt-get install libpcre3-dev
sudo apt-get install libqhull-dev
sudo apt-get install gperf
sudo apt-get install gnuplot
```

5) I installed "apt-file" and "autop-apt" to resolve dependencies
(<https://help.ubuntu.com/community/CompilingEasyHowTo>):

```
sudo dpkg --purge selinux-policy-default
sudo apt-get install apt-file
```

```
sudo apt-get install auto-apt
sudo auto-apt update
sudo auto-apt updatedb && sudo auto-apt update-local
```

6) I run first "configure" with "auto-apt" to check for and install missing libraries:

```
sudo auto-apt run ./configure
```

(I didn't install anything asking for "selinux-policy-default" because it gave me lots of problems)

7) I run again "configure" normally with some options:

```
./configure --prefix=/usr/local/OCTAVE3p2 --srcdir=/usr/local/src/octave-3.2.0 --with-f77=gfortran --
without-ccolamd --without-colamd --without-cxsparse --without-umfpack
```

[...]

Octave is now configured for i686-pc-linux-gnu

Source directory: .

Installation prefix: /usr/local/OCTAVE3p2

C compiler: gcc -mieee-fp -Wall -W -Wshadow -Wformat -g -O2

C++ compiler: g++ -mieee-fp -I/usr/include/freetype2 -Wall -W -Wshadow -Wold-style-cast -Wformat -g -O2

Fortran compiler: g77 -O -mieee-fp

Fortran libraries: -L/usr/lib/gcc/i486-linux-gnu/3.4.6 -L/usr/lib/gcc/i486-linux-gnu/3.4.6/../../lib -L/usr/lib/gcc/i486-linux-gnu/3.4.6/../../lib -L/lib/..lib -L/usr/lib/..lib -lhdf5 -lz -lftbegin -lg2c -lm

BLAS libraries: -llapack -lcblas -lf77blas -latlas

FFTW libraries: -lfftw3 -lfftw3f

GLPK libraries: -lglpk

UMFPACK libraries:

AMD libraries: -lamd

CAMD libraries:

COLAMD libraries:

CCOLAMD libraries:

CHOLMOD libraries:

CXSPARSE libraries:

ARPACK libraries: -larpack

QRUPDATE libraries:

HDF5 libraries: -lhdf5

CURL libraries:

REGEX libraries: -L/usr/lib -lpcre

QHULL libraries: -lqhull

OPENGL libraries: -lftgl -lfreetype -lz -L/usr/X11R6/lib -lGL -lGLU

FLTK backend libs: -lfltk_gl -lfltk

X11 include flags:

X11 libraries: -L/usr/X11R6/lib -lX11

CARBON libraries:

LIBS: -lreadline -lncurses -ldl -lcblas -lf77blas -latlas -lhdf5 -lz -lm

Default pager: less

gnuplot: gnuplot

Magick config:

Do internal array bounds checking: false

Build static libraries: false

Build shared libraries: true

Dynamic Linking: true (dlopen)

Include support for GNU readline: true

64-bit array dims and indexing: false

configure: WARNING: UMFPACK not found. This will result in some lack of functionality for sparse matrices.

configure: WARNING: qrupdate not found. The QR & Cholesky updating functions will be slow.

configure: WARNING: COLAMD not found. This will result in some lack of functionality for sparse matrices.

configure: WARNING: CCOLAMD not found. This will result in some lack of functionality for sparse matrices.

configure: WARNING: CHOLMOD not found. This will result in some lack of functionality for sparse matrices.

configure: WARNING: CXSparse not found. This will result in some lack of functionality for sparse matrices.

configure: WARNING: GraphicsMagick++ config script not found. Assuming GraphicsMagic++ library and header files are missing, so imread will not be fully functional

configure:

NOTE: libraries may be skipped if a library is not found OR
if the library on your system is missing required features.

8.) I compile the Makefile:

```
make
```

```
[...]
```

```
rm -f liboctinterp.so.3.2.0
ln -s liboctinterp.so liboctinterp.so.3.2.0
gcc -c -I. -I../liboctave -I../src -I../libcruft/misc -DHAVE_CONFIG_H -mieee-fp -Wall -W -Wshadow -Wformat -g -O2 main.c -o main.o
g++ -I. -I../liboctave -I../src -I../libcruft/misc -DHAVE_CONFIG_H -mieee-fp -I/usr/include/freetype2 -Wall -W -Wshadow -Wold-style-cast -Wformat -g -O2 -rdynamic \
-L.. -fPIC -o octave \
main.o \
-L../liboctave -L../libcruft -L../src -Wl,-rpath -Wl,/usr/local/OCTAVE3p2/lib/octave-3.2.0 \
-loctinterp -loctave -lcruft \
-lamd \
-llapack -lcblas -lf77blas -latlas \
-lfftw3 -lfftw3f -larpack -lftgl -lfreetype -lz -L/usr/X11R6/lib -lGL -lGLU \
-L/usr/X11R6/lib -lX11 -lreadline -lncurses -ldl -lcblas -lf77blas -latlas -lhdf5 -lz -lm -L/usr/lib/gcc/i486-linux-gnu/3.4.6 -L/usr/lib/gcc/i486-linux-gnu/3.4.6/../../lib -L/usr/lib/gcc/i486-linux-gnu/3.4.6/../../lib -L/lib/../../lib -L/usr/lib/../../lib -lhdf5 -lz -lftbegin -lg2c -lm
g++ -c -fPIC -I. -I../liboctave -I../src -I../libcruft/misc -DHAVE_CONFIG_H -mieee-fp -I/usr/include/freetype2 -Wall -W -Wshadow -Wold-style-cast -Wformat -g -O2 ./DLD-FUNCTIONS/amd.cc -o pic/amd.o
./DLD-FUNCTIONS/amd.cc: In function 'octave_value_list Famd(const octave_value_list&, int)':
./DLD-FUNCTIONS/amd.cc:174: error: 'amd_malloc' was not declared in this scope
./DLD-FUNCTIONS/amd.cc:175: error: 'amd_free' was not declared in this scope
./DLD-FUNCTIONS/amd.cc:176: error: 'amd_calloc' was not declared in this scope
./DLD-FUNCTIONS/amd.cc:177: error: 'amd_realloc' was not declared in this scope
./DLD-FUNCTIONS/amd.cc:178: error: 'amd_printf' was not declared in this scope
make[2]: *** [pic/amd.o] Error 1
make[2]: Leaving directory `/usr/local/src/octave-3.2.0/src'
make[1]: *** [src] Error 2
make[1]: Leaving directory `/usr/local/src/octave-3.2.0'
make: *** [all] Error 2
```

9) My questions are:

a) Why I get this errors after doing "make"!!!?

b) Why the problem seems related to "amd" libraries but "configure" does not tell me any warning or error with them?

c) Why the "configure" output is still using "g77" fortran compiler if in my options I told him to use "gfortran"? (see http://www.centos.org/modules/newbb/...?topic_id=7958)


d) Why the "configure" output is warning me about UMFPACK, COLAMD, [...] libraries if in my options I told him to disable them? (as explained in INSTALL.OCTAVE file)

d) Why my directory "/usr/local/OCTAVE3p2" is absolutely empty!?

Please help. I have spend too many hours with all this... I am about to giving up!!

Many thanks.

Ser.

 Adv Reply July 1st, 2009

#2

serxyz 
First Cup of Ubuntu**Join Date:**
Oct 2007**Beans:**
9**Re: Build Octave-3.2.0 from source? - make error!! - DapperDrake**Sorted 

S.

```
=====
$ ./configure --prefix=/usr/local/OCTAVE3p2 --srcdir=/usr/local/src/octave-3.2.0 --with-g77=gfortran --
without-amd --without-ccolamd --without-colamd --without-cxspase --without-umfpack
```

[...]

Octave is now configured for i686-pc-linux-gnu

Source directory: .

Installation prefix: /usr/local/OCTAVE3p2

C compiler: gcc -mieee-fp -Wall -W -Wshadow -Wformat -g -O2

C++ compiler: g++ -mieee-fp -I/usr/include/freetype2 -Wall -W -Wshadow -Wold-style-cast -Wformat -g -O2

Fortran compiler: g77 -O -mieee-fp

Fortran libraries: -L/usr/lib/gcc/i486-linux-gnu/3.4.6 -L/usr/lib/gcc/i486-linux-gnu/3.4.6/../../../../lib -L/usr/lib/gcc/i486-linux-gnu/3.4.6/../../../../lib -L/lib/../../lib -L/usr/lib/../../lib -lhdf5 -lz -lfrtbegin -lg2c -lm

BLAS libraries: -llapack -lcblas -lf77blas -latlas

FFTW libraries: -lfftw3 -lfftw3f

GLPK libraries: -lglpk

UMFPACK libraries:

AMD libraries:

CAMD libraries:

COLAMD libraries:

CCOLAMD libraries:

CHOLMOD libraries:

CXSPARSE libraries:

ARPACK libraries: -larpack

QRUPDATE libraries:

HDF5 libraries: -lhdf5

CURL libraries:

REGEX libraries: -L/usr/lib -lpcrc

QHULL libraries: -lqhull

OPENGL libraries: -lftgl -lfreetype -lz -L/usr/X11R6/lib -lGL -lGLU

FLTK backend libs: -lfltk_gl -lfltk

X11 include flags:

X11 libraries: -L/usr/X11R6/lib -lX11

CARBON libraries:

LIBS: -lreadline -lncurses -ldl -lcblas -lf77blas -latlas -lhdf5 -lz -lm

Default pager: less
 gnuplot: gnuplot
 Magick config:

Do internal array bounds checking: false
 Build static libraries: false
 Build shared libraries: true
 Dynamic Linking: true (dlopen)
 Include support for GNU readline: true
 64-bit array dims and indexing: false

configure: WARNING: UMFPACK not found. This will result in some lack of functionality for sparse matrices.
 configure: WARNING: qrupdate not found. The QR & Cholesky updating functions will be slow.
 configure: WARNING: AMD not found. This will result in some lack of functionality for sparse matrices.
 configure: WARNING: COLAMD not found. This will result in some lack of functionality for sparse matrices.
 configure: WARNING: CCOLAMD not found. This will result in some lack of functionality for sparse matrices.
 configure: WARNING: CHOLMOD not found. This will result in some lack of functionality for sparse matrices.
 configure: WARNING: CXSparse not found. This will result in some lack of functionality for sparse matrices.
 configure: WARNING: GraphicsMagick++ config script not found. Assuming GraphicsMagic++ library and header files are missing, so imread will not be fully functional
 configure:

NOTE: libraries may be skipped if a library is not found OR
 if the library on your system is missing required features.

=====

\$ make

[...]

Octave successfully built. Now choose from the following:

./run-octave - to run in place to test before installing
 make check - to run the tests
 make install - to install (PREFIX=/usr/local/OCTAVE3p2)

make[1]: Leaving directory `/usr/local/src/octave-3.2.0'

=====

\$ make check

make -f octMakefile check
 make[1]: Entering directory `/usr/local/src/octave-3.2.0'
 make -C test check
 make[2]: Entering directory `/usr/local/src/octave-3.2.0/test'
 ./build_sparse_tests.sh
 ../run-octave --norc --silent --no-history ./fntests.m .

Integrated test scripts:

src/DLD-FUNCTIONS/besselj.cc PASS 180/180
 src/DLD-FUNCTIONS/betainc.cc PASS 6/6
 src/DLD-FUNCTIONS/bsxfun.cc PASS 55/55
 src/DLD-FUNCTIONS/cellfun.cc PASS 74/74
 src/DLD-FUNCTIONS/chol.cc PASS 23/23
 src/DLD-FUNCTIONS/conv2.cc PASS 2/2
 src/DLD-FUNCTIONS/convhulln.cc PASS 2/2

```
src/DLD-FUNCTIONS/dassl.cc ..... PASS 4/4
src/DLD-FUNCTIONS/det.cc ..... PASS 5/5
src/DLD-FUNCTIONS/dispatch.cc ..... PASS 9/9
src/DLD-FUNCTIONS/dlmread.cc ..... PASS 20/20
src/DLD-FUNCTIONS/dmperm.cc ..... PASS 1/1
src/DLD-FUNCTIONS/eig.cc ..... PASS 20/20
src/DLD-FUNCTIONS/eigs.cc .....A(l): Index exceeds matrix dimension.
```

```
make[2]: Leaving directory `/usr/local/src/octave-3.2.0/test'
```

```
make[1]: Leaving directory `/usr/local/src/octave-3.2.0'
```

```
=====
$ sudo checkinstall
```

```
[...]
```


Done. The new package has been installed and saved to


```
/usr/local/src/octave-3.2.0/octave_3.2.0-1_i386.deb
```

You can remove it from your system anytime using:

```
dpkg -r octave
```

```
=====
/usr/local/OCTAVE3p2/bin/octave
=====
```

 **Adv Reply** |

 November 16th, 2009

#3

nsnmb 
First Cup of Ubuntu



Join Date:
Nov 2009

Beans:
2

Re: Build Octave-3.2.0 from source? - make error!! - DapperDrake

Hi, [serxyz](#), I run into a similar problem as you did, fortunately you solved it already. I didn't yet.

I also plan to change from Matlab to Octave, and I installed many things:

1. f2c
2. fort77
3. Gnuplot

Then I started to install Octave, I download the Octave3.2.0 tar.gz, extra it with command: tar -xzf ...

Then, I compile it with

```
./configure
```

then, some warning came up, I ignored it and went to the next step with the command:

```
make
```

then error happens as followed:

```
make[2]: *** [octave] Error 1
```

```
make[2]: Leaving directory `/opt/Gnu_Octave/Install_file/octave-3.2.3/src'
```

```
make[1]: *** [src] Error 2
```

```
make[1]: Leaving directory `/opt/Gnu_Octave/Install_file/octave-3.2.3'
```

```
make: *** [all] Error 2
```


I am afriad if you could give me a hand there? As you mentioned, I am about to giving up...

Thanks in advance...

[Adv Reply](#)

December 15th, 2009

#4

jsampaio57 
Just Give Me the Beans!



Join Date:
May 2007

Location:
Perth, WA, Australia

Beans:
50

Distro:
Ubuntu 10.10 Maverick Meerkat

Re: Build Octave-3.2.0 from source? - make error!! - DapperDrake

```
use  
sudo apt-get build-dep octave3.2
```

Be careful because some graphical libraries may be uninstalled. After, assure you install the following libraries:

```
libumfpack  
libcholmod  
libcxsparse-dev  
libqrupdate-dev  
libcurl  
libgraphicsMagick++1-dev
```

Cheers...
Jorge

[Adv Reply](#)

December 15th, 2009

#5

jsampaio57 
Just Give Me the Beans!



Join Date:
May 2007

Location:
Perth, WA, Australia

Beans:
50

Distro:
Ubuntu 10.10 Maverick Meerkat

Re: Build Octave-3.2.0 from source? - make error!! - DapperDrake

oh... I skipped some libraries... include also


libamd

libcamd
libcolamd
libccolamd

if you are using 64-bit machine you can try using --enable-64 (but it is still experimental)

cheers...
Jorge

 [Adv Reply](#)

 April 6th, 2010

#6

nsnmb 
First Cup of Ubuntu

Join Date:
Nov 2009

Beans:
2



Re: Build Octave-3.2.0 from source? - make error!! - DapperDrake

Hi jsampaio57, Thanks so much for your help.

I made a new configure with command:
./configure F77=fort77 CPPFLAGS=-I/usr/include/freetype2 FLIBS=-lf2c

but error came up again with new hints like follows:
make[3]: *** [libcruft.so] Error 1
make[3]: Leaving directory `/opt/G_Octave/octave-3.2.3/libcruft'
make[2]: *** [libraries] Error 2
make[2]: Leaving directory `/opt/G_Octave/octave-3.2.3/libcruft'
make[1]: *** [libcruft] Error 2
make[1]: Leaving directory `/opt/G_Octave/octave-3.2.3'
make: *** [all] Error 2

I guess situation became better, but problem still there. Could you please a little bit check that?

I shamed myself because of this stupid question, sorry!

Have a nice day!

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