

Guidelines for maintaining Octave-related Debian packages

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Contents

1. Coordination	1
2. Building and uploading packages	1
3. SVN repository	2
4. Centralized installation paths and octave2.1 dependency	4
5. Web area at aliases.debian.org	5
Author	5

1. Coordination

The development of Octave-related packages in Debian is done as a collaborative work by the Debian Octave Group (DOG) at aliases.debian.org. Any maintainer/developer, either a DD or not, interested in Octave related packages is encouraged to join the pkg-octave project at Alioth.

Issues are discussed in the pkg-octave-devel mailing list. For more information about subscription and for looking at the archives, please visit <http://lists.aliases.debian.org/mailman/listinfo/pkg-octave-devel>

Besides the common development of the Octave-related packages, the DOG will eventually improve the common build infrastructure, which will result in a better integration of the packages in the Debian distribution.

2. Building and uploading packages

The first thing to do when contributing a new package is to set the maintainer to Debian Octave Group pkg-octave-devel@lists.aliases.debian.org in debian/control.

The debian/changelog entries should look like this:

```
octave-cool (1.2.3-4) unstable; urgency=low

 [ Dirk Eddelbuettel ]
 * Rebuilt with cool stuff

 [ Rafael Laboissiere ]
 * Cool tweaks

-- Rafael Laboissiere <rafael@debian.org> Mon, 15 Oct 2012 08:30:00 -0400
```

Notice that the name of the official Debian maintainer who did the package upload for that specific version should appear in the trailer line. This is the common practice in Debian, being the format adopted in core packages like libc6 and xorg-x11.

If you are a Debian developer, put your name in the Uploaders field of debian/control. By doing this, your uploads will not be considered as NMUs (non-maintainer uploads).

URLs of the SVN repository can be added to the Source section of the debian/control file, which will appear in the Package Tracking System (<http://packages.qa.debian.org>). They should read like this:

```
Vcs-Svn: svn://svn.debian.org/svn/pkg-octave/<source-package>/
Vcs-Browser: http://svn.debian.org/wsvn/pkg-octave/<source-package>/
```

Once a developer thinks that a given package in the SVN repository is ready for upload, a message should be dropped in the pkg-octave-devel mailing list containing a request for upload (RFU) and using the format "[RFU] <package> <version>" in the Subject line. If there are no objections within two business days, at least, the upload can be done by one of the official Debian developers of the DOG.

3. SVN repository

The packages are under Subversion control at svn.debian.org. For more information on Subversion, please look at the web site <http://subversion.tigris.org>. The Subversion book is also a valuable resource and is available at <http://svnbook.red-bean.com/>.

Automatic SVN activity is sent to the pkg-octave-commit mailing list. For more information, please visit <http://lists.alioth.debian.org/mailman/listinfo/pkg-octave-commit>

Bugs marked as *closed* in [debian/changelog](#) will be tagged *pending* automatically when you commit your changes into SVN.

The repository is organized in a svn-buildpackage-friendly way, as follows:

```
svn://svn.debian.org/svn/pkg-octave/
  octave/
    trunk/
      debian/
    octave2.1/
      tags/
        2.1.64-3/
        2.1.64-4/
        [...]
      branches/
        [...]
    octave-forge/
      trunk/
        debian/
      tags/
        2004.11.16-3/
        2004.11.16-4/
        [...]
      branches/
        [...]
    [...]
```

Notice that only the debian files are put under Subversion control. No upstream files, please.

As regards tag conventions, use the following path:

```
svn://svn.debian.org/svn/pkg-octave/<package>/tags/<version>/
```

Only create a tag in <package>/tags/ after the Debian version is actually released. This avoids having to issue extra svn copy commands if the tag is created too early.

Comparison between two released Debian versions of a given package can then be done with a command like the following:

- The whole tree:

```
svn co svn://anonymous@svn.debian.org/svn/pkg-octave
```

- The sources of a specific package:

```
svn co svn://anonymous@svn.debian.org/svn/pkg-octave/<pkg>/trunk/
```

When committing changes that do not result in a Debian release, keep debian/changelog in a clearly broken state, such that the other developers will know that the version is not yet released. The preferable way of doing this is by setting the distribution to "UNRELEASED", like this:

```
octave-cool (1.2.3-4) UNRELEASED; urgency=low

 [ Joe Developer ]
 * First import

-- Joe Developer <joedev@debian.org> Mon, 15 Oct 2012 08:30:00 -0400
```

Notice that the trailer line should be kept in the changelog entry. This has the following advantages: first, it keeps the package in a buildable state from a SVN checkout. In addition, the trailer line shows the name of the developer who effectively prepared that version of the package and which will appear in the "Changed-By:" field of the *.changes file. The change from "UNRELEASED" to "unstable" (or any other valid distribution) should be done by the developer who does the actual upload.

4. Centralized installation paths and octave2.1 dependency

Starting with the release 2.1.65-1, some common build infrastructure has been added to the octave2.1-headers package. The goal is to have more uniform octave-related and to avoid incompatibility problems at every new release of Octave, even when the API counter is not incremented.

These are the instructions for the developers:

1. Build-Depends on octave2.1-headers (>= 2.1.73-10) or octave2.9-headers (>= 2.9.7-2). This is necessary to get access to files defs.make and octave-depends (attached below).
2. At the top of debian/rules put the following:

```
include /usr/share/octave/debian/defs.make
```

This defines the Makefile variables MDIR and OCTDIR containing the installation paths for .m scripts and .oct loadable modules. Use these variables to install files in the package.

For instance, the following example:

```
#####
include /usr/share/octave/debian/defs.make
all:
    @echo MDIR: $(MDIR)
    @echo OCTDIR: $(OCTDIR)
#####
```

would give something like:

```
$ make
MDIR: /usr/share/octave/site/m
OCTDIR: /usr/lib/octave/site/oct/api-v13/i386-pc-linux-gnu
```

3. In the install rule of `debian/rules`, call 'octave-depends' (typically near `dh_shlibdeps`). This is a debhelper-like program that calculates the right Octave dependency. If you have in `debian/control`:

```
Depends: ${octave:Depends}
```

then octave-depends would give something like:

```
Depends: octave2.1 (>= 2.1.65)
```

For setting the dependency on specific branches of octave, use the variables `${octave-2-1:Depends}` or `${octave-2-9:depends}`, associated with `octave2.1-depends` and `octave2.9-depends`, respectively.

For an example of using both scripts, see the `octave-epstk` package.

Notice that the dependency above will keep compatibility with later versions of octave2.1. This is also insured by the fact that the `$(OCTDIR)` path does not contain a version number, only the API number. Only in the event a newer version of octave2.1 bumps the API number, then we will have to rebuild all the packages containing `.oct` files.

5. Web area at alioth.debian.org

The web area for the Debian Octave group is located at [/org.alioth.debian.org/chroot/home/groups/pkg-octave](http://org.alioth.debian.org/chroot/home/groups/pkg-octave) on the alioth.debian.org server. The web site for the DOG is currently automatically generated from the sources maintained in the SVN repository at:

```
svn://svn.debian.org/svn/pkg-octave/www/
```

Maintainers manipulating the files in the web area by hand should be careful to keep access rights to the `pkg-octave` group.

Author

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