

## Audacious - Bug #64

### audacious uses system includes (potentially from previous version) when building from source

January 28, 2012 18:32 - Vladimir Timofeev

<b>Status:</b>	Closed	<b>Start date:</b>	January 28, 2012
<b>Priority:</b>	Minor	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	3.2.1		
<b>Affects version:</b>	3.2		

#### Description

My system (freebsd-9.0) has installed audacious-3.1.1 from ports. It's full install with all dev files, so it has /usr/local/include/audacious/\*

I try build new version from sources:

```
tar xjf audacious-3.2.tar.bz2
```

```
cd audacious-3.2
```

```
bash configure --prefix=$HOME/audacious --with-libintl-prefix=/usr/local
```

```
gmake
```

```
...
```

Entering directory libaudcore.

In file included from tuple\_formatter.h:23,

from tuple.c:39:

```
/usr/local/include/libaudcore/tuple.h:29:20: error: mowgli.h: No such file or directory
```

In file included from tuple\_compiler.h:25,

from tuple\_compiler.c:43:

```
/usr/local/include/libaudcore/tuple.h:29:20: error: mowgli.h: No such file or directory
```

In file included from tuple\_compiler.h:25,

from tuple\_formatter.c:24:

```
/usr/local/include/libaudcore/tuple.h:29:20: error: mowgli.h: No such file or directory
```

and many more...

It's because -I/usr/local/include added as first element to CPPFLAGS

postgresql use this constructs:

```
override CPPFLAGS := -I$(libpq_srcdir) $(CPPFLAGS)
```

xterm has in Makefile.in:

```
CPPFLAGS = -I. -I$(srcdir) -DHAVE_CONFIG_H CPPFLAGS $(EXTRA_CPPFLAGS)
```

gnome soft (pidgin, ekiga, etc...) uses analogs in Makefile.am:

from pidgin:

```
AM_CPPFLAGS = \
```

```
-DDATADIR=\"$(datadir)\" \
```

```
-DLIBDIR=\"$(libdir)/pidgin/\" \
```

```
-DLOCALEDIR=\"$(datadir)/locale/\" \
```

```
-DSYSCONFDIR=\"$(sysconfdir)\" \
```

```
-I$(top_builddir)/libpurple \
```

```
-I$(top_srcdir)/libpurple/ \
```

```
-I$(top_builddir) \
```

```
-I$(top_srcdir) \
```

```
$(GLIB_CFLAGS) \
```

```
$(GCR_CFLAGS) \
```

```
$(GSTREAMER_CFLAGS) \
```

```
...
```

So I propose attached patch (against 3.2 sources), it do 2 things:

1. Prepends CPPFLAGS in buildsys.mk with -I. for local includes, -I\$(abs\_top\_srcdir) for config.h and -I\$(abs\_top\_srcdir)/src for other project includes
2. Cleanups other Makefiles where -I. -I.. appends to end of CPPFLAGS

patch can be applied as `cd audacious-3.2; patch -p1 < improve-makefiles.patch`

## History

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### #1 - January 30, 2012 17:29 - John Lindgren

It's because `-l/usr/local/include` added as first element to `CPPFLAGS`

Where is this added? It seems wrong.

### #2 - January 30, 2012 18:04 - John Lindgren

After this change:

<https://github.com/audacious-media-player/audacious/commit/062809bfb88aa495cd4ca375489d45ae98d89331>

I am able to compile Audacious 3.2 fine on FreeBSD 9 with the binary package for Audacious 2.5.4 installed under `/usr/local`.

### #3 - January 30, 2012 18:15 - Vladimir Timofeev

John Lindgren wrote:

It's because `-l/usr/local/include` added as first element to `CPPFLAGS`

Where is this added? It seems wrong.

It's added in all makefiles (see patch). For example:

`src/libaudcore/Makefile`:

1. includes `buildsys.mk` in line 27 (after that `CPPFLAGS = /usr/local/include` this do configure while process `buildsys.mk.in`)
2. includes `extra.mk` in line 28 (it doesn't touch `CPPFLAGS`)
3. then line 32: `CPPFLAGS += -DHAVE_CONFIG_H ${PTHREAD_CFLAGS} ${GLIB_CFLAGS} -I. -I../..`

And now `CPPFLAGS = /usr/local/include -DHAVE_CONFIG_H ${PTHREAD_CFLAGS} ${GLIB_CFLAGS} -I. -I../..`

### #4 - January 30, 2012 22:10 - Vladimir Timofeev

John Lindgren wrote:

After this change:

<https://github.com/audacious-media-player/audacious/commit/062809bfb88aa495cd4ca375489d45ae98d89331>

I am able to compile Audacious 3.2 fine on FreeBSD 9 with the binary package for Audacious 2.5.4 installed under /usr/local.

Strange... I'm not much familiar with autotools.

After cloning repo from github, I simple run autoconf and:

```
configure.ac:11: error: possibly undefined macro: AC_SUBST
```

If this token and others are legitimate, please use m4\_pattern\_allow.

See the Autoconf documentation.

```
configure.ac:44: error: possibly undefined macro: AC_DEFINE
```

```
configure.ac:58: error: possibly undefined macro: AM_GNU_GETTEXT
```

```
configure.ac:117: error: possibly undefined macro: AC_PATH_PROG
```

File configure was created, when run:

```
bash configure --prefix=$HOME/audacious --with-libintl-prefix=/usr/local
```

```
configure: WARNING: unrecognized options: --with-libintl-prefix
```

```
...
```

```
checking for cexpf... yes
```

```
checking for /proc/self/exe... no
```

```
configure: line 3755: syntax error near unexpected token `external'
```

```
configure: line 3755: `AM_GNU_GETTEXT(external)'
```

What I can try to build from git repo?

But AFAIK this doesn't resolve issues with CPPFLAGS, it's only change LDFLAGS...

#### **#5 - January 31, 2012 01:51 - John Lindgren**

Don't run autoconf directly; use ./autogen.sh instead.

#### **#6 - January 31, 2012 01:53 - John Lindgren**

I get no /usr/local/include in CPPFLAGS in buildsys.mk here.

#### **#7 - January 31, 2012 22:22 - Vladimir Timofeev**

John Lindgren wrote:

I get no /usr/local/include in CPPFLAGS in buildsys.mk here.

Yes I found source of /usr/local/include in CPPFLAGS, it's a --with-libintl-prefix=/usr/local option for configure! I.e. check for libintl add it. But without this option:

```
Entering directory libaudcore.  
In file included from audstrings.c:29:  
../audacious/i18n.h:23:21: error: libintl.h: No such file or directory  
In file included from tuple.c:34:  
../audacious/i18n.h:23:21: error: libintl.h: No such file or directory  
Successfully generated dependencies.  
Successfully compiled audio.c (lib).  
In file included from audstrings.c:29:  
../audacious/i18n.h:23:21: error: libintl.h: No such file or directory
```

So, i try configure and make without any options (with default prefix /usr/local):

```
Entering directory libaudcore.  
In file included from tuple_formatter.h:23,  
    from tuple.c:39:  
/usr/local/include/libaudcore/tuple.h:29:20: error: mowgli.h: No such file or directory  
In file included from tuple_compiler.h:25,  
    from tuple_compiler.c:43:  
/usr/local/include/libaudcore/tuple.h:29:20: error: mowgli.h: No such file or directory  
In file included from tuple_compiler.h:25,  
    from tuple_formatter.c:24:  
/usr/local/include/libaudcore/tuple.h:29:20: error: mowgli.h: No such file or directory
```

And generated buildsys.mk again have -l/usr/local/include

**#8 - February 01, 2012 18:24 - John Lindgren**

See if this commit fixes the problem:

<https://github.com/audacious-media-player/audacious/commit/bd57afcdf19c7519f1e35ebc8b196e066f571a74>

**#9 - February 01, 2012 19:34 - Vladimir Timofeev**

John Lindgren wrote:

See if this commit fixes the problem:

<https://github.com/audacious-media-player/audacious/commit/bd57afcdf19c7519f1e35ebc8b196e066f571a74>

Yes!

Now build complete!

And you changes more structured, than in my patch. Thanks!

**#10 - February 01, 2012 20:31 - John Lindgren**

- *Status changed from New to Closed*

- *Target version set to 3.2.1*

- *% Done changed from 0 to 100*

- *Affects version 3.2 added*

- *Affects version deleted ()*

**Files**

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improve-makefiles.patch

3.57 KB January 28, 2012

Vladimir Timofeev