

postgresql-snap - Task #5322

Build contrib modules

10/28/2016 06:35 AM - Ivan Lezhnjov

Status:	Resolved	Start date:	10/28/2016
Priority:	High	Due date:	
Assignee:	Eugene Dubinin	% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
<p>Building contrib modules fails with the following error message:</p> <pre>Building contrib make -f Makefile -j1 Makefile:5: ../src/Makefile.global: No such file or directory make: *** No rule to make target '../src/Makefile.global'. Stop. Command '['/bin/sh', '/tmp/tmpxgmn5skk', 'make', '-f', 'Makefile', '-j1']' returned non-zero exit status 2</pre> <p>The problem here seems to be that src/contrib/Makefile includes ../src/Makefile.global via a relative path and the snapcraft make plugin wasn't designed for this use case.</p> <p>Our options are:</p> <ul style="list-style-type: none">- either patch the source code or- write a custom make plugin or- report this as a bug to snapcraft developers <p>and then hope they fix it. The latter is ideal, though, because PostgreSQL may not be the only program that includes a Makefile in a Makefile.</p>			

History

#1 - 12/01/2016 04:17 AM - Eugene Dubinin

- Assignee set to Eugene Dubinin

After some research, I have discovered that the root cause of the issue is not in the Snapcraft plugin limitations, but in the source tree being used.

Lets take a look at the **contrib** part of snapcraft.yaml:

```
contrib:
  plugin: make
  source: parts/postgresql/src/contrib/
  after:
    - postgresql
```

It acquires its source code from the PostgreSQL part's src/contrib subdir. It is a part of the pristine source tree without any makefiles generated by Autotools.

The contrib source tree relies on the parent directory **Makefile.global**, which is not there since the contrib is being used as a root and does not have the correct parent directory structure.

But even if the path is adjusted to be one dir higher in the hierarchy (e.g. source: parts/postgresql/src/contrib/) this will not help either because the parent dir does not have Autotools-generated Makefile.global, but only the Makefile.global.in

Here is the adjusted contrib part:

```
contrib:
  plugin: make
  source: ../parts/postgresql/build
  source-subdir: contrib
  after:
    - postgresql
```

The idea is to steal the Autotools-processed/configured source tree from the **postgres** part, that's why the parts/postgresql/build subtree is being used
The **source-subdir** directive will tell the **make** plugin change the CWD to the contrib subdir before the build process starts

Hope this helps to solve the issue.

#2 - 12/01/2016 07:34 AM - Ivan Lezhnjov

- *Priority changed from Normal to High*
- *% Done changed from 0 to 90*

This appears to work. I was able to compile all current major versions with proposed fix. I also tested a couple contrib modules with 9.3.15 and they seem to work.

Ivan

#3 - 12/09/2016 07:10 AM - Ivan Lezhnjov

- *Status changed from New to Resolved*
- *% Done changed from 90 to 100*