

# QGIS Application - Feature request #9917

## Support building on ARM

2014-03-28 03:41 AM - Bas Couwenberg

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Build/Install	
<b>Pull Request or Patch Supplied:</b>	<b>Resolution:</b>
<b>Easy fix?:</b> No	<b>Copied to github as #:</b> 18428
<b>Description</b>	
<p>The QGIS package maintained by the Debian GIS team contains some patches to support the ARM architecture.</p> <p>As part of the effort to reduce the divergence between the official Debian package and QGIS upstream I'm forwarding these changes.</p> <p>The patch series for ARM support includes three commits, for which I've prepared a pull request on GitHub.</p> <p>1) On armel/armhf qreal is typedef'ed to float not double.</p> <p>This patch adds qreal versions of some functions on arm. It was originally written by Konstantinos Margaritis and later fixed by Peter Michael Green.</p> <p>Bug-Debian: <a href="http://bugs.debian.org/691333">http://bugs.debian.org/691333</a></p> <p>2) Fix qreal vs double.</p> <p>In qt4 on arm architectures qreal is defined as float while on other architectures it is defined as double. This can cause problems if qreal and double are carelessly mixed.</p> <p>In this particular case the problem is that qMin/qMax are templates defined to take two parameters of the same type. If two different types are passed in then C++ can't resolve what type the template parameter should be and bails out. The fix is simple, typecast one of the parameters so they match.</p> <p>Author: Peter Michael Green &lt;<a href="mailto:plugwash@debian.org">plugwash@debian.org</a>&gt;</p> <p>Bug-Debian: <a href="http://bugs.debian.org/737814">http://bugs.debian.org/737814</a></p> <p>3) Disable features on ARM.</p> <p>Building QGIS on ARM produces the error:</p> <pre>sip: qgis/python/core/qgsclipper.sip:44: QgsClipper::trimFeature() unsupported function argument type - provide %MethodCode and a C++ signature</pre> <p>For the Android builds this was fixed in commit:2cc684793ceb29d8600d71564fb38f92c998f588.</p> <p>This patch adapts the Android fix, by disabling the SIP features on all ARM systems.</p> <p>Bug-Debian: <a href="http://bugs.debian.org/737814">http://bugs.debian.org/737814</a></p>	

## History

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**#1 - 2014-03-28 03:48 AM - Bas Couwenberg**

GitHub Pull Request: <https://github.com/qgis/QGIS/pull/1275>

**#2 - 2014-03-28 04:09 AM - Jürgen Fischer**

- *Status changed from Open to Closed*

applied in commit:c324895cc1d58d60cf02d6d1f65ee2c4a3ec41d6