

How to compile Percona Server with XtraDB 5.5 for ARM (armhf)

To make Percona run on armhf architecture there are only small changes need to be applied.

I had a rough time getting a Percona run in a chrooted, bootstrapped Debian running beside Android on my previous phone, but it's now done.

Get the latest code from Percona sources^[^1], for me, it was 5.5.29-rel29.4 therefore I'll write the docs for this version.

```
#!/bin/bash

cd /usr/src
wget http://www.percona.com/redirect/downloads/Percona-Server-5.5/Percona-Server-5.5.29-29.4/source/Percona-Server-5.5.29-rel29.4.tar.gz
tar xzf Percona-Server-5.5.29-rel29.4.tar.gz
wget http://pastebin.com/raw.php?i=QXQNDbtc -OPercona-Server-5.5.29-rel29.4.armhf.patch
cd Percona-Server-5.5.29-rel29.4
patch -p0 < ../Percona-Server-5.5.29-rel29.4.armhf.patch
cmake . -DCMAKE_BUILD_TYPE=RelWithDebInfo -
DBUILD_CONFIG=mysql_release -DFEATURE_SET=community -
DWITH_EMBEDDED_SERVER=OFF
```

bash:

That's it. The pastebin code is mine, I'll copy it here as well:

```
--- sql-common/client_plugin.c 2013-01-07
06:29:49.000000000 +0000
+++ sql-common/client_plugin.c 2013-03-02 11:26:32.180009884
+0000
@@ -233,11 +233,13 @@
```

diff:

```

{
    MYSQL mysql;
    struct st_mysql_client_plugin **builtin;
+   va_list unused;

    if (initialized)
        return 0;

    bzero(&mysql, sizeof(mysql)); /* dummy mysql for
set_mysql_extended_error */
+   bzero(&unused, sizeof(unused)); /* suppress uninitialized-
value warnings */

    pthread_mutex_init(&LOCK_load_client_plugin,
MY_MUTEX_INIT_SLOW);
    init_alloc_root(&mem_root, 128, 128);
@@ -249,7 +251,7 @@
    pthread_mutex_lock(&LOCK_load_client_plugin);

    for (builtin= mysql_client_builtins; *builtin; builtin++)
-   add_plugin(&mysql, *builtin, 0, 0, 0);
+   add_plugin(&mysql, *builtin, 0, 0, unused);

    pthread_mutex_unlock(&LOCK_load_client_plugin);

@@ -293,11 +295,15 @@
mysql_client_register_plugin(MYSQL *mysql,
                            struct st_mysql_client_plugin
*plugin)
{
+   va_list unused;
+
    if (is_not_initialized(mysql, plugin->name))
        return NULL;

    pthread_mutex_lock(&LOCK_load_client_plugin);

+   bzero(&unused, sizeof(unused)); /* suppress uninitialized-
value warnings */
+
    /* make sure the plugin wasn't loaded meanwhile */

```

```

    if (find_plugin(plugin->name, plugin->type))
    {
@@ -307,7 +313,7 @@
        plugin= NULL;
    }
    else
-   plugin= add_plugin(mysql, plugin, 0, 0, 0);
+   plugin= add_plugin(mysql, plugin, 0, 0, unused);

    pthread_mutex_unlock(&LOCK_load_client_plugin);
    return plugin;
--- sql/query_response_time.cc 2013-01-07 06:29:49.000000000
+0000
+++ sql/query_response_time.cc 2013-03-02 12:41:16.290010827
+0000
@@ -198,7 +198,7 @@
    /* The lock for atomic operations on m_count and m_total.
Only actually
    used on architectures that do not have atomic
implementation of atomic
operations. */
- my_atomic_rwlock_t time_collector_lock;
+ mutable my_atomic_rwlock_t time_collector_lock;
    uint32    m_count[OVERALL_POWER_COUNT + 1];
    uint64    m_total[OVERALL_POWER_COUNT + 1];
};

```

Links

1. <http://www.percona.com/downloads/Percona-Server-5.5/LATEST/source/>

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