

2014-06-16

Hi Bob,

Two questions (marked with [Q]) below.

Bob writes:

Damien is starting work TODAY!

<http://monotizen.wordpress.com/2014/06/16/monotizen-day1-of-production/>

Here is a quick status report.

Today, I have:

- Set up a local QEMU-based environment running `tizen_20140602.4_RD-PQ`, the latest ARM image targeting real hardware I could put my hands on;
- Fetched the latest Mono sources from the Mono and Kitsilano organizations. Mono/master is (unsurprisingly) ahead and unforked, so I started from that;
- Figured out and installed Mono's build prerequisites on the "device." I only used official Tizen packages, and that is apparently sufficient;
- Autogen/configure'd mono. I had to create a symlink for `autogen.sh` to work, but am not currently planning to submit a patch upstream for that, as `autogen.sh` is not part of tarball releases (but I'm currently using the repository);
- Started a first compilation of Mono. That means I did not use ANY configure flags besides `-prefix` and `-disable-mcs-build` (recommended for on-device builds). Everything worked fine so far, but it builds SO SLOWLY it still hasn't finished compiling! I tried allocating more cores to QEMU, but there is a problem and the OS isn't stable.

In the meantime, I have also:

- Built the same version of Mono on Debian/x86 and OS X/x86. This will be necessary for comparing the test results;
- Built two binutils + GCC cross compiler based on Tizen's sources, for Debian/x86 and OS X/x86. This will allow to distcc future builds, but I need to manually build distcc on Tizen first (as it has not been packaged yet);

- Extracted the images from the Tizen SDK and started to figure out how to use them in a more generic build environment for the x86 version.

[Q] I have the following questions:

- Which version(s) of Mono do we want to target? I'm currently following HEAD, but an official release tarball should probably be used for proper Tizen packaging. OTOH, the latest release dates from Feb 25, and might not work as smoothly as HEAD.

Note: If you don't have any specific requirement, I will continue with HEAD for now;

- Which Tizen version(s) and platform(s) do we want to target? I'm currently building on a snapshot for RD-PQ, which is 3.0.0 Next/ARM. The SDK I downloaded is for 2.2/x86, but I haven't tried compiling Mono in there.

Note: If you don't have any specific requirement, I will continue with the RD-PQ snapshot so that you can run Mono on your device.

Tomorrow:

- I should be able to dedicate up to 4 hours on this project tomorrow;
- I'm hoping that the Mono runtime will have compiled without error by then :). I'm planning to combine it with the non-runtime parts (cf. `-disable-mcs-build`) which I have already compiled on a faster machine, and to start executing the various test suites.

Later:

- Patches, or not, depending on the compilation and test results;
- Preliminary RPM packaging?
- Same dance on Tizen 2.2/x86?
- Others, to be discussed.