2014-06-20

Questions to Bob

Bob, I have a couple questions (marked with [**Q**]) below.

Work summary

Today, I have:

- Managed to reproduce the test suite hanging observed a couple of days ago. The culprit is:

  ```
  MonoTests.System.Globalization.CultureInfoTest: \
    DefaultThreadCurrentCulture
  ```

  and the latest version also blocks on native Linux `x86_64`. Commented locally, and postponed as it will hopefully be fixed upstream;

- Tried to reproduce the `DllNotFoundException` problem, but couldn't. The emulated network of that VM seems to be a bit flaky, and I have seen NFS timeouts in the console. Postponed; we'll see if it happens again;

- Investigated the `SocketException` issue: it is due to IPv6 not being compiled in one of the kernels, and some of the tests not properly checking availability. Pull request submitted:

  https://github.com/mono/mono/pull/1118

- Investigated the `finally_block_ending_in_dead_bb.exe` issue. A quick trace through the JITed code for the relevant method shows that exception being propagated despite being in a finally block; it seems the correct behaviour has not been implemented on ARM. I have emailed Mono-devel for clarifications:

  ```
  From: Damien Diederen <dd@crosstwine.com>
  To: mono-devel-list@lists.ximian.com
  Subject: Linux ARM: finally_block_ending_in_dead_bb.cs failure
  Date: Fri, 20 Jun 2014 21:05:12 +0200
  Message-ID: <87zjh7wgev.fsf@mini.crosstwine.com>
  ```

- Investigated the `block_guard_restore_aligment_on_exit.exe` issue. The required functionality has not been implemented on ARM:

  https://bugzilla.xamarin.com/show_bug.cgi?id=19136

- Run the NUnit tests of many other Mono libraries, with fairly good results! The logs have been pushed to:

  http://dd.crosstwine.com/git/?p=kitsilano/mono-tizen/make-check-logs.git

  [**Q**] Bob, I haven't created a Kitsilano repository for these logs, because it's mostly raw data right now. Do you want me to? (I am planning to do so later anyway, but perhaps after organizing things a bit and adding a couple of comparison scripts.)

In parallel, I have:

- Pushed an initial version of a "reproducible, logged" testing script to this repository:

  https://github.com/kitsilanosoftware/MonoTizen.BuildScripts

  I have also added a GPL license document, and made the repository public.

- Added a GPL license document to this repository:

  https://github.com/kitsilanosoftware/MonoTizen.VMs

  I still haven't made it public, though, because it only contains "checksum links" to image files which we don't plan to distribute. The idea to complement these with scripts which rebuild usable images from upstream data.

  [**Q**] Bob, do you want to make the repository public anyway? It's not risky, just somewhat useless/frustrating for outsiders as every link is going to be broken, with no way to get at the actual data.

Next week, I plan to:

- Harmonize, generalize and publish the rest of the MonoTizen build/test infrastructure in Kitsilano repositories;

- Follow up on the various pull requests, questions and bug reports that have been filed so far;

- Run the test suites of the remaining "core" libraries;

- Investigate the remaining failures;

- Prepare a set of "distribution" patches which work around or disable the tests which exhibit failures that we don't want to look at. The goal is to have Mono HEAD with MonoTizen patches run its various test suites to completion on each supported Tizen/arch combination;

- Build MonoTizen RPMs.