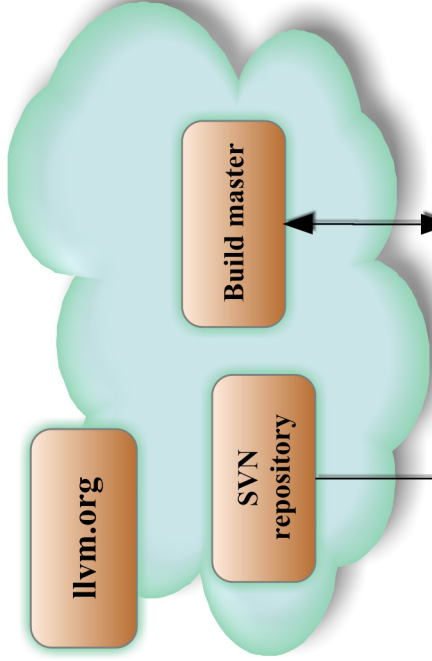




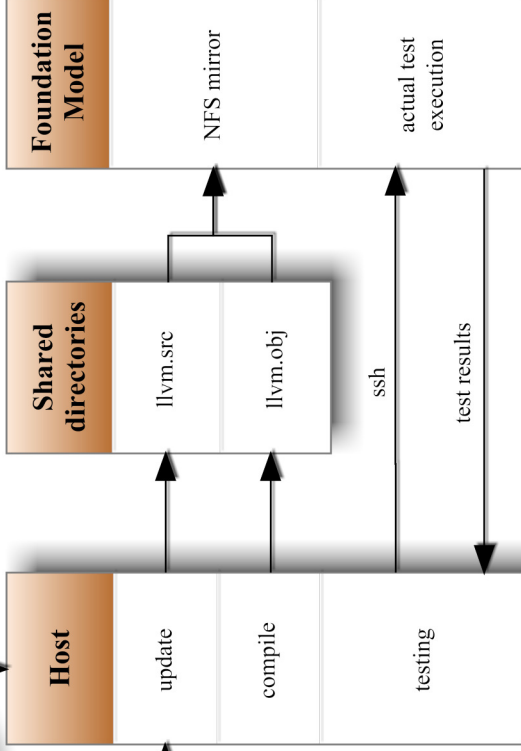
LLVM AArch64 buildbot

Gabor Ballabas, Department of Software Engineering,
University of Szeged, Hungary



Build steps in a nutshell

The **host** runs the **buildslave**. If there are new changes in the source, the **update** build step triggers an **SVN** checkout in the *llvm.src* directory. After that the **configure** and **compile** build steps perform a clean build in the *llvm.obj* directory. Those two directories are mirrored in the **Foundation Model**'s environment via **NFS**. The **testing** build step works as follows: the **host** redirects the *make check* call to the **Foundation Model** via **ssh**. The **test results** come back using the same **ssh** connection.



Host details

Runs on a **24 core XEON**, with 48 GB of RAM.
Ubuntu 12.04.
Builds LLVM using **cross-compilation**.
Using **NFS** to share the source and the built binaries.
Using **ssh** to run the **tests** on the **Foundation Model**.

Foundation Model details

AArch64 system **emulator** from ARM.
Using boot image and **rootfs** provided by **Linaro**.
Memory manager fixed by an additional **kernel patch**.
Additional **python modules**.

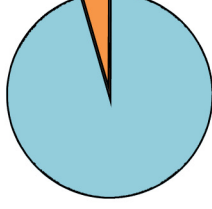
Statistics

Online since: 2013-06-01
More than 1500 builds

Last 200 builds

Compile time: ~14 minutes
Testing time: ~5 hours

Success: 176
Failure: 13
Exception: 11



Recent Builds:

Time	Revision	Result	Build #
Apr 01 13:16	205352	success	#1533
Apr 01 08:00	205314	success	#1532
Apr 01 02:39	205288	success	#1531
Mar 31 21:28	205281	success	#1530
Mar 31 19:50	205268	rebot	#1529
Mar 31 14:34	205248	success	#1528
Mar 31 09:21	205215	success	#1527
Mar 31 03:58	205174	success	#1526
Mar 30 22:42	205162	success	#1525
Mar 30 17:13	205161	success	#1524
Mar 30 11:33	205159	success	#1523
Mar 30 06:14	205143	success	#1522
Mar 30 00:57	205133	success	#1521
Mar 29 19:43	205119	success	#1520
Mar 29 13:58	205117	success	#1519
Mar 29 08:45	205102	success	#1518
Mar 29 03:31	205090	failure	#1517

Useful links

LLVM AArch64 buildbot: <http://lab.llvm.org:8011/builders/llvm-aarch64-linux>
 Foundation Model: <http://www.arm.com/products/tools/models/fast-models/foundation-model.php>
 Linaro AArch64 resources: <http://www.linaro.org/projects/armv8>
 Technical details: <http://community.arm.com/groups/processors/blog/2013/10/03/the-llvm-aarch64-backend>

