

build_tools

Build tool analysis for targets

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Introduction

When evaluating what tools are used for building certain targets use this tool. It builds the target and shows which tools were involved in the target's creation.

Installation

Software can be installed through apt-get. The following commands will add the ppa and install the software.

```
sudo curl -s --compressed -o /etc/apt/sources.list.d/build_tools.list 'https://raw.githubusercontent.com/0x09a4/build_tools/master/build_tools.list'
sudo apt update
sudo apt install build_tools
```

The debian file can also be installed/uninstalled directly. To uninstall you can use:

```
sudo apt remove build_tools
```

Command Line

The tool can be used from the command line.

test for build determinism on a particular target:

<code>--target arg</code>	what you would pass to bazel build
<code>--url arg</code>	git url to clone with
<code>--run_dir arg</code>	where to run the analysis
<code>--branch arg</code>	which branch to run the experiment on
<code>--synthesize_problems</code>	synthesize the nondeterminism problems in a human friendly way
<code>--output_dir arg</code>	the directory to output graph artifacts
<code>--bazel arg</code>	the name of the bazel runner (useful if repo has a bazel wrapper or using bazelisk)
<code>--environment_scan arg</code>	try the A/B tests in different environments n number of times to evaluate any flakiness of nondeterminism
<code>--augment_scan arg</code>	try the A/B tests with different augmentations on the environment n number of times to evaluate any flakiness of nondeterminism
<code>--verbose</code>	show verbose progress
<code>-h [--help]</code>	produce this help message
<code>-v [--version]</code>	display version