

build_determinism

Build determinism analysis for targets

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Introduction

When evaluating the determinism of building certain targets use this tool. It runs various bazel query commands to construct spawn information for all of the subcommands. These subcommands are analyzed for nondeterminism.

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_determinism.list 'https://raw.githubusercontent.com/GoogleCloudPlatform/build_determinism/master/build_determinism.list'
sudo apt update
sudo apt install build_determinism
```

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

```
sudo apt remove build_determinism
```

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>--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>--verbose</code>	show verbose progress
<code>-h [--help]</code>	produce this help message
<code>-v [--version]</code>	display version