Changelog

All notable changes to bootstrap will be documented in this file.

The format is based on [Keep a Changelog](#).

[Changes since the last major version]

- `llvm-libunwind` now accepts `in-tree` (formerly true), `system` or `no` (formerly false) [#77703](#)
- The options `infodir`, `localstatedir`, and `gpg-password-file` are no longer allowed in config.toml. Previously, they were ignored without warning. Note that `infodir` and `localstatedir` are still accepted by `./configure`, with a warning. [#82451](#)
- Add options for enabling overflow checks, one for std (`overflow-checks-std`) and one for everything else (`overflow-checks`). Both default to false.
- Change the names for `dist` commands to match the component they generate. [#90684](#)

Non-breaking changes

- `x.py check` needs opt-in to check tests (--all-targets) [#77473](#)
- The default bootstrap profiles are now located at `bootstrap/defaults/config.$PROFILE.toml` (previously they were located at `bootstrap/defaults/config.toml.$PROFILE`) [#77558](#)
- If you have Rust already installed, `x.py` will now infer the host target from the default rust toolchain. [#78513](#)

[Version 2] - 2020-09-25

- `host` now defaults to the value of `build` in all cases
  - Previously `host` defaulted to an empty list when `target` was overridden, and to `build` otherwise

Non-breaking changes

- Add `x.py setup` [#76631](#)
- Add a changelog for x.py [#76626](#)
- Optionally, download LLVM from CI on Linux and NixOS. This can be enabled with `download-ci-llvm = true` under `[llvm]`.
  - [#76439](#)
  - [#76667](#)
  - [#76708](#)
- Distribute rustc sources as part of `rustc-dev` [#76856](#)
- Make the default stage for x.py configurable [#76625](#). This can be enabled with `build-stage = N`, `doc-stage = N`, etc.
- Add a dedicated debug-logging option [#76588](#). Previously, `debug-logging` could only be set with `debug-assertions`, slowing down the compiler more than necessary.
- Add sample defaults for x.py [#76628](#)
- Add `--keep-stage-std`, which behaves like `keep-stage` but allows the stage 0 compiler artifacts (i.e., stage1/bin/rustc) to be rebuilt if changed [#77120](#).

[Version 1] - 2020-09-11

This is the first changelog entry, and it does not attempt to be an exhaustive list of features in x.py. Instead, this documents the changes to bootstrap in the past 2 months.

- Improve defaults in `x.py` [#73964](#) (see [blog post](#) for details)
- Set `ninja = true` by default [#74922](#)
- Avoid trying to inversely cross-compile for build triple from host triples [#76415](#)
- Allow blessing expect-tests in tools [#75975](#)
- `x.py check` checks tests/examples/benches [#76258](#)
- Fix `rust.use-lld` when linker is not set [#76326](#)
- Build tests with LLD if `use-lld = true` was passed [#76378](#)