

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