

Replicant - Dependencies - # 69

Dependencies

Stub

This page is a stub, feel free to improve it

Replicant 6.0

| Dependency | Working version | Potentially compatible versions | Debian 9 | Guix | PureOS | Parabola | Trisquel 7 | Trisquel 8 | Trisquel 9 ¹ |
|---------------------------------------|---|---------------------------------|----------------|--|------------------------|------------------------|------------|--|-------------------------|
| Android SDK: API Level 23 (Android 6) | * android-sdk(25.0.0) * android-sdk-platform-23(6.0.1) | ? | OK | Absent (NDK only as October 2018) | OK | Absent as October 2018 | ? | * android-sdk(24.3.3) * no android-sdk-platform-23 (why? needed?) | ? |
| gcc | * gcc(6.3.0) | ? | OK: gcc(6.3.0) | OK: gcc 4-9, with gcc-5 the default | OK: gcc-6(6.4.0) | ? | ? | * gcc-5 * gcc-4.9 * gcc-4.8 * gcc-4.7 | ? |
| Java (jdk and jre) | * openjdk-8-jdk * openjdk-8-jre | 7 | OK: openjdk 8 | OK: Icedtea 1-3 (=OpenJDK 6-7), OpenJDK 9-11 | OK: openjdk 8 | openjdk 7, 8, 10 | 7, 8 | 8, 9 | ? |
| i686 packages feed support | * zlib1g-dev:i386 | ? | OK | ? | No 32bit packages | ? | ? | ? | ? |
| 32bit libc | * libc6-dev-i386 * libc6-i386 | ? | OK | OK: glibc defined in gnu/packages/base.scm | OK | ? | ? | ? | ? |
| lib32 packages | * lib32z1-dev * lib32readline-dev * lib32ncurses5-dev | ? | OK | ? | OK | ? | ? | ? | ? |
| ? | libemma-java | ? | OK | ? | missing package (why?) | ? | ? | ? | ? |
| ? | * libandroidsdk-ddmlib-java * libandroidsdk-sdclib-j | ? | OK | ? | missing package (why?) | ? | ? | ? | ? |

| | | | | | | | | | |
|--------|---------------------------------------|---|--------------------------------|-------------------|----------------------|----------------|--|---|---|
| | ava | | | | | | | | |
| ? | libgradle-android-plugin-java:2.2.2-1 | ? | OK | ? | ? | Missing | Missing | Missing | ? |
| Status | | | Working but not FSDG compliant | No SDK (NDK only) | Few missing packages | No SDK, no NDK | Based on Ubuntu 14.04 which can build AOSP 6 | The toolchain builds with lots of hacks | ? |

¹[Trisquel 9 Pre-built Images](#)

AOSP 6.0

| Dependency | Version | Providers |
|------------------------|--------------|--------------|
| Java | 7.0 | Debian 9 |
| GNU/Linux distribution | Ubuntu 14.04 | Trisquel 7.0 |

Distributions

Debian 9 packages versions

[Debian 'build' dependencies:](#)

| Dependency | Version |
|---------------|---------|
| gcc | |
| binutils | |
| llvm-defaults | |

[Debian dependencies:](#)

| Dependency | Version |
|------------------------------|---------|
| gcc-arm-none-eabi | |
| cmake | |
| python-dev | |
| swig | |
| ant | |
| bc | |
| proguard | |
| maven-debian-helper | |
| libemma-java | |
| libasm4-java | |
| libguava-java | |
| libnb-platform18-java | |
| libnb-org-openide-util-java | |
| libandroidsdk-ddmlib-java | |
| libmaven-source-plugin-java | |
| libfreemarker-java | |
| libmaven-javadoc-plugin-java | |
| ca-cacert | |
| curl | |

| | |
|-------------------------------|---------|
| gawk | |
| libgmp3-dev | |
| libmpfr-dev | |
| libmpc-dev | |
| git-core | |
| gperf | |
| libncurses-dev | |
| squashfs-tools | |
| pngcrush | |
| zip | |
| zlib1g-dev | |
| lzma | |
| libc6-dev-i386 | |
| g++-multilib | |
| lib32z1-dev | |
| lib32readline-dev | |
| lib32ncurses5-dev | |
| zlib1g-dev:i386 | |
| xsltproc | |
| python-mako | |
| schedtool | |
| gradle | |
| dirmngr | |
| libandroidsdk-sdklib-java | |
| eclipse-jdt | |
| libgradle-android-plugin-java | 2.2.2-1 |
| android-sdk-build-tools | |
| android-sdk-platform-23 | |
| aapt | |
| lzop | |

Gradle

TODO:

- Does [Gradle](#) depends on gradle for being able to built Android¹?
- Does gradle or other dependencies really depends on scala?
- if so where are the efforts to build scala without scala?

Answers from a Guix perspective:

- Julien Lepiller is mainly working on bringing Gradle/Scala into Guix. [In his Guix development project](#) he writes that Gradle depends on Scala/SBT without mentioning the exact blocker.
- Scala depends on Scala to bootstrap. If you go down the long bootstrap chain you will end up at [Pizza](#). It is unsure if you can successfully bootstrap Scala from Pizza from Java.
- Julien wrote [this blog post](#) (French) about the whole Android/Scala/Kotlin bootstrapping problem.
- [Scabo](#) is The Scala Bootstrapping Project, Julien's attempt to bootstrap Scala from Java.
- Scala 3.0 will be the new [Dotty project](#), see also [this blog post](#). I have not investigated if this project cleans up bootstrapping or will make it worse.

¹[A debian build log of gradle](#) "Merged Build-Depends: [...] gradle (>= 3.4)[...]"

References

- <https://source.android.com/setup/build/older-versions>
- <https://source.android.com/setup/build/requirements>