

Last login: Sun Dec 29 10:00:49 on console
nimishsabis@Nimishs-MacBook-Air ~ % brew install qemu

=> Auto-updating Homebrew...

Adjust how often this is run with HOMEBREW_AUTO_UPDATE_SECS or disable with
HOMEBREW_NO_AUTO_UPDATE. Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').

=> Auto-updated Homebrew!
Updated 2 taps (homebrew/core and homebrew/cask).

=> New Formulae

cargo-dist	monocle	ruby@3.3
cargo-flamegraph	periphery	swc
go-parquet-tools	ratify	wcstools

=> New Casks

ayugram	ghostty@tip	tm-error-logger
clipbook	mindmaster-cn	tpvirtual
ghostty	nexonplug	widgettoggler

You have 3 outdated formulae installed.

=> Downloading https://ghcr.io/v2/homebrew/core/qemu/manifests 100.0%

=> Fetching dependencies for qemu: libunistring, gettext, capstone, dtc, pcre2, python-packaging, mpdecimal, readline, sqlite, xz, python@3.13, glib, gmp, libidn2, nettle, p11-kit, libevent, unbound, gnutls, jpeg-turbo, libpng, libslirp, libssh, libusb, lzo, ncurses, pixman, snappy, vde, lz4 and zstd

=> Downloading https://ghcr.io/v2/homebrew/core/libunistring 100.0%

=> Fetching libunistring

=> Downloading https://ghcr.io/v2/homebrew/core/libunistring 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/gettext/manifests 100.0%

=> Fetching gettext

=> Downloading https://ghcr.io/v2/homebrew/core/gettext/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/capstone/manifests 100.0%

=> Fetching capstone

=> Downloading https://ghcr.io/v2/homebrew/core/capstone/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/dtc/manifests 100.0%

=> Fetching dtc

=> Downloading https://ghcr.io/v2/homebrew/core/dtc/blobs/sha 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/pcre2/manifests 100.0%

=> Fetching pcre2

=> Downloading https://ghcr.io/v2/homebrew/core/pcre2/blobs/manifests 100.0%

=> Fetching python-packaging

=> Downloading https://ghcr.io/v2/homebrew/core/python-packaging/manifests 100.0%

=> Fetching python-packaging

=> Downloading https://ghcr.io/v2/homebrew/core/python-packaging/manifests 100.0%

=> Fetching mpdecimal

=> Downloading https://ghcr.io/v2/homebrew/core/mpdecimal/manifests 100.0%

=> Fetching mpdecimal

=> Downloading https://ghcr.io/v2/homebrew/core/mpdecimal/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/readline/manifests 100.0%

=> Fetching readline

=> Downloading https://ghcr.io/v2/homebrew/core/readline/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/sqlite/manifests 100.0%

=> Fetching sqlite

=> Downloading https://ghcr.io/v2/homebrew/core/sqlite/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/xz/manifests 100.0%

=> Fetching xz

=> Downloading https://ghcr.io/v2/homebrew/core/xz/blobs/sha 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/python/3.13/manifests 100.0%

=> Fetching python@3.13

=> Downloading https://ghcr.io/v2/homebrew/core/python/3.13/manifests 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/glib/manifests 100.0%

=> Fetching glib

=> Downloading https://ghcr.io/v2/homebrew/core/glib/blobs/manifests 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/gmp/manifests 100.0%

=> Fetching gmp

=> Downloading https://ghcr.io/v2/homebrew/core/gmp/blobs/sha 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/libidn2/manifests 100.0%

=> Fetching libidn2

=> Downloading https://ghcr.io/v2/homebrew/core/libidn2/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/nettle/manifests 100.0%

=> Fetching nettle

=> Downloading https://ghcr.io/v2/homebrew/core/nettle/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/p11-kit/manifests 100.0%

=> Fetching p11-kit

=> Downloading https://ghcr.io/v2/homebrew/core/p11-kit/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/libevent/manifests 100.0%

=> Fetching libevent

=> Downloading https://ghcr.io/v2/homebrew/core/libevent/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/unbound/manifests 100.0%

=> Fetching unbound

=> Downloading https://ghcr.io/v2/homebrew/core/unbound/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/gnutls/manifests 100.0%

=> Fetching gnutls

=> Downloading https://ghcr.io/v2/homebrew/core/gnutls/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/jpeg-turbo/manifests 100.0%

=> Fetching jpeg-turbo

=> Downloading https://ghcr.io/v2/homebrew/core/jpeg-turbo/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/libpng/manifests 100.0%

=> Fetching libpng

=> Downloading https://ghcr.io/v2/homebrew/core/libpng/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/libslirp/manifests 100.0%

=> Fetching libslirp

=> Downloading https://ghcr.io/v2/homebrew/core/libslirp/blobs 100.0%

=> Downloading https://ghcr.io/v2/homebrew/core/libssh/manifests 100.0%

=> Fetching libssh

=> Downloading https://ghcr.io/v2/homebrew/core/libssh/blobs 100.0%

```
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/libusb/manif
##### 100.0%
==> Fetching libusb
==> Downloading https://ghcr.io/v2/homebrew/core/libusb/blobs
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/lzo/manifest
##### 100.0%
==> Fetching lzo
==> Downloading https://ghcr.io/v2/homebrew/core/lzo/blobs/sh
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/ncurses/mani
##### 100.0%
==> Fetching ncurses
==> Downloading https://ghcr.io/v2/homebrew/core/ncurses/blob
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/pixman/manif
##### 100.0%
==> Fetching pixman
==> Downloading https://ghcr.io/v2/homebrew/core/pixman/blobs
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/snappy/manif
##### 100.0%
==> Fetching snappy
==> Downloading https://ghcr.io/v2/homebrew/core/snappy/blobs
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/vde/manifest
##### 100.0%
==> Fetching vde
==> Downloading https://ghcr.io/v2/homebrew/core/vde/blobs/sh
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/lz4/manif
##### 100.0%
==> Fetching lz4
==> Downloading https://ghcr.io/v2/homebrew/core/lz4/blobs/sh
##### 100.0%
==> Downloading https://ghcr.io/v2/homebrew/core/zstd/manifes
##### 100.0%
==> Fetching zstd
==> Downloading https://ghcr.io/v2/homebrew/core/zstd/blobs/s
##### 100.0%
==> Fetching qemu
==> Downloading https://ghcr.io/v2/homebrew/core/qemu/blobs/s
##### 100.0%
==> Installing dependencies for qemu: libunistring, gettext, capstone, dtc, pcre2, python-packaging, mpdecimal, readline, sqlite, xz, python@3.13, glib, gmp, libidn2, nettle, p11-kit, libevent, unbound, gnutls, jpeg-turbo, libpng, libslirp, libssh, libusb, lzo, ncurses, pixman, snappy, vde, lz4 and zstd
==> Installing qemu dependency: libunistring
==> Downloading https://ghcr.io/v2/homebrew/core/libunistring
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/a570da63bc1839c7e217f203abd54d4d873ebd6b99f6e88994d0e79e2ebe987c--libunistring-1.3.bottle_manifest.json
==> Pouring libunistring-1.3.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libunistring/1.3: 59 files, 8.4MB
==> Installing qemu dependency: gettext
==> Downloading https://ghcr.io/v2/homebrew/core/gettext/mani
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/877a628115309630ae110dcba7021c03cfffcb1b3dc923224cfae218eba1929--gettext-0.23.bottle_manifest.json
==> Pouring gettext-0.23.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/gettext/0.23: 2,052 files, 22.4MB
==> Installing qemu dependency: capstone
==> Downloading https://ghcr.io/v2/homebrew/core/capstone/man
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/f77d59d4c25d40ffcd6c420fbc75fc7821fdae8c804b54dca35aecb3dd9384--capstone-5.0.3.bottle_manifest.json
==> Pouring capstone-5.0.3.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/capstone/5.0.3: 31 files, 22.4MB
==> Installing qemu dependency: dtc
==> Downloading https://ghcr.io/v2/homebrew/core/dtc/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/ed84da36a88c21945d4e25f140280305e493c750a27bc01887a737260f06105--dtc-1.7.2.bottle_manifest.json
==> Pouring dtc-1.7.2.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/dtc/1.7.2: 19 files, 627KB
==> Installing qemu dependency: pcre2
==> Downloading https://ghcr.io/v2/homebrew/core/pcre2/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/22ed791461c5bf40adde8c3b432c1230866aa1db3c5c8b106a6ff21cac96ee--pcre2-10.44.bottle_manifest.json
==> Pouring pcre2-10.44.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/pcre2/10.44: 237 files, 6.3MB
==> Installing qemu dependency: python-packaging
==> Downloading https://ghcr.io/v2/homebrew/core/python-packa
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/a654ed84d67e43ae714ac584959721dfc7297f1cb87be9237baee7632a2b76--python-packaging-24.2.bottle_manifest.json
==> Pouring python-packaging-24.2.all.bottle.tar.gz
📦 /opt/homebrew/Cellar/python-packaging/24.2: 56 files, 491.3KB
==> Installing qemu dependency: mpdecimal
==> Downloading https://ghcr.io/v2/homebrew/core/mpdecimal/man
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/7b63c3b34bee40229af49fac829a6682ab45ea5c9258b6fe03b590a83a4c4a9--mpdecimal-4.0.0-1.bottle_manifest.json
==> Pouring mpdecimal-4.0.0.arm64_sequoia.bottle.1.tar.gz
📦 /opt/homebrew/Cellar/mpdecimal/4.0.0: 22 files, 641.3KB
==> Installing qemu dependency: readline
==> Downloading https://ghcr.io/v2/homebrew/core/readline/man
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/a1a1afa38997a2866d91c81fdda8b36d436cd4ea7a82aed07d13c83c56eb3460e--readline-8.2.13.bottle_manifest.json
==> Pouring readline-8.2.13.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/readline/8.2.13: 51 files, 1.7MB
==> Installing qemu dependency: sqlite
==> Downloading https://ghcr.io/v2/homebrew/core/sqlite/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/27ec8d19b6501f36464da50d9b2641d87015b45a16b81864afce75a247a2d3b1--sqlite-3.47.2.bottle_manifest.json
==> Pouring sqlite-3.47.2.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/sqlite/3.47.2: 12 files, 4.9MB
==> Installing qemu dependency: xz
==> Downloading https://ghcr.io/v2/homebrew/core/xz/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/e68799185cc17334180ba286ba8c3df0587c9fd8375647d85f7157b62a797599--xz-5.6.3.bottle_manifest.json
==> Pouring xz-5.6.3.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/xz/5.6.3: 96 files, 2.0MB
==> Installing qemu dependency: python@3.13
==> Downloading https://ghcr.io/v2/homebrew/core/python/3.13/
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/949676e81ca77af5cb2668914c87d9f9b6738cd844cda7bb57ccfd96bfe3397--python@3.13-3.13.1.bottle_manifest.json
==> Pouring python@3.13-3.13.1.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/python@3.13/3.13.1/bin/python3.13 -I
📦 /opt/homebrew/Cellar/python@3.13/3.13.1/bin/python3.13 -I
📦 /opt/homebrew/Cellar/python@3.13/3.13.1: 3,269 files, 65.3MB
==> Installing qemu dependency: glib
==> Downloading https://ghcr.io/v2/homebrew/core/glib/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/48cf1dc2a2e975f6b45e31970e772c5b8aadbf7e5dd1b454c353ae422f07e1c--glib-2.82.4-1.bottle_manifest.json
==> Pouring glib-2.82.4.arm64_sequoia.bottle.1.tar.gz
📦 /opt/homebrew/Cellar/glib/2.82.4: 584 files, 36.3MB
==> Installing qemu dependency: gmp
==> Downloading https://ghcr.io/v2/homebrew/core/gmp/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/70a72f1216843d66a953c086f6337445ce9bc94fae9f8e30e2f59005274a8e--gmp-6.3.0.bottle_manifest.json
==> Pouring gmp-6.3.0.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/gmp/6.3.0: 22 files, 3.3MB
==> Installing qemu dependency: libidn2
==> Downloading https://ghcr.io/v2/homebrew/core/libidn2/mani
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/45d1d4d2938c4782b5f61a10166cd8a0f4193ac8c44e86f0b6708e80354--libidn2-2.3.7.bottle_manifest.json
==> Pouring libidn2-2.3.7.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libidn2/2.3.7: 81 files, 1MB
==> Installing qemu dependency: nettle
==> Downloading https://ghcr.io/v2/homebrew/core/nettle/manif
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/8dc57e1a11535116cedad68fea09cf7fa54776a1e357cddb65b679768548586--nettle-3.10.bottle_manifest.json
==> Pouring nettle-3.10.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/nettle/3.10: 96 files, 2.7MB
==> Installing qemu dependency: p11-kit
==> Downloading https://ghcr.io/v2/homebrew/core/p11-kit/mani
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/ba19311d6335b681ee8e745af9980f80ad52d243a53866a21ead0d6d421a31--p11-kit-0.25.5-1.bottle_manifest.json
==> Pouring p11-kit-0.25.5.arm64_sequoia.bottle.1.tar.gz
📦 /opt/homebrew/Cellar/p11-kit/0.25.5: 31 files, 4.2MB
==> Installing qemu dependency: libevent
==> Downloading https://ghcr.io/v2/homebrew/core/libevent/man
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/68b113f9ab63db45f4e1800de522ce2ca4f081eb3c0d5c7d6005a35c3cf8d06--libevent-2.1.12.1.bottle_manifest.json
==> Pouring libevent-2.1.12.1.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libevent/2.1.12.1: 58 files, 2.2MB
==> Installing qemu dependency: unbound
==> Downloading https://ghcr.io/v2/homebrew/core/unbound/mani
Already downloaded: /Users/nimishsabnis/Library/Caches/Homebrew/downloads/94cb5ac77fe9ed3d8e9754f9abb482ea9c14403d80e16f4f280ed4d7b69496--unbound-1.22.0.bottle_manifest.json
==> Pouring unbound-1.22.0.arm64_sequoia.bottle.tar.gz
```

```

📦 /opt/homebrew/Cellar/unbound/1.22.0: 59 files, 6MB
==> Installing qemu dependency: gnutls
==> Downloading https://ghcr.io/v2/homebrew/core/gnutls/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/73c18cc76ca68c25efa04b897881358a5ad032ae8a5f9c5fe81b70875128236--gnutls-3.8.4.bottle_manifest.json
==> Pouring gnutls--3.8.4.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/gnutls/3.8.4: 1,293 files, 10.8MB
==> Installing qemu dependency: jpeg-turbo
==> Downloading https://ghcr.io/v2/homebrew/core/jpeg-turbo/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/6a56a664f24b0435ac129cb33185ae84d88ae0f2357ac6fd3772dad9ac5c7d7--jpeg-turbo-3.1.0.bottle_manifest.json
==> Pouring jpeg-turbo--3.1.0.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/jpeg-turbo/3.1.0: 47 files, 3.5MB
==> Installing qemu dependency: libpng
==> Downloading https://ghcr.io/v2/homebrew/core/libpng/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/0e089cec124a817e140dfc78aba6887ae650dd4fe1d55d5b516a872f8007b5--libpng-1.6.44.bottle_manifest.json
==> Pouring libpng--1.6.44.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libpng/1.6.44: 28 files, 1.3MB
==> Installing qemu dependency: libslirp
==> Downloading https://ghcr.io/v2/homebrew/core/libslirp/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/6d0118aaacae7b522b8c6fd6c5a20c3d5ed9e43c01253fb70ef514620a3bfedf--libslirp-4.8.0.bottle_manifest.json
==> Pouring libslirp--4.8.0.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libslirp/4.8.0: 12 files, 412.7KB
==> Installing qemu dependency: libssh
==> Downloading https://ghcr.io/v2/homebrew/core/libssh/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/3591f41514c0ebe698a36753dce13e71fa33363993429a04af0da249f1ee04c--libssh-0.11.1.bottle_manifest.json
==> Pouring libssh--0.11.1.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libssh/0.11.1: 25 files, 1.4MB
==> Installing qemu dependency: libusb
==> Downloading https://ghcr.io/v2/homebrew/core/libusb/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/55f37938c4e678b6d2cd789c12b59f9ec178aec5d034e3ea54721cf732272b--libusb-1.0.27.bottle_manifest.json
==> Pouring libusb--1.0.27.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/libusb/1.0.27: 23 files, 619.7KB
==> Installing qemu dependency: lzo
==> Downloading https://ghcr.io/v2/homebrew/core/lzo/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/d4aa5b0c239912c53bc857d1012c6b7f6b4ac509618f5e100f95bf8521f08e7--lzo-2.10.bottle_manifest.json
==> Pouring lzo--2.10.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/lzo/2.10: 32 files, 567.9KB
==> Installing qemu dependency: ncurses
==> Downloading https://ghcr.io/v2/homebrew/core/ncurses/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/b2f8cae08b15832435170efd265346225ee388d5baab3dc5c0e3a77c5673b5a--ncurses-6.5.bottle_manifest.json
==> Pouring ncurses--6.5.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/ncurses/6.5: 4,052 files, 9.9MB
==> Installing qemu dependency: pixman
==> Downloading https://ghcr.io/v2/homebrew/core/pixman/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/710d020ae0348db5aff5d6dbdf222dca009e630d6ae8dcd5f8a8499e8131681--pixman-0.44.2.bottle_manifest.json
==> Pouring pixman--0.44.2.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/pixman/0.44.2: 10 files, 655.6KB
==> Installing qemu dependency: snappy
==> Downloading https://ghcr.io/v2/homebrew/core/snappy/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/b2e6bfcdbddfd1451a8dbbb6fc3c44a267b753ac1a889dbb0b9159bf31dacdd5--snappy-1.2.1.bottle_manifest.json
==> Pouring snappy--1.2.1.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/snappy/1.2.1: 19 files, 172.2KB
==> Installing qemu dependency: vde
==> Downloading https://ghcr.io/v2/homebrew/core/vde/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/4e9503141162571c2cd21e89a9e61f524a7403ffe5ffe269f4a39ce5aef9f210--vde-2.3.3.bottle_manifest.json
==> Pouring vde--2.3.3.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/vde/2.3.3: 67 files, 1.3MB
==> Installing qemu dependency: lz4
==> Downloading https://ghcr.io/v2/homebrew/core/lz4/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/8e11e90eb21a06e0f199af9d80e011e3693c77dd353b2477579d95c8471a5802--lz4-1.10.0-1.bottle_manifest.json
==> Pouring lz4--1.10.0.arm64_sequoia.bottle.1.tar.gz
📦 /opt/homebrew/Cellar/lz4/1.10.0: 24 files, 713.6KB
==> Installing qemu dependency: zstd
==> Downloading https://ghcr.io/v2/homebrew/core/zstd/manifest
Already downloaded: /Users/nimishsabis/Library/Caches/Homebrew/downloads/29403e0df5404d8aeca0e750ac135ec9ef44fc5eeb6df69170ed602acab0fffb--zstd-1.5.6.bottle_manifest.json
==> Pouring zstd--1.5.6.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/zstd/1.5.6: 32 files, 2.1MB
==> Installing qemu
==> Pouring qemu--9.2.0.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/qemu/9.2.0: 166 files, 669.5MB
==> Running 'brew cleanup qemu'...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
nimishsabis@Nimishs-MacBook-Air ~ % brew install nasm

==> Downloading https://ghcr.io/v2/homebrew/core/nasm/manifests
##### 100.0%
==> Fetching nasm
==> Downloading https://ghcr.io/v2/homebrew/core/nasm/blobs/sha256-100.0%
==> Pouring nasm--2.16.03.arm64_sequoia.bottle.tar.gz
📦 /opt/homebrew/Cellar/nasm/2.16.03: 12 files, 2.7MB
==> Running 'brew cleanup nasm'...
Disable this behaviour by setting HOMEBREW_NO_INSTALL_CLEANUP.
Hide these hints with HOMEBREW_NO_ENV_HINTS (see 'man brew').
nimishsabis@Nimishs-MacBook-Air ~ % mkdir bootloader && cd bootloader

nimishsabis@Nimishs-MacBook-Air bootloader % nano bootloader.asm

nimishsabis@Nimishs-MacBook-Air bootloader % nano bootloader.asm

nimishsabis@Nimishs-MacBook-Air bootloader % dd if=/dev/zero of=bootloader.img bs=512 count=1
dd if=bootloader.bin of=bootloader.img conv=notrunc

1+0 records in
1+0 records out
512 bytes transferred in 0.000313 secs (1635783 bytes/sec)
dd: bootloader.bin: No such file or directory
nimishsabis@Nimishs-MacBook-Air bootloader % nasm -f bin bootloader.asm -o bootloader.bin

nimishsabis@Nimishs-MacBook-Air bootloader % nasm -v

NASM version 2.16.03 compiled on Apr 17 2024
nimishsabis@Nimishs-MacBook-Air bootloader % dd if=bootloader.bin of=bootloader.img conv=notrunc

1+0 records in
1+0 records out
512 bytes transferred in 0.000229 secs (2235808 bytes/sec)
nimishsabis@Nimishs-MacBook-Air bootloader % dd if=/dev/zero of=bootloader.img bs=512 count=1
dd if=bootloader.bin of=bootloader.img conv=notrunc

1+0 records in
1+0 records out
512 bytes transferred in 0.000289 secs (1771626 bytes/sec)
1+0 records in
1+0 records out
512 bytes transferred in 0.000194 secs (2639175 bytes/sec)
nimishsabis@Nimishs-MacBook-Air bootloader % qemu-system-x86_64 -drive format=raw,file=bootloader.img

2024-12-29 11:33:38.974 qemu-system-x86_64[7667:58119] +[IMKClient subclass]: chose IMKClient_Modern
2024-12-29 11:33:38.974 qemu-system-x86_64[7667:58119] +[IMKInputSession subclass]: chose IMKInputSession_Modern

```

