

Genode+Fiasco OC Installation

QEMU & VDE

```
sudo apt-get install libvde-dev libvdeplug-dev ninja-build libglib2.0-dev libpixmap-1-  
dev libSDL2-dev  
wget https://download.qemu.org/qemu-6.1.0-rc1.tar.xz  
tar xvjf qemu-6.1.0-rc1.tar.xz  
cd qemu-6.1.0-rc1  
./configure --enable-vde --enable-sdl --target-list=arm-softmmu  
make  
sudo make install
```

Run VDE with

```
vde_switch -s /tmp/switch1
```

Getting the Genode Toolchain

```
git clone https://github.com/genodelabs/genode.git  
cd <genode-dir>  
wget https://sourceforge.net/projects/genode/files/genode-toolchain/21.05/genode-  
toolchain-21.05-x86_64.tar.xz  
sudo tar xPf genode-toolchain-21.05-x86_64.tar.xz  
./tool/tool_chain_qt5 build  
./tool/tool_chain_qt5 install
```

Building the Fiasco.OC Version of Genode

```
./tool/ports/prepare_port foc dde_linux ada-runtime bzip2 ccid curl drm e2fsprogs-lib  
fatfs ffi freetype fribidi icu jbig2dec jitterentropy jpeg libarchive libc libgcrypt  
libpng libsparkcrypto libssh libusb libyaml lua lwip lz4 mesa mupdf ncurses openjpeg  
openssl pcg-c pcre pcsc-lite qemu-usb qoost qt5 readline sanitizer stdcxx x86emu xz  
zlib expat gcov libiconv gmp libuv  
./tool/create_builddir arm_v7a BUILD_DIR=arm_v7a  
cd arm_v7a
```

The following lines need to be uncommented in `<genode-build>/etc/build.conf` :

```
REPOSITORIES += $(GENODE_DIR)/repos/libports  
REPOSITORIES += $(GENODE_DIR)/repos/dde_linux
```

```
make KERNEL=foc BOARD=pbxa9
```

Running Repos

Add the repository path to `<genode-build>/etc/build.conf`

```
REPOSITORIES += $(GENODE_DIR)/repos/<Repo>
```

```
make run/<run-filename>
```