

Installation instructions for SiMKit for Cadence circuit simulators

Install the libraries:

Download `simkit_<version>_pub_linux.tar.gz` to a location at your computer

Unpack the file with

```
unzip simkit_<version>_pub_linux.tar.gz
```

```
tar xf simkit_<version>_pub_linux.tar
```

Create an environment variable `SIMKIT_HOME` that points to the location where the libraries are, e.g.
`export SIMKIT_HOME=/home/user/downloads/simkit`

You can use the SiMKit library in 2 possible ways:

1. Generate a `.cmiconfig` file in your home directory or
2. Make use of an environment variable `CMI_CONFIG` which points to the configuration file containing the library information

The CMI config file must contain the following information:

```
***Start Philips_models***  
load $SIMKIT_HOME/%b/libsimkit_spectre_%M.so  
load $SIMKIT_HOME/%b/libsmk_%M.so  
; Related to Cadence_ic 4.4.6:  
unload libphilips.so  
; Related to Cadence_ic 5.* and Cadence_mmsim:  
unload libphilips_sh.so  
***End Philips_models***
```

Note that:

- `SIMKIT_HOME` points to the directory where the two libraries are located.
- Cadence is using several CMI versions for their simulation tools, this depends on the actual version you use. The correct CMI version is set via the `%M` option in the CMI config file.
- The support of 32 or 64-bit executables in the CMI config file is handled via the `%b` option.
- Make sure `$SIMKIT_HOME` is part of your library load path, e.g. by setting `export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$SIMKIT_HOME:$SIMKIT_HOME/64bit`
- The information in the configuration file set by the environment variable `CMI_CONFIG` will be overruled by the information of the `.cmiconfig` file if available in the working home dir.