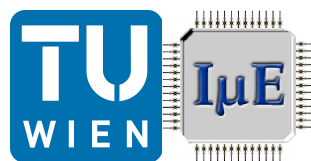


# ViennaTS User Guide



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# About This Software

## **ViennaTS**

Developer repository for ViennaTS, a C++, OpenMP-parallelized Topography simulator.

ViennaTS is currently in a prototype state.

## **System requirements**

- \* C++ compiler
- \* OpenMP
- \* Boost C++ Libraries
- \* SPRNG
- \* *HDF5 – only required to import HDF5 file types*

## **Currently supported operating systems**

- \* GNU/Linux

## **Authors and Contact**

Current contributors: Lado Filipovic, Paul Manstetten, and Josef Weinbub

Contact us via: viennats AT iue DOT tuwien DOT ac DOT at

Founder and initial author was Otmar Ertl; not active anymore.

ViennaTS was developed under the aegis of the 'Institute for Microelectronics' at the 'TU Wien'.

# Getting Started

## **Building Instructions**

To build ViennaTS, clone the repository and issue the following suggested commands:

```
$> cd viennats-dev # the checked-out GIT folder
```

```
$> mkdir build      # the build folder
```

Configure the build, default build type is the 'optimized/release' mode:

```
$> cd build/
```

```
$> cmake ..
```

Now build the 'viennats' executable

```
$> make
```

## **CMake Options**

CMAKE\_BUILD\_TYPE = debug, (release) # Turn off/on optimizations (default: release, i.e., optimized mode)

## **Running the software**

```
./viennats [parameters_file]
```