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# **rocRAND Python Wrapper Documentation**

***Release 1.0.0***

**Advanced Micro Devices, Inc.**

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This wrapper has API similar to **pyculib.rand** (<http://pyculib.readthedocs.io/en/latest/curand.html>).



### 1.1 Requirements

- rocRAND
- Python 2.7 or 3.5
- NumPy (will be installed automatically as a dependency if necessary)

Note: If rocRAND is built from sources but not installed or installed in non-standard directory set ROCRAND\_PATH environment variable, for example:

```
export ROCRAND_PATH=~/.rocRAND/build/library/
```

### 1.2 Installing

Install:

```
cd python/rocrand  
pip install .
```

Run tests:

```
python tests/rocrand_test.py
```





## CHAPTER 2

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rocrand module

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Provides *pseudo-random number generator* (PRNG) and *quasi-random number generator* (QRNG).

### **2.1 class PRNG**

### **2.2 class QRNG**

### **2.3 Exceptions**

### **2.4 Utilities**