

# Instalação do HEMPS

## (Instalação executada no sistema Linux Ubuntu 16.04 LTS x86)

Primeiramente, se faz necessária a instalação do systemC:

Link para download:

<http://accellera.org/downloads/standards/systemc>

Home » Downloads » Accellera Standards » SystemC

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## SystemC

Standards are developed in a collaborative and open environment by technical working groups. Working groups operate by building consensus regarding requirements, proposed new features, and implementation. Ultimately these may become part of a future standard. Participation in the technical working groups is the primary way that progress is made in improving the SystemC language, implementation, and associated libraries.

All of our members and community are welcome to download the specifications and documents made publicly available by the working groups.

**Note:** In 2016 Accellera re-licensed all SystemC supplemental material under the Apache 2.0 License. Access to some previous releases of SystemC material may still require acceptance of the terms of the [SystemC Open Source License](#) while the process of updating license statements is underway. Please [contact the Accellera office](#) if you have any questions.

### Current Releases

| Item                         | Download  | Date Modified |
|------------------------------|---|---------------|
| SystemC 2.3.1 (Includes TLM) | <a href="#">Core SystemC Language and Examples</a>                  | 2016-11-03    |
|                              | <a href="#">SystemC Regression Test Suite</a>                       | 2016-11-03    |
| AMS 2.0                      | <a href="#">Analog/Mixed-signal (AMS) Language Reference Manual</a> | 2016-08-12    |
| SystemC Verification 2.0     | <a href="#">SystemC Verification Library (SCV)</a>                  | 2016-10-19    |
| SystemC Synthesis 1.4.7      | <a href="#">SystemC Synthesis Subset</a>                            | 2016-03-11    |

Baixe o **Core SystemC Language and Examples**.

Após descompactar o arquivo, mova-o para a pasta **/opt**;

Vá até a pasta do **/opt/systemc**;

Execute os comandos abaixo (um por um) como root:

**./configure --prefix=/opt/systemc**

**sudo make**

**sudo make install**

### **Alterando o arquivo Profile:**

Acesse o arquivo profile (sem ser no modo root) com o seguinte comando:

**gedit ~/.profile**

Ponha as linhas seguintes no final do arquivo:

export PATH=/HEMPS\_PATH/build\_env/bin:\$PATH

export PATH=/opt/soft64/mips/bin:\$PATH

export LD\_LIBRARY\_PATH=/opt/systemc/lib-linux:\$LD\_LIBRARY\_PATH

export LIBRARY\_PATH=/opt/systemc/lib-linux

export SYSTEMC\_HOME=/opt/systemc

export SYSTEMC\_PATH=/opt/systemc

### **Alterando o arquivo environment:**

Através do terminal (como root) execute o comando abaixo:

**gedit /etc/environment**

Apague todo o texto do arquivo e coloque as seguintes instruções:

PATH="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/opt/hemps/build\_env/bin:/opt/soft64/mips/bin"

HEMPS\_PATH=/opt/hemps

LD\_LIBRARY\_PATH=/opt/systemc/lib-linux:\$LD\_LIBRARY\_PATH

LIBRARY\_PATH=/opt/systemc/lib-linux

SYSTEMC=/opt/systemc

SYSTEMC\_HOME=/opt/systemc

SYSTEMC\_PATH=/opt/systemc

CPLUS\_INCLUDE\_PATH=/opt/systemc/include

C\_INCLUDE\_PATH=/opt/systemc/include

### **Instalação do mips**

Baixe o arquivo **cross\_mips.tar.gz** no link abaixo:

<https://corfu.pucrs.br/redmine/projects/hemps/files>

Descompacte o arquivo e mova a pasta soft64 para o diretório **/opt**

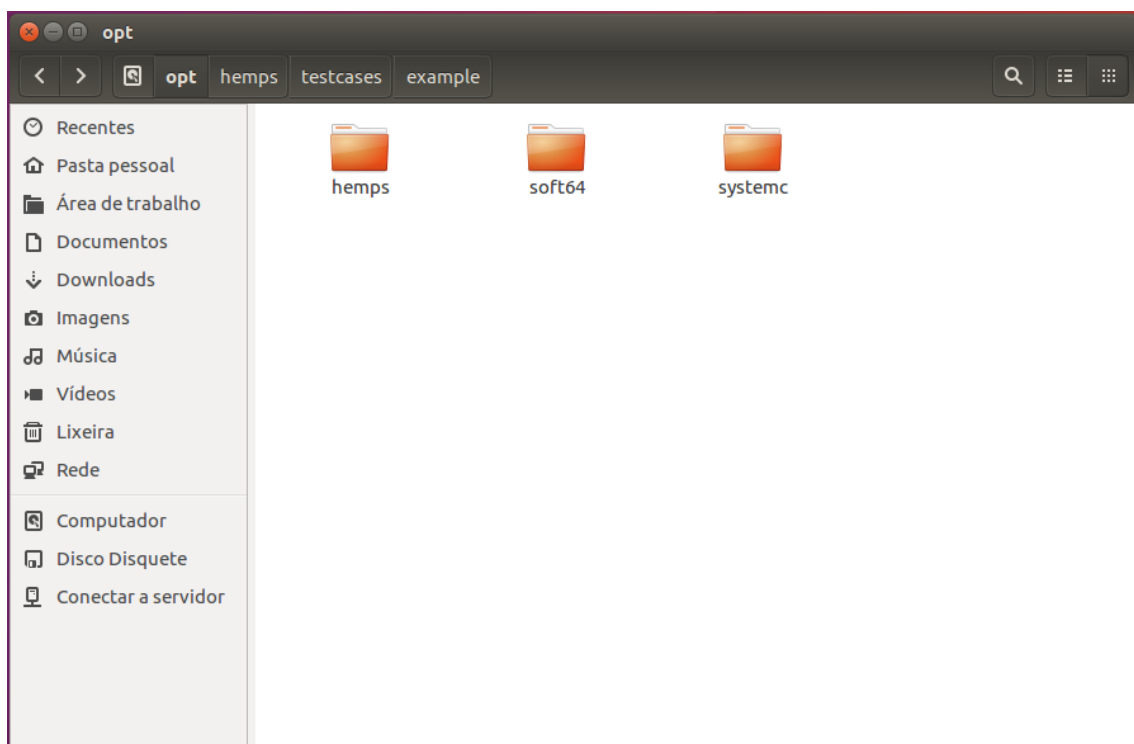
### **Instalação do hemps**

Baixe o hemps através do link abaixo:

<https://github.com/GaphGroup/hemps>

Descompacte o arquivo e mova a subpasta hemps para o diretório **/opt**.

Ao final do processo devemos ter os diretórios das seguintes forma:



**Instale o Python e Java** através das linhas de comando abaixo:

**apt-get install python-yaml**

**apt-get install default-jre**

**Reinicie o computador.**

Teste o hempo acessando a pasta **/opt/hempo/testcases/** e executando o comando **hempo-run example.yaml 10**