

# Instalação do GNSPICE e conexão com MATLAB

Configuração de Variáveis de Ambiente

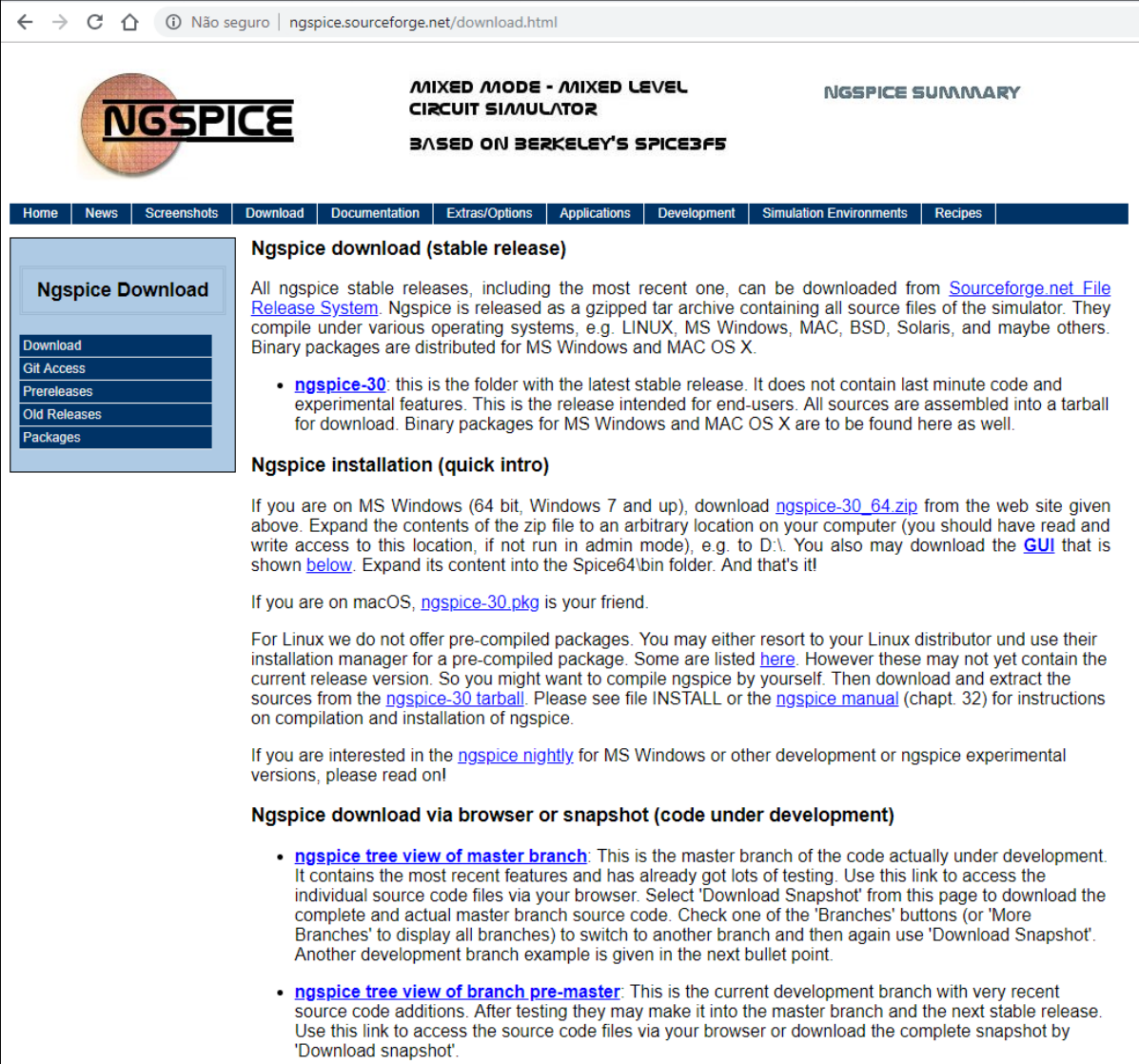
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[www.cear.ufpb.br/juan](http://www.cear.ufpb.br/juan)

# Baixar o GNSPICE para windows

<http://ngspice.sourceforge.net/download.html>



← → ↻ 🏠 ⓘ Não seguro | ngspice.sourceforge.net/download.html

**NGSPICE** **MIXED MODE - MIXED LEVEL** **NGSPICE SUMMARY**  
**CIRCUIT SIMULATOR**  
**BASED ON BERKELEY'S SPICE3F5**

Home News Screenshots Download Documentation Extras/Options Applications Development Simulation Environments Recipes

**Ngspice Download**

- Download
- Git Access
- Prereleases
- Old Releases
- Packages

**Ngspice download (stable release)**

All ngspice stable releases, including the most recent one, can be downloaded from [Sourceforge.net File Release System](#). Ngspice is released as a gzipped tar archive containing all source files of the simulator. They compile under various operating systems, e.g. LINUX, MS Windows, MAC, BSD, Solaris, and maybe others. Binary packages are distributed for MS Windows and MAC OS X.

- [ngspice-30](#): this is the folder with the latest stable release. It does not contain last minute code and experimental features. This is the release intended for end-users. All sources are assembled into a tarball for download. Binary packages for MS Windows and MAC OS X are to be found here as well.

**Ngspice installation (quick intro)**

If you are on MS Windows (64 bit, Windows 7 and up), download [ngspice-30\\_64.zip](#) from the web site given above. Expand the contents of the zip file to an arbitrary location on your computer (you should have read and write access to this location, if not run in admin mode), e.g. to D:\. You also may download the [GUI](#) that is shown [below](#). Expand its content into the Spice64\bin folder. And that's it!

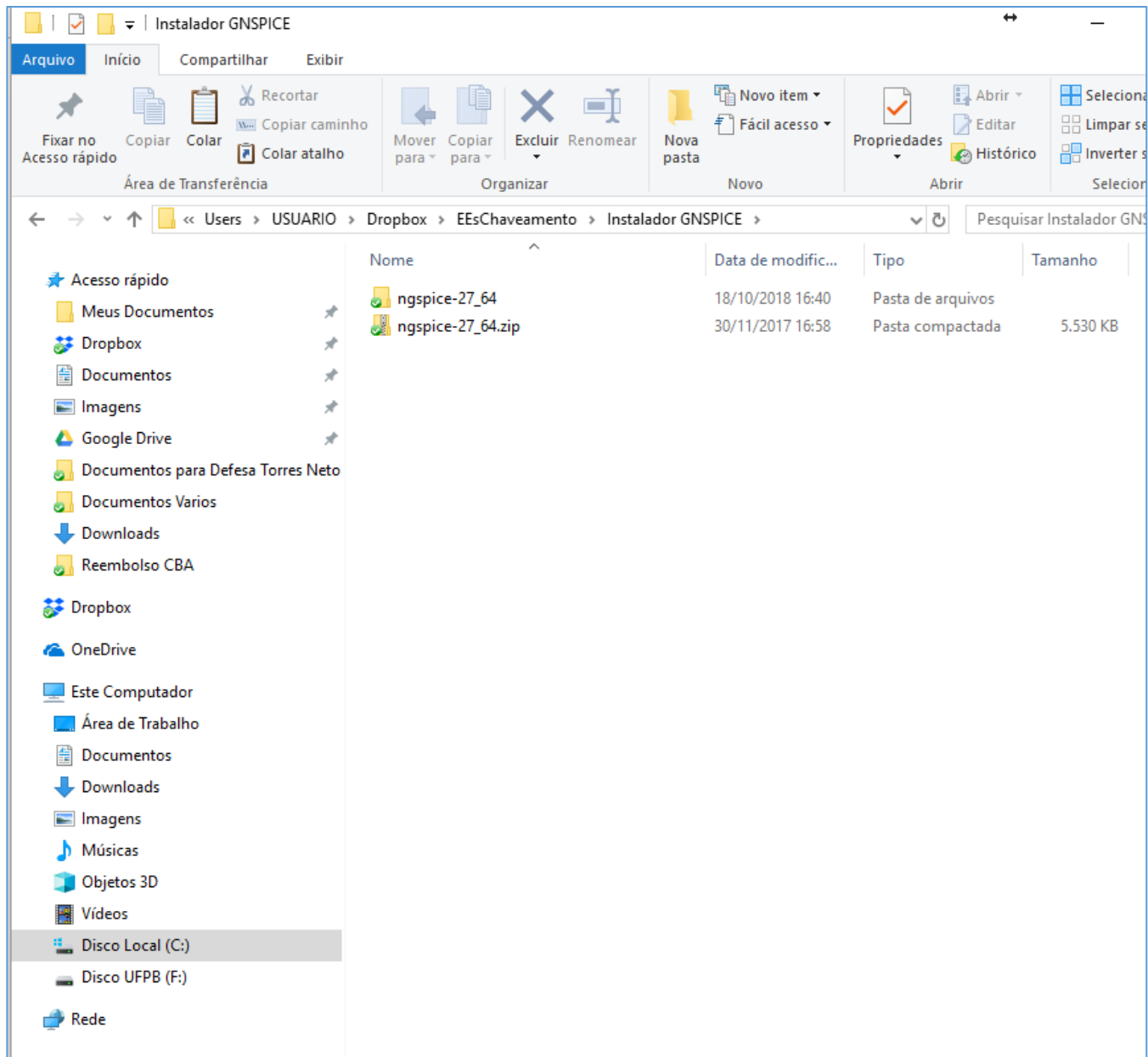
If you are on macOS, [ngspice-30.pkg](#) is your friend.

For Linux we do not offer pre-compiled packages. You may either resort to your Linux distributor and use their installation manager for a pre-compiled package. Some are listed [here](#). However these may not yet contain the current release version. So you might want to compile ngspice by yourself. Then download and extract the sources from the [ngspice-30 tarball](#). Please see file INSTALL or the [ngspice manual](#) (chapt. 32) for instructions on compilation and installation of ngspice.

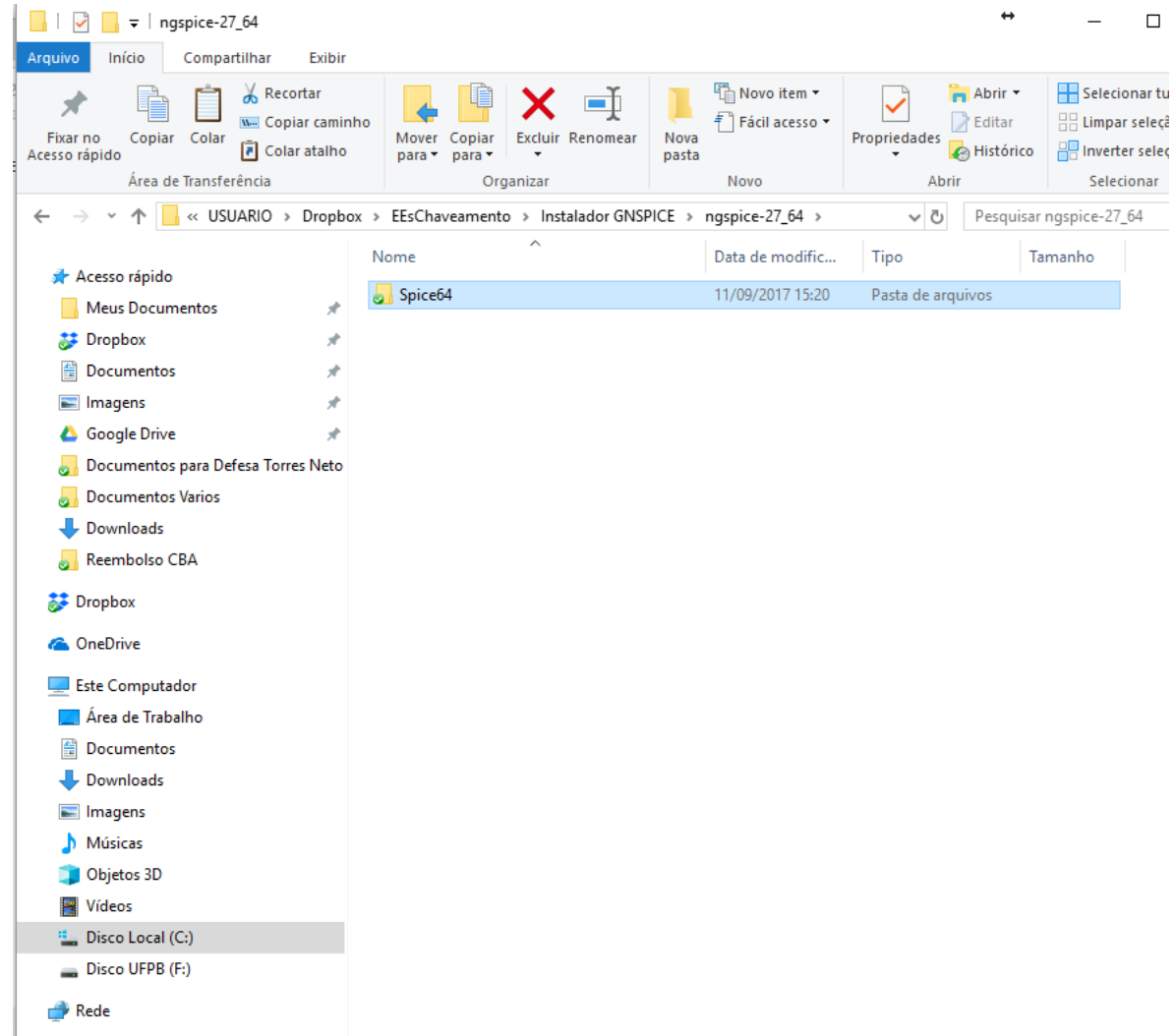
If you are interested in the [ngspice nightly](#) for MS Windows or other development or ngspice experimental versions, please read on!

**Ngspice download via browser or snapshot (code under development)**

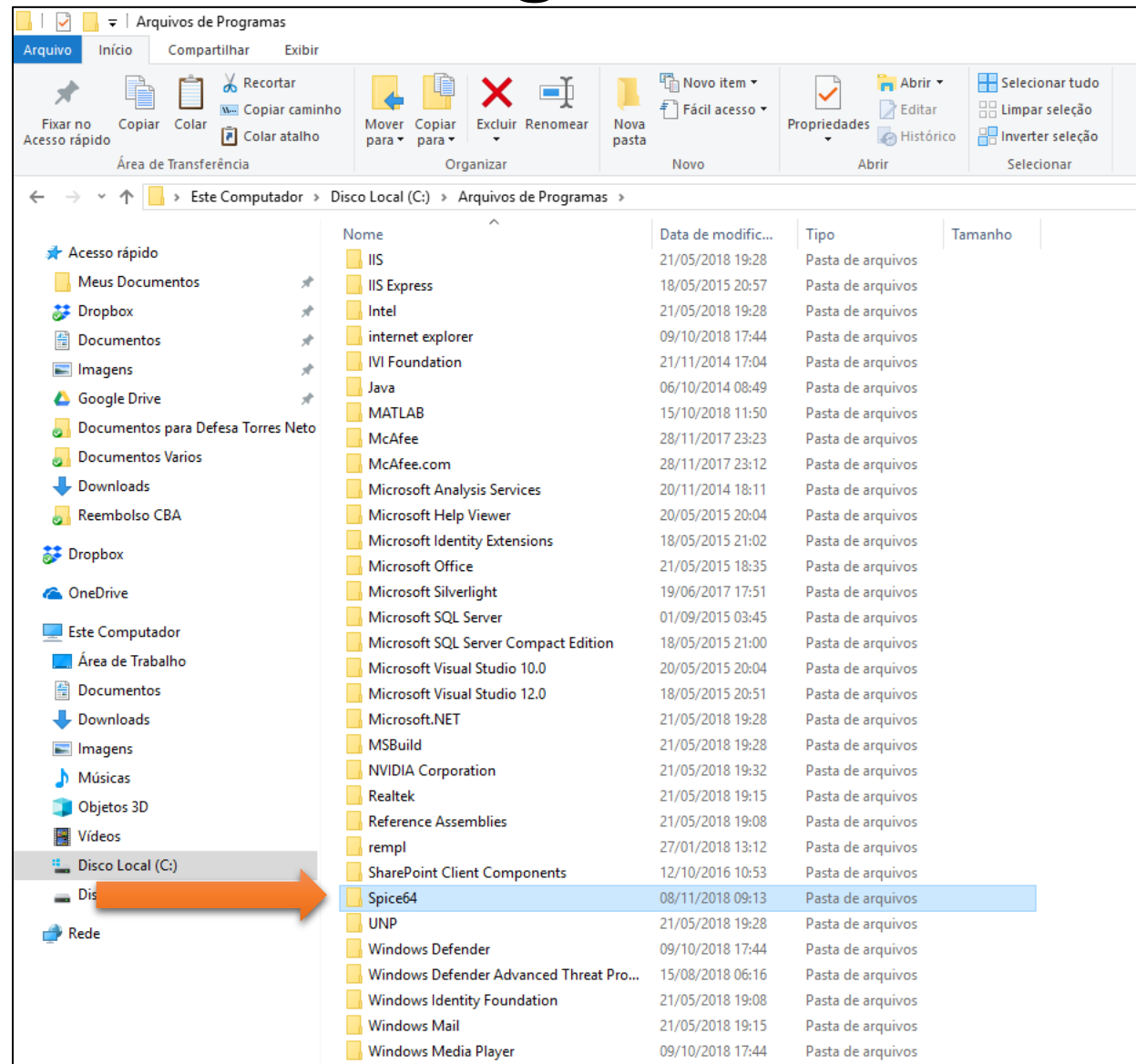
- [ngspice tree view of master branch](#): This is the master branch of the code actually under development. It contains the most recent features and has already got lots of testing. Use this link to access the individual source code files via your browser. Select 'Download Snapshot' from this page to download the complete and actual master branch source code. Check one of the 'Branches' buttons (or 'More Branches' to display all branches) to switch to another branch and then again use 'Download Snapshot'. Another development branch example is given in the next bullet point.
- [ngspice tree view of branch pre-master](#): This is the current development branch with very recent source code additions. After testing they may make it into the master branch and the next stable release. Use this link to access the source code files via your browser or download the complete snapshot by 'Download snapshot'.



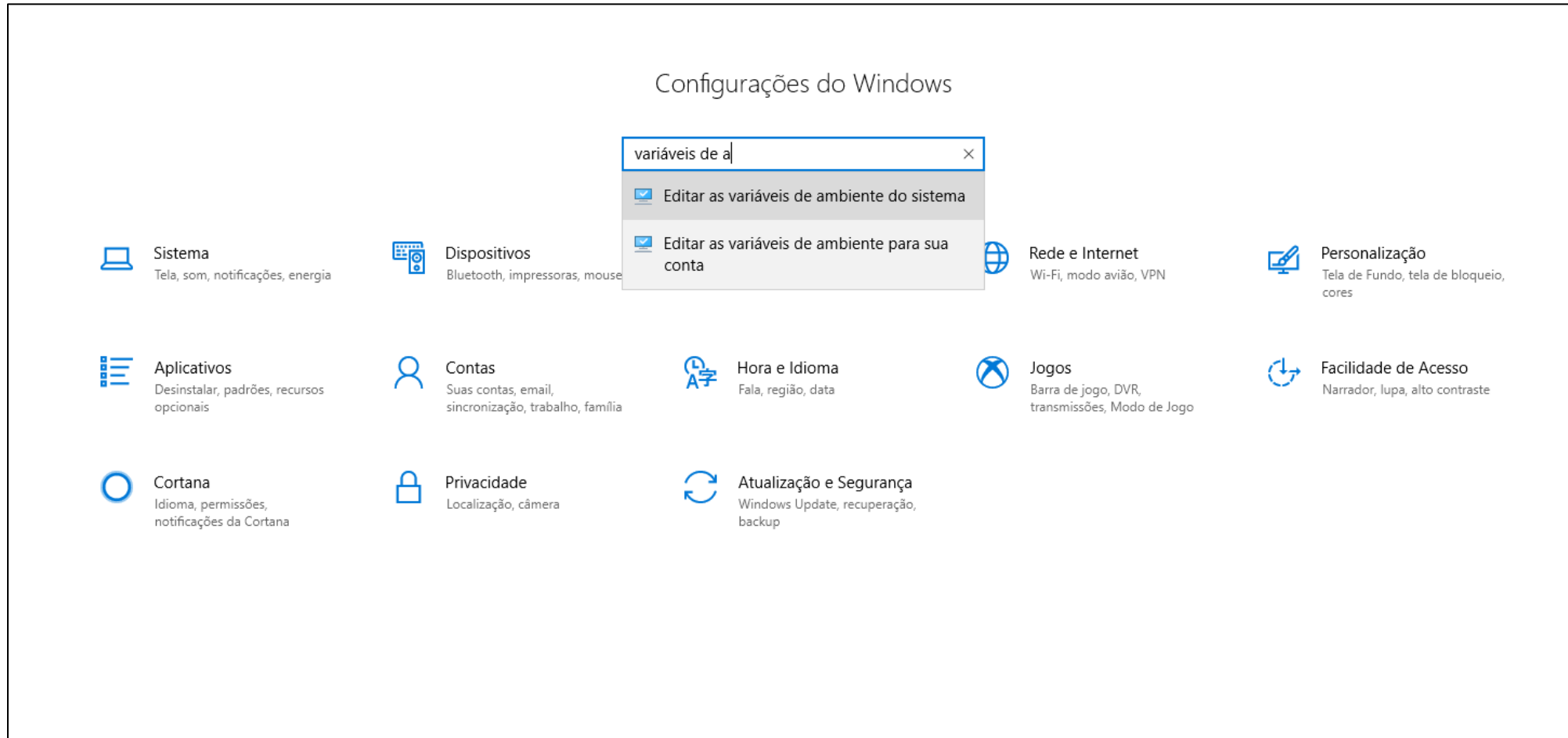
# Copiar a pasta Spice64 e Colar em →



# ... Em Arquivos de Programas



# Criar Variáveis de Ambiente do Sistema



Variáveis de Ambiente

Variáveis de usuário para USUARIO

Variável	Valor
OneDrive	C:\Users\USUARIO\OneDrive
Path	C:\Users\USUARIO\AppData\Local\Microsoft\WindowsApps;C:\Program Files\Spice64\bin;
TEMP	C:\Users\USUARIO\AppData\Local\Temp
TMP	C:\Users\USUARIO\AppData\Local\Temp

Novo... Editar... Excluir

Variáveis do sistema

Variável	Valor
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
FP_NO_HOST_CHECK	NO
VIROOTDIR32	C:\Program Files (x86)\IVI Foundation\IVI\
VIROOTDIR64	C:\Program Files\IVI Foundation\IVI\
NUMBER_OF_PROCESSORS	8
OS	Windows NT

Novo... Editar... Excluir

OK Cancelar

Editar a variável de ambiente

%USERPROFILE%\AppData\Local\Microsoft\WindowsApps	Novo
C:\Program Files\Spice64\bin	Editar
	Procurar...
	Excluir
	Mover para Cima
	Mover para baixo
	Editar texto...

OK Cancelar

# Executando em MATLAB

The screenshot displays the MATLAB R2018a environment. The left pane shows the 'Current Folder' with a list of files, including 'saidaJUAN10.out'. The 'Command Window' shows the result of a command: 'ans = 0'. The 'Editor' pane shows the following MATLAB code:

```
1 - clc
2 - close all
3 - clear
4
5 - %system('..\PSEXEC.exe cirBJTAG.cir saidaBJT.out');
6
7 - system('ngspice -b Schematic6.net -o saidaJUAN10.out')
8
9 - %system('ngspice -b Schematic6.net -o saidaJUAN10.out')
10
11
```

Two orange arrows point to the file paths in lines 5 and 9, specifically to 'cirBJTAG.cir' and 'Schematic6.net'.

Arquivo que representa  
o circuito eletrônico

Arquivo de saídas com  
Tensões e Correntes  
nos Nós de interesse



# Arquivo de Saída:

```
Editor - C:\Users\USUARIO\Dropbox\EEsChaveamento\saidaJUAN10.out
EDITOR VIEW
+ New Open Save Find Files Compare Print Go To Find Comment Indent Breakpoints
FILE NAVIGATE EDIT BREAKPOINTS
principalPIBICmod.m principalEschaveamento.m principal_com_verificacao.m saidaJUAN10.out
1 Note: can't find init file.
2
3 Circuit: * schematics netlist *
4
5 Doing analysis at TEMP = 27.000000 and TNOM = 27.000000
6
7
8 Initial Transient Solution
9 -----
10
11 Node Voltage
12 ----
13 1 15
14 2 5
15 v1#branch -0.01
16
17
18
19 No. of Data Rows : 10008
20 * schematics netlist *
21 Transient Analysis Thu Nov 8 09:20:59 2018
22 -----
23 Index time v(2)
24 -----
25 0 0.000000e+00 5.000000e+00
26 1 1.000000e-06 5.000000e+00
27 2 2.000000e-06 5.000000e+00
28 3 4.000000e-06 5.000000e+00
29 4 8.000000e-06 5.000000e+00
30 5 1.600000e-05 5.000000e+00
31 6 3.200000e-05 5.000000e+00
32 7 6.400000e-05 5.000000e+00
33 8 1.280000e-04 5.000000e+00
```