

## INSTALLING SPIN MODEL CHECKER ON WINDOWS

**Step 1.** Download and extract the distribution from

<http://spinroot.com/spin/Src/index.html>

Current Version 6.4.9 (17 December 2018):

Starting in January 2019, the most recent version of the Spin source distribution is maintained on <https://github.com/nimble-code/Spin>.

The github distribution includes all recent updates and bug-fixes, also in between main releases. The github version is therefore typically more current than the tar-ball archives below. But, in case you don't like github, the code for the last standard release is also below:

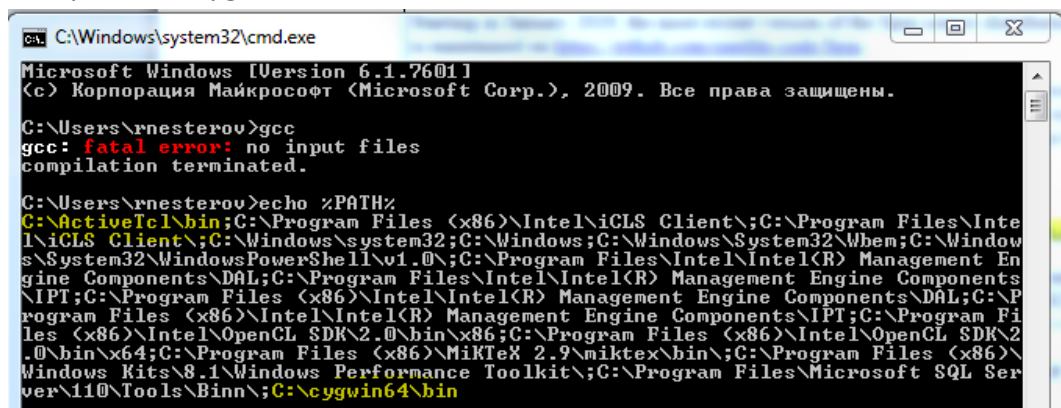
- Full distribution, with sources: [spin649.tar.gz](#) (519k)
- C Sources only: [src649.tar.gz](#) (296k)
- Windows PC executable, iSpin, and documentation, but no sources: [pc\\_spin649.zip](#) (478K)
- GUIs:
  - ispin Version 1.1.4 (Tcl/Tk GUI for Spin Version 6): [ispin.tcl](#), source (225k)
  - jSpin (Java GUI for Spin, by Moti Ben-Ari: [jSpin](#) with source (625k)

**Step 2.** Spin uses GCC compiler to compile and execute models for verification. You need to install the related software

(see <http://spinroot.com/spin/Man/README.html#S1b> and

<http://spinroot.com/spin/Man/README.html#S3> for more details).

- Install Cygwin from <https://cygwin.com/install.html>. Follow the installer instructions. Note that you should install *only 32-bit* version of Cygwin even if you have a 64-bit computer.
- (*Important!*) Check that paths to ActiveTcl (C:\ActiveTcl\bin) and to GCC compiler (C:\cygwin64\bin) are in *PATH* variable:



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
(c) Корпорация Майкрософт (Microsoft Corp.), 2009. Все права защищены.

C:\Users\rnesterov>gcc
gcc: fatal error: no input files
compilation terminated.

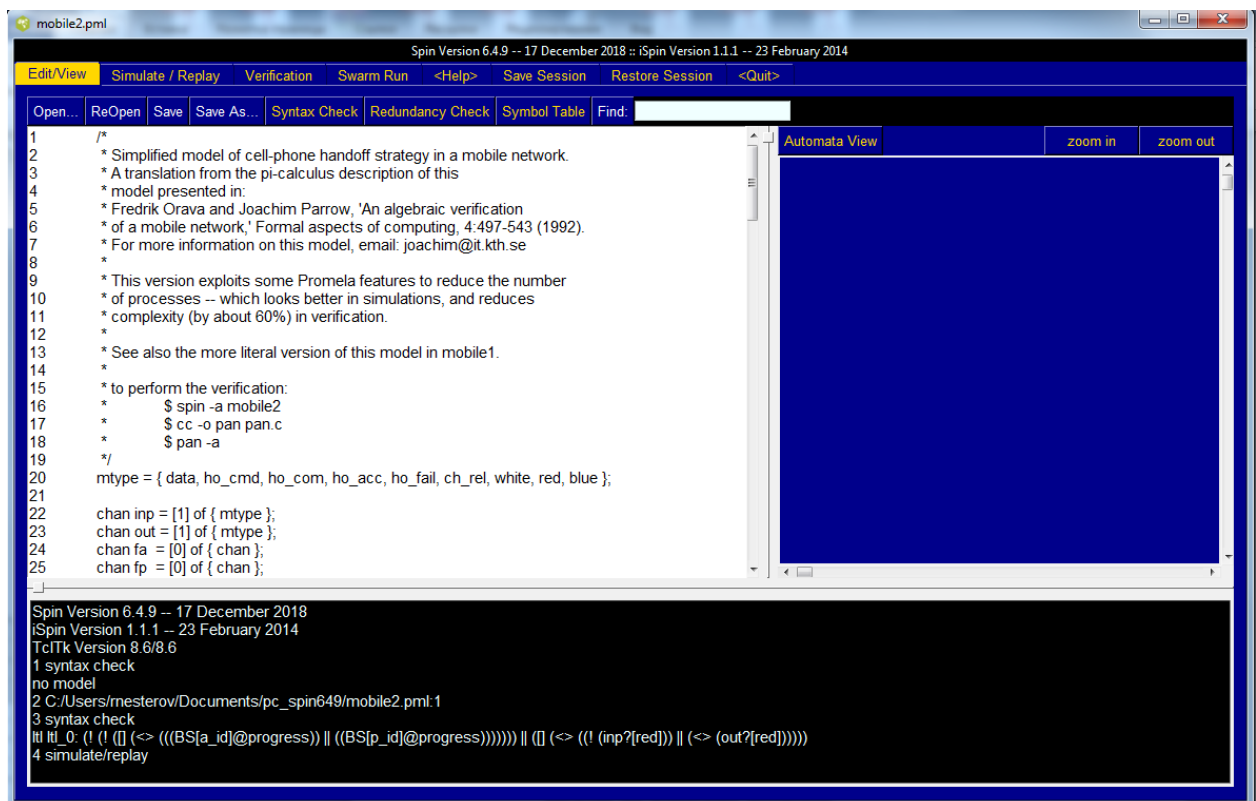
C:\Users\rnesterov>echo %PATH%
C:\ActiveTcl\bin;C:\Program Files (x86)\Intel\iCLS Client\;C:\Program Files\Intel\iCLS Client\;C:\Windows\system32;C:\Windows;C:\Windows\System32\Wbem;C:\Windows\System32\WindowsPowerShell\v1.0\;C:\Program Files\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files\Intel\Intel(R) Management Engine Components\IPT;C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\DAL;C:\Program Files (x86)\Intel\Intel(R) Management Engine Components\IPT;C:\Program Files (x86)\Intel\OpenCL SDK\2.0\bin\x86;C:\Program Files (x86)\Intel\OpenCL SDK\2.0\bin\x64;C:\Program Files (x86)\MikTeX 2.9\miktex\bin\;C:\Program Files (x86)\Windows Kits\8.1\Windows Performance Toolkit\;C:\Program Files\Microsoft SQL Server\110\Tools\Binn\;C:\cygwin64\bin
```

If you have any problems with setting the value of *PATH* variable, you can manually add them via advanced properties of your computer (see, for instance, this instruction

<https://www.computerhope.com/issues/ch000549.htm>)

**Step 3.** Spin may be used via a command-line interface. However, there exists a GUI named iSpin.

- Corresponding file “**ispin.tcl**” is located in the directory where you have extracted the downloaded distribution.
- To launch “**ispin.tcl**” you need ActiveTcl/Tk to be installed. It must be installed once you finish with Step 2.
- Try to open an example model (any \*.pml) from a directory where you have extracted the spin (at Step 1) and do a syntax check. If no error messages are shown, installation is completed correctly.



## INSTALLING SPIN MODEL CHECKER ON MAC OS

**Step 1.** Download the Spin distribution from

<http://spinroot.com/spin/Src/index.html>

**Current Version 6.4.9 (17 December 2018):**

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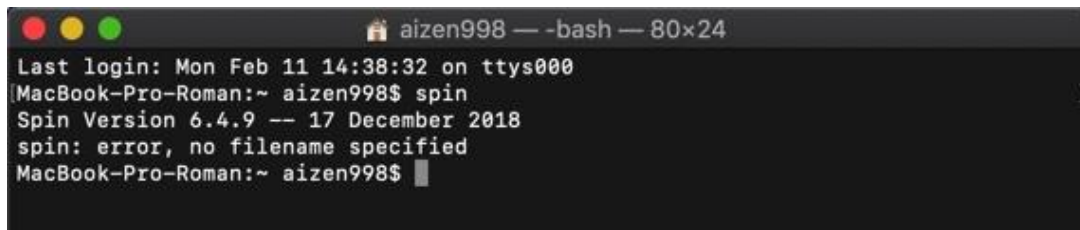
The github distribution includes all recent updates and bug-fixes, also in between main releases. The github version is therefore typically more current than the tar-ball archives below. But, in case you don't like github, the code for the last standard release is also below:

- Full distribution, with sources: [spin649.tar.gz](#) (519k)
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- GUIs:
  - ispin Version 1.1.4 (Tcl/Tk GUI for Spin Version 6): [ispin.tcl](#), source (225k)
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**Step 2.** Install *Command Line tools*, in case you don't have them installed.

**Step 3.** Compile and install Spin as given by instructions

<http://spinroot.com/spin/Man/README.html#S1a>. Spin can also be used via Command Line Interface. Check that spin is installed by typing "spin" in Terminal:



```
aizen998 — -bash — 80x24
Last login: Mon Feb 11 14:38:32 on ttys000
MacBook-Pro-Roman:~ aizen998$ spin
Spin Version 6.4.9 -- 17 December 2018
spin: error, no filename specified
MacBook-Pro-Roman:~ aizen998$
```

**Step 4.** Install ActiveTcl for Mac OS (necessary to run GUI ispin.tcl)

<https://www.activestate.com/products/activetcl/downloads/>

**Step 5.** Using Terminal run *ispin* by typing the command “wish ispin.tcl”, where the file “ispin.tcl” is located. Try opening an example model and doing syntax check.

