

CSCI 234

Design of Internet Protocols:
Spin
George Blankenship

Spin George Blankenship 1

Outline

- Installation
- Testing spin

Spin George Blankenship 2

Cygwin


- ✓ cygwin
- spin
- xspin
- jSpin
- example

- Linux environment for Windows
 - DLL supplying Linux API
 - Linux toolset
 - Linux applications must be “ported” to Cygwin
- Installation
 - <http://www.cygwin.com/>
 - setup.exe download and execution

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cygwin Web Site

- ✓ cygwin
- spin
- xspin
- jspin
- example



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Cygwin Installation

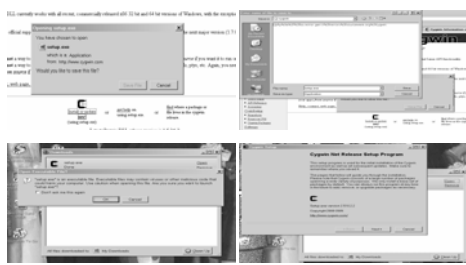
- ✓ cygwin
- spin
- xspin
- jspin
- example

- Setup application
 - Specify installation type
 - Specify tools to be installed
 - Used to perform either installation or installation update
- Tools required by spin, Xspin and JSpin
 - Gcc
 - Tcl/Tk (for Xspin)
 - Java (for JSpin)

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Download & Install

- ✓ cygwin
- spin
- xspin
- jspin
- example



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Installation

- ✓ cygwin
- spin
- xspin
- jSpin
- example

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Installation

- ✓ cygwin
- spin
- xspin
- jSpin
- example

Spin
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Starting cygwin

- ✓ cygwin
- spin
- xspin
- jSpin
- example

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spin


- ✓ Cygwin
- ✓ spin
- ✓ xspin
- jSpin
- example

- "Spin is a popular open-source software tool, used by thousands of people worldwide, that can be used for the formal verification of distributed software systems. The tool was developed at Bell Labs in the original Unix group of the Computing Sciences Research Center, starting in 1980. The software has been available freely since 1991, and continues to evolve to keep pace with new developments in the field. In April 2002 the tool was awarded the prestigious System Software Award for 2001 by the ACM. Stuff to be discussed"
- Installation
 - <http://spinroot.com/spin/whatispin.html>
 - Download and install
 - Windows uses cygwin (c:/cygwin/bin/)

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Download

- ✓ Cygwin
- ✓ spin
- ✓ xspin
- jSpin
- example




The screenshot shows the Spin website with sections for '1. Installing Spin' and 'Spin: Versions'. The 'Spin: Versions' section lists several versions with their release dates and download links. Below the text, there are two screenshots: one of a file download dialog box and another of a file explorer window showing the downloaded files.

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Installation

- ✓ Cygwin
- ✓ spin
- ✓ xspin
- jSpin
- example

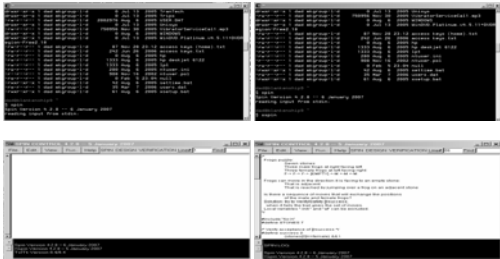


The screenshot shows the Spin installation process on a Windows PC. It includes a 'Installing Spin' dialog box with a 'Next' button, a 'Welcome to Spin' window, and a 'Where to Install' dialog box. The 'Where to Install' dialog shows a file explorer view of the C:\ directory with the 'bin' folder selected.

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Execution

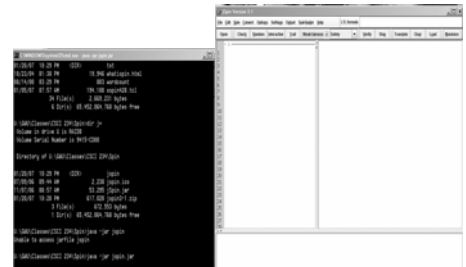
- ✓ Cygwin
- ✓ spin
- ✓ xspin
- jSpin
- example



Spin George Blankenship 13

jSpin

- ✓ Cygwin
- ✓ spin
- ✓ xspin
- ✓ jSpin
- example



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Examples

- ✓ Cygwin
- ✓ spin
- ✓ xspin
- ✓ jSpin
- ✓ example

- Download of spin contains example directory
- (to be discussed later)

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