SPIM simulator

CSE 410, Spring 2004
Computer Systems

http://www.cs.washington.edu/education/courses/410/04sp/

Reading and References

- See the Resources section on the SPIM web page for documentation on SPIM
  » http://www.cs.wisc.edu/~larus/spim.html

SPIM simulator

- SPIM lets you write MIPS assembly language code and run it on a PC
- PCSpim is installed on the machines in the Math Sciences Computing Center
- You can download versions for Windows and all varieties of *nix (including MacOS X) from the web site
  » http://www.cs.wisc.edu/~larus/spim.html

Spim display

- Register panel
  » register names and numbers
- Text segment panel
  » note jump and link to “main” at [0x00400014]
  » your code defines the label “main”
- Data and Stack segment panel
- Message panel
Context editor

- You can use any text editor you like to write the source code
- Context editor provided in MSCC
  » it has a highlighter for MIPS assembly language
  » it doesn’t try to be a word processor

```
hello.s

.data
str: .asciiz "Hello World\n"

.text
main:
  li $v0,4 # print_string code
  la $a0,str # addr(str)
  syscall # print it
  jr $ra # return
```