

George,

Sorry, for the slow reply...

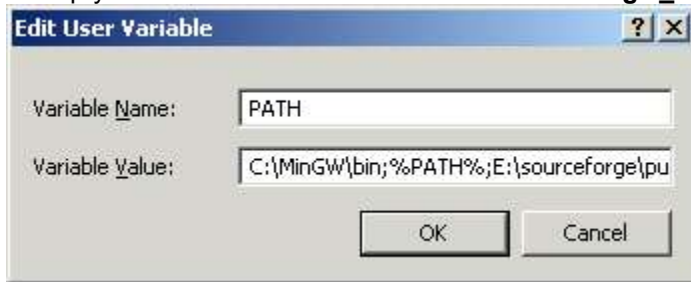
Here are **4** simple steps:

**step 1:** download/install mingw

**<http://prdownloads.sf.net/mingw/MinGW-3.1.0-1.exe?download>**

simple install using wizard. Write down the home directory it was install at.

Set-up your Windows Environment Path to see **mingw\_home/bin**.



**step 2:** download & install MSys.exe

**<http://prdownloads.sourceforge.net/mingw/MSYS-1.0.10.exe?download>**

When you are close to finishing the program it asks for info  
(Screen Shot below)

```
C:\WINNT\system32\cmd.exe

C:\Program Files\msys\1.0\postinstall\PATH ..\bin;e:\cpp\;e:\cygwin\bin;C:\Perl\bin\;C:\WINNT\system32\
;C:\WINNT;C:\WINNT\System32\Wbem;C:\Program Files\CVS for NT;c:\bats;.;%PATH%;E:\sourceforge\putty.exe;E:\sourc
eforge\ssh;E:\sourceforge\ssh

C:\Program Files\msys\1.0\postinstall>.\bin\sh.exe pi.sh

This is a post install process that will try to normalize between
your MinGW install if any as well as your previous MSYS installs
if any. I don't have any traps as aborts will not hurt anything.
Do you wish to continue with the post install? [yn] y

Do you have MinGW installed? [yn] y

Please answer the following in the form of c:/foo/bar.
Where is your MinGW installation? C:\MinGW

Creating /etc/fstab with mingw mount bindings.
Normalizing your MSYS environment.

You have script /bin/awk
You have script /bin/cmd
You have script /bin/echo
You have script /bin/egrep
You have script /bin/ex
You have script /bin/fgrep
You have script /bin/printf
You have script /bin/pwd
You have script /bin/rvi
You have script /bin/rview
You have script /bin/rvim
You have script /bin/vi
You have script /bin/view

Oh joy, you do not have C:\MinGW\bin\make.exe. Keep it that way.

C:\Program Files\msys\1.0\postinstall>pause
Press any key to continue . . .
```

### Step 3: Modify the Makefile

I will send you my Makefile and you can modify it slightly.

Lines that I changed:

```
line 19 TARGET_ALIAS = mingw32
line 20 #WIN32_DIR = $(HOME)/.cxoffice/dotwine/fake_windows
line 21 JAVA_HOME = c:/opt/local/jdk/jdk1.5.0
line 22 XCOMPILE_DIR = c:/MinGW/

line 25 AS = $(XCOMPILE_DIR)/bin/as
line 26 DLLWRAP = $(XCOMPILE_DIR)/bin/dllwrap

line 36 $(DLLWRAP) $(DLLWRAP_FLAGS) -o $@ $^
```

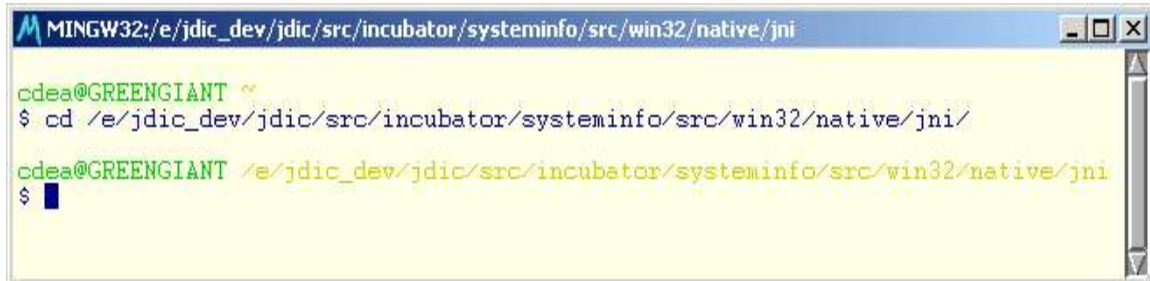
copy file and overwrite John's Makefile:

e.g.: (I cvs mine in e:\jdic\_dev)

E:\jdic\_dev\jdic\src\incubator\systeminfo\src\win32\native\jni

### Step 3: Run The make.exe

Start > Programs > MinGW > msys



```
MINGW32:/e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni

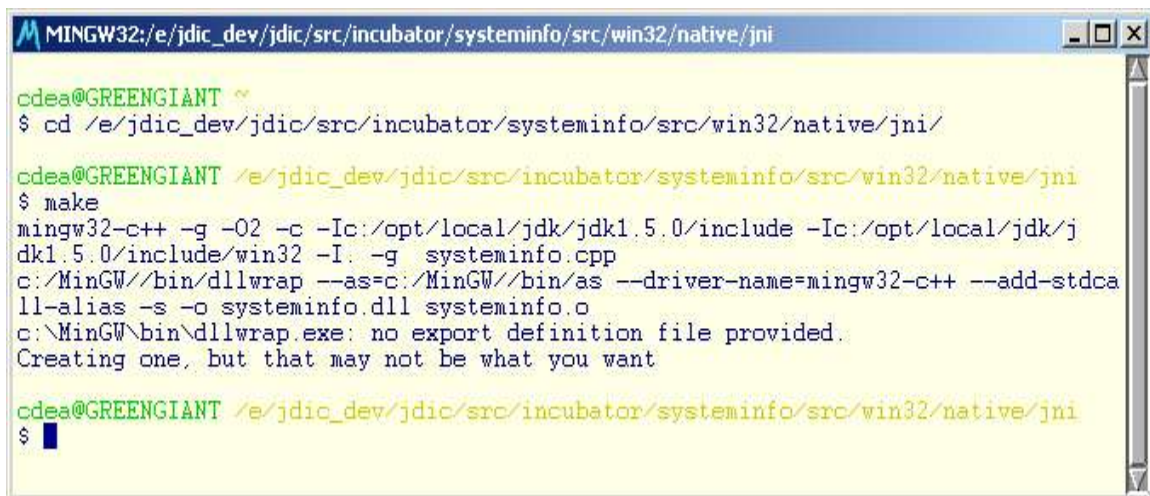
cdea@GREENGIANT ~
$ cd /e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni/

cdea@GREENGIANT /e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni
$
```

Change directory to where you copied the file.

(Use the tab key - just like bash)

type make <enter>



```
MINGW32:/e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni

cdea@GREENGIANT ~
$ cd /e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni/

cdea@GREENGIANT /e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni
$ make
mingw32-c++ -g -O2 -c -Ic:/opt/local/jdk/jdk1.5.0/include -Ic:/opt/local/jdk/j
dk1.5.0/include/win32 -I. -g systeminfo.cpp
c:/MinGW/bin/dllwrap --as=c:/MinGW/bin/as --driver-name=mingw32-c++ --add-stdca
ll-alias -s -o systeminfo.dll systeminfo.o
c:\MinGW\bin\dllwrap.exe: no export definition file provided.
Creating one, but that may not be what you want

cdea@GREENGIANT /e/jdic_dev/jdic/src/incubator/systeminfo/src/win32/native/jni
$
```

dll should be created in the same directory.