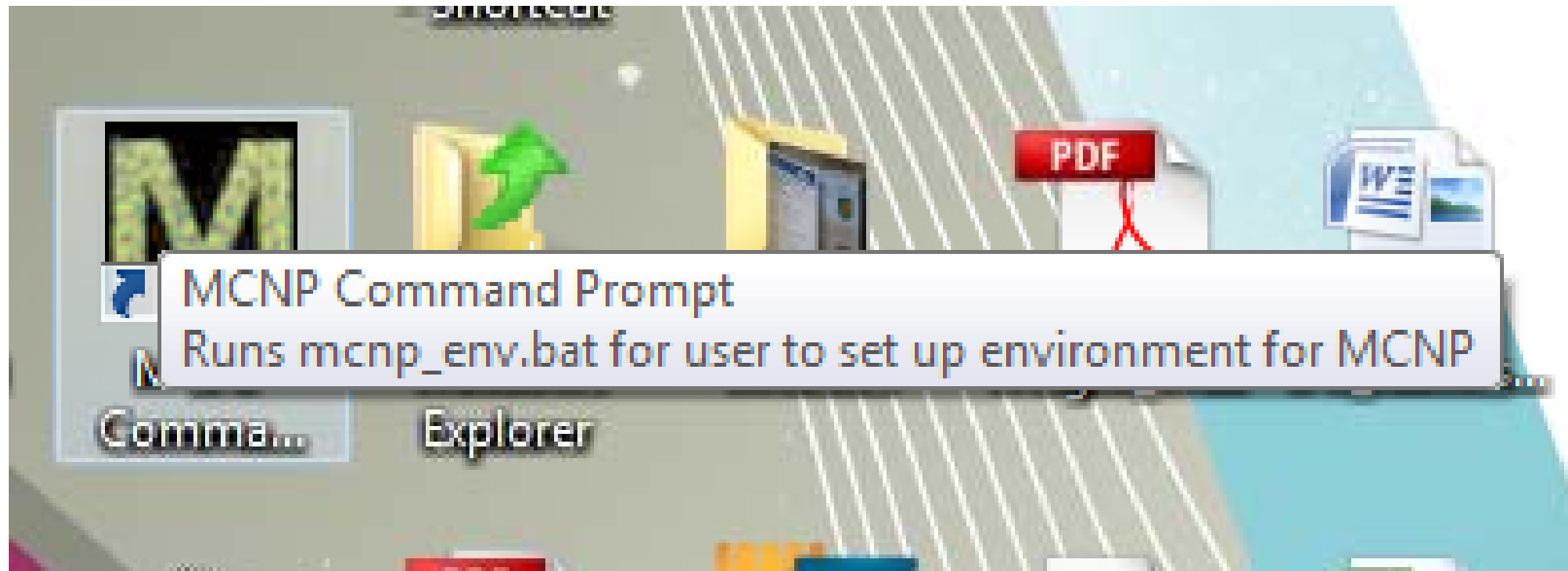# MCNP6 installation

Creates a Command prompt for running MCNP6

Command Prompt Properties
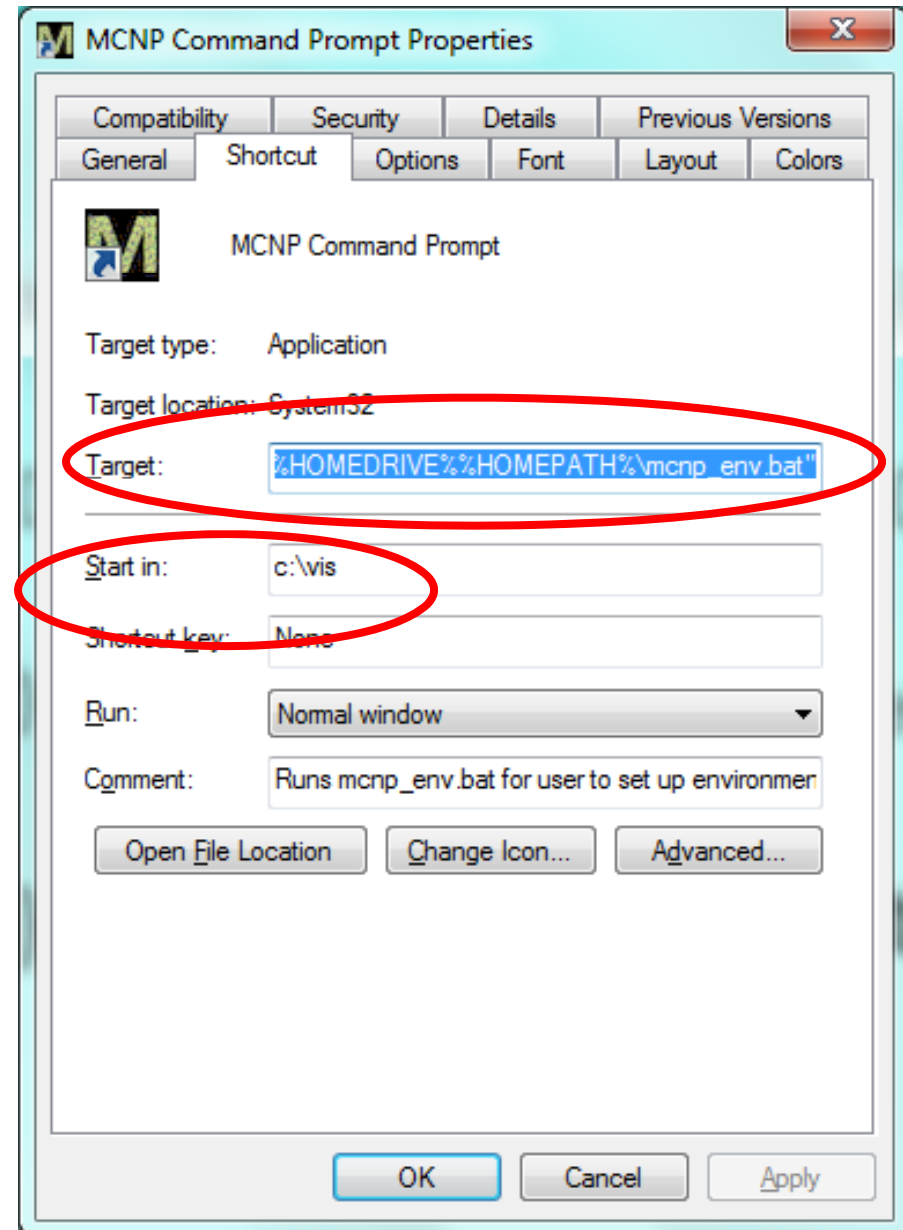
Target:

%HOMEDRIVE%%HOMEPATH%\mcnp_env.bat
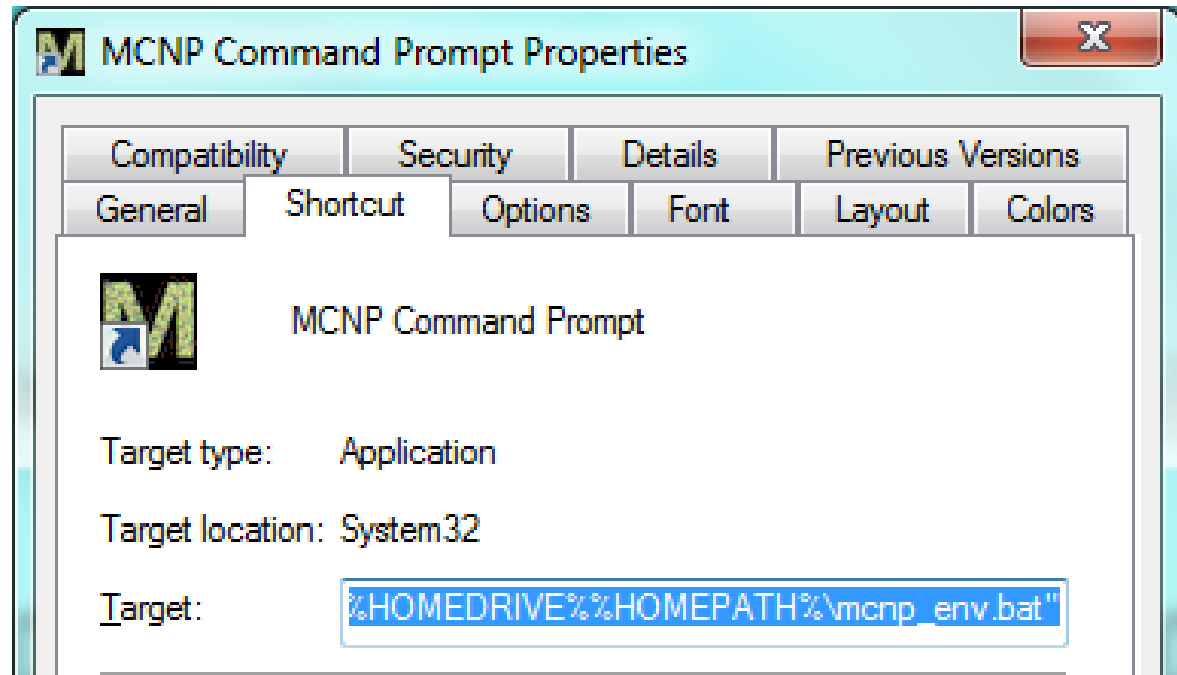
Start in:

Default:

%HOMEDRIVE%%HOMEPATH%

Modified to:

C:\vis

Command Prompt Target

`%HOMEDRIVE% = The disk you installed MCNP6 on.`
`%HOMEPATH% is your log in username.`

NOTE:
Everyone has a different
%HOMEDRIVE%%HOMEPATH%

MCNP installation
mcnp_env.bat

```
@ rem ----- MCNP DOS Autorun batch file
-----
@ rem ----- This file was created by the MCNP Install script.
-----
@ rem ----- to set the DOS Environment Correctly with the DOS CMD Autorun
feature.   -----
@ rem ----- To uninstall simply delete this file.
-----
```

```
@ set MCNPPATH=C:\mcnp6\MCNP_CODE\bin
@ PATH %MCNPPATH%;%PATH%
```
← modifies the path

```
@ set DATAPATH=C:\mcnp6\MCNP_DATA
SET DISPLAY=:0.0
```
←Sets the DATAPATH
←Sets the DISPLAY

You must to use the "M" command
prompt to run the executables and
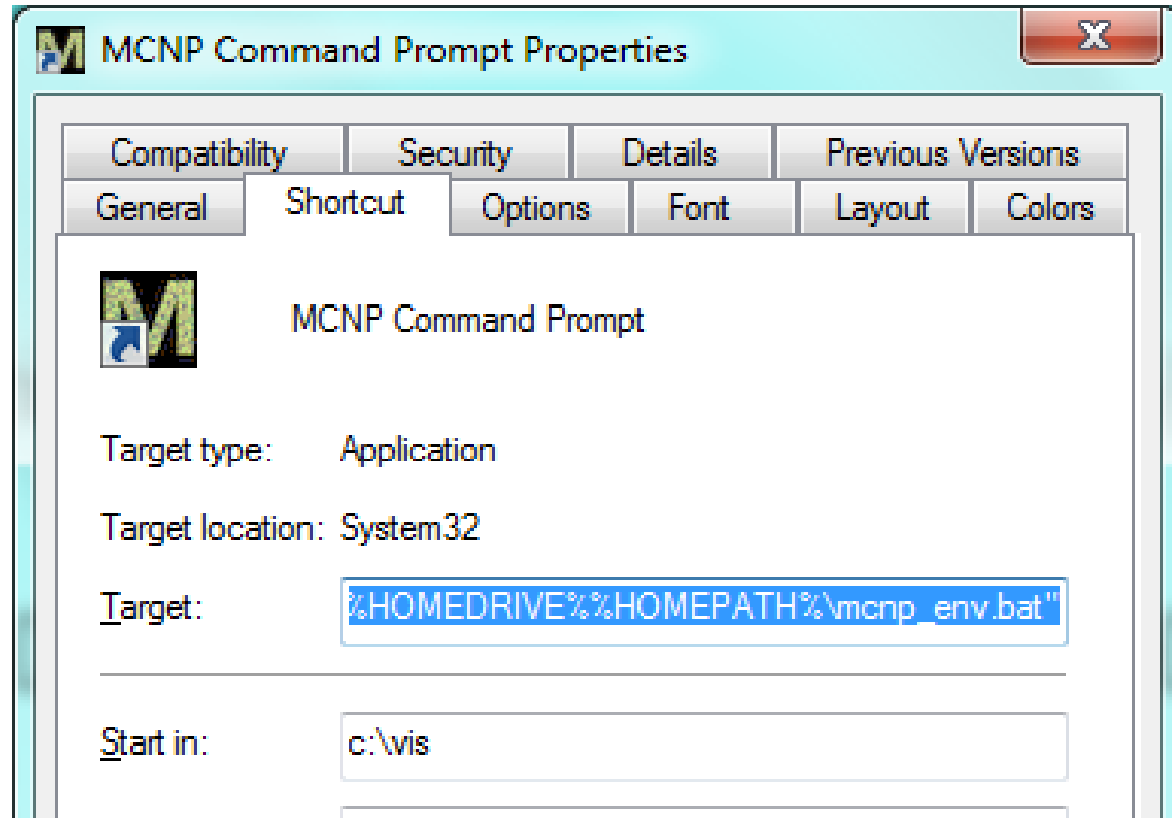access the cross sections.

The "M" command prompt

Everyone has a different
%HOMEDRIVE%%HOMEPATH%

The `mcnp_env.bat` is executed when the "M" command prompt is selected.

- This prevents other users on your computer accessing MCNP, because they need to run in the MCNP6 "M" command prompt created on installation.

- A generic command prompt will not run MCNP6.

- Batch files will not work unless run from the "M" command prompt

- Visual MCNP will no longer be able to find the cross sections.

- If you install on a external drive, it may not work if you move this drive up to a different computer and the Drive letters changes.

- By default, every user will run in a different directory.

Start in directory

The default start in directory is:
%HOMEDRIVE%%HOMEPATH

Change this to a more convenient
location (i.e. C:\MCNP6 or C:\vis).

Change DISPLAY in mcnp_env.bat

```
@ rem ----- MCNP DOS Autorun batch file
-----
@ rem ----- This file was created by the MCNP Install script.
-----
@ rem ----- to set the DOS Environment Correctly with the DOS CMD Autorun
feature.   -----
@ rem ----- To uninstall simply delete this file.
-----
```

```
@ set MCNPPATH=C:\mcnp6\MCNP_CODE\bin
@ PATH %MCNPPATH%;%PATH%

@ set DATAPATH=C:\mcnp6\MCNP_DATA
SET DISPLAY=localhost:0
```

The default display will not work in Windows. Edit the mcnp_env.bat file and modify it by inserting localhost, remove the ".0"
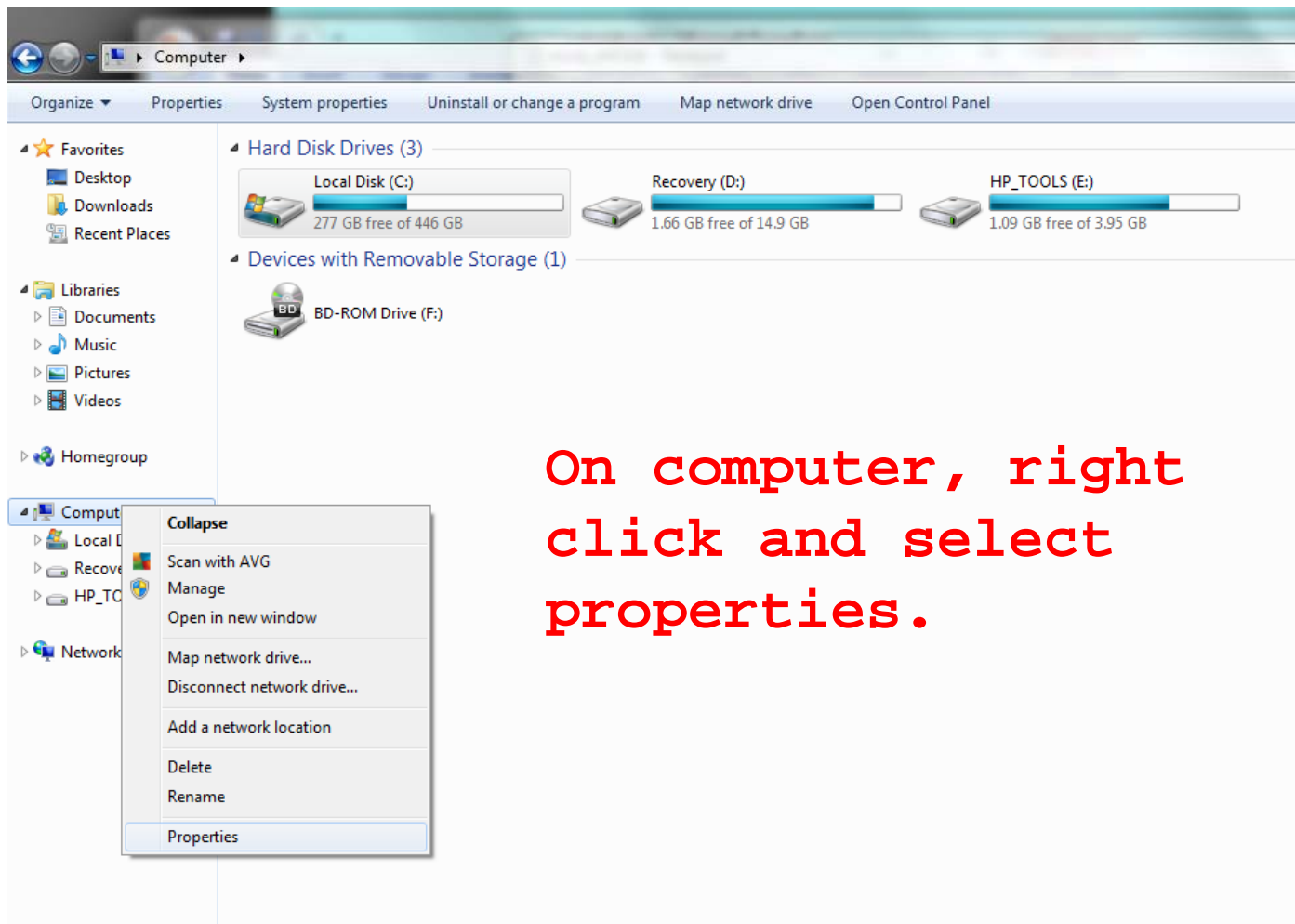
MCNP installation
Visual MCNP6 implications

Visual MCNP does not know about the
MCNP6 command prompt or the
mcnp_env.bat file.

You need to let Visual MCNP6 know the DATAPATH.

The best option is to set the
DATAPATH environment variable for
your computer and optionally the path
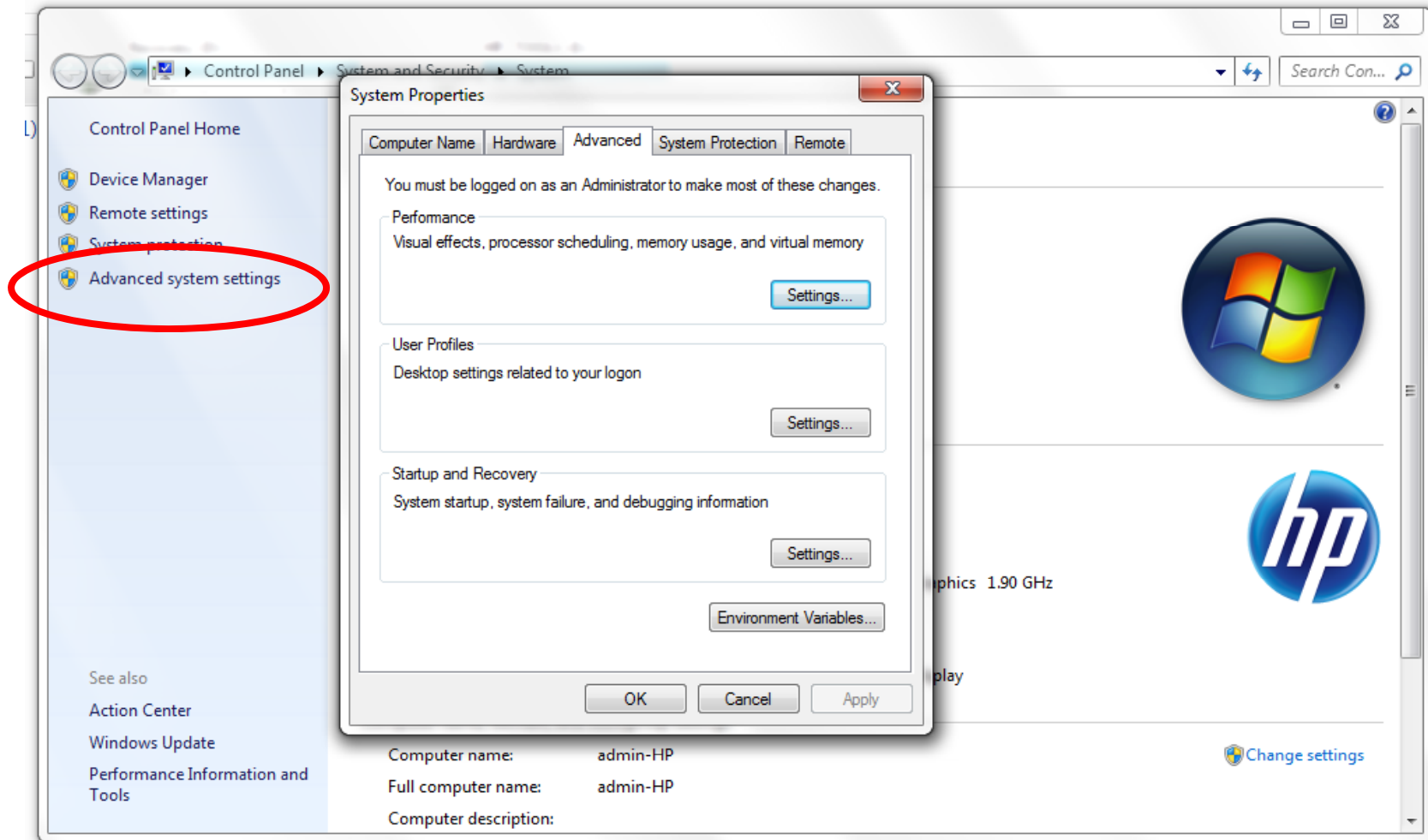for running MCNP6 at a generic
command prompt or in batch files.

Setting the DATAPATH on Windows

On computer, right click and select properties.

Setting the DATAPATH on Windows

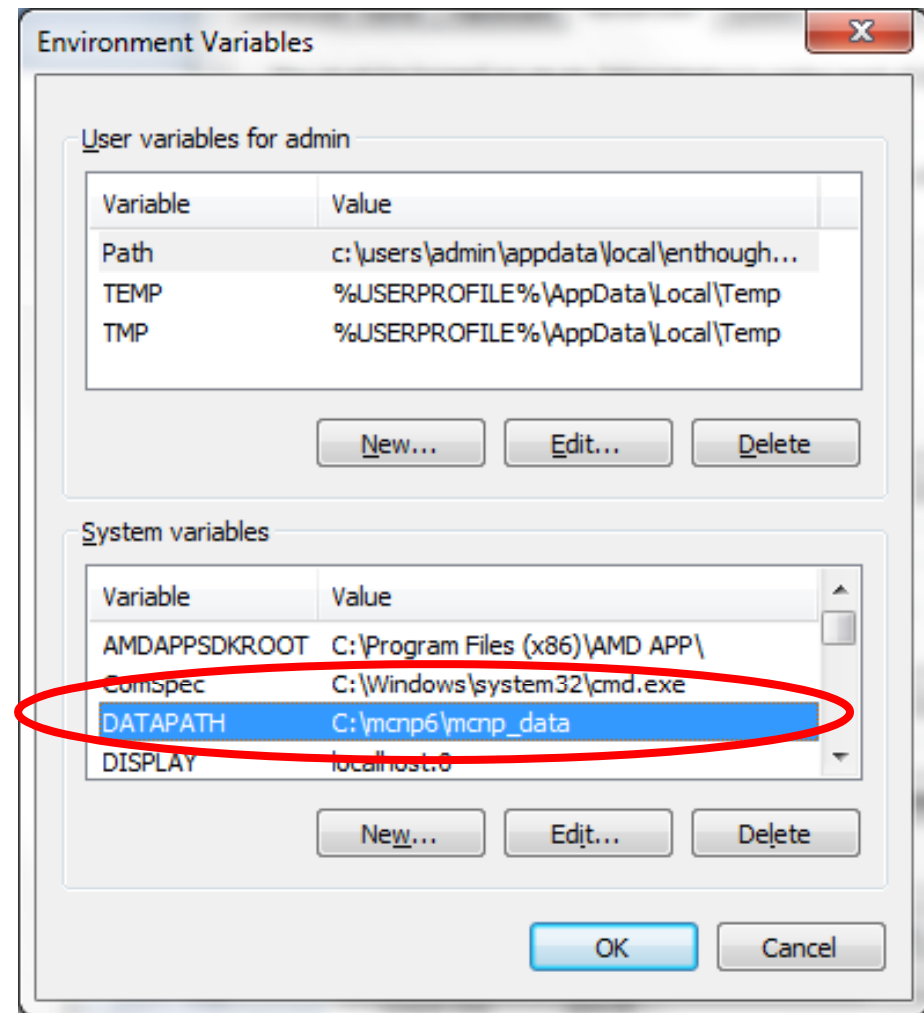**Select:**
Advanced system settings

Setting the DATAPATH on Windows

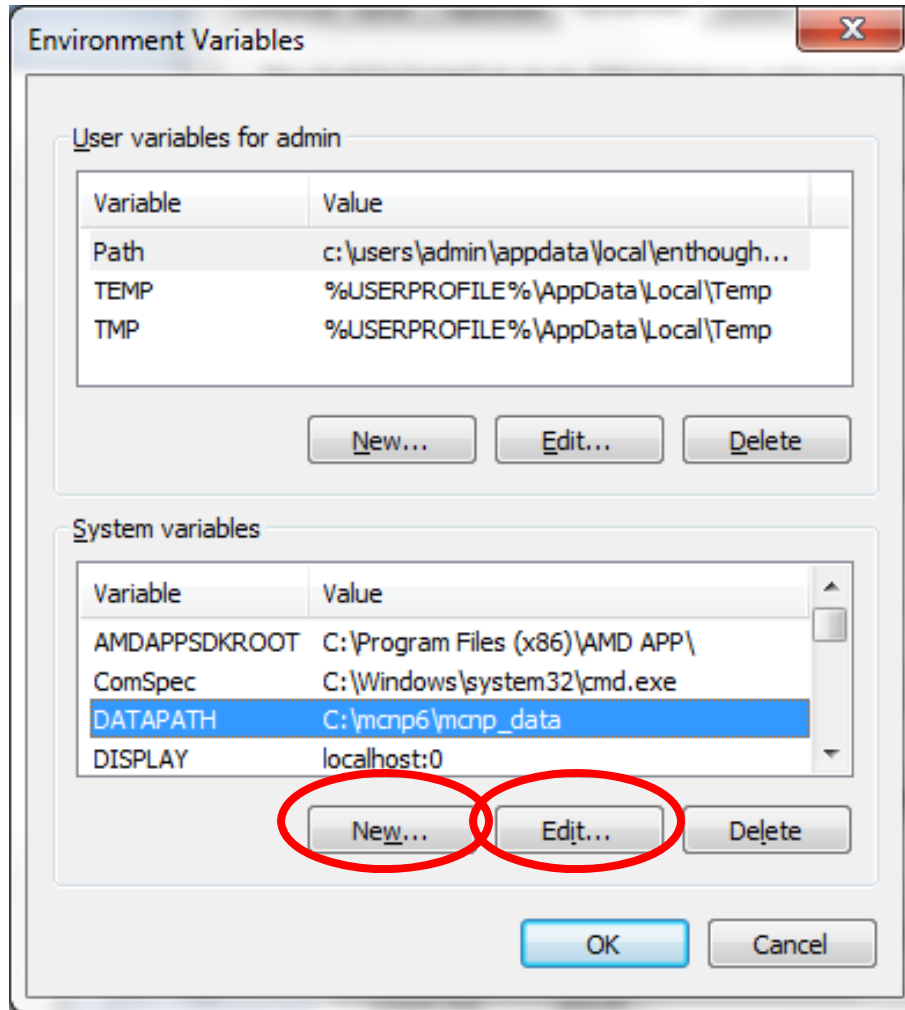**Create/Select the DATAPATH Environment Variable.**

If it does not exist select NEW.

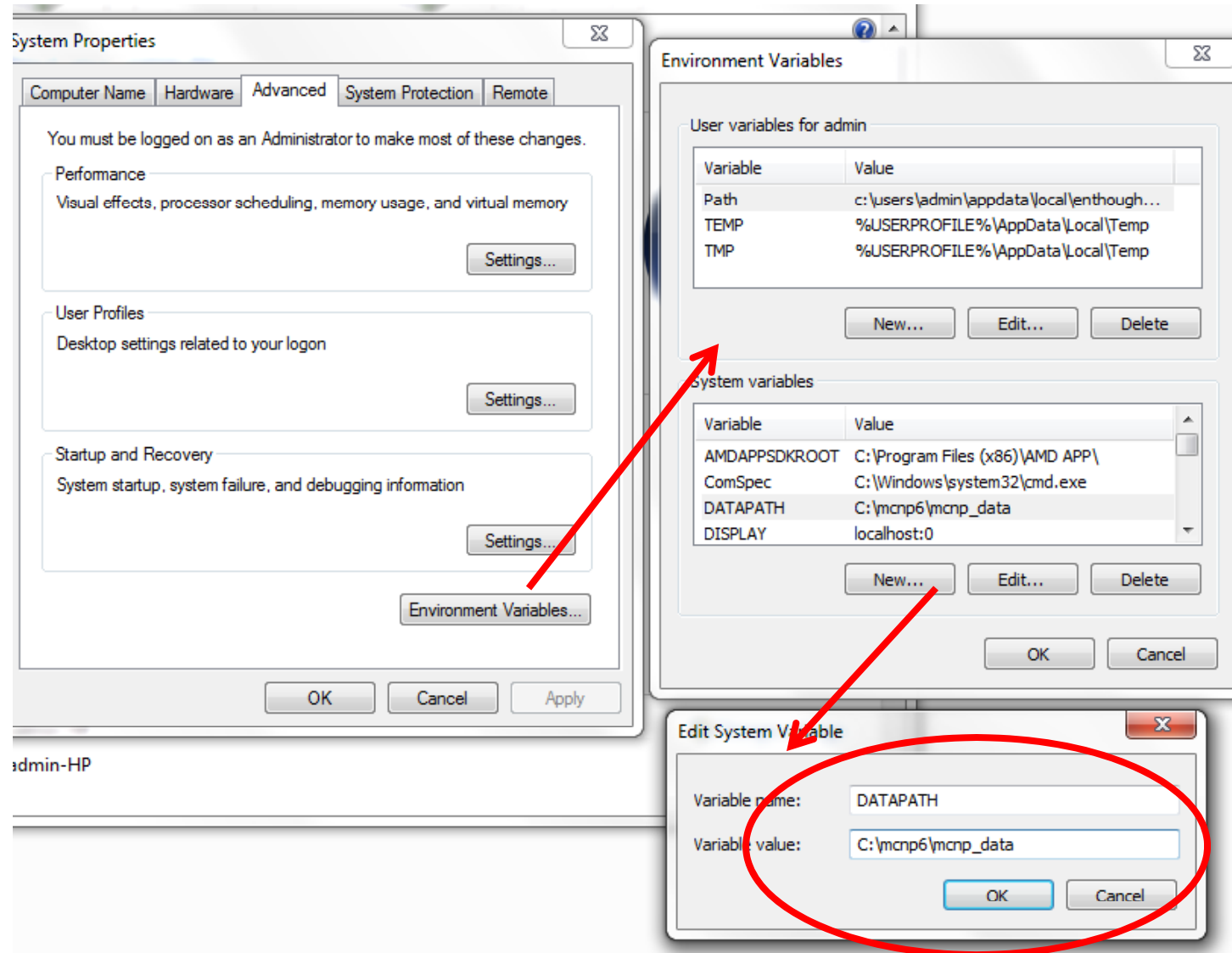**If it does exist select EDIT.**

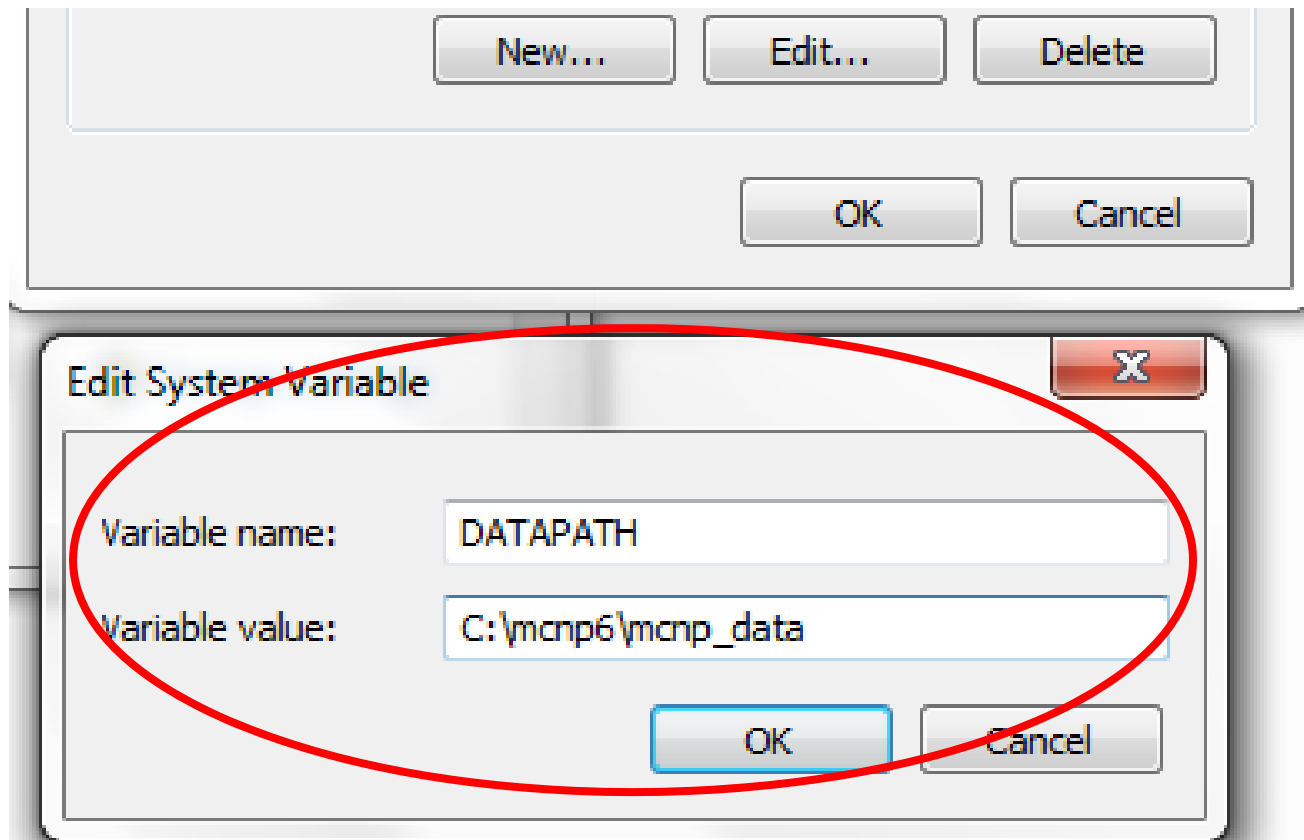# MCNP installation
Setting the DATAPATH on Windows

Edit or create (New) the DATAPATH variable name

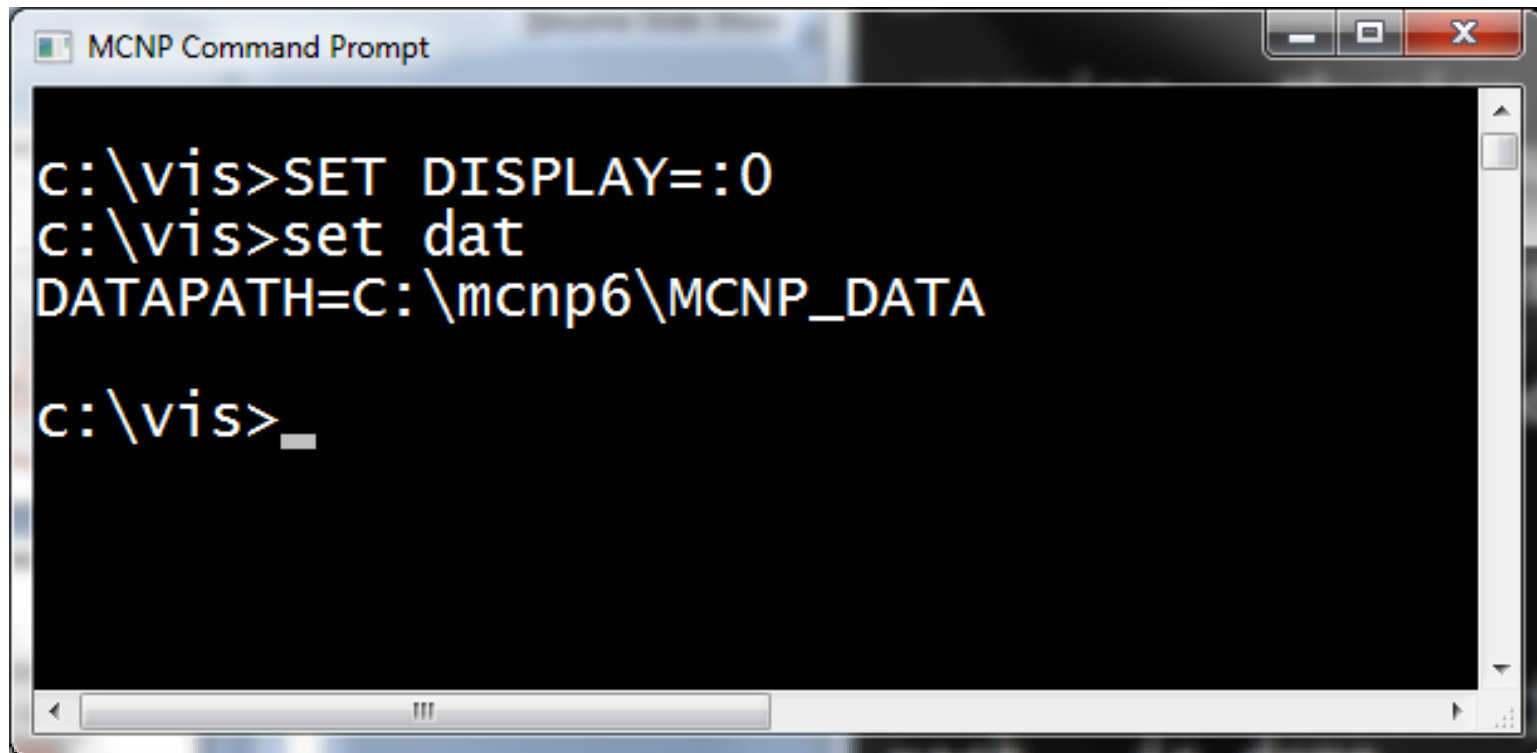# Setting the DATAPATH on Windows

Setting the DATAPATH on Windows

Enter the DATAPATH.
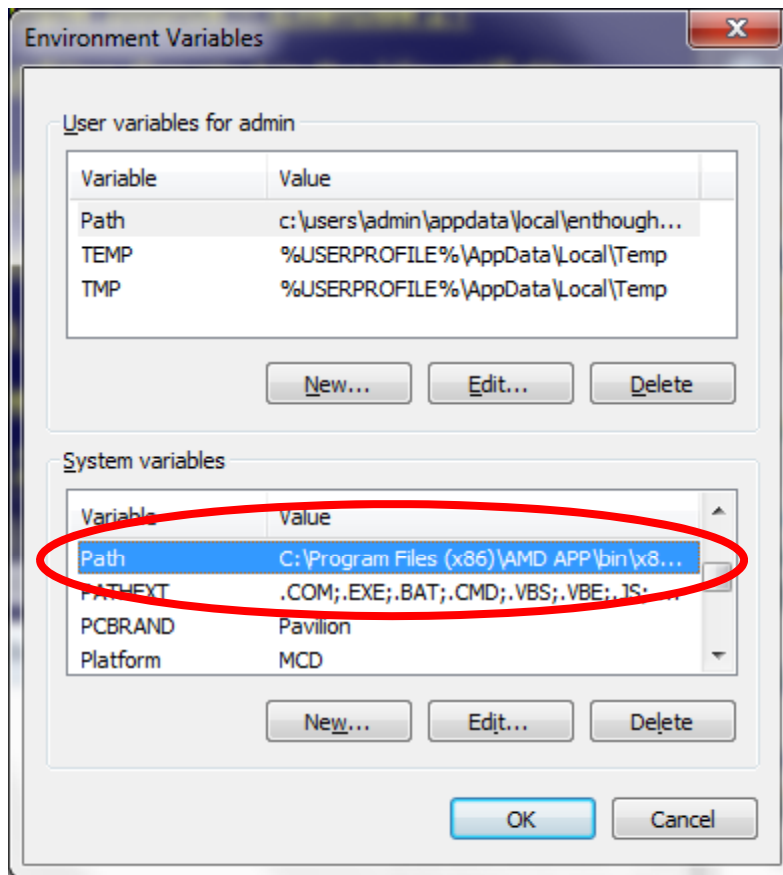
Setting the DATAPATH on Windows

If you do not know your DATAPATH value, type "set DAT" in the "M" command prompt.
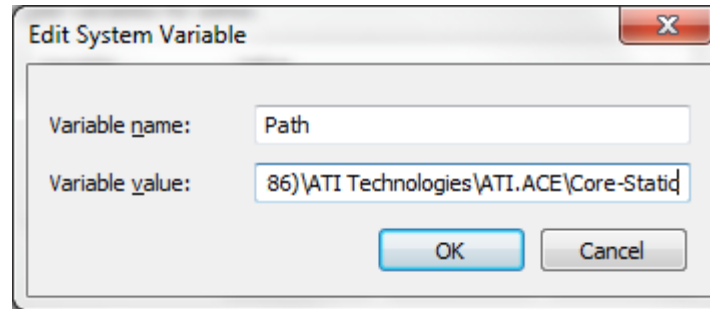
Modify the Windows PATH

You can also modify the PATH
definition so MCNP6 can run
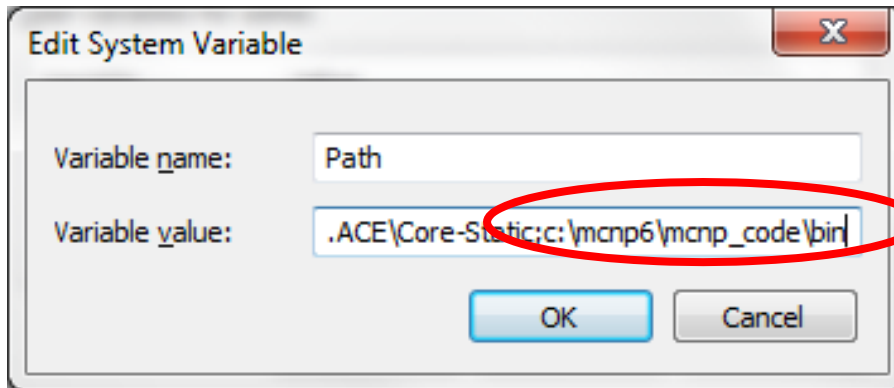anywhere on your computer.

Scroll down to
the Path
variable.

Modify the Windows PATH

Select Edit

Edit System Variable

Variable name: Path

Variable value: 86)\ATI Technologies\ATI.ACE\Core-Static

OK   Cancel

Add the path to the MCNP6 binaries (i.e. C:\mcnp6\mcnp_code\bin)

Refer to the mcnp_env.bat file for the path for your setup.

Edit System Variable

Variable name: Path

Variable value: .ACE\Core-Static;c:\mcnp6\mcnp_code\bin

OK   Cancel

←**Don't forget the ;**