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

MCNP Co	mmand Pr	ompt Proper	ties		×
Compatibi	ity Se	curity [Details	Previous V	ersions
General	Shortcut	Options	Font	Layout	Colors
<u>}/</u>	MCNP Co	mmand Promp	ot		
Target type	e: Applic	ation			
Target loca	tion: Syster	192			
Target:	%HOI	MEDRIVE%%H	IOMEPATH	H%∖mcnp_en	v.bat"
<u>S</u> tart in:	c:\vis				
Shortout ke	ey: None				
<u>R</u> un:	Norm	al window			-
Comment:	Runs	mcnp_env.ba	t for user to	set up enviro	onmen
Open F	ile Location	Change	lcon	Advance	d
		ОК	Can	cel	Apply

Command Prompt Target

M	MCNP Command Prompt Properties							
	Compatibility Security Details Previous Versions							
	General St	hortcut	Option	s	Font	Layout	Colors	
	A /I	ICNP Com	imand Pr	omp	t			
	Target type:	Applicat	ion					
	Target location: System32							
	<u>T</u> arget:	%HOM	EDRIVE	ζ%Η	OMEPAT	H%\mcnp_en	v.bat"	

%HOMEDRIVE% = The disk you installed the software 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.
-----
```

<pre>@ set MCNPPATH=C:\mcnp6\MCNP_CODE\bin @ PATH %MCNPPATH%;%PATH%</pre>	modifies the path
<pre>@ set DATAPATH=C:\mcnp6\MCNP_DATA SET DISPLAY=:0.0</pre>	<pre></pre>

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 the code.
- A generic command prompt will not run MCNP6®.
- Batch files will not work unless run from the "M" command prompt
- Visual Editor 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

General Shortcut Options Font Layout Colo Image: MCNP Command Prompt Target type: Application Target location: System32 Target: Image: Image: Image:	Compatibility	Sec	urity	Details	Previous \	/ersions
MCNP Command PromptTarget type:ApplicationTarget location:System32Target: <a>HOMEDRIVE%%HOMEPATH%\mcnp_env.bat"	General Shortcut Options Font Layout Colo				Colo	
Iarget type: Application Target location: System32 Target: %HOMEDRIVE%%HOMEPATH%\mcnp_env.bat"	MCNP Command Prompt					
Target location: System32 Target: %HOMEDRIVE%%HOMEPATH%\mcnp_env.bat"	Target type:	Applicat	ion			
Target: %HOMEDRIVE%%HOMEPATH%\mcnp_env.bat"	Target location:	System:	32			

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

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

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Target:						
MCNP Command Prompt Properties						
Compatibility Security Details Previous Versions						
General S	hortcut	Option	s Font	Layout	Colors	
MCNP Command Prompt						
Target type:	Applica	tion				
Target location: System32						
Target: %HOMEDRIVE%%HOMEPATH%\mcnp_env.bat"						
<u>S</u> tart in:	c:\vis					

C:\Windows\System32\cmd.exe /K "%HOMEDRIVE%%HOMEPATH%\mcnp_env.bat"

- 1. To change the target location by hand, modify the above command.
- 2. Creates a standard cmd then runs the mcnp_env.bat file
- 3. The /k keeps the command prompt up.

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



If the default display deos not work in Windows, edit the mcnp_env.bat file and modify it by inserting localhost, remove the ".0". Make sure there a no spaces after the 0.

Visual Editor implications

Visual Editor does not know about the M command prompt or the mcnp_env.bat file.

You need to let Visual Editor know the DATAPATH.

- 1. The best option is to set the DATAPATH environment variable for your computer.
- 2. You can also type in the Vised executable from the MCNP® command prompt.
- 3. You can create Vised batch files from the MCNP® batch files.



Select:

Advanced system settings



Create/Select the DATAPATH Environment Variable.

If it does not exist select NEW.

If it does exist select EDIT.

valiable	Value
Path	c: \users \admin \appdata \local \enthough
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
	New Edit Delete
	<u>N</u> ew <u>E</u> dit <u>D</u> elete
vstem variables	<u>N</u> ew <u>E</u> dit <u>D</u> elete
vstem variables Variable	New Edit Delete
vstem variables Variable AMDAPPSDKROOT	New Edit Delete Value 4 4 C:\Program Files (x86)\AMD APP\ 4
vstem variables Variable AMDAPPSDKROOT Comspec	New Edit Delete Value ////////////////////////////////////
/stem variables Variable AMDAPPSDKROOT Eomspec DATAPATH	New Edit Delete Value C:\Program Files (x86)\AMD APP\ AMD APP\ C:\Windows\system32\cmd.exe C:\mcnp6\mcnp_data
vstem variables Variable AMDAPPSDKROOT Comspec DATAPATH DISPLAY	New Edit Delete Value - - C:\Program Files (x86)\AMD APP\ - C:\Windows\system32\cmd.exe - C:\mcnp6\mcnp_data - localhost.0 -
vstem variables Variable AMDAPPSDKROOT Comspec DATAPATH	New Edit Delete Value C:\Program Files (x86)\AMD APP\ C:\Windows\system32\cmd.exe C:\mcnp6\mcnp_data

MCNP® installation Setting the DATAPATH on Windows

lser variables for adr	nin
Variable	Value
Path	c: \users \admin \appdata \ocal \enthough
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
[New Edit Delete
ystem variables Variable	Value
ystem variables Variable AMDAPPSDKROOT	Value C:\Program Files (x86)\AMD APP\
variable Variable AMDAPPSDKROOT ComSpec	Value C:\Program Files (x86)\AMD APP\ C:\Windows\system32\cmd.exe
variable Variable AMDAPPSDKROOT ComSpec DATAPATH	Value C:\Program Files (x86)\AMD APP\ C:\Windows\system32\cmd.exe C:\mcnp6\mcnp_data
Variable Variable AMDAPPSDKROOT ComSpec DATAPATH DISPLAY	Value C:\Program Files (x86)\AMD APP\ C:\Windows\system32\cmd.exe C:\mcnp6\mcnp_data localhost:0
variable Variable AMDAPPSDKROOT ComSpec DATAPATH DISPLAY	Value C:\Program Files (x86)\AMD APP\ C:\Windows\system32\cmd.exe C:\mcnp6\mcnp_data localhost:0 New Edit Delete

Edit or create (New) the DATAPATH variable name

stem Properties	×)		× ()
	Env	ironment Variables	64
Computer Name Hardware Advanced System Protection Remote			
You must be logged on as an Administrator to make most of these change	es.	User variables for adr	min
		Variable	Value
Visual effects processor scheduling memory usage, and virtual memory		Path	c:\users\admin\appdata\ocal\enthough
		TEMP	%USERPROFILE%\AppData\Local\Temp
Settings		TMP	%USERPROFILE%\AppData\Local\Temp
User Profiles			New Edit Delete
Desktop settings related to your logon			
		system variables	
Settings		oystem variables	
		Variable	Value
Startup and Recovery		AMDAPPSDKROOT	C:\Program Files (x86)\AMD APP\
System startup, system failure, and debugging information		ComSpec	C:\Windows\system32\cmd.exe
		DATAPATH	C: \mcnp6 \mcnp_data
Settings		DISPLAY	localhost:0
			New Edit Delete
Environment Variables			
OK Cancel App	by		
		dit System Vir able	×
min-HP			
		Variable a sec	DATADATH
		variable name:	DATAPATR
		Variable value:	C: \mcnp6 \mcnp_data
			OK Cancel
	L		

Enter the DATAPATH.

	New Edit Delete
	OK Cancel
Edit System Variabl	le
Variable name:	DATAPATH
Variable value:	C: \mcnp6 \mcnp_data
	OK Cancel
<u> </u>	

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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.

Environment Varia	bles 🗾
<u>U</u> ser variables fo	or admin
Variable	Value
Path	c: \users \admin \appdata \local \enthough
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp
	New Edit Delete
System variables	,
Variable	Value
Path	C:\Program Files (x86)\AMD APP\bin\x8
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.1S
PCBRAND	Pavilion
Platform	MCD T
	Ne <u>w</u> Edit Delete
	OK Cancel

Scroll down to the Path variable.

Modify the Windows PATH

Select Edit

Edit System Variable	X
Variable <u>n</u> ame:	Path
Variable <u>v</u> alue:	86)\ATI Technologies\ATI.ACE\Core-Statid
	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 Variab	le 🛛 🗶	
Variable <u>n</u> ame:	Path	
	OK Cancel	Con't forget the

You can also: Run from the MCNP® command prompt

Run the Visual Editor from the MCNP6® command prompt.



OR: Create a VISED command icon from the MCNP® command icon

Create a	vised	batch	file	from	the	MCNP ®	
batch	file:						
copy	mcnp_e	env.bat	z 7	<i>v</i> ised6	51.ba	at	

@ set MCNPPATH=C:\MCNP6\MCNP_CODE\bin @ PATH %MCNPPATH%;%PATH%

set DISPLAY=:0

set DATAPATH=C:\MCNP6\MCNP_DATA c:\mcnp6\vised\Visplot61_25 exit Add a line to run Vised. Make sure there is no space after the DATAPATH line, or it will not work

Copy the MCNP® icon to create a VISED icon

change the name of the bat file.

You can change the icon image by selecting Change Icon

You can create an icon by saving a vised plot to a bmp file.

vis61_bat Properties ×								
Colors	Security	Details	Previou	Previous Versions				
General	Shortcut	Options	Font	Layout				
vi	vis61_bat							
Target type:	Application							
Target location:	System32							
<u>T</u> arget:	/k "%HOMEDRIVE%%HOMEPATH%\vised_61.bat"							
<u>S</u> tart in:	%HOMEDRIVE%%HOMEPATH%							
Shortcut <u>k</u> ey:	None							
<u>R</u> un:	Normal window \sim							
C <u>o</u> mment	Runs mcnp_env.bat for user to set up environment for							
Open <u>File Location</u> <u>Change Icon</u> Advanced								