

How to launch MIN3P on Windows?

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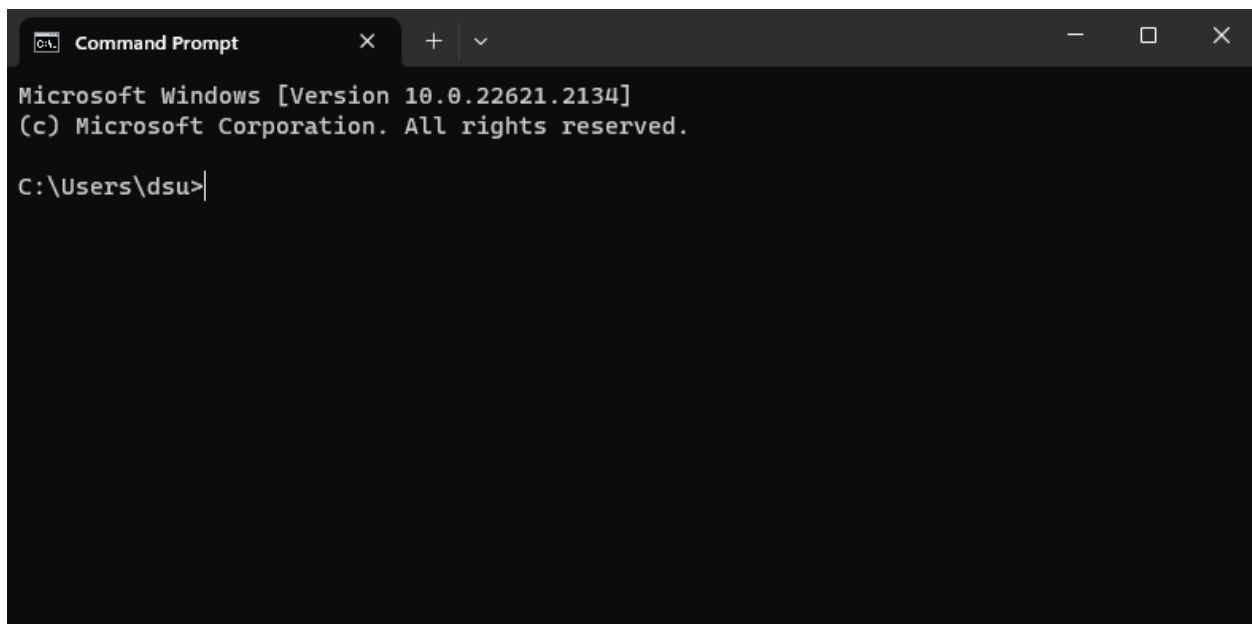
Before using MIN3P, please make sure you have downloaded the right MIN3P version on a 64-bit system. For Windows users, please download Windows version from MIN3P website www.min3p.com and save the file to any disk space you have access permission. Please download or create a simulation example before continuing.

Assuming you have saved MIN3P code (e.g., MIN3P-HPC-X64-V2.4.8.869.exe) in folder C:\Program Files\MIN3P\. You can rename the name from MIN3P-HPC-X64-V2.4.8.869.exe to MIN3P.exe if you like. By doing so, the full path of MIN3P code is C:\Program Files\MIN3P\MIN3P.exe. This is the path you will need to launch the code.

Assuming you have downloaded or created an example in folder D:\Simulation\amd_ex, with input file amd-ex.dat and database included.

Basic Steps:

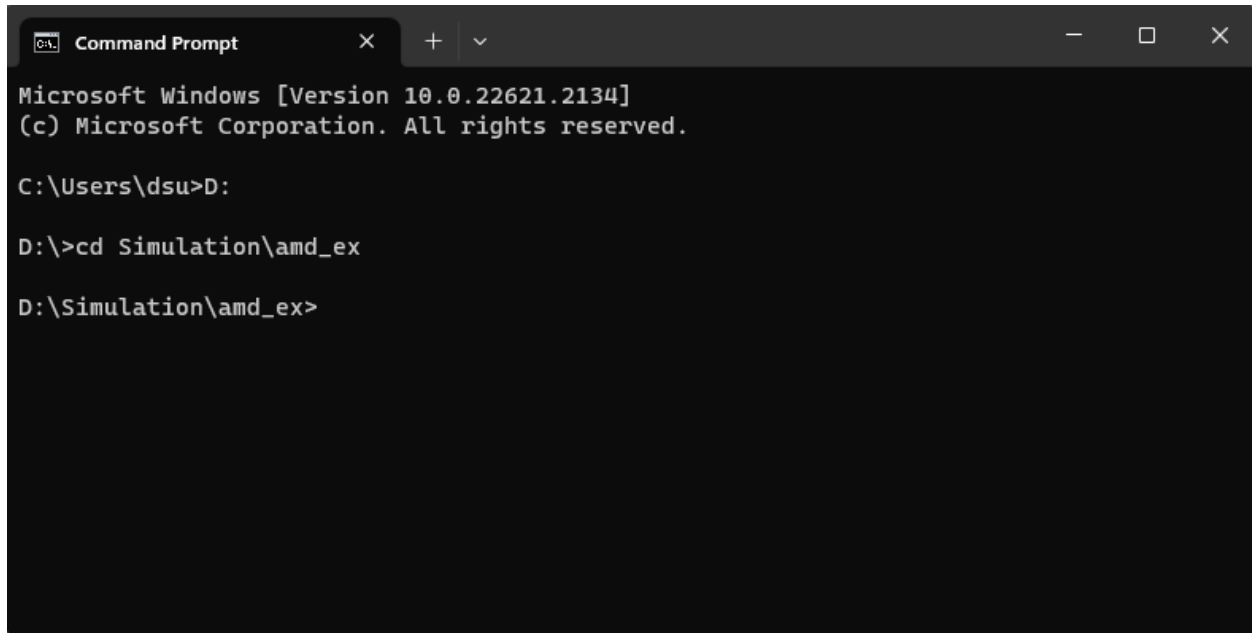
1. Select the Start Menu (the Windows icon) in the taskbar, or press the Windows key.
2. Type cmd and select Command Prompt from the list. A Windows Command Prompt will be shown.



```
Command Prompt
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dsu>
```

3. Change the current Command Prompt path (here C:\Users\dsu) to your simulation folder you have created before (here D:\Simulation\amd_ex) by typing 'D:', return key, and then type 'cd Simulation\amd_ex'. An screenshot is shown below.



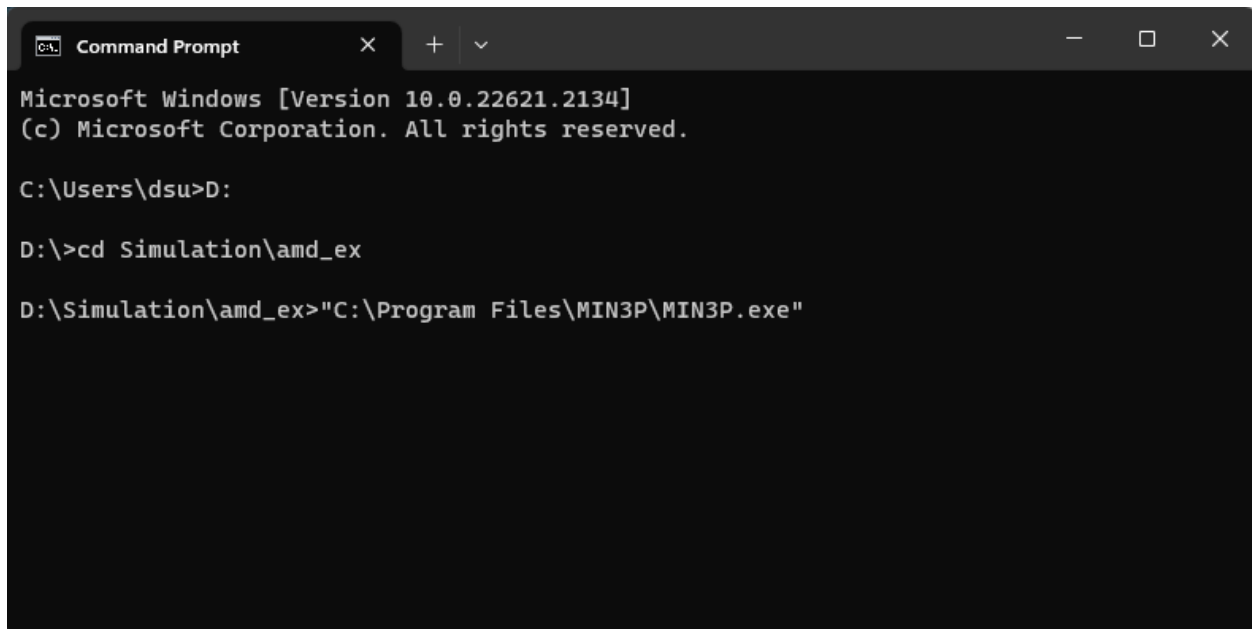
```
Command Prompt
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dsu>D:

D:\>cd Simulation\amd_ex

D:\Simulation\amd_ex>
```

4. Now you are ready to launch MIN3P code. Type in the full path of MIN3P executable file, as shown below.



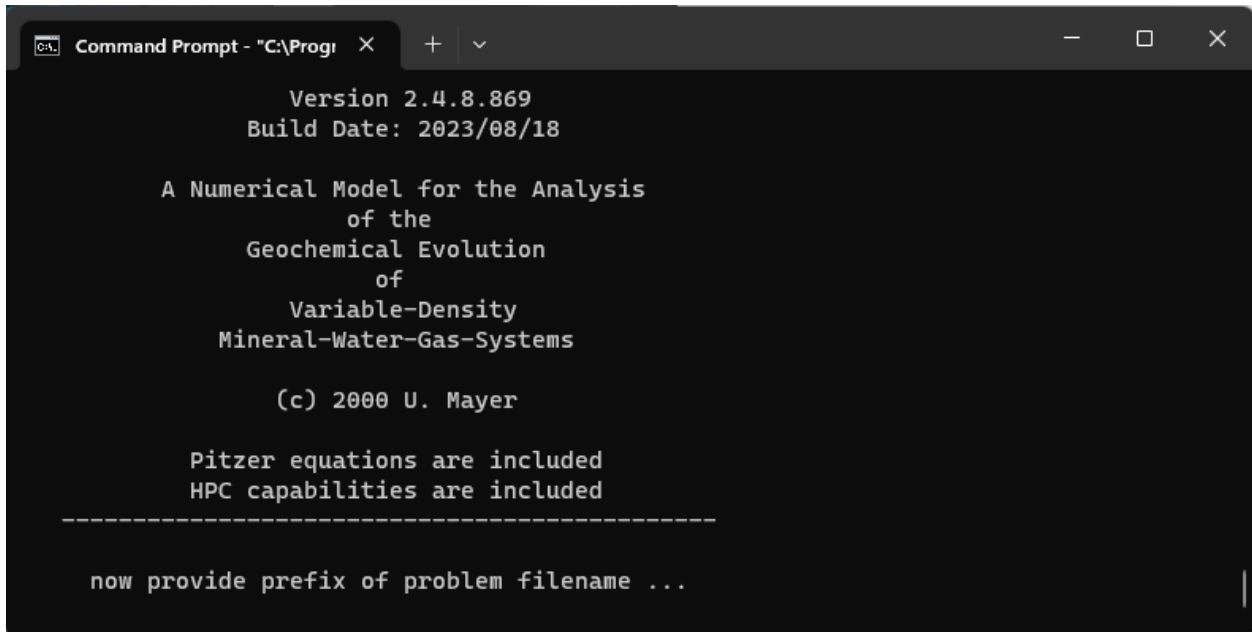
```
Command Prompt
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dsu>D:

D:\>cd Simulation\amd_ex

D:\Simulation\amd_ex>"C:\Program Files\MIN3P\MIN3P.exe"
```

5. Hit the return key and you will see MIN3P interface.



```
Command Prompt - "C:\Progr...  X  +  v  -  □  X

Version 2.4.8.869
Build Date: 2023/08/18

A Numerical Model for the Analysis
of the
Geochemical Evolution
of
Variable-Density
Mineral-Water-Gas-Systems

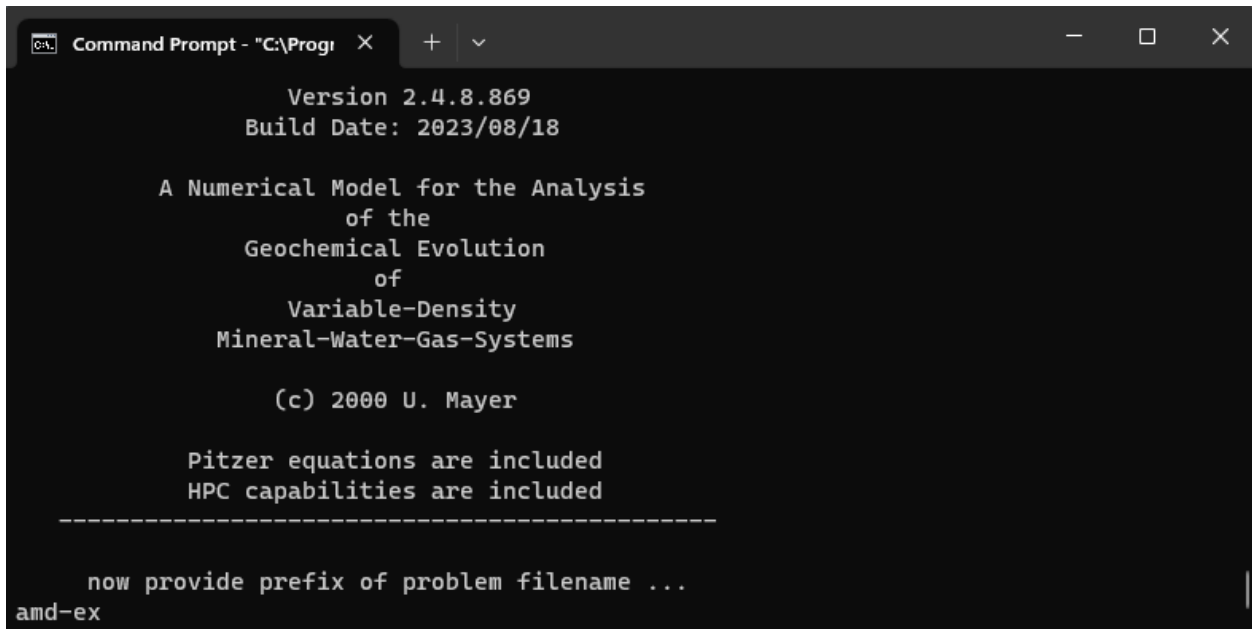
(c) 2000 U. Mayer

Pitzer equations are included
HPC capabilities are included

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now provide prefix of problem filename ...
```

6. Now type in the prefix of file name (here amd-ex). Do NOT include the extension file name (here .dat). After hitting the return key. The simulation will start.



```
Command Prompt - "C:\Progr...  X  +  v  -  □  X

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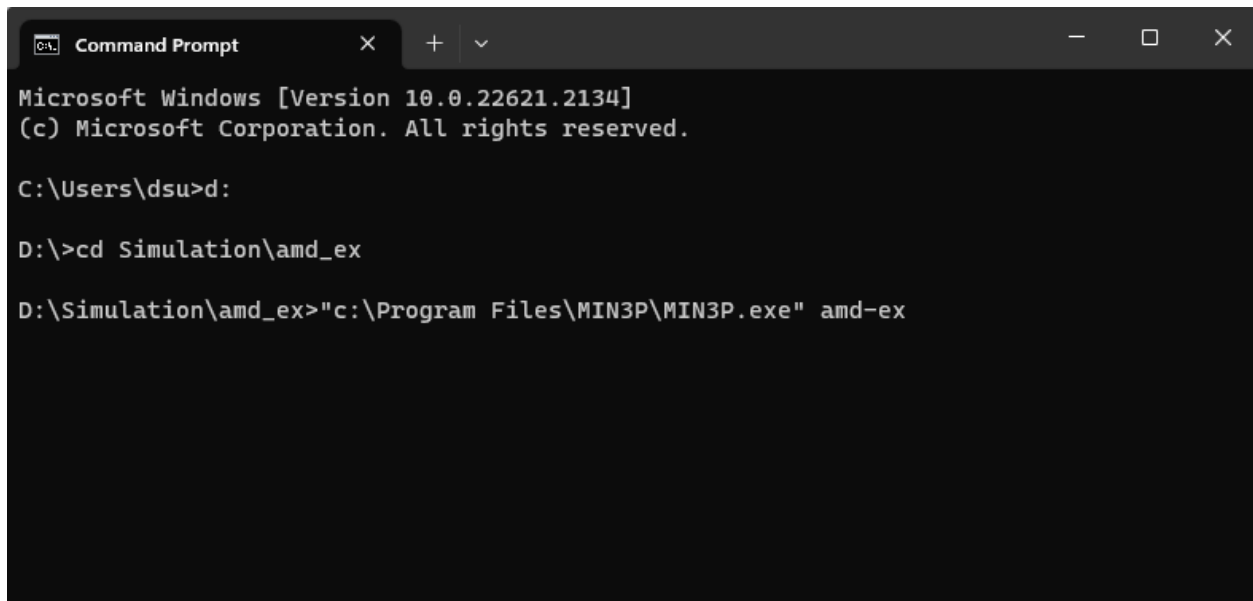
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now provide prefix of problem filename ...
amd-ex
```

Important note: if you have root.dat file in the simulation folder and the prefix of file name is specified in that file, the simulation will start automatically after MIN3P is launched.

Advanced Settings:

1. Step 4 to 6 in the Basic Steps can be simplified to a single line command "path-of-min3p" followed by prefix-of-problem-filename, here "C:\Program Files\MIN3P\MIN3P.exe" amd-ex.



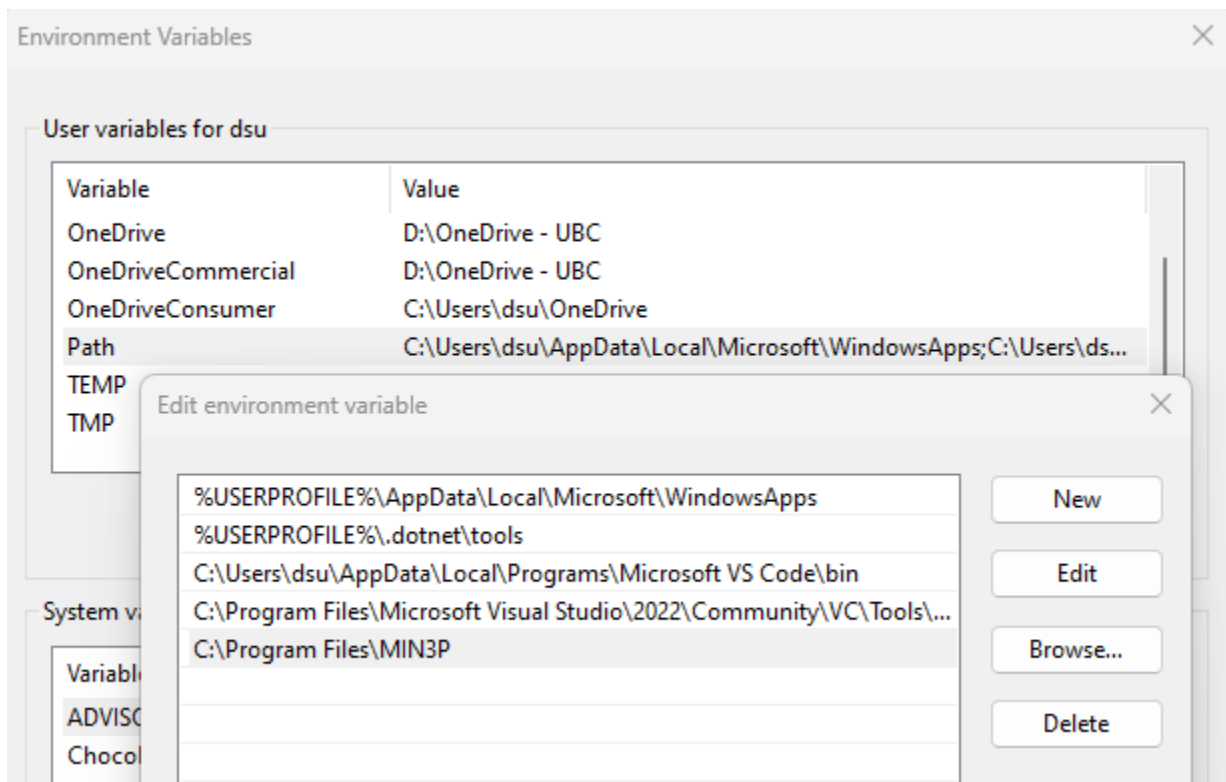
```
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\dsu>d:

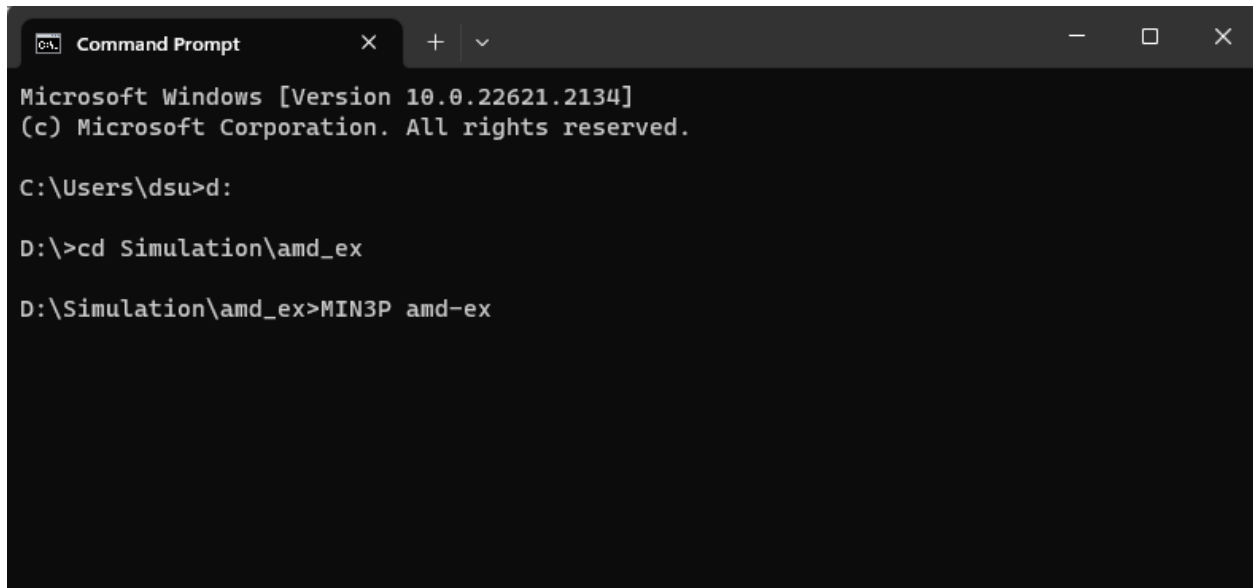
D:\>cd Simulation\amd_ex

D:\Simulation\amd_ex>"c:\Program Files\MIN3P\MIN3P.exe" amd-ex
```

2. Add MIN3P path (here C:\Program Files\MIN3P) to Environment Variables, as shown below.



By adding MIN3P path, user can just type MIN3P followed by prefix of file name to launch the code. Please note Command prompt should be restarted so that the new settings can take effect.



```
Command Prompt
Microsoft Windows [Version 10.0.22621.2134]
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C:\Users\dsu>d:

D:\>cd Simulation\amd_ex

D:\Simulation\amd_ex>MIN3P amd-ex
```