





Column / Amesim and matlab joint simulation-detailed process of environment configuration

Amesim and matlab joint simulation - detailed process of environment configuration

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The software installation versions of this article are AMESim2020, MATLAB2020b, and the compiler is Microsoft

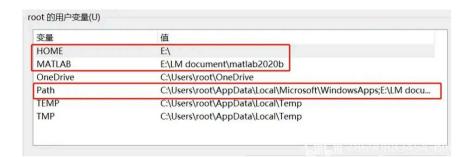
Visual Studio 2019. The installation order is: Microsoft Visual Studio 2019—AMESim2020—M

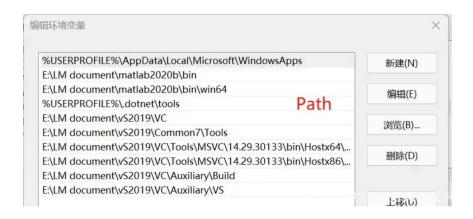
ATLAB2020b.

add user variables and system variables.

1. Add user variables

Add HOME as drive E, add the variable name MATLAB based on its own installation path, and add variables in Path as follows:

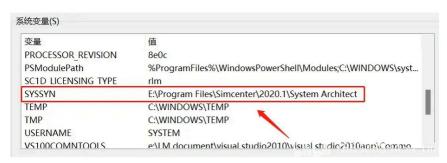


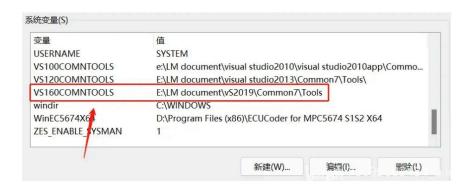


2. Add system variables

Add SYSSYN and AME to the AMESim installation path, and add MSSDK and VS160COMNTOOLS to the Microsoft Visual Studio 2019 installation path. And add variables in Path as follows:

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3. System settings

To prevent garbled errors, "Click Control Panel-Clock and Region-Region-Management-Change System Regional Settings" and check the Beta version before restarting.



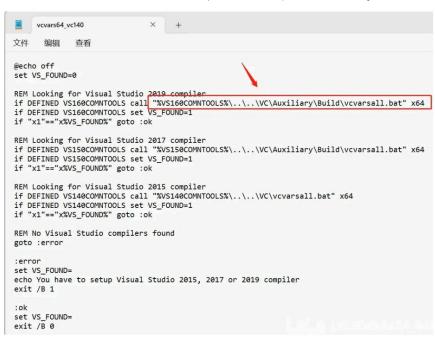
4. Modify file information

(1) Find the vcvars64_vc140.bat file in the AMESim installation path



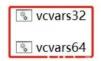
vcvars64_vc140

(2) Right-click to edit and open it with Notepad. If the path is consistent with the picture below, the compiler path has been found. Otherwise, you need to modify the file content according to the picture below and combine it with your own installation path. ÿ3 ÿ2 ÿ8 ÿ0



(3) Find the vcvars32.bat and vcvars64.bat files in the Microsoft Visual Studio 2019 installation path, and copy and paste them to the AMEsim installation path in step (1).

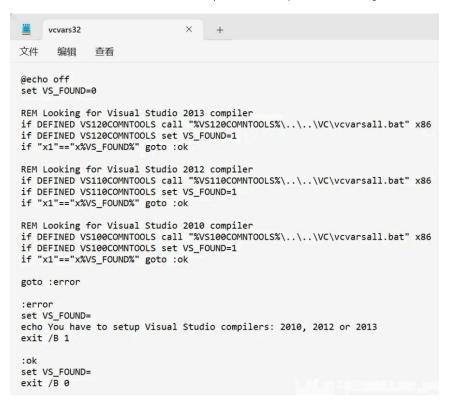




(4) Right-click to edit the vcvars32.bat and vcvars64.bat files under the AMESim path, and modify the file contents as follows.

vcvars32.bat:

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Vcvars64.bat

```
vcvars64
文件
       编辑
               杳看
@echo off
set VS_FOUND=0
REM Looking for Visual Studio 2013 compiler if DEFINED VS120COMNTOOLS call "%VS120COMNTOOLS%\...\..\VC\vcvarsall.bat" x64
if DEFINED VS120COMNTOOLS set VS_FOUND=1
if "x1"=="x%VS_FOUND%" goto :ok
REM Looking for Visual Studio 2012 compiler
if DEFINED VS110COMNTOOLS call "%VS110COMNTOOLS%\..\.\VC\vcvarsall.bat" amd64
if DEFINED VS110COMNTOOLS set VS_FOUND=1
if "x1"=="x%VS_FOUND%" goto :ok
REM Looking for Visual Studio 2010 compiler
if DEFINED VS100COMNTOOLS call "%VS100COMNTOOLS%\..\..\VC\vcvarsall.bat" x64
if DEFINED VS100COMNTOOLS set VS_FOUND=1
if "x1"=="x%VS_FOUND%" goto :ok
REM No Visual Studio compilers found
goto :error
:error
set VS_FOUND=
echo You have to setup Visual Studio compilers: 2010, 2012 or 2013
exit /B 1
:ok
set VS FOUND=
exit /B 0
```

5. Software compiler settings

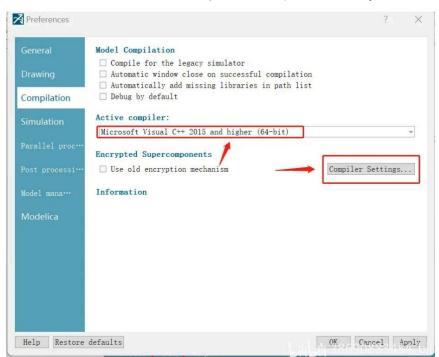
(1) AMESim

In AMESim, select "Tools-Preferences-Compilation", set the Active Compiler to Microsoft Visual C++ (64bit), and complete the same check in the Compiler settings. The above settings will not take effect until restarting.

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(2) Enter the command mex -setup in the MATLAB software command line. If the following picture appears, select mex - setup C++ to complete the configuration.

```
命令行窗口

不熟悉 MATLAB? 请参阅有关快速入门的资源。

>> mex -setup

MEX 配置为使用 'Microsoft Visual C++ 2019 (C)' 以进行 C 语言编译。

要选择不同的语言,请从以下选项中选择一种命令:

mex -setup C++

mex -setup FORTRAN

fx >>
```

```
命令行窗口
不熟悉 MATLAB? 请参阅有关快速入门的资源。

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mex -setup FORTRAN

MEX 配置为使用 'Microsoft Visual C++ 2019' 以进行 C++ 语言编译。

MEX 配置为使用 'Microsoft Visual C++ 2019' 以进行 C++ 语言编译。

fx >>>

Since then, the joint simulation configuration of Amesim and mattab has been completed.
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