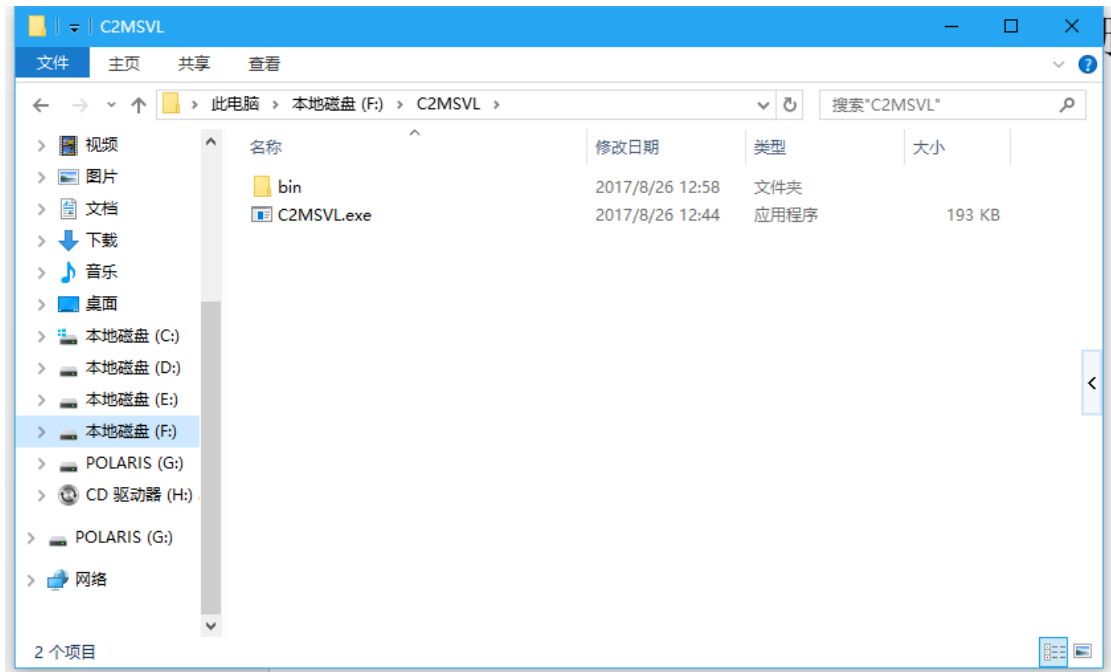


C2MSVL USER GUIDE

1. Installation

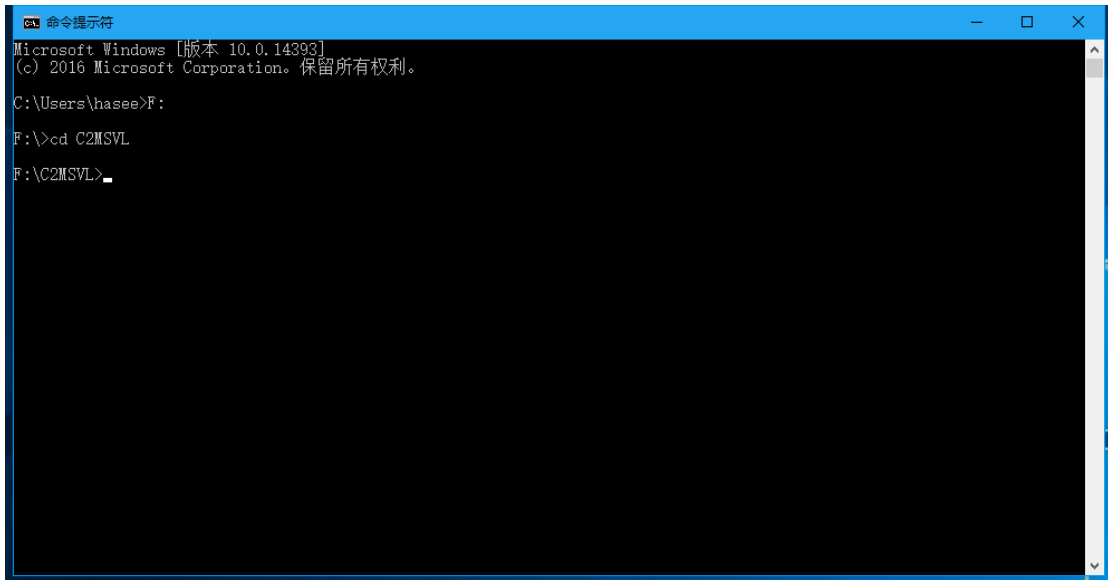
Download C2MSVL.zip and unzip it.



2. C2MSVL

1) C2MSVL USAGE

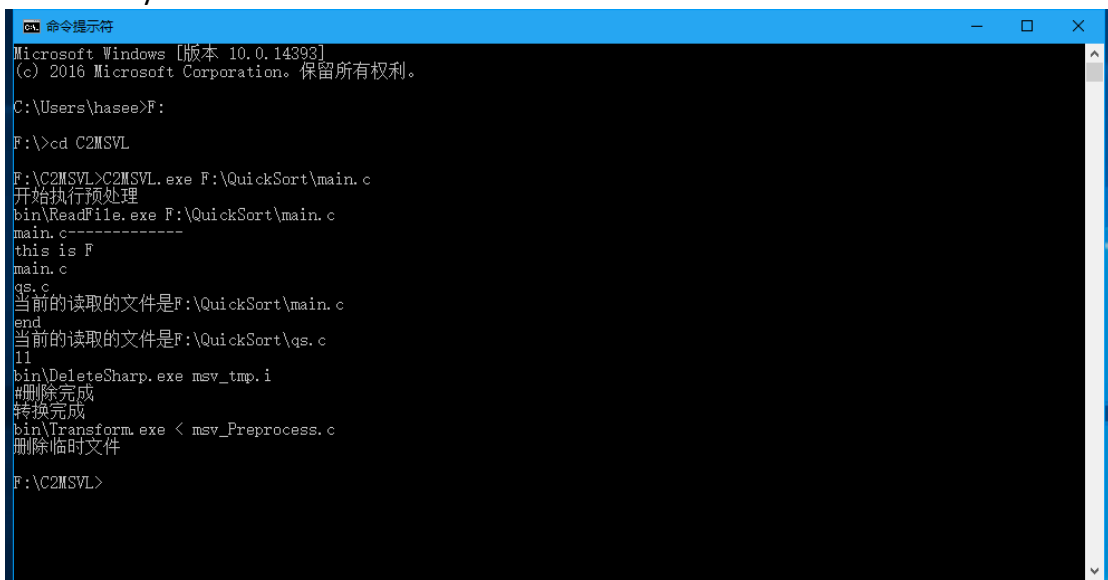
After unzipping, enter the root directory of the C2MSVL tool from the command line and then you can use it:



```
命令提示符
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 保留所有权利。

C:\Users\hasee>F:
F:\>cd C2MSVL
F:\C2MSVL>
```

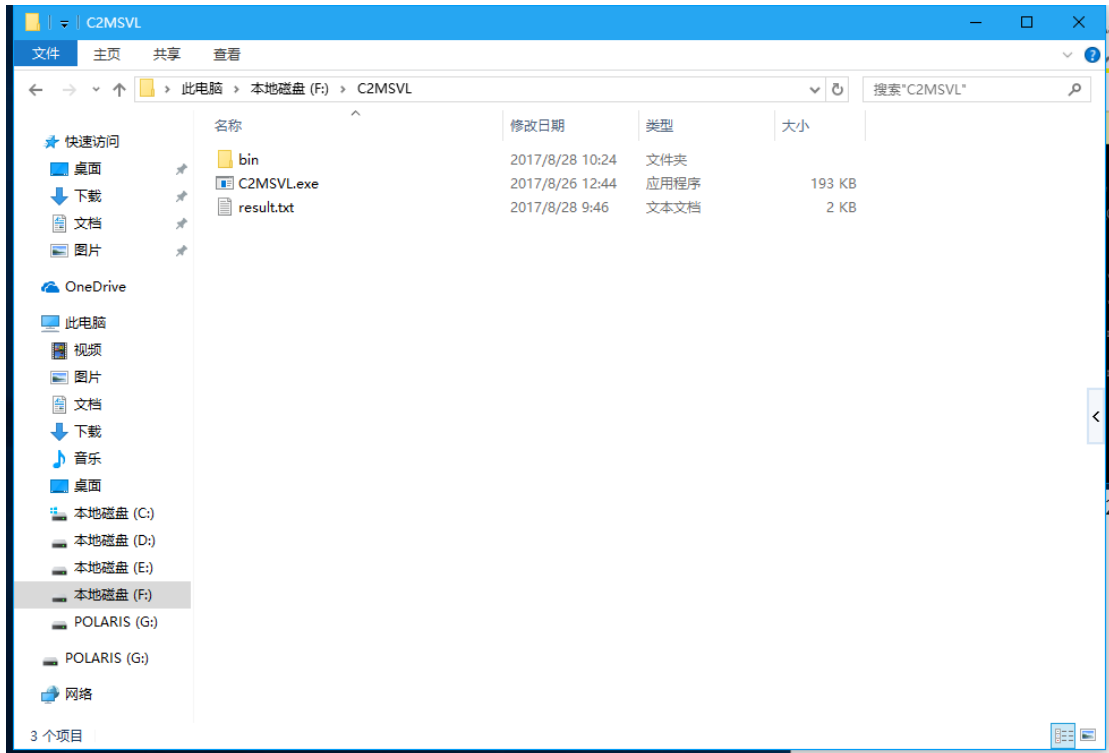
Convert a quicksort program for example: type the command 'C2MSVL.exe' and followed by the full name of the file in which the main function is located:



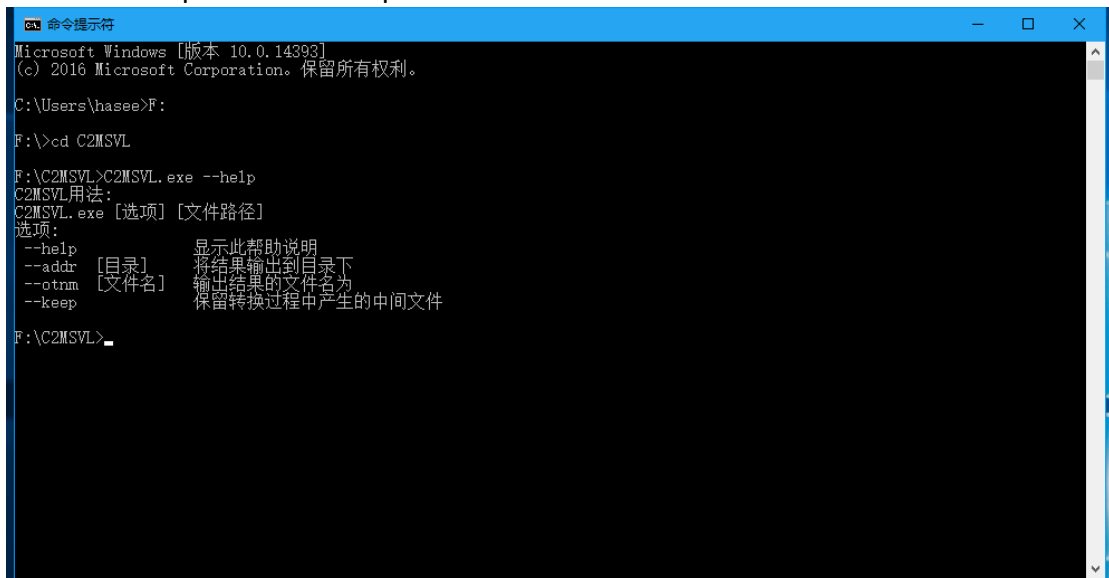
```
命令提示符
Microsoft Windows [版本 10.0.14393]
(c) 2016 Microsoft Corporation. 保留所有权利。

C:\Users\hasee>F:
F:\>cd C2MSVL
F:\C2MSVL>C2MSVL.exe F:\QuickSort\main.c
开始执行预处理
bin\ReadFile.exe F:\QuickSort\main.c
main.c
-----
this is F
main.c
qs.c
当前的读取的文件是F:\QuickSort\main.c
end
当前的读取的文件是F:\QuickSort\qs.c
ll
bin\DeleteSharp.exe msv_tmp.i
#删除完成
转换完成
bin\Transform.exe < msv_Preprocess.c
删除临时文件
F:\C2MSVL>
```

The result is in under the root directory by default:



Also C2MSVL provide some options:



Such as the command: `C2MSVL.exe -- keep -- addr F:\tmp --otnm out.txt E:\tmp\004.c`. It means the source file which contains main function is `E:\tmp\004.c`, keep the intermediate files and the result is `F:\tmp\out.txt`

2) C2MSVL Illustration

As the tool is still in the development stage, the following limitations are now known, and we look forward to understanding:

- [1]. Suggest that put the files and projects into a individual folder to avoid some unexpected problems while reading
- [2]. For system libraries, header files are ignored for the moment. If you use #define, typedef, struct, etc. in the system header file, you still need to manually add it to the source file.
- [3]. Do not support the parallel statements of 'self-increasing and self-reducing' statements, such as: 'i++,j++;'.
- [4]. 3) Only single assignment statements are supported for the time being. Statements of the following structure need to be manually modified: 'if((x+=2)>5);'.
- [5]. Simple support is provided for the goto statement, but it is not perfect. Please try not to use the goto statement.
- [6]. Do not support the structure 'case 1{; case 2:.....;}' in which a case statement includes another.

If some bugs and problem occurs when using, please send the email to msv_ictt@163.com. And also if you have any good ideas and advice, send us an email too. Thank you.