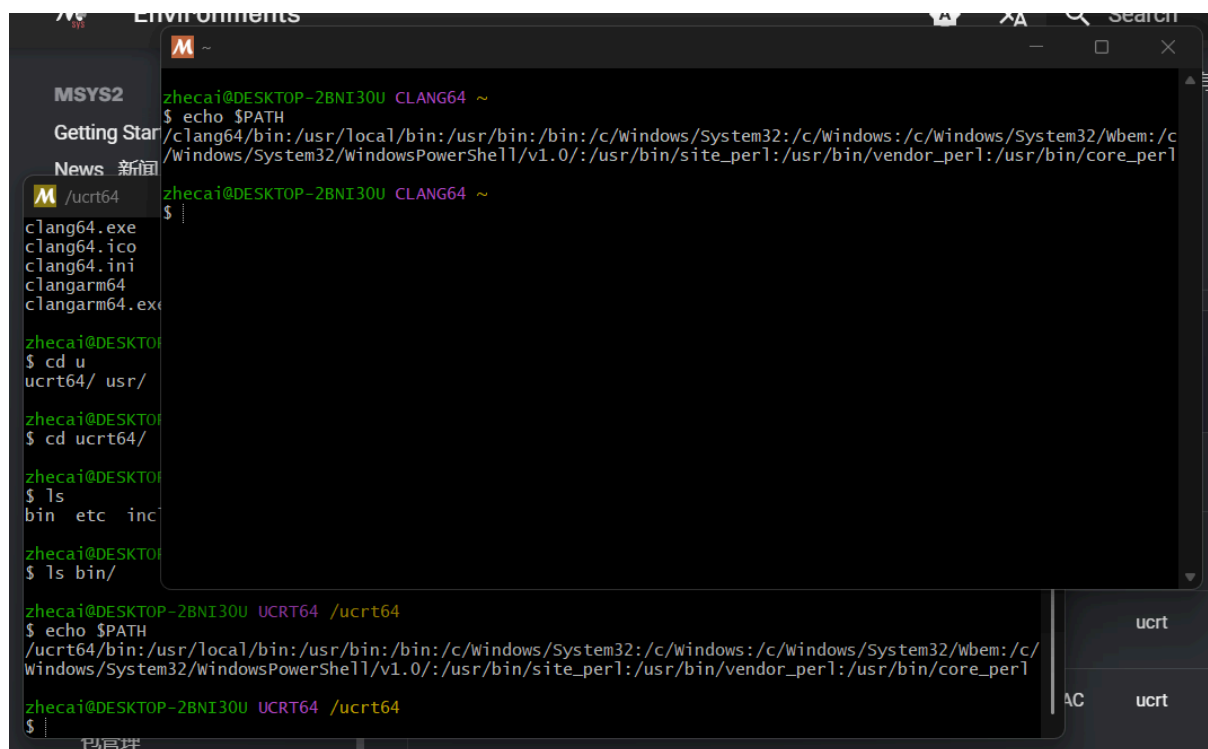
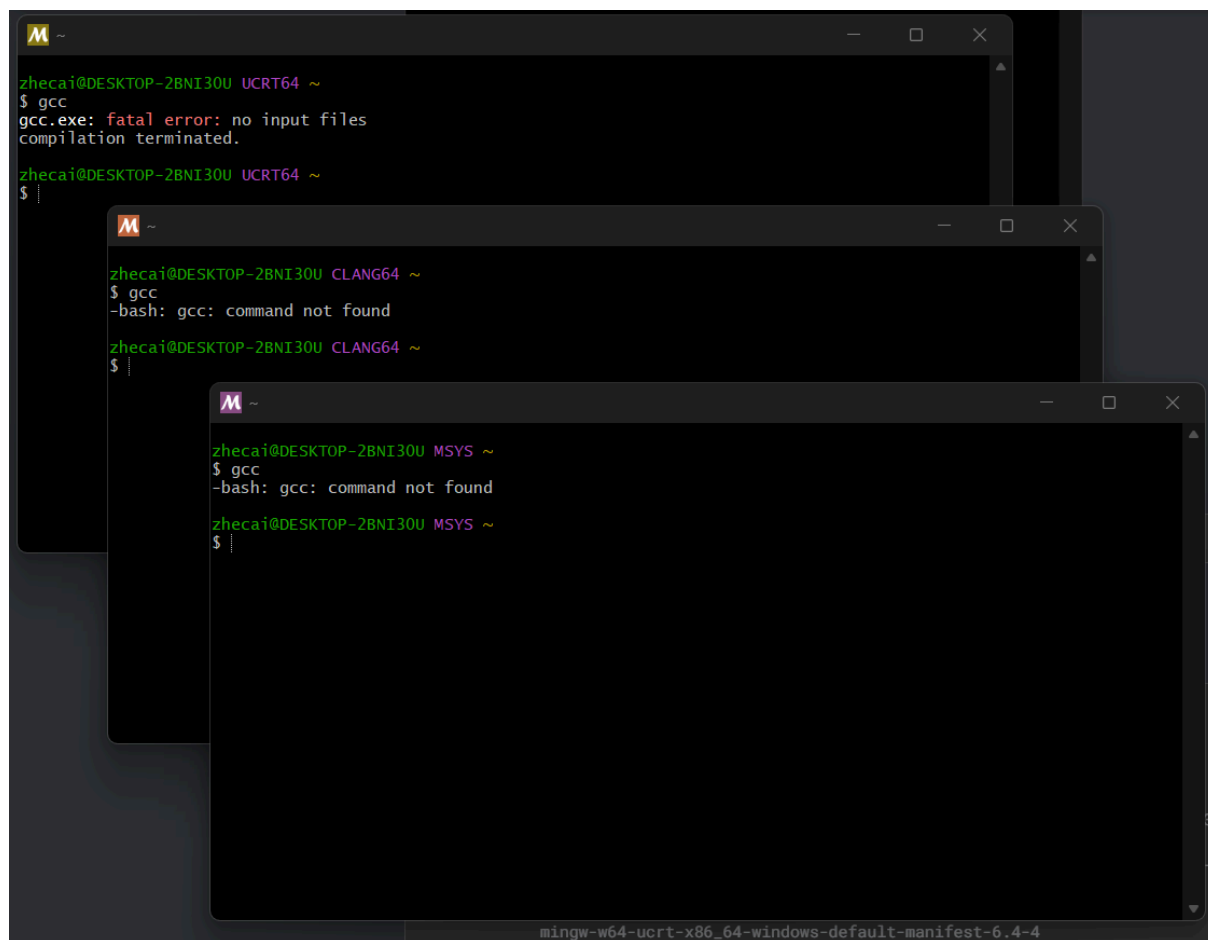


安装 msys2 之后给了几个不同的 bash 环境



```
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$ echo $PATH  
/clang64/bin:/usr/local/bin:/usr/bin:/bin:/c/Windows/System32:/c/Windows:/c/Windows/System32/Wbem:/c/Windows/System32/WindowsPowerShell/v1.0:/usr/bin/site_perl:/usr/bin/vendor_perl:/usr/bin/core_perl  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$ cd u  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$ cd usr/  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$ ls  
bin etc include  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$ ls bin/  
zhecai@DESKTOP-2BNI30U UCRT64 /usr  
$ echo $PATH  
/usr/bin:/usr/local/bin:/usr/bin:/bin:/c/Windows/System32:/c/Windows:/c/Windows/System32/Wbem:/c/Windows/System32/WindowsPowerShell/v1.0:/usr/bin/site_perl:/usr/bin/vendor_perl:/usr/bin/core_perl  
zhecai@DESKTOP-2BNI30U UCRT64 /usr  
$
```

pacman 安装时可以特地只为一个环境安装工具



```
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ gcc  
gcc.exe: fatal error: no input files  
compilation terminated.  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$ gcc  
-bash: gcc: command not found  
zhecai@DESKTOP-2BNI30U CLANG64 ~  
$  
zhecai@DESKTOP-2BNI30U MSYS ~  
$ gcc  
-bash: gcc: command not found  
zhecai@DESKTOP-2BNI30U MSYS ~  
$
```

来到重点

```
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ ls /ucrt64/bin/ | grep make  
cmake.exe  
mingw32-make.exe  
psl-make-dafsa  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ ls /usr/bin/ | grep make  
make.exe  
makepkg  
makepkg-mingw  
makepkg-template  
psl-make-dafsa  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ mingw32-make  
mingw32-make: *** No targets specified and no makefile found. Stop.  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ make  
make: *** No targets specified and no makefile found. Stop.  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ which make  
/usr/bin/make  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ which cmake  
/ucrt64/bin/cmake  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$ where cmake  
C:\msys64\ucrt64\bin\cmake.exe  
  
zhecai@DESKTOP-2BNI30U UCRT64 ~  
$
```

只为 ucrt64 安装的 make 叫做 mingw32-make, 但可以直接 `pacman -S make` 安装 make 在 /usr/bin, 也就是所有 msys 环境的公共环境。

(话说还能直接在 bash 里用 `cmd` 命令哦, 好牛逼)