# Bat使用说明

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## 语言特性

### 流程控制

#### If

形式一：单行（等式后紧跟着操作）

|  |
| --- |
| @echo off  rem if  if 1==1 echo hello world  pause |

形式二：多行（等式后紧跟着括号需要）

|  |
| --- |
| @echo off  rem if  if 1==1 (echo hello echo world)  pause  @echo off  rem if  if 1==1 (echo hello  echo world)  pause  @echo off  rem if  if 1==1 (  echo hello  echo world  )  pause  @echo off  rem 错误的  if 1==1  (  echo hello  echo world  )  pause |

#### If-else

形式一：单行（只要使用else，就必须使用括号把前一个操作括起来）

|  |
| --- |
| @echo off  rem if else  if 1==1 (echo hello) else echo world  pause  @echo off  rem if else  if 1==1 (echo hello) else (echo world)  pause |

形式二：多行

|  |
| --- |
| @echo off  rem if else  if 1==1 (echo hello) else (  echo world)  pause  @echo off  rem if else  if 1==1 (echo hello) else (  echo world  )  pause  @echo off  rem if else  if 1==1 (  echo hello) else (  echo world  )  pause  @echo off  rem if else  if 1==1 (  echo hello  ) else (  echo world  )  pause |

### 控制字符

#### ENABLEDELAYEDEXPANSION （启用变量延迟）

主要是为了实现环境变量的动态更新，如果不设置该值，则环境变量不会被更新，始终是那个值。

示例：

|  |
| --- |
| SETLOCAL ENABLEDELAYEDEXPANSION |

### 输入输出

#### 获取用户输入

命令：set /p

例子：

|  |
| --- |
| @echo off  rem 获取用户想要制作的版本  set /p VersionType=希望制作何种版本(Release/Retail):  rem 输出  echo %VersionType%  pause |

#### 输出信息

命令： echo

例子：

|  |
| --- |
| @echo off  rem 输出信息  echo hello world  pause |

### 目录操作

1. 保存当前目录

Pushd – 保存当前目录以供popd使用，然后改到指定的目录

例子：

|  |
| --- |
| rem 建立材质索引表  pushd %VersionMakeDir%  %MaterialPreParserExe%  Popd  pause |

Popd

#### 2． 获取当前bat所在目录

|  |
| --- |
| @echo off  set CurDir=%cd%  echo 当前目录:%CurDir%  pause |

### 时间日期

#### 例子：获取年月日时（并且只截取后两位的year）

|  |
| --- |
| @echo off  SETLOCAL ENABLEDELAYEDEXPANSION  rem 获取hour-----------------------------------  echo %time% > time.tmp  for /f "delims=: tokens=1 " %%i in (time.tmp) do set Hour=%%i  del time.tmp  echo %hour%  echo %date% > date.tmp  for /f "tokens=1,2,3 delims=- " %%i in (date.tmp) do (  set Year=%%i  set Month=%%j  set Day=%%k  )  del date.tmp  rem 对year操作，只获取year的后两位  set Year=%Year:~-2,2%  echo %Year%%Month%%Day%  rem ------------------------------------------------  pause |

### Goto段描述

|  |
| --- |
| goto Error  :Error  Echo “错误处理”  exit |

## 实例

### 自动编译系统

|  |
| --- |
| @echo off  rem 自动版本编译系统  SETLOCAL ENABLEDELAYEDEXPANSION  rem %comspec% /k ""C:\Program Files\Microsoft Visual Studio 8\VC\vcvarsall.bat"" x86  rem bat目录  set BatDir=%cd%  rem 几个预设目录  set VcSlnDir=%BatDir%\..\..\Client\Proj  set VcSln=%VcSlnDir%\ClientMain.sln  set VsDevenvExe="C:\Program Files\Microsoft Visual Studio 8\Common7\IDE\devenv.com"  set BinDir=%cd%\..\..\Client\bin\release  set DestDir=%BatDir%\..\bin\release  set TeeExe=%BatDir%\tee.exe  set GenVersionExe=%BatDir%\GenVersion.exe  cd /d %BatDri%  rem 建立log  echo 开始时间 %date% %time%  echo 开始时间 %date% %time%>build.log  rem 1.首先更新svn  echo 更新svn...  start /WAIT cmd /c "svn update.bat"  if %errorlevel% equ 0 (  echo svn更新 成功！  ) else (  echo svn更新 失败！  pause  exit  )  )  rem ----------------------------------------------  rem 2.编译prj-------------------------------------  echo 开始编译...  del VcBuildOutput.log  rem %VsDevenvExe% "%VcSln%" /project ClientMain /Rebuild Release /out VcBuildOutput.log  %VsDevenvExe% "%VcSln%" /project ClientMain /Rebuild Release | %TeeExe% VcBuildOutput.log  type VcBuildOutput.log>>build.log  if %errorlevel% equ 0 (  echo 编译成功  echo 编译成功>>build.log  ) else (  echo 编译失败  echo 编译失败>>build.log  pause  exit  )  rem ----------------------------------------------  rem 3.拷贝到版本文件夹------------------------------  xcopy %BinDir%\ClientMain.exe %DestDir% /E /y  xcopy %BinDir%\CrossOgrePlugin.dll %DestDir% /E /y  xcopy %BinDir%\CrossOpenAL.dll %DestDir% /E /y  xcopy %BinDir%\CrossNewFX.dll %DestDir% /E /y  xcopy %BinDir%\CrossEngine.dll %DestDir% /E /y  xcopy %BinDir%\crossguiLib.dll %DestDir% /E /y  xcopy %BinDir%\ogreCrossguiRender.dll %DestDir% /E /y  xcopy %BinDir%\CrashReport.exe %DestDir% /E /y  xcopy %BinDir%\ogreMain.dll %DestDir% /E /y  xcopy %BinDir%\Plugin\_CgProgramManager.dll %DestDir% /E /y  xcopy %BinDir%\Plugin\_OctreeSceneManager.dll %DestDir% /E /y  xcopy %BinDir%\RenderSystem\_Direct3D9.dll %DestDir% /E /y  rem ------------------------------------------------  rem 5. 生成版本号------------------------------  echo 生成版本号  pushd %DestDir%  echo %time% > time.tmp  for /f "delims=: tokens=1 " %%i in (time.tmp) do set Hour=%%i  del time.tmp  rem echo %hour%  echo %date% > date.tmp  for /f "tokens=1,2,3 delims=- " %%i in (date.tmp) do (  set Year=%%i  set Month=%%j  set Day=%%k  )  del date.tmp  rem 对year操作，只获取year的后两位  set Year=%Year:~-2,2%  rem echo %Year%%Month%%Day%  rem 生成版本号  set version\_str=%Hour%.%Day%.%Month%.%Year%  %GenVersionExe% version.dat %version\_str%  popd  rem ------------------------------------------------  rem ------------------------------------------------  rem 5.svm commit------------------------------  pushd %DestDir%  set desc="该版本由自动编译系统生成:%date% %time%"  svn commit -m %desc%  popd  rem  echo 完成构建  echo 完成构建>>build.log  rem copy build.log %DESTDIR%  pause |