

AutoIt and ScriptIt

Quick Reference

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Autolt

Introduction

AutoIt can be used to run some Windows application automatically. It feeds keystrokes and mouse movement from a script into an application. The software is free and can be obtained from:

www.hiddensoft.com/AutoIt/index.html

Script Example

```
=====
; AutoIt script
=====
Run, notepad.exe
WinWaitActive, Untitled -
Send, aAbBcCdDeEfF {!}"$%\%{^}&*( )_ - {+}=#{ENTER}
Sleep, 1000
Send, 12345678
Send, {BS 4}#{BACKSPACE 4}
Send, !{F4}
WinWaitActive, Notepad, save the changes?
Send, !n
WinWaitClose, Untitled - Notepad

denied:
Exit
```

Send Command Syntax

!	ALT key. E.g., send, !x will send Alt and x keys.
+	SHIFT key.
^	CONTROL key.
{!}	!
{#}	#
{+}	+
{^}	^
{ }	{
{ }	}
{SPACE}	SPACE

{ENTER}	ENTER
{ALT}	ALT
{BACKSPACE} or {BS}	BACKSPACE
{DELETE} or {DEL}	DELETE
{UP}	Cursor up
{DOWN}	Cursor down
{LEFT}	Cursor left
{RIGHT}	Cursor right
{HOME}	HOME
{END}	END
{ESCAPE} or {ESC}	ESCAPE
{INSERT} or {INS}	INS
{PGUP}	PGUP
{PGDN}	PGDN
{F1} - {F12}	Function keys
{TAB}	TAB
{PRINTSCREEN}	PRINTSCR
{LWIN}	Left Windows key
{RWIN}	Right Windows key
{NUMLOCK}	NUMLOCK
{CTRLBREAK}	Ctrl+break
{PAUSE}	PAUSE
{CAPSLOCK}	CAPSLOCK
{NUMPAD0} - {NUMPAD 9}	Numpad digits
{NUMPDMULT}	Numpad Multiply
{NUMPADADD}	Numpad Add
{NUMPADSUB}	Numpad Subtract
{NUMPADDIV}	Numpad Divide
{NUMPADDOT}	Numpad period
{APPSKEY}	Windows App key
{ALTDOWN}	Holds the ALT key down until {ALTUP} is sent
{SHIFTDOWN}	Holds the SHIFT key down until {SHIFTUP} is sent
{CTRLDOWN}	Holds the CTRL key down until {CTRLUP} is sent
{ASC n}	Send ASCII code n, e.g. {ASC 65} == A
\\	\
,	,
%	%

t	tab
n	newline
Send, {S 30}	repeat S 30 times.
Other Commands	
AdlibOn	enable/disable processing of the [ADLIB] section.
AdlibOff	section.
BlockInput, <on off>	disable both mouse and keyboard input (NT/2000)
Break, <on off>	whether or not the user can close AutoIt. Default Break, On
HideAutoItWin, <on off>	hide the AutoIt window and tray icon.
DetectHiddenText, <on off>	Some programs use hidden windows and hidden text on windows, default is "off".
Exit [, <exit code>]	End the script with optional code.
Repeat, n EndRepeat	Loop for n times.
Shutdown, <Flag>	Flag 0 Log off the current user 1 Shutdown the workstation 2 Reboot the workstation 4 Force closing of applications 8 Shutdown and power off (if supported).
EnvAdd, <Variable>, <Value>	
EnvSub, <Variable>, <Value>	
EnvMult, <Variable>, <Value>	
EnvDiv, <Variable>, <Value>	
Do +, -, *, / on integer environment variables.	
FileAppend, <Text>, <Filename>	
FileReadLine, <Variable>, <Filename>, <Line>	
FileSelectFile, <Filename Var>, <1 0> [, <Working Directory>]	
Append text to a file, read a line. Open file selection dialog box.	
Gosub, <label>	
Return	
Goto, <label>	
Call sub program or goto a lable and return.	
myloop:	
Sleep, 10	
Goto, myloop	
IniRead, <Variable>, <Filename>, <Section>, <Key>	
IniWrite, <Value>, <Filename>, <Section>, <Key>	
IniDelete, <Filename>, <Section>, <Key>	
Read key/value pair from an ".ini" file, e.g.,	
IniRead, result, c:\mypath\myfile.ini, mysection, mykey	

InputBox,<variable>, <title>, <message> [,hide]
MsgBox, <display mode>, <title>, <message>

Display an input box/Msgbox, return result in <variable>.

LeftClick, <x>, <y>
RightClick, <x>, <y>
LeftClickDrag, <x1>, <y1>, <x2>, <y2>
RightClickDrag, <x1>, <y1>, <x2>, <y2>
MouseGetPos, <x Variable>, <y Variable>
MouseMove, <x pos>, <y pos>

Mouse movement and click.

Random, <Output Variable>, <Min Value>, <Max Value>

Generate a random number. E.g.,
Random, output, 1, 200
MsgBox, 0, Result, %output%

RegRead, Variable, ValueType, RegKey, RegSubkey, ValueName
RegWrite, ValueType, RegKey, RegSubKey, ValueName, Value
RegDelete, RegKey, RegSubKey, ValueName

Registry manipulation.

Run, <Program path and name> [,<Working directory> [,<max | min | hide>]]
RunWait, <Program path and name> [,<Working directory> [,<max | min | hide>]]

Start an application.

Send, <Series of key presses>

Send keystrokes to the active Window.

StringCaseSense, <On | Off>
StringLeft, <Output Variable>, <Input Variable>, <Number of chars to extract>
StringRight, <Output Variable>, <Input Variable>, <Number of chars to extract>
StringMid, <Output Variable>, <Input Variable>, <Start char>, <Number of chars to extract>
StringLen, <Output Variable>, <Input Variable>
StringReplace, <Output Variable>, <Input Variable>, <Search String>, <Replace String>
StringGetPos, <Output Variable>, <Input Variable>, <Search Text>

String manipulation functions.

SetCapslockState, <on | off>
SetStoreCapslockMode, <on | off>
SetEnv, <variable>, <value>
SetKeyDelay, <milliseconds>
SetWinDelay, <Milliseconds>
SetTitleMatchMode, <mode>
Sleep, <milliseconds>
SplashTextOn, <Width>, <Height>, <Title>, <Message>
SplashTextOff
WinGetActiveStats, <Title Var>, <Width Var>, <Height Var>, <Xpos Var>, <Ypos Var>

WinMinimizeAll
WinMinimizeAllUndo
WinHide, <Window Title> [,<Window Text>]
WinShow, <Window Title> [,<Window Text>]
WinRestore, <Window Title> [,<Window Text>]
WinMinimize, <Window Title> [,<Window Text>]
WinMaximize, <Window Title> [,<Window Text>]
WinActivate, <Window Title> [,<Window Text>]
WinClose, <Window Title> [,<Window Text>]
WinSetTitle, <Window Title>, [Window Text], <New Title>
WinMove, <Window Title>, [Window Text], <X>, <Y>, <Width>, <Height>

Windows manipulation.

WinKill, <Window Title> [,<Window Text>]
WinWait, <Window Title> [,<Window Text> [,<Timeout>]]
WinWaitClose, <Window Title> [,<Window Text> [,<Timeout>]]
WinWaitActive, <Window Title> [,<Window Text> [,<Timeout>]]
WinWaitNotActive, <Window Title> [,<Window Text> [,<Timeout>]]

ScriptIt

Introduction

ScriptIt is a keystroke feeding program by Microsoft. It is can be downloaded from:
<http://www.microsoft.com/ntserver/techresources/deployment/NTserver/scriptit3.asp>

Script basic structure

```
[SCRIPT]  
run=command  
runwait=command  
WindowTitle=keystrokes  
WindowTitle<+text>=keystrokes  
mkfile filename.ext=fileline  
REM comment
```

```
[ADLIB]  
WindowTitle=keystrokes  
WindowTitle<+text>=keystrokes
```

Example

ScriptIt mystript.txt

The content of mystript.txt:

```
[SCRIPT]  
run=C:\winnt\system32\notepad.exe  
Untitled - Notepad=Hello World  
run=C:\winnt\system32\calc.exe  
Calculator=999*9=  
REM Just a simple calculation
```

```
run= <^> <@> fileName.ext  
runwait= <^> <@> fileName.ext
```

Start an application. if left quotation mark (") is the first character, run internal commands like "dir". @ use WinBench commands.

WindowTitle<+text>= <@> <^> <#> <-> keystrokes
send keystrokes to a windows with WindowTitle and optional text in the windows. use "scriptit /reveal" to find texts in the windows.
if left quotation mark (") is the first character, run internal commands like "dir". @ use WinBench commands. Two ## sign as 5 seconds delay.

~ is command, as follow

~exit	Exits the script immediately.
~wait	5 seconds delay, same as ##.
~winwaitactive	Wait till window active and then send keystrokes for example: Notepad=~winwaitactive#Hello
~winwaitclose	wait till window close, e.g., wait setup window finish, Setup=~winwaitclose
~winclose, ~winhide ~winshow, ~winmin ~winmax	manipulation the application windows.

Special keys

{~}	Sends a tilde (~).
{!}	Sends an exclamation point (!).
{^}	Sends a caret (^).
{+}	Sends a plus sign (+).
{ { }	Sends a left brace ({}).
{ } }	Sends a right brace ({}).
{ALT}	Sends an Alt keystroke.
{BACKSPACE} or {BS}	Sends a Backspace keystroke.
{CLEAR}	Clears the field.
{DELETE} or {DEL}	Sends a Delete keystroke.

{DOWN}	Sends a Down Arrow keystroke.
{END}	Sends an End keystroke.
{ENTER} or ~	Sends an Enter keystroke.
{ESCAPE} or {ESC}	Sends an Esc keystroke.
{F1} through {F16}	Sends the appropriate Function keystroke.
{HELP}	Sends a Help (F1) keystroke.
{HOME}	Sends a Home keystroke.
{INSERT} or {INS}	Sends an Insert keystroke.
{LEFT}	Sends a Left Arrow keystroke.
{PGDN}	Sends a Page Down keystroke.
{PGUP}	Sends a Page Up keystroke.
{RIGHT}	Sends a Right Arrow keystroke.
{SPACE} or {SP}	Sends a Spacebar keystroke.
{TAB}	Sends a Tab keystroke.
{UP}	Sends an Up Arrow keystroke.
!	ALT
^	CONTROL
+	SHIFT, To enter Ctrl+Shift+F7 type ^+{F7}
	Repeat a key, following the repeat time, e.g., {DOWN 8}
{+}, {-}	check/uncheck a check box.
mkfile filename.ext=fileline	
write a line to a file.	