NAME

winreg - text-based access to the Windows registry

SYNOPSIS

winreg [**-F** *FS*] [**-r** *name*] [**-ntvci**] [*key*]

DESCRIPTION

Winreg provides text-based access to the Windows registry. Running *winreg* with a registry key specified as part of its invocation will result in all the registry tree from that point downwards to be printed on its standard output. By default for every registry key *winreg* will print its name, type, and value. When *winreg* is run without specifying a registry key it will read registry data formatted in the same way as its default output format and set (update or create) the corresponding registry values.

The following lines describe the default registry data format read and written by *winreg* for each defined registry data type. *Winreg* will not process data types other than the ones described.

REG_BINARY

Winreg will print the word BINARY followed by the data bytes as character-separated two digit hexadecimal values.

REG_DWORD

Winreg will print the word DWORD followed by the value using eight hexadecimal digits.

REG_DWORD_BIG_ENDIAN

Winreg will print the word DWORD_BIG_ENDIAN followed by the value using eight hexadecimal digits. The value's digits are printed so as to represent a base16 number, i.e. the number 1 is printed as 00000001, not 00010000.

REG_QWORD

Winreg will print the word QWORD followed by the value using 16 hexadecimal digits.

REG_SZ

Winreg will print the word SZ followed by the value as a string with escape codes used for non-printable characters.

REG_MULTI_SZ

Winreg will print the word MULTI_SZ followed by the value as a string with escape codes used for non-printable characters.

REG_EXPAND_SZ

Winreg will print the word EXPAND_SZ followed by the value as a string with escape codes used for non-printable characters.

REG_NONE

Winreg will print the word NONE without any trailing data. A field separator will be printed.

REG_LINK

Winreg will print the word LINK followed by the data bytes as character-separated two digit hexadecimal values.

REG_RESOURCE_LIST

Winreg will print the word RESOURCE_LIST followed by the data bytes as character-separated two digit hexadecimal values.

REG_RESOURCE_REQUIREMENTS_LIST

Winreg will print the word RESOURCE_REQUIREMENTS_LIST followed by the data bytes as character-separated two digit hexadecimal values.

REG_FULL_RESOURCE_DESCRIPTOR

Winreg will print the word FULL_RESOURCE_DESCRIPTOR followed by the data bytes as character-separated two digit hexadecimal values.

 characters (as defined by the C *isprint* function) are represented using the sequence x followed by two digit hexadecimals.

A commonly used idiom involves processing Windows registry data as the output of *winreg* using Unix tools like *sed* and *awk* and redirecting their output back to the registry via *winreg*.

OPTIONS

-FFS Specify the field separator used to delimit fields (registry key name, type, value) on output. The default field separator is a tab.

–r name

Connect to the registry of the remote machine **name**, instead of the local registry. Data will be retrieved from and stored to the remote registry. Appropriate permissions must be established and services be running; see http://msdn.microsoft.com/library/default.%asp?url=/library/en-us/-sysinfo/base/regconnectregistry.asp. The name can be a Netbios name (*host*), a Netbios IP-address (*192.168.1.2*), a Netbios fully qualified domain name (*host*), or an Internet host fully qualified domain name (*host.company.com*).

- **-n** Do not print key names.
- -t Do not print key types.
- -v Do not print key values.
- -i Ignore errors returned by Windows registry operations. The error code will be printed on the standard output, but the program will attempt to continue processing.
- -d Output DWORD and binary data of 1, 2, and 4 bytes in decimal. This can be used to extract performance data (found under HKEY_PERFORMANCE_DATA) in a format that can be used by other analysis tools. Decimal output can not be parsed-back for setting registry values.
- -c Check input by parsing it and print any errors found. No registry keys will be created or modified.

EXAMPLE

winreg -nt HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\ComputerName\ComputerName Name

will display a machine's name.

winreg HKEY_CURRENT_USER | sed -n 's,C:/home,D:/home,gp' | winreg Change all user registry references from c:/home to d:/home.

winreg -r \\pooh HKEY_LOCAL_MACHINE\Software\Netscape | winreg -r \\piglet Copy the Netscape machine-specific software settings from the registry of the machine *poo* to the registry of the machine *piglet*.

SEE ALSO

D. Spinellis. Outwit: Unix tool-based programming meets the Windows world. In *USENIX 2000 Technical Conference Proceedings*, pages 149-158, San Diego, CA, USA, June 2000, USENIX Association. Microsoft Corporation. *Microsoft Windows NT Server 4.0 Resource Kit*. Microsoft Press. Ron Petrusha and Andrew Schulman. *Inside the Windows 95 Registry*. O'Reilly & Associates.

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BUGS

Although reasonable care has been taken to make *winreg* work with many possible types of registry data, note that incorrect operation by *winreg* or inappropriate registry data manipulations can render a machine unusable.

At least under Windows 2000 SP2, a failed remote connection is not correctly reported by the Windows API, and may cause the program to display wrong data or silently fail.