

Python Programming On Win32 Help For Windows Programmers

Fork bomb

285. ISBN 0-07-061194-7. Hammond, Mark (2000). Python Programming On Win32: Help for Windows Programmers. O'Reilly Media, Inc. p. 35. ISBN 1565926218.

A fork bomb (also called rabbit virus or hydra virus) is a denial-of-service (DoS) attack against a computer where a process continually replicates itself to deplete available system resources, slowing down or crashing the system due to resource starvation.

== History ==

Around 1978, an early variant of a fork bomb called Wabbit was reported to run on a System/360. It may have descended from a similar attack called RABBITS reported from 1969 on a Burroughs 5500 at the University of Washington.

Since 2011, Linux has a default nproc limit that can be listed with ulimit -u to mitigate fork bombs and related issues.

Windows Runtime

is implemented in the programming language C++ and is object-oriented by design. Its underlying technology, the Windows API (Win32 API), is written mostly

Windows Runtime (WinRT) is a platform-agnostic component and application architecture first introduced in Windows 8 and Windows Server 2012 in 2012. It is implemented in C++ and officially supports development in C++ (via C++/WinRT, C++/CX or WRL), Rust/WinRT, Python/WinRT, JavaScript-TypeScript, and the managed code languages C# and Visual Basic (.NET) (VB.NET).

WinRT is not a runtime in a traditional sense but rather a language-independent application binary interface based on COM to allow object-oriented APIs to be consumed from multiple languages, with services usually provided by a full-blown runtime, such as type activation. That is, WinRT is an "API delivery system". Apps using the Windows Runtime may run inside a sandboxed environment to allow greater security and stability and can natively support both x86

and ARM. WinRT components are designed with interoperability among multiple languages and APIs in mind, including native, managed and scripting languages. Built-in APIs provided by Windows which use the WinRT ABI are commonly known as WinRT APIs; however, anyone can use the WinRT ABI for their own APIs.

== Technology ==

WinRT is implemented in the programming language C+...

Tiling window manager

used by stacking window managers, which allow the user to drag windows around, instead of windows snapping into a position. This allows for a different style

In computing, a tiling window manager is a window manager with the organization of the screen often dependent on mathematical formulas to organise the windows into a non-overlapping frame. This is opposed to the more common approach used by stacking window managers, which allow the user to drag windows around, instead of windows snapping into a position. This allows for a different style of organization, although it departs from the traditional desktop metaphor.

== History ==

CryptGenRandom

number generator function that is included in Microsoft CryptoAPI. In Win32 programs, Microsoft recommended its use anywhere random number generation is

CryptGenRandom is a cryptographically secure pseudorandom number generator function that is included in Microsoft CryptoAPI. In Win32 programs, Microsoft recommended its use anywhere random number generation is needed (it has since been replaced by BCryptGenRandom, see below). The kernel32 equivalent is RtlGenRandom.

A 2007 paper from Hebrew University suggested security problems in the Windows 2000 implementation of CryptGenRandom (assuming the attacker has control of the machine). Microsoft later acknowledged that the same problems exist in Windows XP, but not in Vista. Microsoft released a fix for the bug with Windows XP Service Pack 3 in mid-2008.

CryptGenRandom is deprecated as it belongs to the deprecated Windows CryptoAPI. The modern Cryptography API: Next Generation (CNG) replacement is BCryptGenRandom (and the underlying functions ProcessPrng and SystemPrng).

== Background ==

The Win32 API includes comprehensive support for cryptography through the Microsoft CryptoAPI, a set of cryptographic primitives provided by Microsoft for use in Windows applications. Windows technologies such as TLS support (via the Schannel API) and code signing rely on these primitives, which in turn...

Thread (computing)

interface for portable multithreaded programming across a variety of Unix-like operating systems. Since then, pthreads has also been implemented on Windows with

In computer science, a thread of execution is the smallest sequence of programmed instructions that can be managed independently by a scheduler, which is typically a part of the operating system. In many cases, a thread is a component of a process.

The multiple threads of a given process may be executed concurrently (via multithreading capabilities), sharing resources such as memory, while different processes do not share these resources. In particular, the threads of a process share its executable code and the values of its dynamically allocated variables and non-thread-local global variables at any given time.

The implementation of threads and processes differs between operating systems.

== History ==

API

types of programming, not just application programming. By 1990, the API was defined simply as "a set of services available to a programmer for performing

An application programming interface (API) is a connection between computers or between computer programs. It is a type of software interface, offering a service to other pieces of software. A document or standard that describes how to build such a connection or interface is called an API specification. A computer system that meets this standard is said to implement or expose an API. The term API may refer either to the specification or to the implementation.

In contrast to a user interface, which connects a computer to a person, an application programming interface connects computers or pieces of software to each other. It is not intended to be used directly by a person (the end user) other than a computer programmer who is incorporating it into software. An API is often made up of different parts which act as tools or services that are available to the programmer. A program or a programmer that uses one of these parts is said to call that portion of the API. The calls that make up the API are also known as subroutines, methods, requests, or endpoints. An API specification defines these calls, meaning that it explains how to use or implement them.

One of the main purpose of APIs is...

Free Pascal

March 2011[update]. Library support for ActiveX was also improved. Another major feature was the internal linker for Win32, Win64, and Windows CE, which greatly improved

Free Pascal Compiler (FPC) is a compiler for the closely related programming-language dialects Pascal and Object Pascal. It is free software released under the GNU General Public License, with exception clauses that allow static linking against its runtime libraries and packages for any purpose in combination with any other software license.

It supports its own Object Pascal dialect, as well as the dialects of several other Pascal family compilers to a certain extent, including those of Borland Pascal (named "Turbo Pascal" until the 1990 version 6), Borland (later Embarcadero) Delphi, and some historical Macintosh compilers. The dialect is selected on a per-unit (module) basis, and more than one dialect can be used per program.

It follows a write once, compile anywhere philosophy and is available for many CPU architectures and operating systems (see Targets). It supports inline assembly language and includes an internal assembler capable of parsing several dialects such as AT&T and Intel style.

There are separate projects to facilitate developing cross-platform graphical user interface (GUI) applications, the most prominent one being the Lazarus integrated development environment (IDE...

HiAsm

(IDE) for Windows API (Win32), Qt, wxWidgets, scripts and pages in PHP, HTML, and JavaScript, in addition to applications for devices based on Windows Mobile

HiAsm (Hight Assembler) (Russian: ХаЙ-асм) is a free application integrated development environment (IDE) for Windows API (Win32), Qt, wxWidgets, scripts

and pages in PHP, HTML, and JavaScript, in addition to applications for devices based on Windows Mobile, such as the Pocket PC PDA.

HiAsm is a practical example of the implementation of the approach model-driven architecture, also known as "the development of the model". The significance of this approach is abstracted from the platforms, architectures, hardware vendors, and system software.

When designing, users need no knowledge of programming languages and operating system features, thus allowing users to create applications by controlling their model using an intuitive graphical interface.

== Packages ==

HiAsm has supplementary packages you can use for certain kinds of applications.

C (programming language)

C is a general-purpose programming language created in 1972 by Dennis Ritchie. By design, C gives programmers relatively direct access to the features

C is a general-purpose programming language created in 1972 by Dennis Ritchie. By design, C gives programmers relatively direct access to the features of typical CPU architectures, customized for the target instruction set. It has been and continues to be used to implement operating systems (especially kernels), device drivers, and protocol stacks, though its use in application software is decreasing. C is used on computers ranging from supercomputers to microcontrollers and embedded systems.

C was initially developed as a successor to the B programming language at Bell Labs by Ritchie between 1972 and 1973. Its initial purpose was to construct utilities running on Unix, and was later applied to re-implementing the kernel of the Unix operating system. During the 1980s, C gradually gained popularity, leading to it becoming one of the most widely used programming languages, with C compilers available for practically all modern computer architectures and operating systems. The book *The C Programming Language*, co-authored by the original language designer, served for many years as the de facto standard for the language. C has been standardized since 1989 by the American National Standards...

Eric Idle

Learning Python, p. 40. O'Reilly Media, Inc. ISBN 0-596-00281-5. Hammond, Mark & Robinson, Andy (2000). Python Programming On Win32: Help for Windows Programmers

Eric Idle (born 29 March 1943) is an English actor, comedian, songwriter, musician, screenwriter and playwright. He was a member of the British comedy

group Monty Python and the parody rock band the Rutles. Idle studied English at Pembroke College, Cambridge, and joined Cambridge University Footlights. He has received a Grammy Award as well as nominations for two Tony Awards.

Idle reached stardom in the 1970s when he co-created and acted in the Python sketch comedy series Flying Circus (1969-1974) and the films Holy Grail (1975), Life of Brian, (1979) and The Meaning of Life (1983) with Graham Chapman, John Cleese, Terry Gilliam, Terry Jones, and Michael Palin. Known for his elaborate wordplay and musical numbers, Idle composed and performed many of the songs featured in Python projects, including "Always Look on the Bright Side of Life".

After Flying Circus ended, Idle created another sketch show Rutland Weekend Television (1975-1976), and hosted Saturday Night Live four times (1976-1979). He also acted in films such as National Lampoon's European Vacation (1985), The Transformers: The Movie (1986), The Adventures of Baron Munchausen (1988), Nuns on the Run (1990), Splitting Heirs...

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