

# Microsoft Visual C

Iraqi block cipher

*Mode Source code of the Iraqi block cipher ECB Mode Source code for Microsoft Visual C++ 5.0 ECB Mode Compiled code (Console Application) ECB Mode Source*

In cryptography, the Iraqi block cipher was a block cipher published in C source code form by anonymous FTP upload around July 1999, and widely distributed on Usenet. It is a five round unbalanced Feistel cipher operating on a 256 bit block with a 160 bit key.

The source code shows that the algorithm operates on blocks of 32 bytes (or 256 bits). That's four times larger than DES or 3DES (8 bytes) and twice as big as Twofish or AES (16 bytes). It also shows that the key size can vary from 160 to 2048 bits.

A detailed analysis of the source code of the algorithm shows that it uses a 256-byte S-Box that is key-dependant (as on Blowfish, it uses a first fixed S table that will generate, with the key, the second S-Box used for encryption/decryption). The algorithm also uses a 16-column x 16-row P-Box, which is also key-dependent and also initialized from a fixed P table. Each round uses one row from P-Box and 16 columns, which means that the algorithm can use up to 16 rounds.

A comment suggests that it is of Iraqi origin. However, like the S-1 block cipher, it is generally regarded as a hoax, although of lesser quality than S-1. Although the comment suggests that it is Iraqi in origin, all comments, variable and function names and printed strings are in English rather than Arabic; the code is fairly inefficient (including some pointless operations), and the cipher's security may be flawed (no proof).

Because it has a constant key schedule the cipher is vulnerable to a slide attack. However, it may take 264 chosen texts to create a single slid pair, which would make the attack unfeasible. It also has many fixed points, although that is not necessarily a problem, except possibly for hashing modes. No public attack is currently available. As with S-1, it was David Wagner who first spotted the security flaws.

Technical features new to Windows Vista

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Windows Vista (formerly codenamed Windows "Longhorn") has many significant new features compared with previous Microsoft Windows versions, covering most aspects of the operating system.

In addition to the new user interface, security capabilities, and developer technologies, several major components of the core operating system were redesigned, most notably the audio, print, display, and networking subsystems; while the results of this work will be visible to software developers, end-users will only see what appear to be evolutionary changes in the user interface.

As part of the redesign of the networking architecture, IPv6 has been incorporated into the operating system, and a number of performance improvements have been introduced, such as TCP window scaling. Prior versions of Windows typically needed third-party wireless networking software to work properly; this is no longer the case with Windows Vista, as it includes comprehensive wireless networking support.

For graphics, Windows Vista introduces a new as well as major revisions to Direct3D. The new display driver model facilitates the new Desktop Window Manager, which provides the tearing-free desktop and special effects that are the cornerstones of the Windows Aero graphical user interface. The new display

driver model is also able to offload rudimentary tasks to the GPU, allow users to install drivers without requiring a system reboot, and seamlessly recover from rare driver errors due to illegal application behavior.

At the core of the operating system, many improvements have been made to the memory manager, process scheduler, heap manager, and I/O scheduler. A Kernel Transaction Manager has been implemented that can be used by data persistence services to enable atomic transactions. The service is being used to give applications the ability to work with the file system and registry using atomic transaction operations.

## Opera Mini

*6600 slide, 7373, 8800 Arte, Nokia C2-01, Nokia C3, E65, N71, N73, N95 and other S40 and S60 phones. Microsoft and HMD Nokia/HMD phones with a preinstalled*

Opera Mini is a mobile web browser made by Opera. It was primarily designed for the Java ME platform, as a low-end sibling for Opera Mobile, but as of January 2025 only the Android and Mocom OS builds were still under active development. It had previously been developed for iOS, Windows 10 Mobile, Windows Phone 8.1, BlackBerry, Symbian, and Bada.

Opera Mini requests web pages through Opera Software's compression proxy server. The compression server processes and compresses requested web pages before sending them to the mobile phone. The compression ratio is 90% and the transfer speed is increased by two to three times as a result. The pre-processing increases compatibility with web pages not designed for mobile phones. However, interactive sites which depend upon the device processing JavaScript do not work properly.

In July 2012, Opera Software reported that Opera Mini had 168.8 million users as of March 2012. In February 2013, Opera reported 300 million unique Opera Mini active users and 150 billion page views served during that month. This represented an increase of 25 million users from September 2012.

## CPUID

*correct request, it will return a non-zero value, if it fails, zero. Microsoft Visual C compiler has builtin function `__cpuid()` so the cpuid instruction may*

In the x86 architecture, the CPUID instruction (identified by a CPUID opcode) is a processor supplementary instruction (its name derived from "CPU Identification") allowing software to discover details of the processor. It was introduced by Intel in 1993 with the launch of the Pentium and late 486 processors.

A program can use the CPUID to determine processor type and whether features such as MMX/SSE are implemented.

## Technological and industrial history of 20th-century Canada

*1973, Anik A3 – 1975, Anik B – 1978, Anik D1 – 1982, Anik C3 – 1982, Anik C2 – 1983, Anik D2 – 1984, Anik C1 – 1985, Anik E2 – 1991, Anik E1 – 1991, MSAT*

The technological and industrial history of Canada encompasses the country's development in the areas of transportation, communication, energy, materials, public works, public services (health care), domestic/consumer and defence technologies.

The terms chosen for the "age" described below are both literal and metaphorical. They describe the technology that dominated the period of time in question but are also representative of a large number of other technologies introduced during the same period. Also of note is the fact that the period of diffusion of a technology can begin modestly and can extend well beyond the "age" of its introduction. To maintain continuity, the treatment of its diffusion is dealt with in the context of its dominant "age".

Technology is a major cultural determinant, no less important in shaping human lives than philosophy, religion, social organization, or political systems. In the broadest sense, these forces are also aspects of technology. The French sociologist Jacques Ellul defined la technique as the totality of all rational methods in every field of human activity so that, for example, education, law, sports, propaganda, and the social sciences are all technologies in that sense. At the other end of the scale, common parlance limits the term's meaning to specific industrial arts.

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