

**ГЛОСАРІЙ ТА АНГЛО-УКРАЇНСЬКИЙ СЛОВНИК  
ТЕХНІЧНИХ ТЕРМІНІВ З КОМП'ЮТЕРНОЇ ТЕХНІКИ**

Міністерство освіти і науки України  
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## **ГЛОСАРІЙ ТА АНГЛО-УКРАЇНСЬКИЙ СЛОВНИК ТЕХНІЧНИХ ТЕРМІНІВ З КОМП'ЮТЕРНОЇ ТЕХНІКИ**

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Глосарій та англо-український словник технічних термінів з комп'ютерної техніки призначений для широкого кола фахівців з комп'ютерної інженерії, комп'ютерних технологій та програмування.

Довідник призначений для студентів, які вивчають курс "Термінознавство" англійською мовою, а також буде корисним при написанні бакалаврських робіт.

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## INTRODUCTION

The development of international relations has become reality of international relations has become reality nowadays. Those, who want to prosper, cannot do without English.

One of the major problems students face in non-English speaking country is an enormous quantity of information they can find in specialized magazines, newspapers, and Internet, and the difficulty of understanding this information without knowledge of the specialized terms in this or that field.

This book consists of the “Glossary of Computer Terms”, English-Ukrainian vocabulary.

The English-Ukrainian vocabulary of computer terms helps understand and translate the terms which are necessary when dealing with computers, reading and translating newspapers, magazines, books about computers and programming, developing the projects, conducting a research work, etc.

The glossary of computer terms, on the one hand, contains the most of computer terms, on the other hand, gives explanations of the terms in English, if anybody doesn't understand them. It helps master computer terms. The glossary of computer terms is an integral part of the course “Terminology”. There are references to this glossary in every chapter of this textbook.

The book may be useful for those studying computer sciences, computer engineering, computer technologies, programming, etc., and just for those dealing with computers.

## GLOSSARY OF COMPUTER TERMS

**Algorithm** A set of well-defined instructions for the solution of a problem in a finite number of steps.

**4-bit binary coded decimal (BCD)** A computer code that uses 4-bit groupings to represent digits in decimal numbers.

**6-bit binary coded decimal** A data representation scheme that is used to represent the decimal digits 0 through 9, the letters A through Z, and 28 special characters.

**Access mechanism** The physical device that positions the read/write head of a direct-access device over a particular track.

**Accounting machine** Mechanically operated forerunner of the computer; could read data from punched cards, perform calculations, rearrange data, and print results in varied formats.

**Acoustic coupler modem** A device used in telecommunications that is attached to a computer by a cable and that connects to a telephone when a standard contoured telephone receiver is placed on two rubber cups that are built into the device.

**Activity** The proportion of records processed during an update run.

**Address** A unique identifier assigned to each memory location within primary storage.

**American Standard Code for Information Interchange (ASCII)** A 7-bit standard code used for information interchange among data-processing systems, communication systems, and associated equipment.

**Analog computer** A computer that measures continuous electrical or physical conditions rather than operating on digits; contrast with digital computer.

**Analog transmission** Transmission of data over communication channels in a continuous wave form.

**Analytical engine** Machine designed by Charles Babbage, capable of addition, subtraction, multiplication, division, and storage of intermediate results in a memory unit; too advanced for its time, the analytical engine was forgotten for nearly one hundred years.

**APL (A Programming Language)** A terminal-oriented, symbolic programming language especially suitable for interactive problem solving.

**Application program** A sequence of instructions written to solve a specific user problem.

**Arithmetic/logic unit (ALU)** The section of the processor or CPU that handles arithmetic computations and logical operations.

**Artificial intelligence (AI)** Field of research currently developing techniques whereby computers can be used to solve problems that appear to require imagination, intuition, or intelligence.

**ASCII-8** An 8-bit version of ASCII developed for computers that require 8-bit, rather than 7-bit codes.

**Assembler program** Translator program for an assembly language program; produces a machine language program (object program); also called assembler.

**Assembly language** Lower-level, symbolic programming language that uses abbreviations rather than groupings of Os and Is.

**Atanasoff-Berry Computer (ABC)** First electronic digital computer; developed by John Vincent Atanasoff and Clifford Berry.

**Automatic data processing (ADP)** The collection, manipulation, and dissemination of data by electromechanical machines to attain specified objectives.

**Automatic teller machine (ATM)** Remote terminal that allows bank customers to make transactions with the bank's central computer; user can check account balances, transfer funds, make deposits, withdrawals, and loan payments.

**Back-end processor** A small CPU serving as an interface between a large CPU and a large data base stored on a direct-access storage device.

**Bandwidth** Also known as grade; the range, or width, of the frequencies available for transmission on a given channel.

**Bar-code reader** A device used to read a bar code by means of reflected light, such as a scanner that reads the Universal Product Code on supermarket products.

**BASIC (Beginners' All-purpose Symbolic Instruction Code)** A high-level programming language commonly used for interactive problem solving by users who may not be professional programmers.

**Batch file access** An access method in which all transactions are accumulated for a given period of time and then processed all at once.

**Batch processing** A method of processing data in which data items are collected and forwarded to the computer in a group.

**Baud** A unit used to measure transmission speeds.

**Binary number system** Number system used in computer operations that uses the digits 0 and 1 and has a base of 2; corresponds to the two possible states in machine circuitry-"on" and "off."

**Binary representation** Use of a two-state, or binary, system to represent data; as in setting and resetting the electrical state of semiconductor memory to either 0 or 1.

**Biochip** In theory, a chip whose circuits will be built from the proteins and enzymes of living matter such as *E. coli* bacteria.

**Bit (short for Binary digit)** The smallest unit of information that can be represented in binary notation.

**Bit cells** The name for storage locations in semiconductors.

**Blocks** Also called blocked records; records grouped on magnetic tape or magnetic disk to reduce the number of interrecord gaps and more fully utilize the storage medium.

**Branch** Program logic used to bypass or alter the normal flow of execution.

**Broad-band channels** Communication channels that can transmit data at rates of up to 120,000 bits per second; for example, laser beams and microwaves.

**Bubble memory** A memory medium in which data is represented by magnetized spots (magnetic domains) resting on a thin film of semiconductor material.

**Bundled** A way of selling computers in which the price includes training, maintenance costs, software, and other related products and services.

**Bus configuration** A local area network (LAN) in which multiple stations connected to a communication cable can communicate directly with any other station on the line.

**Byte** A fixed number of adjacent bits operated on as a unit.

**C** A programming language that approaches assembly language in the efficiency of its object code, yet offers some of the same features of high-level language; sometimes referred to as a middle-level language.

**Cache memory** Also known as a high-speed buffer; a working buffer or temporary area used in primary storage to help speed the execution of a program.

**Calculate** To manipulate data by arithmetic or logical processes.



**Capacitor** The device that holds the electrical charge within a bit cell of semiconductor memory.

**Cathode ray tube (CRT)** A visual display device that receives electrical impulses and translates them into a picture on a televisionlike screen.

**Cell** The unique location within an electronic spreadsheet where a row and a column intersect.

**Central processing unit (CPU)** Acts as the "brain" of the computer; composed of three sections—arithmetic/logic unit (ALU), control unit and primary storage unit.

**Centralized design** An information structure in which a separate data-processing department is used to provide data-processing facilities for the entire organization.

**Chain** The logical path linking records according to one common field.

**Chain printer** An output device that has the character set engraved in type and assembled in a chain that revolves horizontally past all print positions; prints when a print hammer (one for each column of the paper) presses the paper against an inked ribbon that presses against the characters on the print chain.

**Charge-coupled device (CCD)** A storage device made of silicon; nearly 100 times faster than bubble memory devices.

**Check digit** An additional bit determined by performance of some calculation on the code; used to catch input errors.

**Chief programmer team (CPT)** A method of organization and evaluation used in managing system projects by which a chief programmer supervises the programming and testing of program modules; programmer productivity and program reliability are increased.

**Classify** To categorize data according to certain characteristics so that they are meaningful to the user.

**Clock speed** The number of electronic pulses a microprocessor can produce each second.

**COBOL (COmmon Business-Oriented Language)** A high-level programming language generally used for accounting and business data processing.

**Code** To translate data into machine-readable form so they can be entered into the computer system.

**Collect** To gather data from various sources and assemble them at one location.

**Command area** The area at the bottom of some electronic spreadsheets that displays the available commands to the user.

**Commercial data base** A collection of information accessible over communication lines to paying subscribers; also called information service and information utility.

**Communicate** To transfer information in intelligible form to a user.

**Communication channel** A medium for carrying data from one location to another.

**Communication software** Programs that assist in the transfer of data across communication channels by "tricking" a computer into acting as if a microcomputer terminal is part of that system; also called terminal software.

**Compatibility** The ability to use equipment or software produced by one manufacturer on a computer produced by another manufacturer.

**Compatible** Descriptive of hardware and/or software that can work together.

**Compiler program** Translator program for a high-level language such as FORTRAN or COBOL; translates source-program statements into machine-executable code; also called compiler.

**Computer** General-purpose electronic machine with applications limited only by the creativity of the humans who use it; its power is derived from its speed, accuracy, and memory.

**Computer crime** Criminal act that poses a threat to those who use computers or is accomplished by using a computer.

**Computer ethics** Term referring to the standard of moral conduct in computer use; way in which the spirit of the law is applied to computer-related activities.

**Computer literacy** General knowledge about computers; includes some technical knowledge about hardware and software, the ability to use computers to solve problems, and awareness of how computers affect society.

**Computer output microfilm (COM)** Miniature digitized photographic images of output placed on magnetic tape, which serves as input to a microfilm processor.

**Computer security** The technical and administrative safeguards required to protect a computer-based system against physical and nonphysical hazards.

**Computer store** A retail store that sells microcomputers and is structured to meet the needs of small business and personal computer owners.

**Computer-aided design (CAD)** Process of designing, drafting, and analyzing a prospective product using computer graphics on a video terminal.

**Computer-aided manufacturing (CAM)** Use of a computer to simulate or monitor the steps of a manufacturing process.

**Computer-assisted instruction (CAI)** Use of a computer to instruct or drill a student on an individual or small-group basis.

**Computerized axial topography (CT or CAT scanning)** Form of noninvasive physical testing that combines X-ray techniques and computers to aid diagnosis.

**Concentrator** A device that systematically allocates the use of communication channels among several terminals.

**Control program** A routine, usually part of an operating system, that helps control the operations and management of a computer system.

**Control unit** The section of the CPU that directs the sequence of operations by electrical signals and governs the actions of the various units that make up the computer.

**Convert** To translate information into a form people can read.

**Coprocessor** A microprocessor that can be plugged into a microcomputer to replace or work with the microcomputer's original microprocessor.

**Counter** A value in a program that indicates the number of times a loop is to be executed; the value is tested each time the loop is executed and when the stated value is reached, the loop is terminated.

**Crash conversion** Also known as direct conversion; a system implementation approach in which the old system is completely abandoned and the new one implemented at once.

**Cursor** A flashing character on a computer display screen that shows where the next typed character will appear.

**Daisy-wheel printer** An output device resembling an office typewriter; it employs a flat disk with petal-like projections with characters on the surfaces; printing occurs one character at a time.

**Data** Facts; the raw material of information.

**Data base** Collection of data that are commonly defined and consistently organized to fit the information needs of a wide variety of users in an organization.

**Data communication** The electronic transmission of data from one site to another usually over communication channels such as telephone/telegraph lines or microwaves.

**Data processing** A systematic set of procedures for collecting, manipulating, and disseminating data to achieve specified objectives.

**Data structures** The relationships between the data elements in a computer file.

**Data-base analyst** The person responsible for the analysis, design, and implementation of the data base.

**Data-base management system (DBMS)** A set of programs that serves as the interface between the data base and the programmer, operating system, and users.

**Data manager/data-management package** An application software package that computerizes the everyday tasks of recording and filing information.

**Decimal number system** A number system based on the powers of 10.

**Demodulation** The process of retrieving data from a modulated carrier wave.

**Difference engine** Machine designed by Charles Babbage in 1822 to compute mathematical tables with results up to five significant digits in length (In Babbage's time, the word *engine* meant invention).

**Digital computer** Type of computer commonly used in business applications; operates on distinct data (for example, digits) by performing arithmetic and logic processes on specific data units.

**Digital transmission** The transmission of data as distinct "on"/"off" pulses.

**Direct-connect modem** A device used in telecommunications that is attached to a computer by a cable and which connects directly to a telephone line by plugging into a standard phone jack.

**Distributed data processing (DDP) system** A system in which data processing is done at a site other than that of the central computer.

**Decentralized design** An information structure in which the authority and responsibility for computer support are placed in relatively autonomous organizational operating units.

**Decision logic table (DLT)** A table that depicts the logic used to arrive at a particular decision given a certain set of circumstances.

**Decision support system (DSS)** An information system that provides information used to support unstructured managerial decision making.

**Distributed data processing (DDP) system** A system in which data processing is done at a site other than that of the central computer.

**Dedicated word-processing system** A computer system designed solely for word processing.

**Deletion** A feature of a program that allows removal of characters, data, words, sentences, or blocks of text.

**Distributed design** An information structure in which independent operating units have some data-processing facilities but there is still central control and coordination of computer resources.

**Debugging** The process of locating, isolating, and resolving errors within a program.

**Document-oriented word processor** A word processor that treats a text file as a single document, rather than as a series of pages.

**Desk-checking** A method used in both system and application program debugging in which the sequence of operations is mentally traced to verify the correctness of the processing logic.

**Detail diagram** Diagram used in HIPO to describe the specific function performed and data items used in a module.

**Direct access** Method of processing in which data are submitted to the computer as they occur, and located, retrieved, and updated without reading all preceding data.

**Direct access storage** A method of storing data whereby the data can be retrieved in any order, at random.

**Direct-access file design** Records are organized in a file in any order, with record keys providing the only way to access data.

**Direct-access storage device (DASD)** Auxiliary storage device that allows data to be stored and accessed either randomly or sequentially.

**Directory** Contains record keys and their corresponding addresses; used to obtain the address of a record with a direct-access file design.

**Disk address** The method used to uniquely identify a data record on a magnetic disk; consists of the disk surface number, the track number, and the record number.

**Disk drive** The mechanical device used to rotate a disk pack during data transmission; speeds can reach 3,600 revolutions per minute.

**Disk pack** A stack of magnetic disks.

**Dot-matrix printer** A type of impact printer that creates characters through the use of dot-matrix patterns; also called wire-matrix printer.

**Drum printer** An output device consisting of a metal cylinder that contains rows of characters engraved across its surface; one line of print is produced with each rotation of the drum.

**Dumb terminal** A terminal that cannot be programmed.

**Dummy module** A temporary program module inserted at a lower level to facilitate testing of the higher-level modules; used in top-down design to enable higher-level program modules to be coded prior to completion of lower-level modules.

**Downtime** The time a system is not working because of equipment problems.

**Electronic mail** Transmission of messages at high speeds over telecommunication facilities.

**Electronic spreadsheet** An electronic ledger sheet used to store and manipulate any type of numerical data.

**ED VAC (Electronic Discrete Variable Automatic Computer)** A stored-program computer developed at the University of Pennsylvania.

**EDSAC (Electronic Delay Storage Automatic Computer)** Developed in England; the first stored-program computer.

**Electronic data processing (EDP)** Data processing performed largely by electronic equipment, such as computers, rather than by manual or mechanical methods.

**Electronic funds transfer (EFT)** Cashless method of managing money; accounts involved in a transaction are adjusted by electronic communication between computers.

**Electronic mail** Transmission of messages at high speeds over telecommunication facilities.

**Electrostatic printer** A nonimpact printer in which electromagnetic impulses and heat are used to affix characters to paper.

**Electrothermal printer** A nonimpact printer that uses special heat-sensitive paper; characters are formed when heated rods in a matrix touch the paper.

**ENIAC (Electronic Numerical Integrator And Calculator)** First general-purpose electronic digital computer; developed by John W. Mauchly and J. Presper Eckert Jr. at the University of Pennsylvania.

**EPROM (Erasable Programmable Read-Only Memory)** A form of read-only memory that can be erased and reprogrammed, but only by being submitted to a special process such as exposure to ultraviolet light.

**Even parity** A method of coding in which an even number of 1 bits represent each character; used to detect errors.

**Extended Binary Coded Decimal Interchange Code (EBCDIC)** An 8-bit code for character representation.

**Expert system** Form of artificial intelligence software that imitates the same decision-making processes of experts on a specific field.

**File handler** A data-management application package capable of operating on only one file at a time.

**Front-end processor** A small CPU serving as an interface between a large CPU and peripheral devices.

**Feedback** A check within a system to see whether predetermined goals are being met.

**Field** A meaningful item of data, such as a social security number or a person's name.

**File** A grouping of related records, such as all student records; sometimes referred to as a data set.

**First-generation computers** Computers that used vacuum tubes; developed in the 1950s; much faster than earlier mechanical devices, but very slow in comparison to today's computer.

**Fixed scanner** An input device used to scan and read source data in bar-code form or in human-readable form.

**Fixed-length records** A record format in which a maximum number of character positions are assigned.

**Flexible disk** A low-cost, random-access form of data storage made of plastic; a flexible magnetic disk currently made in 3 1/2, 5 1/4, and 8-inch diameter sizes; also called diskette or floppy disk.

**Fourth-generation computers** Computers that use chips made by large-scale integration and offer significant price and performance improvements over earlier computers.

**Family of computers** Mainframes of differing sizes built by the same manufacturer and having the same processor.

**FORTH** A middle-level programming language that offers advantages of assembly language and high-level languages.

**FORTRAN (FORmuLa TRANslator)** A high-level programming language used primarily for programming mathematical, scientific, or engineering operations.

**Front-end processor** A small CPU serving as an interface between a large CPU and peripheral devices.

**Flexibility** The degree to which a computer system can be adapted or tailored to the changing requirements of the user.

**Flowchart** A graphic representation in which symbols represent the flow, operations, logic, data, and equipment of a program or system; a program flowchart illustrates the structure and sequence in a program and a system flowchart illustrates the components and the flow of data through an entire system; also called a block diagram or logic diagram.

**Flowlines** The lines that connect flowchart symbols.

**Fiber optics** A data transmission concept using laser pulses and cables made of tiny threads of glass that can transmit huge amounts of data at the speed of light.

**Full-duplex** A type of communication channel through which data can be transmitted in both directions simultaneously.

**Fully distributed network configuration** A network design in which every set of nodes in the network can communicate directly with every other set of nodes through a single communication link.

**Feedback** A check within a system to see whether predetermined goals are being met.

**Gallium arsenide chip** A chip made with gallium arsenide, a material that requires lower voltage, generates less heat, and operates much faster than computer chips made from silicon.

**Garbage in-garbage out** Phrase illustrating the fact that the meaningfulness of computer output relies on the accuracy or relevancy of the data fed into the processor.



**General-purpose computers** Computers that can be used for a variety of purposes.

**Graphic display device** A visual display device that projects output in the form of graphs and line drawings and accepts input from a keyboard or light pen.

**Graphics tablet** A flat board-like object, that when drawn on, transfers the image to a computer screen.

**Graphics software package** Application software package designed to allow the user to display images on the display screen or printer.

**Grid chart** A chart used in system analysis to summarize the relationships between the components of a system.

**Half-duplex** A type of communication channel through which data can be transmitted in both directions, but in only one direction at a time.

**Holler plating** Placing the same word, phrase, or block of text in several documents.

**Hierarchical design** An information structure in which each level within an organization has necessary computer power; responsibility for control and coordination goes to the top level.

**Hard copy** Printed output.

**Hardware** Physical components that make up a computer system.

**Hexadecimal number system** A base 16 number system commonly used when printing the contents of primary storage to aid programmers in detecting errors.

**Hierarchical data structure** Also called tree structure; the data structure in which one primary data element may have numerous secondary data elements linked to it at lower levels.

**High-level programming languages** Englishlike coding schemes that are either procedure-, problem-, or user-oriented.

**Hollerith code** Method of data representation named for the man who invented it; delineates numbers, letters, and special characters by the placement of holes in 80-column punched cards.

**Horizontal software integration** The combining of two or more software applications into one package that can share data.

**Hierarchical configuration** A network design for multiple CPUs, in which an organization's needs are divided into multiple levels that receive different levels of computer support.

**HIPO (Hierarchy plus Input-Process-Output)** A documentation or design technique used to describe the inputs, processing, and outputs of program modules.

**Interactive video** A multimedia learning concept that merges computer text, sound, and graphics by using a videodisk, videodisk player, microcomputer with monitor and disk drive, and computer software.

**Interpreter program** High-level language translator that evaluates and translates a program one statement at a time; used extensively on microcomputer systems because it takes less primary storage than a compiler; also called interpreter.

**Internal modem** A modem built into the internal circuitry of a computer; no external cables or connections are needed.

**Insertion** A feature of a program that allows characters, words, sentences, or blocks of text to be inserted into a document.

**Integrated software** Two or more application programs that work together to allow easy movement of data between the applications; they also use a common group of commands among all of the applications.

**Input/output management system** A subsystem of the operating system that controls and coordinates the CPU while receiving input from channels, executing instructions of programs in storage, and regulating output.

**Input** Data submitted to the computer for processing.

**Impact printer** A printer that forms characters by physically striking a ribbon against paper.

**Indexed-sequential file design** Records organized sequentially and also listed in an index; allows for both sequential and direct-access processing.

**Information** Data that has been organized and processed so it is meaningful.

**Ink-jet printer** A nonimpact printer that uses a stream of charged ink to form dot-matrix characters.

**Instruction set** The fundamental logical and arithmetic procedures that the computer can perform, such as addition, subtraction, and comparison.

**Integrated circuit** An electronic circuit etched on a small silicon chip less than 1/8-inch square, permitting much faster processing than with transistors and at a greatly reduced price.

**Intelligent terminal** A terminal with an internal processor that can be programmed to perform specified functions, such as data editing, data conversion, and control of other terminals.

**Interactive** Descriptive of computer languages that allow the programmer or program user to communicate directly with the computer in a conversational fashion.

**Interactive processing** A data-processing method where the user enters input via a keyboard during processing.

**Interblock gap (IBG)** A space on magnetic tape that facilitates processing; records are grouped together and then separated by interblock gaps.

**Interrecord gap (IRG)** A space that separates records stored on magnetic tape; allows the tape drive to regain speed during processing.

**Inverted list** A list that has an index for every field in a file.

**Job-control language (JCL)** A language that serves as the communication link between the programmer and the computer operating system.

**Job-control program** A control program that translates the job-control statements written by a programmer into machine-language instructions that can be executed by the computer.

**Josephson junction** A primary storage unit that, when completed, will be housed in liquid helium to reduce the resistance to the flow of electricity that currently exists in semiconductor memory.

**Key** The unique identifier or field of a record; used to sort records for processing or to locate specific records within a file.

**Keypunch** A keyboard device that punches holes in a card to represent data.

**Key-to-disk** Hardware designed to transfer data entered via a keyboard to magnetic (hard) disk.

**Key-to-diskette** Hardware designed to transfer data entered via a keyboard to a floppy disk instead of the conventional (hard) disk.

**Key-to-tape** Hardware designed to transfer data entered via a keyboard to magnetic tape.

**K (kilobyte)** Symbol used to represent 1,024 ( $2^{10}$ ) storage units (1024 bytes) when referring to a computer's main memory; often rounded to 1,000 bytes.

**Language-translator program** Software that translates Englishlike programs written by programmers into machine-executable code.

**Large-scale integration (LSI)** Method by which circuits containing thousands of electronic components are densely packed on a single silicon chip.

**Laser printer** A type of nonimpact printer that combines laser beams and electrophotographic technology to form images on paper.

**Laser storage system** A secondary storage device using laser technology to encode data onto a metallic surface; most often used for mass storage.

**Light pen** A pen-shaped object with a photoelectric cell at its end; used to draw lines on a visual display screen.

**Linked list** A file using pointers to maintain the sequence of the records.

**Links** Transmission channels that connect nodes.

**Loop** Program logic that causes a series of instructions to be executed repeatedly as long as specified conditions remain constant.

**Language-translator program** Software that translates Englishlike programs written by programmers into machine-executable code.

**Librarian program** Software that manages the storage and use of library programs by maintaining a directory of programs in the system library and appropriate procedures for additions and deletions.

**Library program** A user-written or manufacturer-supplied program or subroutine that is frequently used in other programs to perform a specific function; it is written and stored on secondary storage and called into primary storage when needed.

**Linkage editor** A subprogram of the operating system that links the object program from the system residence device to primary storage.

**LISP (LISt Processing)** A high-level programming language commonly used in artificial intelligence research and in processing lists of elements.

**Line editor** A word processing feature that allows operation on only one line of text at a time.

**Local-area network (LAN)** A specialized network of computers that operates within a limited geographic area, such as a building or complex of buildings, with the stations being linked by cable.

**Mainframe** A type of large, full-scale computer capable of supporting many peripherals.

**Minicomputer** A type of computer with the components of a full-sized system but with smaller primary storage capacity.

**Megahertz (MHz)** One million times per second; the unit of measurement for clock speed.

**Machine language** The only set of instructions that a computer can execute directly; a code that designates the proper electrical states in the computer as combinations of Os and Is.

**Magnetic core** Iron-alloy, doughnut-shaped ring about the size of a pinhead of which memory can be composed; an individual core can store one binary digit (its state is determined by the direction of an electrical current); the cores are strung on a grid of fine wires that carry the current.

**Magnetic disk** A direct-access storage medium consisting of a metal platter coated on both sides with a magnetic recording material upon which data is stored in the form of magnetized spots.

**Magnetic domain** A magnetized spot representing data in bubble memory.

**Magnetic drum** Cylinder with a magnetic outer surface on which data can be stored by magnetizing specific positions on the surface.

**Magnetic tape** A sequential storage medium consisting of a narrow strip of material treated with a magnetizable coating upon which spots are magnetized to represent data.

**Magnetic-ink character reader** A device that reads characters composed of magnetized particles; often used to sort checks for subsequent processing.

**Magnetic-ink character recognition (MICR)** The process that allows magnetized characters to be read by a magnetic-ink character reader.

**Mark I** First automatic calculator.

**Master file** A file that contains all existing records organized according to the key field; updated by records in a transaction file.

**Microcomputer** A small, low-priced computer used in homes, schools, and businesses; also called a personal computer or home computer.

**Microprocessor** A programmable processing unit (placed on a silicon chip) containing arithmetic, logic, and control circuitry; used in microcomputers, calculators, microwave ovens, and for many other applications.

**Microprogram** A sequence of instructions wired into read-only memory; used to tailor a system to meet the user's specific processing requirements.

**Minicomputer** A type of computer with the components of a full-sized system but with smaller primary storage capacity.

**Mnemonics** Symbolic names or memory aids used in assembly language and high-level programming languages.

**Mouse** A desk-top input device that controls cursor movement, allowing the user to bypass the keyboard.

**Multiphasic health testing (MPHT)** Computer-assisted testing plan that compiles data on patients and their test results. This data is then compared with norms or means to aid the physician in making a diagnosis.

**Message switching** The task of a communications processor of receiving messages and routing them to appropriate destinations.

**Modem** A device that modulates and demodulates signals transmitted over communication lines.

**Modular approach** A method of simplifying a project by breaking it into segments or subunits.

**Module** Part of a whole; a program segment or subsystem; set of logically related program statements that perform one given task in a program.

**Modulation** A technology used in modems to make data processing signals compatible with communication facilities.

**Multiplexer** A device that permits more than one I/O device to transmit data over the same communication channel.

**Memory management/memory protection** In a multiprogramming environment, the process of keeping the programs in primary storage separate from each other.

**Model** A representation of a real-world system; used to construct a DSS to help managers make decisions.

**Management information system (MIS)** A formal network that uses computers to provide information used to support structured managerial decision making; its goal is to get the correct information to the appropriate manager at the right time.

**Menu-driven** A program design that provides the user with "menus" displaying available choices or selections to help guide the user through the process of using a software package.

**Modeling package** An application software program that uses the power and speed of a computer to simulate a real world situation.

**Move** A feature of a program that allows an entire block of text to be shifted from one location to another.

**Multiprocessing** A multiple CPU configuration in which jobs are processed simultaneously.

**Multiprogramming** A technique that places several programs in primary storage at the same time, giving the illusion that they are being executed simultaneously; this results in increased CPU active time.

**Natural language/query language** A language, designed primarily for novice computer users, that uses Englishlike sentences, usually for the purpose of accessing data in a data base.

**Narrow bandwidth channel** A communication channel that can only transmit data at a rate of 45 to 90 baud; for example, telegraph channels.

**Network** The linking together of several CPUs.

**Network data structure** The data structure in which a primary data element may have many secondary elements and the secondary elements may have numerous primary elements.

**Next-sequential-instruction feature** The ability of a computer to execute program steps in the order in which they are stored in memory unless branching takes place.

**Nondestructive read/destructive write** The feature of computer memory that permits data to be read and retained in its original state, allowing repeated reference during processing.

**Nonimpact printer** The use of heat, laser technology, or photographic techniques to print output.

**Nuclear magnetic resonance (NMR) scanning** A computerized diagnostic tool that involves sending magnetic pulses through the body to identify medical problems.

**Numeric bits** The four rightmost bit positions of 6-bit BCD used to encode numeric data.

**Node** The endpoint of a network; consists of CPUs, printers, CRTs, and other physical devices.

**Operating system (OS)** A collection of programs used by the computer to manage its operations; provides an interface between the user or application program and the computer hardware.

**Object program** A sequence of machine executable instructions derived from source-program statements by a language-translator program.

**Overview diagram** A diagram used in HIPO to describe in greater detail a module shown in the visual table of contents.

**Operand** The part of an instruction that tells the computer where to find the data or equipment on which to operate.

**Online storage symbol** A symbol that indicates that the file is kept on an online external storage medium such as disk or tape.

**Output** Information that comes from the computer as a result of processing into a form that can be used by people.

**Octal number system** Number system in which each position represents a power of 8.

**Odd parity** A method of coding in which an odd number of 1 bits is used to represent each character; facilitates error checking.

**Office automation** Integration of computer and communication technology with traditional office procedures to increase productivity and efficiency.

**Offline** Not in direct communication with the central computer.

**Online** In direct communication with the computer.

**Online file access** An access method in which records are updated when transactions are made; current information can be retrieved at any time.

**Operand** The part of an instruction that tells the computer where to find the data or equipment on which to operate.

**Operation code** Also known as op code; the part of an instruction that indicates what operation is to be performed.

**Optical disk** Also known as a laser disk; stores data as the presence or absence of a pit burned into the surface of the disk by a laser beam.

**Optical-character recognition (OCR)** A method of electronic scanning that reads numbers, letters, and other characters and then converts the optical images into appropriate electrical signals.

**Optical-mark recognition (OMR)** Mark sensing; a method of electronic scanning that reads marks on a page and converts the optical images into appropriate electrical signals.



**Output** Information that comes from the computer as a result of processing; in a form that can be used by people.

**Operation code** Also known as op code; the part of an instruction that indicates what operation is to be performed.

**Page** In a virtual storage environment, the portion of a program that is kept in secondary storage and loaded into real storage only when needed during processing.

**Page frame** In a virtual storage environment, one of the equal-sized physical areas into which primary storage is divided.

**Paging** A method of implementing virtual storage; data and programs are broken into equal-sized blocks, or pages, and loaded into real storage when needed during processing.

**Partition** In multiprogramming, the primary storage area reserved for one program; may be fixed or variable size.

**Pascal** A high-level language developed for education purposes, to teach programming concepts to students; named after French mathematician Blaise Pascal.

**Piracy** The unauthorized copying of a copyrighted computer program.

**PL/1 (Programming Language One)** A structured, general-purpose programming language used for both scientific and business applications.

**Parent** The primary data element in a data structure.

**Parity bit** A bit added to detect incorrect transmission of data; it conducts internal checks to determine whether the correct number of bits are present.

**Plotter** An output device that converts data emitted from the CPU into graphic form; produces hard-copy output.

**Pointer** An additional field in a record that contains the address of the next record to be accessed.

**Primary key** A unique field for a record; used to sort records for processing or to locate a particular record within a file.

**Primary memory/storage** Also known as internal storage or main storage; the section of the computer that holds instructions, data, and intermediate and final results during processing.

**Printer** A device used to produce permanent (hard copy) computer output; impact printers are designed to work mechanically; nonimpact printers use heat, laser, or chemical technology.

**Printer-keyboard** An output device similar to an office typewriter; prints one character at a time and is controlled by a program stored in the CPU of the computer.

**Print-wheel printer** An output device consisting of 120 print wheels, each containing 48 characters. The print wheels rotate until an entire line is in the appropriate position, then a hammer presses the paper against the print wheel.

**Privacy** An individual's ability to control the collection, processing, storage, dissemination, and use of data about personal attributes and activities.

**Process** To transform data into useful information (by classifying, sorting, calculating, summarizing, storing).

**Processor** The term used to refer collectively to the ALU and control unit.

**Program** A series of step-by-step instructions that tells the computer exactly what to do.

**Programmer** The person who writes step-by-step instructions for the computer to execute.

**PROM (Programmable Read-Only Memory)** Read-only memory that can be programmed by the manufacturer or by the user for special functions to meet the unique needs of the user.

**Punched cards** Heavy paper storage medium in which data is represented by holes punched according to a coding scheme much like that used on Hollerith's cards.

**Page-oriented word processor** A word processor that treats a document as a series of pages; contrast to document-oriented word processor.

**Pixel** The individual dot on a display screen that is combined with other dots to create characters and images.

**Print formatting** The manner in which the word processor communicates with the printer to tell it how the text should be printed.

**Parallel conversion** An approach to system implementation in which the new system is operated side-by-side with the old one until all problems are worked out.

**Parallel processing** A type of processing in which instructions and data are handled simultaneously.

**Phased conversion** An approach to system implementation in which parts of the new system are implemented throughout the organization one at a time.

**Pilot conversion** An approach to system implementation in which the new system is implemented in only one part of the organization at a time.

**Processing program** A routine, usually part of an operating system, used to simplify program preparation and execution.

**Proper program** A program using the structured approach and top-down design, and having only one entrance and one exit.

**Pseudocode** An informal, narrative language used to represent the logic patterns of structured programming.

**Programmable communications processor** A device that relieves the CPU of the task of monitoring data transmission.

**Propagation delay** A time delay in a satellite communication system.

**Remote network** A system where terminals are connected to the central computer by a communication channel.

**Ring configuration** A network design in which a number of computers are connected by a single transmission line in a ring formation.

**Run book** Program documentation designed to aid the computer operator in running a program; also known as the operator's manual.

**Real storage** Primary storage; contrast with virtual storage.

**Region** In multiprogramming with a variable number of tasks, a term often used to mean the internal space allocated; a variable-sized partition.

**Random-access memory (RAM)** Form of primary storage into which instructions and data can be read, written and erased; directly accessed by the computer; temporary memory that is erased when the computer is turned off.

**RAM disk** A portion of RAM memory that temporarily becomes a storage device through software control; it appears like a disk to the computer but is not actually a disk.

**Randomizing (hashing)** A mathematical process applied to the record key that produces the storage address of the record.

**Read/write head** An electromagnet used as a component of a tape or disk drive; in reading, it detects magnetized areas and translates them into electrical pulses; in writing, it magnetizes appropriate areas, thereby erasing data stored previously.

**Read-only memory (ROM)** The part of computer hardware containing items (circuitry patterns) that cannot be delayed or altered by stored-program instructions.

**Real-time** Descriptive of a system's capability to receive and process data, providing output fast enough to control the outcome of an activity.

**Record** A collection of data items, or fields, that relates to a single unit, such as a student.

**Register** An internal computer component used for temporary storage of an instruction or data; capable of accepting, holding, and transferring that instruction or data very rapidly.

**Relational data structure** The data structure that places the data elements in a table with rows representing records and columns representing fields.

**Remote terminal** A terminal that is placed at a location distant from the central computer.

**Retrieve** To access previously stored data.

**Ring list** A linked list containing pointer fields indicating the end of a chain; the last record contains a pointer back to the first record.

**Robot** Machine that performs any of several tasks (such as moving or manipulating materials, parts, or tools) under stored-program control.

**Resident routine** One of the most frequently used components of the supervisor, which is initially loaded into primary storage.

**RPG (report program generator)** An example of a problem-oriented language originally designed to produce business reports.

**Service bureaus** A business that provides data-processing services such as system development and computer operations.

**Software compatibility** The ability to use programs written for one system on another system with little or no change.

**Supercomputer** The largest, fastest, most expensive type of computer in existence, capable of performing millions of calculations per second and processing enormous amounts of data; also called maxi computer or monster computer.

**Simplex** A type of communication channel that provides for unidirectional, or one-way, transmission of data.

**Star configuration** A network design in which all transactions must go through a central computer before being routed to the appropriate network computer.

**Selection** Program logic that includes a test; depending on the results of the test, one of two paths is taken.

**Simple sequence** Program logic in which one statement after another is executed in the order in which they are stored.

**Source program** A sequence of instructions written in either assembly language or high-level language that is translated into an object program.

**Structure chart** A graphic representation of top-down programming, displaying modules of the problem solution and relationships between modules; of two types-system and process.

**Structured flowchart** Graphic representation of the logic patterns depicting the function of a program or module; the diagram is compactly arranged in a partitioned box; also called Nassi-Shneiderman chart.

**Structured programming** A top-down modular approach to programming that emphasizes dividing a program into logical sections to reduce testing time, increase programmer productivity, and bring clarity to programming.

**Screen editor** A word processing feature that allows the text on the entire screen to be edited.

**Screen formatting** Word-processing features that control the way in which text appears on the display screen.

**Scrolling** The process of moving a portion of a text file on to or off of the display screen; used to view portions of a document.

**Search** A feature of a program that permits the user to locate a word or set of characters throughout a file.

**Simulation** Duplication of conditions likely to occur in a real-world situation when variables are changed.

**Spreadsheet** Also known as a ledger sheet; used by accountants for performing financial calculations and recording transactions.

**Status area** A portion of an electronic spreadsheet that appears at the top of the display and shows the location of the cursor within the spreadsheet and what was entered into a particular cell of the spreadsheet.

**System** A group of related elements that work together toward a common goal.

**System analysis report** A report given to top management after the system analysis phase has been completed; includes a statement of objectives, constraints, and possible alternatives.

**System design report** A report given to top management after the system design phase that explains how various designs will satisfy the information requirements; includes flowcharts, narratives, resources required to implement alternatives, and recommendations.

**System flowchart** A group of symbols that represents the general information flow within an information system; focuses on inputs and outputs rather than on internal computer operations.

**Structured walkthrough** A formal evaluation of the documentation and coding of a program or system by a group of managers, analysts, and programmers to determine completeness, accuracy, and quality of design.

**Segmentation** A method of implementing virtual storage; involves dividing a program into variable-sized blocks, called segments, depending on the program logic.

**Secondary key** Fields that are used to gain access to records on a file; may not be unique identifiers.

**Secondary storage** Also known as external or auxiliary storage; supplements primary storage and is external to the computer; data is accessed at slower speeds.

**Second-generation computers** Computers that used transistors; smaller, faster, and had larger storage capacity than first-generation computers.

**Semiconductor memory** Memory composed of circuitry on silicon chips.

**Sequential file design** Records that are organized in a file in a specific order based on the value of the key field.

**Sequential processing** The process of creating a new master file each time transactions are processed; requires batch file access.

**Sequential-access storage** Auxiliary storage from which records must be read, one after another, in a fixed sequence, until the needed data is relocated; for example, magnetic tape.

**Silicon chip** Solid-logic circuitry on a small piece of silicon used to form the primary storage of third-generation computers.

**Simple list** A file without pointers.

**Simulate** To duplicate conditions likely to occur in a real-world situation when variables are changed.

**Soft copy** Data displayed on a CRT screen; not a permanent record.

**Software** Program or programs used to direct the computer for solving problems and overseeing operations.

**Sort** To arrange data elements into a predetermined sequence to aid processing.

**Source-data automation** The use of special equipment to collect data at its point of origin.

**Spatial digitizer** An input device that can graphically reconstruct a three-dimensional object on the computer display screen.

**Store** To retain processed data for future reference.

**Stored program** Instructions stored in the computer's primary memory in electronic form; can be executed repeatedly at the computer's own speed.

**Stored-program computer** Computer that stores in main memory instructions in electronic form for operations to be performed.

**Stored-program concept** The idea that program instructions can be stored in primary storage (computer memory) in electronic form so that no human intervention is required during processing; allows the computer to process the instructions at its own speed.

**Subscripts** The row and column numbers that identify the location of a data element in a table.

**Summarize** To reduce large amounts of data to a more concise and usable form.

**Supercomputer** The largest, fastest, most expensive type of computer in existence, capable of performing millions of calculations per second and processing enormous amounts of data; also called maxicomputer or monster computer.

**System analyst** The person who is responsible for system analysis, design, and implementation of computer-based information systems and who is the communication link or interface between users and technical persons.

**Sort/merge program** A utility program used to sort records to facilitate updating and subsequent combining of files to form a single, updated file.

**Subroutine** A sequence of statements outside the main part of the program; saves the programmer time by not having to write the same instructions over again in different parts of the program.

**Supervisor program** Also known as the monitor or executive; the major component of the operating system; coordinates the activities of all other parts of the operating system.

**Swapping** In a virtual storage environment, the process of transferring a program section from virtual storage to real storage, and vice versa.

**System library** A collection of files in which various parts of an operating system are stored.

**System program** A sequence of instructions written to coordinate the operation of computer circuitry and to help the computer run quickly and efficiently.

**System residence device** An auxiliary storage medium (disk, tape, or drum) on which operating system programs are stored and from which they are loaded into primary storage.

**Syntax** Rules of a programming language that must be followed when coding instructions, just as syntactical rules must be followed in English.

**System analyst** The person who is responsible for system analysis, design, and implementation of computer-based information systems and who is the communication link or interface between users and technical persons.

**Tape cassette** A sequential-access storage medium (similar to a cassette used in audio recording) used in small computer systems for high-density digital recording.

**Tape drive** A device that moves tape past a read/write head.

**Telecommunications** The combined use of communication facilities, such as telephone systems and data-processing equipment.

**Time-sharing** An arrangement in which two or more users can access the same central computer resources and receive what seems to be simultaneous results.

**Transponders** Small amplifiers located on satellites, which receive signals from the earth station and reflect them to the receiving stations.

**Top-down design** A method of defining a solution from general to specific in terms of major functions to be performed, and further breaking down the major functions into subfunctions; the further the breakdown, the greater the detail.



**Telecommuting** Method of working at home by communicating via electronic machines and telecommunication facilities.

**Teleconference** Method of conducting meetings between two or more remote locations via electronic and/or image-producing facilities.

**Terminal** An input/output device through which data can be entered into or retrieved from a system.

**Third-generation computers** Computers characterized by the use of integrated circuits, reduced size, lower costs, and increased speed and reliability.

**Time-sharing** An arrangement in which two or more users can access the same central computer resources and receive what seems to be simultaneous results.

**Touch screen** A computer screen that can detect the point at which it is touched by the user; it allows the user to bypass the keyboard.

**Touch-tone device** A type of terminal used with ordinary telephone lines to transmit data.

**Track** A horizontal row stretching the length of a magnetic tape on which data can be recorded; one of a series of concentric circles on the surface of a magnetic disk; one of a series of circular bands on a magnetic drum.

**Transaction file** A file containing changes to be made to the master file.

**Transistor** An on/off switch connecting the data line to the capacitor; a type of circuitry characteristic of second-generation computers; smaller, faster, and more reliable than vacuum tubes but inferior to third-generation, large-scale integration.

**Trailer value** A value used to control loop execution in which a unique item signals the computer to stop performing the loop.

**Thrashing** A situation in virtual storage in which little processing occurs in comparison to the amount of locating and swapping of pages or segments.

**Template** A predefined set of formulas for use on an electronic spreadsheet.

**Text editing** The process of making changes to a document after the text has been entered into the computer.

**Transient routine** A supervisor routine that remains in secondary storage with the rest of the operating system.

**User friendly** Describes computers or software that are easy to use and understand.

**User's group** An informal group of owners of a particular brand of microcomputer who meet to exchange information about hardware, software, service, and support.

**Unbundled** A way of selling computers in which vendor support and training items are priced separately

**Undo** A feature of a program that allows the user to recover text that has been accidentally deleted.

**UNIVAC I (UNIVersal Automatic Computer)** One of the first commercial electronic computers; became available in 1951.

**Utility program** A program within an operating system that performs a specialized function.

**Voice-grade channel** A communication channel that has a wider frequency range and can transmit data at a rate of forty-five to ninety bits per second; for example, a telegraph channel.

**Visual table of contents** Similar to a structure chart; each block is given an identification number used as a reference to other HIPO diagrams.

**Virtual storage** An extension of multiprogramming in which portions of programs not being used are kept in secondary storage until needed, giving the impression that primary storage is unlimited; contrast with real storage.

**Vacuum tube** Light bulb-like device from which almost all air has been removed and through which electricity can pass; often found in old radios and televisions; used in first-generation computers to control internal operations.

**Variable** A meaningful name assigned by the programmer to storage locations of which the values can change.

**Variable-length records** A record format in which the unused character spaces are eliminated from the record.

**Verify** To check the accuracy and completeness of data.

**Very-large-scale integration (VLSI)** Further miniaturization of integrated circuits, offering even greater improvements in price, performance, and size of computers.

**Visual display terminal** A terminal capable of receiving output on a cathode-ray tube (CRT) and, with special provisions, is capable of transmitting data through a keyboard.

**Voice recognition system** An input system that allows the user to "train" the computer to understand his or her voice and vocabulary. The user must follow only the patterns the computer is programmed to recognize; also called audio input.

**Voice response unit** A device through which the computer "speaks" by arranging half-second records of voice sounds or prerecorded words; also called audio output.

**Volatility** The frequency of changes made to a file during a certain period of time.

**Vertical software integration** The enhancement of a single software package. For example, adding a spelling checker to a word processing program.

**Wafer integration** The concept of retaining the circuitry on the five-inch silicon chip, rather than breaking the individual chips off the wafer and then packaging and relinking them.

**Window (window environment)** An operating system enhancement that allows more than one application software package to run concurrently.

**Word processing** The manipulation of text data to achieve a desired output.

**Word processing system** The computer system (hardware and software), or portion of the system, used for the task of word processing.

**Word processor** An application software package that performs text-editing functions.

**Word wrap** A feature of a program that automatically positions text so that full words are positioned within declared margins.

**Wand reader** An input device used in reading source data represented in optical bar-code form or in human readable characters.

**Word** A memory location within primary storage; varies in size (number of bits) from computer to computer.

**Xerographic printer** A type of nonimpact printer that uses printing methods similar to those used in common xerographic copying machines.

**Zone bit** Used in different combinations with numeric bits to represent numbers, letters, and special characters.

## ENGLISH-UKRAINIAN VOCABULARY

- Accounting machine** лічильна машина
- Abnormal program** програма аварійного завершення
- Access** доступ, звертання
- Access mechanism** механізм доступу
- Access time** тривалість доступу
- Accessory program** допоміжна програма
- Acoustic modem** акустичний модем
- Activity** опрацювання запиту, активність, діяльність
- Address** адреса
- Algorithm** алгоритм
- Analog computer** аналогова ЕОМ
- Analog transmission** аналогова передача
- APL (A Programming Language)** мова програмування
- Application** прикладна програма, система, застосування, використання
- Application program** прикладна програма
- Approximate** наближувати
- Archival copy** архівна копія
- Arithmetic function** арифметична функція
- Arithmetic and logic unit (ALU)** арифметико-логічний пристрій
- Artificial intelligence (AI)** штучний інтелект
- Assembly language** мова асемблера
- Audit** ревізія, перевірка
- Audit trail** контрольний журнал, програма записування та формування звітів
- Automated data processing** автоматичне опрацювання даних

**Automatic data processing (ADP)** автоматичне опрацювання даних

**Back-end processor** післяпроцесор, процесор бази даних

**Bandwidth** ширина смуги частот

**Bar code scanner** пристрій читання штрихового коду, сканер штрихового коду

**BASIC (Beginners' All-purpose Symbolic Instruction Code)** Бейсик  
(алгоритмічна мова)

**Batch** пакет, група

**Batch file** командний файл

**Batch processing** пакетне опрацювання

**Baud** бод (одиниця швидкості передавання інформації)

**Binary coded decimal (BCD)** двійкове-десятькове число

**Binary number system** двійкова система числення

**Binary representation** двійкове зображення

**Bit (short for Binary digit)** двійковий розряд

**Bit cells** однорозрядний регістр

**Block** блок

**Branch** перехід, розгалуження, відгалуження

**Bubble memory** бульбашкова пам'ять

**Buffer** буфер

**Byte** байт

**C** Cі (алгоритмічна мова)

**Cache memory** надоперативна пам'ять, кеш-пам'ять

**Calculate** обчислювати, рахувати

**Call-back modem** модем зворотного зв'язку

**Capability** можливість, здатність

**Capacitor** конденсатор

**Capacity** обсяг, місткість, продуктивність, гранична пропускна здатність, розрядність

**Cartridge tape** касетна стрічка

**Cassette tape** касетна стрічка

**Cathode ray tube (CRT)** електронно-променева трубка

**Cell** комірка пам'яті, елемент

**Central processing unit (CPU)** центральний процесор

**Centralized approach** централізований підхід

**Centralized processing** централізоване опрацювання

**Chain** ланцюжок, послідовність

**Chain printer** принтер, друкарський пристрій

**Character** символ, знак, літера

**Character pattern** точкова матриця символу

**Character printer** пристрій посимвольного друку

**Charge-coupled device (CCD)** пристрій з електрично зв'язаними компонентами

**Chart** схема, креслення, діаграма, графік

**Check digit** контрольний розряд

**Chief programmer** головний програміст

**Chip** мікросхема

**Circuitry** схеми, електричні кола

**Clock speed** тактова частота

**Coaxial** коаксіальний

**COBOL (COmmon Business-Oriented Language)** Кобол (алгоритмічна мова)

**Code** код, система кодування, програма, команда

**Coding check** перевірка програми

**Coding scheme** система кодування

**Column** колонка, стовпець

**Command-line interface** інтерфейс командних рядків

**Communication channel** канал зв'язку

**Communications processor** комунікаційний процесор

**Compatibility** сумісність

**Compatible** сумісний

**Compiler** компілятор, транслятор

**Compiling** компіляція, компілювання, трансляція, трансліювання, укладання, складання

**Computation** обчислення

**Computer** комп'ютер, ЕОМ, обчислювальна машина

**Computer crime** незаконне користування комп'ютером

**Computer literacy** комп'ютерна грамотність

**Computer screen** екран комп'ютера

**Computer security** захист комп'ютерних даних

**Computer store** крамниця для продажу комп'ютерів

**Computer-aided design (CAD)** автоматизоване проектування

**Computer-assisted instruction (CAI)** комп'ютеризоване навчання

**Computerized axial tomography (CT or CAT scanning)** комп'ютерна томографія

**Concentrator** концентратор, зосереджувач

**Concurrently** паралельно, одночасно

**Control program** керівна програма

**Control unit** пристрій керування

**Conversion** перетворення, перекодування

**Convert** перетворювати

**Coprocessor** співпроцесор

**Copy protection** захист від копіювання

**Copyright** авторське право

**Counter** лічильник

**Cooustic coupler** гніздо для під'єднання телефонів

**Cursor** курсор

**Daisy-wheel printer** пелюстковий друкарський пристрій

**Data** дані, інформація

**Data base** база даних

**Data communication** передавання даних

**Data encryption** шифрування даних

**Data entry** введення даних, інформаційний елемент

**Data field** поле даних

**Data file** файл даних

**Data flow** потік даних

**Data item** елемент даних

**Data processing** опрацювання даних

**Data structure** структура даних

**Data-base analyst** програміст бази даних

**Debug** налагоджувати

**Debugging** налагоджування

**Decimal system** десяткова система числення

**Decision model** модель прийняття рішень

**Decision support system (DSS)** система забезпечення прийняття рішень

**Decision table** таблиця розв'язків

**Declaration** опис, визначення, оголошення, декларація

**Deletion** вилучення, усунення, витирання

**Demodulation** демодуляція



**Design** проект, проектування

**Design aids** засоби проектування

**Destructive read** руйнівне читання (даних)

**Diagram** схема, графік, діаграма

**Digital computer** цифрова ЕОМ

**Digital transmission** цифрова передача

**Digitizer** перетворювач у цифрову форму, дискретизатор

**Direct access** прямий доступ

**Direct access storage** запам'ятовувальний пристрій з прямим доступом

**Direct-access file** файл прямого доступу

**Direct-connect modem** модем з безпосереднім зв'язком

**Directory** каталог, довідник

**Disk drive** дисковод, накопичувач на дискетах

**Disk pack** дисковий пакет

**Distributed data processing (DDP) system** розподілена система  
опрацювання даних

**Distributed processing** розподілене опрацювання

**Dot-matrix printer** матричний друкарський пристрій

**Downtime** час простою

**Drill** практичне опрацювання, навчання

**Drum printer** барабанний друкарський пристрій

**Dumb terminal** неінтелектуальний елемент, термінал уведення-виведення

**Dummy module** фіктивний модуль

**Duplication** дублювання, копіювання

**Editing** редагування

**Electrical charge** електричний заряд

**Electrical circuit** електронна схема

**Electrical current** електричний струм

**Electrical flow** електричний потік

**Electronic data processing (EDP)** електронне опрацювання даних

**Electronic mail** електронна пошта

**Electronic pulse** синхроімпульс, тактовий імпульс

**Electrostatic printer** електростатичний друкарський пристрій

**Electrothermal printer** пристрій термодруку

**EPROM (Erasable Programmable Read-Only Memory)** ППЗП,  
програмована постійна пам'ять

**Even parity** перевірка парності

**Exception report** повідомлення про виняткові ситуації

**Executable form** виконавча форма

**Expert system** експертна система

**Facility** засіб, обладнання, пристрій

**Feedback** зворотний зв'язок

**Field** поле, ділянка, сфера

**File** файл

**File handler** програма опрацювання даних

**First-generation computer** ЕОМ першого покоління

**Fixed-length record** запис фіксованої довжини

**Flexibility** гнучкість

**Flexible disk** гнучкий диск, дискета

**Flexible system** гнучка система

**Floppy disk** гнучкий диск, дискета

**Flowchart** блок-схема

**Flowline** лінія зв'язку

**Formatting** форматування, розмічування

**FORTH** Форт (алгоритмічна мова)

**FORTRAN (FORmuLa TRANslator)** Фортран (алгоритмічна мова)

**Fourth-generation computer** ЕОМ четвертого покоління

**Front-end processor** попередній процесор, комунікаційний процесор

**Full-duplex** дуплексний зв'язок

**Garbage** зайві дані, непотрібна інформація, сміття (інформаційне)

**General-purpose computer** універсальна ЕОМ

**GOTO statement** оператор переходу

**Grade** якість

**Graph** графік, діаграма

**Graphic display** графічний дисплей

**Graphics software package** графічний пакет програм

**Graphics tablet** графічний планшет

**Grid chart** координатна сітка

**Half-duplex** напівдуплексний зв'язок

**Hard disk** твердий диск

**Hardcopy** документальна копія

**Hardware** технічне забезпечення, апаратура

**Hierarchical approach** ієрархічний підхід

**Hierarchical configuration** ієрархічна конфігурація

**Hierarchical data structure** ієрархічна структура даних

**High-level language** мова високого рівня

**High-level programming languages** мова програмування високого рівня

**Hollerith code** код Голлеріта

**I/O operation** операція введення/виведення

**Icon** піктограма, графічний символ, зображення

**Image** зображення, образ, відображення

**Impact printer** пристрій контактного друку

**Implementation** реалізація, впровадження

**Information** інформація

**Information system** інформаційна система

**Ink-jet printer** пристрій струменевого друку

**Input** вхід, введення, вхідні дані, пристрій введення

**Input/output management system** адміністративна система введення/виведення

**Inquiry** запитання, запит

**Insertion** вставлення, вставка

**Instruction set** система команд, набір команд

**Integrated circuit** інтегральна схема

**Integrated software** інтегральний програмний комплекс

**Integration** інтеграція, об'єднання (у систему), інтегрування

**Intelligent terminal** інтелектуальний термінал

**Interactive** інтерактивний, діалоговий

**Interactive processing** діалогове опрацювання

**Interblock gap (IBG)** міжблоковий проміжок

**Interface** чергування, розгортка через рядок

**Internal modem** вбудований модем

**Interpretation** інтерпретація

**Interpreter program** інтерпретатор

**Interrecord gap (IRG)** проміжок між записами, сигнал кінця запису

**Inverted list** інвертований список, обернений список

**Job** завдання

**Job-control language (JCL)** мова керування завданнями

**Job-control program** програма керування завданнями

**Joystick** джойстик

**Junction** з'єднання

**K (KiloByte)** кілобайт (1024 байти)

**Key** ключ, клавіша, шифр

**Key field** поле ключа

**Keypunch** клавішний перфоратор

**Language-translator program** транслятор

**Large-scale integration (LSI)** інтеграція високого рівня

**Laser** лазер

**Laser beam** лазерний промінь

**Laser printer** лазерний друкарський пристрій

**Laser storage** лазерна пам'ять, лазерний запам'ятовувальний пристрій

**Librarian program** бібліотекар (програма, яка керує роботу з бібліотечними програмами )

**Library program** бібліотечна програма

**Light pen** світлове перо

**Line editor** редактор рядків, рядковий редактор

**Line printer** пристрій друку рядками

**Link** лінія зв'язку

**Linkage editor** редактор зв'язків, зв'язувальний транслятор, укладач

**Linked list** список з вказівниками, зв'язний список, ланцюговий список

**LISP (LISt Processing)** Лісп (алгоритмічна мова)

**List** список, перелік

**Listing** роздрук

**Local-area network (LAN)** локальна мережа

**Logical module** логічний модуль

**Logical record** логічний запис

**Loop** цикл, петля

**Low-level language** мова низького рівня

**Machine language** машинна мова

**Magnetic core** запам'ятовувальний пристрій на магнітних осердях, феритова пам'ять

**Magnetic disk** магнітний диск

**Magnetic domain** магнітний домен

**Magnetic drum** магнітний барабан

**Magnetic media** магнітний носій (даних)

**Magnetic tape** магнітна стрічка

**Main storage** оперативна пам'ять, основна пам'ять

**Mainframe** універсальна ЕОМ, центральний процесор

**Mainframe computer** головна ЕОМ

**Maintainability** ремонтпридатність

**Management information system (MIS)** адміністративно-інформаційна система, інформаційно-керівна система

**Manipulate** орудувати, маніпулювати, керувати

**Mass storage** запам'ятовувальний пристрій великого обсягу

**Master file** основний файл

**Media** носії (даних), засоби інформації

**Megahertz (MHz)** мегагерц

**Membrane keyboard** мембранна клавіатура

**Memory location** комірка пам'яті

**Memory management** розподіл пам'яті, керування пам'яті

**Memory protection** захист пам'яті

**Menu** меню

**Menu-driven** керований через меню

**Message switching** перемикання повідомлень

**Microcomputer** мікрокомп'ютер

**Microfilm** мікрофільм

**Microprocessor** мікропроцесор

**Microprogram** мікрограма

**Minicomputer** міні-ЕОМ, міні-комп'ютер

**Model** модель, схема

**Modem** модем

**Modular approach** модульний підхід

**Modulation** модуляція

**Module** модуль

**Monitor** керівна програма, монітор, контрольний пристрій

**Mouse** мишка (маніпулятор)

**Move** пересилати (дані), переміщувати

**Multiplexer** мультиплексер, ущільнювач, комутатор

**Multiprocessing** мультипроцесорний режим, одночасне виконання, одночасне виконання (даних)

**Multiprogramming** мультипрограмування, багатозадачний режим

**Narrow band channel** вузькосмуговий канал

**Natural language/query language** розмовна мова/мова запитів

**Network** мережа, комп'ютерна мережа, схема

**Network configuration** конфігурація мережі

**Network data structure** мережева структура даних (у базах даних)

**Node** вузол

**Nondestructive read** неруйнівне читання (даних)

**Nonimpact printer** безконтактний друкарський пристрій

**Number system** система числення

**Object program** об'єктна програма, вихідна програма

**Occurrence** екземпляр, входження, подія, випадок, наявність

**Odd parity** перевірка непарності

**Office automation** автоматизація діловодства

**Off-line** незалежний, автономний, вимкнений

**On-line** інтерактивний, діалоговий, неавтономний, залежний, під'єднаний, лінійний

**Operand** операнд

**Operating system (OS)** операційна система

**Operation code** код операції

**Optical disk** оптичний диск

**Optical fiber** світлопровід

**Optical-character recognition (OCR)** оптичне розпізнавання символів

**Option** варіант, версія, можливість, вибір, режим, пункт меню

**Output** виведення (даних), вихідні дані, пристрій виведення, вихід

**Package** модуль, пакет, корпус

**Paddle** однокоординатний маніпулятор

**Page** сторінка, сторінка пам'яті

**Page frame** сторінка (пам'яті)

**Paging** сторінкова організація, заміна сторінок, поділ на сторінки

**Parallel processing** паралельне виконання

**Parent** твірний елемент (вузол)

**Parity bit** розряд парності

**Partition** поділ, розділення, частина

**Pascal** Паскаль (алгоритмічна мова)

**Password** пароль

**Pattern** зображення, графічний шаблон, комбінація (символів)



**Pixel (PIcture ELement)** елемент зображення, піксел, цятка

**PL/1 (Programming Language One)** ПЛ/1 (алгоритмічна мова)

**Platter** твердий (магнітний) диск

**Plotter** графопобудовник, реєстратор

**Pointer** вказівник

**Portable computer** портативний комп'ютер

**POS (Point Of Sale) terminal** касовий термінал

**Power failure** вихід з ладу системи живлення

**Power source** джерело живлення

**Primary key** первинний ключ

**Primary storage** основна пам'ять, оперативна пам'ять, первинний запам'ятовувальний пристрій

**Printer** друкарський пристрій, принтер

**Privacy** конфіденційність, таємниця

**Process** процес

**Processing program** програма опрацювання

**Processor** процесор, програма опрацювання

**Program** програма

**Program statement** оператор програми

**Programmer** програміст

**Programming** програмування

**Proliferation** розповсюдження

**PROM (Programmable Read-Only Memory)** ППЗП, програмована постійна пам'ять

**Propagation delay** затримка поширення (сигналу)

**Pseudocode** псевдокод

**Punched card** перфокарта

**RAM disk** псевдодиск, віртуальний диск

**Random** випадковий, довільний

**Random-access memory (RAM)** запам'ятовувальний пристрій з довільним доступом, оперативна пам'ять, пам'ять з довільним доступом

**Randomizing (hashing)** змішування

**Read/write head** головка читання/запису

**Read-only memory (ROM)** ПЗП, постійна пам'ять

**Real storage** фізична оперативна пам'ять, реальна пам'ять

**Real-time** реальний (дійсний) час

**Record** запис

**Record address** адреса запису

**Recorder** пристрій запису, записувальний пристрій, реєстратор

**Region** ділянка, зона, область, регіон, сфера

**Register** реєстр

**Relational data structure** реляційна структура даних

**Reliable** надійний

**Remote input device** віддалений пристрій увведення

**Remote network** віддалена мережа

**Remote terminal** віддалений термінал

**Replacement** заміна

**Report** звіт, повідомлення, зображення даних

**Reside** (постійно) перебувати

**Resident** постійний (у пам'яті), резидентний

**Resistance** опір

**Retrieve** знову знаходити, відновлювати

**Reusable** багатократне використання

**Review** огляд, аналіз

**Ring configuration** кільцева конфігурація

**Robot** робот

**Routine** підпрограма, програма, стандартна програма

**Row** ряд, рядок

**RPG (report program generator)** генератор звітів

**Run book** документація до задачі

**Satellite** супутник

**Scanner** сканер, пристрій сканування

**Screen editor** екранний редактор

**Screen formatting** форматування зображення на екрані

**Scrolling** прокручування, переглядання, переміщування

**Search** пошук, перегляд

**Secondary key** вторинний ключ

**Secondary storage** зовнішня пам'ять, допоміжна пам'ять, допоміжний запам'ятовувальний пристрій

**Second-generation computers** ЕОМ другого покоління

**Security** захист

**Segmentation** поділ на сегменти, сегментація

**Selection** вибір, селекція

**Semiconductor memory** напівпровідниковий запам'ятовувальний пристрій, напівпровідникова пам'ять

**Sequential processing** послідовне виконання

**Sequential-access storage** пам'ять з послідовним доступом, запам'ятовувальний пристрій з послідовним доступом

**Silicon chip** мікросхема на кремнієвій основі

**Simplex** симплекс, односторонній зв'язок

**Simulate** моделювати

**Simulation** моделювання, імітаційне моделювання

**Simultaneous processing** паралельне опрацювання

**Softcopy** зображення на екрані дисплея

**Software** програмне забезпечення

**Software compatibility** програмна сумісність

**Software package** пакет програм

**Solution** розв'язок, розв'язування

**Sort** сортування, упорядкування

**Source program** початкова програма

**Source-data automation** автоматичне формування первинних даних

**Speech recognition system** система розпізнавання мовлення

**Spooler** пристрій перемотування, буфер, програма довантажування, програма розвантажування

**Spreadsheet** електронна таблиця, програма табличних розрахунків, табличний процесор

**Stand-alone mode** автономний режим

**Star configuration** зіркова конфігурація

**Storage** пам'ять, запам'ятовувальний пристрій, пристрій зберігання інформації, накопичувач

**Storage medium** носій пам'яті

**Store** запам'ятовувальний пристрій, пам'ять

**Stored program** завантажена програма

**Stored program concept** принцип зберігання програми в пам'яті ЕОМ

**Stored-program computer** ЕОМ із фіксованою програмою

**Structure chart** структурна схема

**Structured design** структурне проектування

**Structured flowchart** структурна блок-схема

**Structured programming** структурне програмування

**Structured walkthrough** структурний критичний аналіз

**Submit** запустити (програму)

**Subroutine** підпрограма

**Subscript** індекс, нижній індекс

**Summarize** підсумовувати

**Supercomputer** супер-ЕОМ, суперкомп'ютер

**Supervisor program** керівна програма, програма супервізора

**Swapping** перевантаження, обмін

**Switch** перемикач, комутатор

**Syntax** синтаксис

**Sysop (SYStem OPerator)** системний оператор

**System** система, пристрій, комплекс

**System analysis** системний аналіз

**System design** проектування системи

**System development** розроблення системи

**System device** системний пристрій

**System flowchart** системна блок-схема

**System library** системна бібліотека

**System maintenance** супровід системи, обслуговування системи

**System program** системне програмування

**System security** захист системи

**Systems analyst** системний аналітик (спеціаліст у галузі системного аналізу)

**Tape drive** накопичувач на магнітній стрічці, пристрій протягування стрічки

**Technique** метод, методика, техніка

**Telecommunication** дистанційний зв'язок, дистанційне передавання даних, телезв'язок, телекомунікація

**Teleconference** телеконференція

**Template** шаблон

**Terminal** термінал

**Text editing** редагування тексту

**Third-generation computer** ЕОМ третього покоління

**Thrashing** переповнювання (пам'яті)

**Time-sharing** розподіл часу, режим розподілу часу

**Top-down design** низхідне проектування

**Touch screen** сенсорний екран

**Track** доріжка, тракт

**Transaction** вхідне повідомлення, опрацювання запиту, виконання

**Transaction file** файл змін

**Transfer** передача (даних), перенесення, переміщення, пересилання, перехід

**Transient routine** нерезидентна програма

**Transistor** транзистор

**Transponder** відповідач

**Transportable** мобільний

**Typewriter** друкарський пристрій

**Undo** відміна (команди), повернення (до попереднього стану), відмінити

**UPC (Universal Product Code)** універсальний штриховий товарний код

**Update** змінювати, модифікувати, оновлювати

**User group** група користувачів

**Utility program** службова програма

**Vacuum tube** електронна лампа

**Variable-length record** запис змінної довжини

**Verify** перевіряти, контролювати, звіряти, зіставляти

**Virtual storage** віртуальна пам'ять, віртуальний запам'ятовувальний пристрій

**Voice input device** пристрій мовленнєвого введення

**Voice recognition system** система розпізнавання голосу

**Voice-grade channel** телефонний канал

**Volatility** мінливість, енергозалежність

**Wand** ручний сканер

**Wheel printer** пелюстковий друкарський пристрій

**Window (window environment)** вікно, віконне середовище

**Wire** дріт, провід, шина

**Word** слово

**Word processing** текстовий редактор, система опрацювання текстів

**Word processor** система опрацювання текстів, текстовий процесор

**Word size** довжина слова

**Word wraps** автоматичний перехід до нового рядка, автоматичне перенесення (слова)

**Zone bit** біт зони

## **APPENDIX 1**

### **Latin Words and Phrases**

<b>A. D. Anno Domini</b>	нашої ери
<b>a d. (a dato)</b>	з дня підпису
<b>addendum</b>	додаток
<b>ad exemplum</b>	за зразком
<b>ad legem</b>	за законом
<b>ad referendum</b>	для подальшого розгляду
<b>ad val</b>	згідно з вартістю
<b>a. c. (anni currentis)</b>	цього року
<b>appendix</b>	додаток
<b>contra</b>	проти, всупереч
<b>consensus</b>	згода
<b>copia vera</b>	копія правильна
<b>de dato</b>	датований
<b>de facto</b>	дійсно, фактично
<b>de jure</b>	формально, за законом
<b>e. g. (exempli gratia)</b>	наприклад
<b>ex lege</b>	згідно із законом
<b>force majeure</b>	надзвичайна обставина
<b>hoc est (h. e. )</b>	це означає
<b>id est (i. e. )</b>	тобто
<b>ibidem (ib.)</b>	там же
<b>in brevi</b>	коротко
<b>in facto</b>	фактично
<b>in pari passu</b>	на рівних засадах
<b>in persona</b>	особисто
<b>NB (nota bene)</b>	зверни увагу
<b>omnius concensu</b>	за загальною згодою
<b>per annum</b>	щорічно
<b>per capita</b>	на душу населення
<b>per procurationem (p. p. )</b>	за дорученням
<b>post factum</b>	після того, як подія відбулася
<b>postscriptum (P. S. )</b>	постскрипtum, додаток до
<b>status juridicus</b>	правовий стан
<b>status quo</b>	фактичний стан
<b>verso folio</b>	на звороті
<b>via</b>	через, при посередництві
<b>vice versa</b>	навпаки



## APPENDIX 2 Abbreviations

<b>ADP (Automatic Data Processing)</b>	автоматичне опрацювання даних
<b>AI (Artificial Intelligence)</b>	штучний інтелект
<b>ALU (Arithmetic Logic Unit)</b>	арифметико-логічний пристрій
<b>APL (A Programming Language)</b>	мова програмування
<b>BASIC (Beginners' AN-purpose Symbolic Instruction Code)</b> (алгоритмічна мова)	Бейсик
<b>BCD (Binary Coded Decimal)</b>	двійкове-десятькове число
<b>CAD (Computer-Aided Design)</b>	автоматизоване проектування
<b>CAI (Computer-Aided Instruction)</b>	комп'ютеризоване навчання
<b>CAL (Computer –Assisted Learning)</b>	комп'ютеризоване навчання
<b>CAN (Control Area Network)</b>	мережа контролерів
<b>CCD (Charge-Coupled Device)</b>	пристрій з зарядовим зв'язком
<b>COBOL (COmmon Business-Oriented Language)</b> мова)	Кобол (алгоритмічна мова)
<b>CPU (Central Processing Unit)</b>	центральний процесор
<b>CRT (Cathode Ray Tube)</b>	електронно-променева трубка
<b>CT or CAT scanning (Computer Aided Tomography)</b>	комп'ютерна томографія
<b>DDP (Distributed Data Processing System)</b>	розподілена система опрацювання даних
<b>DSS (Decision Support System)</b>	система забезпечення прийняття рішень
<b>EDP (Electronic Data Processing)</b>	електронне опрацювання даних
<b>EIS (Executive Information System)</b>	виконавча інформаційна система
<b>EPROM (Erasable Programmable Read-Only Memory)</b> програмована постійна пам'ять	ППЗП,
<b>FD (Flexible Disk)</b>	гнучкий диск
<b>FORTRAN (FORmula TRANslator)</b>	Фортран (алгоритмічна мова)

**IBG (InterBlock Gap)** міжблоковий проміжок

**IRG (InterRecord Gap)** проміжок між записами, сигнал кінця запису

**IS (Information System)** інформаційна система

**IT (Information Technology)** інформаційна технологія

**JCL (Job-Control Language)** мова керування завданнями

**LAN (Local-Area Network)** локальна мережа

**LISP (LISt Processing)** Лісп (алгоритмічна мова)

**LSI (Large-Scale Integration)** інтеграція високого рівня

**LU (Logical Unit)** логічний елемент, логічний пристрій

**MIPS (Million Instructions Per Second)** мільйон операцій за секунду

**MIS (Management Information System)** адміністративно-інформаційна система, інформаційно-керівна система

**NFS (Network File Standard)** стандарт мережених файлів

**OCR (Optical-Character Recognition)** оптичне розпізнавання символів

**OS (Operating System)** операційна система

**Pixel (PIcture ELeMent)** елемент зображення, піксел, цятка

**PL/1 (Programming Language One)** ПЛ/1 (алгоритмічна мова)

**PROM (Programmable Read-Only Memory)** ППЗП, програмована постійна пам'ять

**PSE (Project Support Environment)** комп'ютерне забезпечення проектування

**RAM (Random-Access Memory)** запам'ятовувальний пристрій з довільним доступом, оперативна пам'ять

**ROM (Read-Only Memory)** ПЗП, постійна пам'ять

**RPG (Report Program Generator)** генератор звітів

**UPC (Universal Product Code)** універсальний штриховий товарний код

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