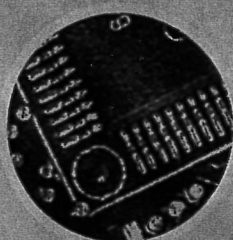
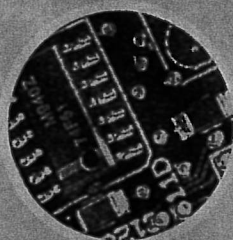
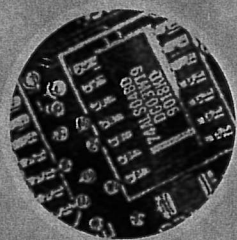


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serial mouse A computer mouse that connects to a **serial port**. This contrasts, for instance, with a bus mouse.

serial number 1. A number or sequence of characters which uniquely identifies an item or product. 2. A number that identifies an item or position within a sequence.

serial operation 1. The performance of two or more operations in sequence. 2. Operation of a circuit or device whose components are connected in series.

serial output One of multiple outputs which are delivered in sequence. Seen, for instance, in serial transmission. This contrasts with **parallel output**, in which all outputs are delivered simultaneously.

serial/parallel Supporting or utilizing both serial and parallel functions or devices. For example, a controller card which supports both serial and parallel interfaces.

serial port A computer port utilizing a **serial interface**.

serial printer 1. A printer which prints a single character at a time. Examples include daisy-wheel printers and dot-matrix printers. Also called **character printer** (1). 2. A printer that connects to a computer via a serial interface.

serial processing The execution of multiple computer operations one after the other. This contrasts with **parallel processing** (2) in which multiple operations are executed simultaneously.

serial programming Computer programming in which steps or operations are performed in sequence. In **parallel programming**, multiple steps or operations are performed simultaneously. Also called **series programming**, or **sequential programming**.

serial SCSI The use of a SCSI Interface implementing a serial protocol. Since SCSI provides a parallel interface, the appropriate signal conversions must be performed.

serial storage Same as **serial access** (1).

Serial Storage Architecture Same as **SSA**.

serial stream The transmission of bits, characters, or data units one at a time in sequence. A **parallel stream** provides for the simultaneous transmission of bits, characters, or data units utilizing multiple lines, fibers, channels, or the like.

serial transfer The transfer of bits, characters, or data units one at a time in sequence. This contrasts with **parallel transfer**, in which multiple bits, characters, or data units are transferred simultaneously. Also called **serial data transfer**.

serial transmission The transmission of bits, characters, or data units one at a time in sequence. This contrasts with **parallel transmission**, in which multiple bits, characters, or data units are transmitted simultaneously. Also called **serial data transmission**.

serialize To convert parallel streams of bits into a serial stream of bits. A parallel stream consists of one more bytes, while a serial stream has one bit after the other.

series 1. An arrangement of two or more related things, entities, or events, in a given order. 2. An arrangement of two or more related things, entities, or events, in a successive order. 3. That which is ordered by a **series** (1) or **series** (2). 4. Characteristic of, or pertaining to a **series circuit** or **series connection**. 5. The sum of a finite or infinite sequence of numbers or terms. 6. A group of related objects or entities which vary or occur in a given sequence. For example, a radioactive decay series.

series-aiding Two or more sources of emf which aid in current flowing in the same direction. In sources which are **series-opposing** the converse is true.

series capacitance The total capacitance of **series capacitors**.

series capacitors Two or more capacitors connected in series. The total capacitance is the reciprocal of the sum of the reciprocal of the value of each of the individual capacitances. Also called **capacitors in series**.

series circuit A circuit whose components are connected in series. That is, they have a **series connection**.

series connection The end-to-end connection of the components within a circuit. There is a single path for the current, which flows through all the components in sequence, while the voltage is divided among the components. This contrasts with **parallel connection**, where the connection is side-by-side, or otherwise in a manner where the current is divided among the components. Also called **in series**.

series decay The transformation of a nuclide into another nuclide through radioactive decay, followed by further transformations until a stable, or nonradioactive, nuclide results. In such a series, the first member is called the parent, and the last is the end product. For instance, the chemical element uranium undergoes a series of radioactive decay steps which eventually ends with a stable isotope of lead. Also called **series disintegration**, **chain decay**, or **radioactive chain decay**.

series disintegration Same as **series decay**.

series dropping resistor A resistor used in series with a load, which reduces the voltage applied to said load. The voltage reduction is equal to the voltage drop across the terminals of the resistor. Also called **dropping resistor**.

series-fed That which has a **series feed**. Also, pertaining to that which has a series feed.

series feed The application, in series, of a DC voltage and an AC voltage to a component or device.

series generator An electric generator whose armature and field windings are connected in series. Also called **series-wound generator**.

series impedance An impedance acting in series with another quantity or magnitude, such as another impedance.

series inductance An inductance acting in series with another quantity or magnitude, such as a capacitance.

series inductors Two or more inductors connected in series. When said inductors are sufficiently shielded or apart from each other, the magnetic inductance is considered to be negligible. Otherwise, such inductance, or coupling, must be factored in.

series motor An electric motor whose armature and field windings are connected in series. Also called **series-wound motor**.

series network An electric network whose components are connected in series. That is, they have a **series connection**.

series operation 1. The performance of two or more operations sequentially. 2. Operation of a circuit or device whose components are connected in series.

series-opposing Two or more sources of emf which oppose current flowing in the same direction. In sources which are **series-aiding** the converse is true.

series-parallel Also called **series-parallel circuit**. 1. A circuit which incorporates both parallel connections and serial connections of its components. For instance, a circuit with multiple parallel paths, each with components connected in series. Also, pertaining to such a circuit. 2. A circuit whose components can be arranged either in a parallel or series manner.

series-parallel arrangement Same as **series-parallel connection**.

series-parallel circuit Same as **series-parallel**.

series-parallel connection The arrangement of a **series-parallel circuit**. Also called **series-parallel arrangement**.

series-parallel switch A switch that allows two or more components to be connected in series or in parallel.

series programming Same as **serial programming**.

series regulator A regulator, such as a voltage regulator, which is connected in series with a device or load.