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## A Dictionary of Computing

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Commonts used logie symbols
as verbs: log off, log out, or sigh off. By logging off, the user ensures that all the system resources that have been used during the session are secounted for, and any tempotary files created during the session afe delered.
logon 1. (or log on) Set login.
2. A unit of information, equal to the product of one unit of *bandwidth by one unit of time, in Denis Gabor's physical theory of communication. In contrast, Shamon's mathematical theory of communication uses the concept of * entropy.
logout (or log out) See logoff:
longitudinal redundancy check (LRC) See cyelic redundancy check.
lookahead Sherl for carry lookahead.
lookahead unit A unit forming part of an instruction unit pipeline in computers such as "Stretch.
lookup table See table lookup
loop 1 A sequence of instructions that is repeated untila prescribed condition, such as agreement with a dara element of completion of a count, is satisfied, Suz a/so do loop 2. A configuration of a *local area network

that consists of nodes comnected serially in a ring topology. Sze ring net work.
3. (local loop) The (twisted pair) connection from a switching exch:ange to the subscriber terminal.
loop invariant Ste invariant.
lossless coding Cading in which no *information whatsoever is hast during the *encosting (or *decoding) process. Generally, *encryption and *decryption are lossless, as is *chamel coding. Strictly, "data compaction is lossless, while "dat:a compression is not, but the latter term is ofien used for the former. The decoding of (i, e recovery from) compression and compaction are lossless But the decoding of a signal received from : "channel is usually lossy (strictly not lossless) by design, since the * noise at least must be lose the message entering the clamnel will ustally have been prepared so ats to permit this loss by the use of an *error-correcting code.
lossless compression Any method of ${ }^{4}$ compression that allows the original data to be recovered from the compressed data. Szz ako lossless coding

