







How to design a block eigher?
Computerization -> banks
Lloyds bank (London)
NIST (NBS -, Nortional Bureau of Standard)
(National Inst for Std. & Tech.)
under the dept of commerce, VI govt.
Requirements -> asked for designs
rented -s asked again
IBM - derigned Lucifer
Don Coppersmith, Horst Perstel,
Revised by NSA -
-> Became Date Encryption Standard
DES (70°)
$\frac{1}{\sqrt{70^5}}$
64 bit block cipher
56 bit search key
8 64
8 blocks X7 Gits
checksum = 56 bit7
(1) The biggest criticism of DEI - Small key size
(ii) design criteria are not public
- fear of hidden trap doors

