Memory — a form of communication

\[ D_5 D_4 D_3 \{ \text{parity-bit} } \]

How to detect an error?

\[ P = \text{XOR}(D_5, D_4, \ldots, D_0) \]

Error \[ = \text{XOR}(D_5, D_4, \ldots, D_0, P) \]
Error correction

8-bits

4-bits + 3-bits

redundancy

Size = \(2^{7}/8\)
EEL201: Digital Electronic Circuits

Shouri Chatterjee
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Department of Electrical Engineering,
Indian Institute of Technology, Delhi,
Hauz Khas, New Delhi 110016