

Digital Electronics

CARACTERISTICS OF LOGIC FAMILY



PROPAGATION DELAY (t_{pd})

Measured in nano seconds (ns)

Time taken for signal to propagate from input to output.

Time taken for signal to propagate from input to output (t_{rise} > t_{fall}) due to storage time or calculation delay.



Due to the propagation delay in the gates, the output signal is not exactly identical to the input signal. When the input is applied.



$$t_{pd} = \frac{t_{rise} + t_{fall}}{2}$$

In reality, transition changes (transitions from 0 to 1 or vice versa) doesn't happen instantaneously. Sometimes it spent some time in between (0 and 1) state.

All logic family is the fastest among all.

POWER DISSIPATION

Power dissipation is power dissipated by a logic gate.

Measured in milliwatts (mW)

Mathematically

$$P_{diss} = V_{cc} \times I_{c(avg)}$$

$$I_{c(avg)} = \frac{I_c(0) + I_c(1)}{2}$$

I_{c(0)} = I_c (low)

I_{c(1)} = I_c (high)

CMOS logic family has lowest power dissipation.

Ideally should be zero, but practically low current.



$$V_{cc} - V_{ce(sat)} = I_{c(sat)} R_c$$

$$I_{c(sat)} = \frac{V_{cc} - V_{ce(sat)}}{R_c}$$

FIGURE OF MERIT

Mathematically

$$F.O.M = t_{pd} \times P_{diss}$$

$$= ns \times mW$$

$$= pJ \text{ (Picjoules)}$$

$$CMOS = 0.1 pJ \text{ to } 0.7 pJ$$

Best F.O.M is for CMOS logic family among all logic families. CMOS has F.O.M in range of 0.1 pJ to 0.7 pJ.

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**Thrasyvoulos Tsiatsos, Stavros
Demetriadis, Anastasios
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Social Computing and Social Media Adela Coman, Simona Vasilache, 2023-07-08 This two volume set LNCS 14025 and 14026 constitutes the refereed proceedings of the 15th International Conference on Social Computing and Social Media SCSM 2023 held as part of the 25th International Conference HCI International 2023 held in Copenhagen Denmark in July 2023 The total of 1578 papers and 396 posters included in the HCII 2023 proceedings was carefully reviewed and selected from 7472 submissions The SCSM 2023 conference offers a wide range of topics related to the design development assessment use and impact of social media

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media in such venues as online newspapers blogs discussion forums and mobile texting and multi media technologies such as games and virtual reality

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