



Fig. 8.31 Snapper. Icons (a) and circuit (b).

As it is impossible to indicate any dependency between an input and an output, no truth table can be given. A snapper is not a logic gate but the simplest form of an unlocked bistable. Snappers are also known as bus holders, holding amplifiers, and level retention devices.

Observation 8.8. *Its bistable nature notwithstanding, a snapper is not intended for data storage. Spurious signals such as glitches may cause a snapper to toggle at any time. Once driving of its terminal node has ceased, any state previously assumed must be regarded as corrupted.*

Much like any other bistable subcircuit, a snapper exhibits metastability when subjected to marginal triggering. For the memory loop to reliably snap into a new state, any data transition must reach a valid logic state and rest there for some minimum time. Timing conditions are, therefore, expressed in terms of minimum low and high times for the snapper's terminal.

8.4.2 Schmitt trigger

What sets Schmitt triggers apart from buffers and inverters is their hysteresis, see fig.8.32. As opposed to ordinary gates, the output is logically defined for any input voltage with no indeterminate or forbidden interval. Instead, distinct thresholds apply to rising and to falling input voltages, which means that a Schmitt trigger's output partly depends on past input.³²

$$U_{hF} = U_{th} - U_{tl} > 0 \quad (8.46)$$

Hysteresis is desirable in certain situations to obtain ample noise margins and/or better level restoration than ordinary buffers or inverters would provide. External inputs, for instance, are often passed through Schmitt triggers to filter out noise and to reshape waveforms. Three alternative circuit diagrams are shown in fig.8.33. Observe that positive feedback is essential in obtaining hysteresis and that its exact amount U_{hF} is a function of the transistor sizes involved. Figure 8.33b makes use of weaker-than-normal MOSFETs to obtain a limited degree of feedback whereas c and d can be designed to make do with minimum-length transistors.

³² The assignment of the mathematical symbols U_{th} and U_{tl} to a Schmitt trigger's pair of threshold voltages is debatable. Some sources of information assign them the other way round so that $U_{th} < U_{tl}$. With the definition $U_{hF} = U_{tl} - U_{th}$, a hysteresis of $U_{hF} < 0$ naturally follows for all regular gates and $U_{hF} > 0$ for Schmitt triggers. While this is meaningful, we prefer the assignment of fig.8.32 because U_{th} thus consistently defines the upper bound below which all input voltages get interpreted as logic 0, and vice versa for U_{th} .

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Shasha Hu



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