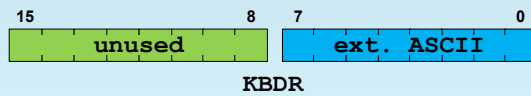


KBDR is 8-bit ASCII Zero-Extended to 16 Bits

The KBDR holds a **single keystroke** as an **extended ASCII** (8-bit) character.

The character is **in KBDR[7:0]**.

The upper 8 bits, **KBDR[15:8]**, are not used, and are **filled with 0s** when read.



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Where is the Status Bit in KBSR?

Where should the status bit go in KBSR?



I like 42, and $4+2 = 6$, so maybe in bit 6?

Is there a better reason for another bit?

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Only Status Bit (KBSR[15]) is Usable by Software

KBSR[15] is the **status bit** for the keyboard.

- When **KBSR** is loaded,
- the **N** condition holds the **status bit**.



Other bits are undefined.

- A future implementation may define them.
- They **must be ignored** by software.

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Protocol Violations Considered Harmful

What happens if a **second key is pressed before the processor reads the first key?**

No place to store a second key value,
so one key is lost
(which key depends on the
implementation).

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