

# TTY Buffer

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Here, we document functions for taking care of tty buffer and their flipping. Drivers are supposed to fill the buffer by one of those functions below and then flip the buffer, so that the data are passed to `:doc: line discipline <tty_ldisc>` for further processing.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\tty\linux-master) (Documentation) (tty) tty\_buffer.rst, line 9); [backlink](#)**

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## Flip Buffer Management

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\tty\linux-master) (Documentation) (tty) tty\_buffer.rst, line 17)**

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```
.. kernel-doc:: drivers/tty/tty_buffer.c
   :identifiers: tty_prepare_flip_string tty_insert_flip_string_fixed_flag
                 tty_insert_flip_string_flags __tty_insert_flip_char
                 tty_flip_buffer_push tty_ldisc_receive_buf
```

## Other Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\tty\linux-master) (Documentation) (tty) tty\_buffer.rst, line 27)**

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```
.. kernel-doc:: drivers/tty/tty_buffer.c
   :identifiers: tty_buffer_space_avail tty_buffer_set_limit
```

## Buffer Locking

These are used only in special circumstances. Avoid them.

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\tty\linux-master) (Documentation) (tty) tty\_buffer.rst, line 37)**

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```
.. kernel-doc:: drivers/tty/tty_buffer.c
   :identifiers: tty_buffer_lock_exclusive tty_buffer_unlock_exclusive
```

## Internal Functions

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\tty\linux-master) (Documentation) (tty) tty\_buffer.rst, line 45)**

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```
.. kernel-doc:: drivers/tty/tty_buffer.c
   :internal:
```