



*Full credit is given to the above companies including the OS that this PDF file was generated!*

### ***Rocky Enterprise Linux 9.2 Manual Pages on command 'UI\_get0\_test\_string.3ossl'***

***\$ man UI\_get0\_test\_string.3ossl***

UI\_STRING(3ossl)            OpenSSL            UI\_STRING(3ossl)

#### **NAME**

UI\_STRING, UI\_string\_types, UI\_get\_string\_type, UI\_get\_input\_flags,  
UI\_get0\_output\_string, UI\_get0\_action\_string, UI\_get0\_result\_string,  
UI\_get\_result\_string\_length, UI\_get0\_test\_string,  
UI\_get\_result\_minsize, UI\_get\_result\_maxsize, UI\_set\_result,  
UI\_set\_result\_ex - User interface string parsing

#### **SYNOPSIS**

```
#include <openssl/ui.h>
```

```
typedef struct ui_string_st UI_STRING;
```

```
enum UI_string_types {
```

```
    UIT_NONE = 0,
```

```
    UIT_PROMPT,            /* Prompt for a string */
```

```
    UIT_VERIFY,           /* Prompt for a string and verify */
```

```

    UIT_BOOLEAN,          /* Prompt for a yes/no response */
    UIT_INFO,            /* Send info to the user */
    UIT_ERROR            /* Send an error message to the user */
};

enum UI_string_types UI_get_string_type(UI_STRING *uis);
int UI_get_input_flags(UI_STRING *uis);
const char *UI_get0_output_string(UI_STRING *uis);
const char *UI_get0_action_string(UI_STRING *uis);
const char *UI_get0_result_string(UI_STRING *uis);
int UI_get_result_string_length(UI_STRING *uis);
const char *UI_get0_test_string(UI_STRING *uis);
int UI_get_result_minsize(UI_STRING *uis);
int UI_get_result_maxsize(UI_STRING *uis);
int UI_set_result(UI *ui, UI_STRING *uis, const char *result);
int UI_set_result_ex(UI *ui, UI_STRING *uis, const char *result, int len);

```

## DESCRIPTION

The UI\_STRING gets created internally and added to a UI whenever one of the functions UI\_add\_input\_string(), UI\_dup\_input\_string(), UI\_add\_verify\_string(), UI\_dup\_verify\_string(), UI\_add\_input\_boolean(), UI\_dup\_input\_boolean(), UI\_add\_info\_string(), UI\_dup\_info\_string(), UI\_add\_error\_string() or UI\_dup\_error\_string() is called. For a UI\_METHOD user, there's no need to know more. For a UI\_METHOD creator, it is of interest to fetch text from these UI\_STRING objects as well as adding results to some of them.

UI\_get\_string\_type() is used to retrieve the type of the given UI\_STRING.

UI\_get\_input\_flags() is used to retrieve the flags associated with the given UI\_STRING.

`UI_get0_output_string()` is used to retrieve the actual string to output (prompt, info, error, ...).

`UI_get0_action_string()` is used to retrieve the action description associated with a `UIT_BOOLEAN` type `UI_STRING`. For all other `UI_STRING` types, `NULL` is returned. See `UI_add_input_boolean(3)`.

`UI_get0_result_string()` and `UI_get_result_string_length()` are used to retrieve the result of a prompt and its length. This is only useful for `UIT_PROMPT` and `UIT_VERIFY` type strings. For all other `UI_STRING` types, `UI_get0_result_string()` returns `NULL` and `UI_get_result_string_length()` returns `-1`.

`UI_get0_test_string()` is used to retrieve the string to compare the prompt result with. This is only useful for `UIT_VERIFY` type strings. For all other `UI_STRING` types, `NULL` is returned.

`UI_get_result_minsize()` and `UI_get_result_maxsize()` are used to retrieve the minimum and maximum required size of the result. This is only useful for `UIT_PROMPT` and `UIT_VERIFY` type strings. For all other `UI_STRING` types, `-1` is returned.

`UI_set_result_ex()` is used to set the result value of a prompt and its length. For `UIT_PROMPT` and `UIT_VERIFY` type `UI` strings, this sets the result retrievable with `UI_get0_result_string()` by copying the contents of result if its length fits the minimum and maximum size requirements. For `UIT_BOOLEAN` type `UI` strings, this sets the first character of the result retrievable with `UI_get0_result_string()` to the first `ok_char` given with `UI_add_input_boolean()` or `UI_dup_input_boolean()` if the result matched any of them, or the first of the `cancel_chars` if the result matched any of them, otherwise it's set to the NUL char `"\0"`. See `UI_add_input_boolean(3)` for more information on `ok_chars` and `cancel_chars`.

UI\_set\_result() does the same thing as UI\_set\_result\_ex(), but calculates its length internally. It expects the string to be terminated with a NUL byte, and is therefore only useful with normal C strings.

## RETURN VALUES

UI\_get\_string\_type() returns the UI string type.

UI\_get\_input\_flags() returns the UI string flags.

UI\_get0\_output\_string() returns the UI string output string.

UI\_get0\_action\_string() returns the UI string action description string for UIT\_BOOLEAN type UI strings, NULL for any other type.

UI\_get0\_result\_string() returns the UI string result buffer for UIT\_PROMPT and UIT\_VERIFY type UI strings, NULL for any other type.

UI\_get\_result\_string\_length() returns the UI string result buffer's content length for UIT\_PROMPT and UIT\_VERIFY type UI strings, -1 for any other type.

UI\_get0\_test\_string() returns the UI string action description string for UIT\_VERIFY type UI strings, NULL for any other type.

UI\_get\_result\_minsize() returns the minimum allowed result size for the UI string for UIT\_PROMPT and UIT\_VERIFY type strings, -1 for any other type.

UI\_get\_result\_maxsize() returns the minimum allowed result size for the UI string for UIT\_PROMPT and UIT\_VERIFY type strings, -1 for any other type.

UI\_set\_result() returns 0 on success or when the UI string is of any type other than UIT\_PROMPT, UIT\_VERIFY or UIT\_BOOLEAN, -1 on error.

#### SEE ALSO

UI(3)

#### COPYRIGHT

Copyright 2001-2018 The OpenSSL Project Authors. All Rights Reserved.

Licensed under the Apache License 2.0 (the "License"). You may not use this file except in compliance with the License. You can obtain a copy in the file LICENSE in the source distribution or at <https://www.openssl.org/source/license.html>.

3.0.7

2023-07-13

UI\_STRING(3openssl)