

ustrlen() — Length of Unicode string in Unicode characters

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Description

`ustrlen(s)` returns the number of Unicode characters in the Unicode string *s*. An invalid UTF-8 sequence is counted as one Unicode character. Note that any Unicode character besides ASCII characters (0–127) takes more than 1 byte in UTF-8 encoding, for example, “é” takes 2 bytes.

`ustrinvalidcnt(s)` returns the number of invalid UTF-8 sequences in *s*. An invalid UTF-8 sequence can contain one byte or multiple bytes.

When *s* is not a scalar, functions return element-by-element results.

Syntax

real matrix `ustrlen(string matrix s)`

real matrix `ustrinvalidcnt(string matrix s)`

Remarks and examples

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`ustrlen(s)`, when *s* is a binary string (a string containing null terminator `char(0)`), returns the overall length of the Unicode string. Note that null terminator `char(0)` is a valid Unicode code point.

Use `udstrlen()` to obtain the length of a string in display columns. Use `strlen()` to obtain the length of a string in bytes. See [U] 12.4.2.2 [Displaying Unicode characters](#).

Conformability

`ustrlen(s)`, `ustrinvalidcnt(s)`:

s: $r \times c$
result: $r \times c$

Diagnostics

`ustrlen(s)` and `ustrinvalidcnt(s)` return negative error codes if an error occurs.

Also see

[M-5] `strlen()` — Length of string in bytes

[M-5] `udstrlen()` — Length of Unicode string in display columns

[M-4] **String** — String manipulation functions

[U] **12.4.2.2 Displaying Unicode characters**

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