

## 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](#)