substr() —	Extract	substring
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Description Syntax Remarks and examples Conformability Diagnostics Also see

Description

substr(s, b, l) returns the substring of ASCII string s starting at position b and continuing for a length of l characters.

For non-ASCII strings, b and l are interpreted as byte positions. To obtain character-based substrings of Unicode strings, see [M-5] usubstr().

substr(s, b) is equivalent to substr(s, b, .) for strings that do not contain binary 0. If there is a binary 0 to the right of b, the substring from b up to but not including the binary 0 is returned.

When arguments are not scalar, substr() returns element-by-element results.

Syntax

string matrix substr(string matrix s, real matrix b, real matrix l)

string matrix substr(string matrix s, real matrix b)

Remarks and examples

substr(s, b, l) returns the substring of ASCII string s starting at position b and continuing for a length of l, where

- 1. b specifies the starting position; the first character of the string is b = 1.
- 2. b > 0 is interpreted as distance from the start of the string; b = 2 means starting at the second character.
- 3. b < 0 is interpreted as distance from the end of string; b = -1 means starting at the last character; b = -2 means starting at the second from the last character.
- 4. *l* specifies the length; l = 2 means for two characters.
- 5. l < 0 is treated the same as l = 0: no characters are copied.
- 6. $l \ge .$ is interpreted to mean to the end of the string.

substr(s, b) is equivalent to substr(s, b, .) for strings that do not contain binary 0. If there is a binary 0 to the right of b, the substring from b up to but not including the binary 0 is returned.

If your string contains Unicode characters, see [M-5] usubstr() and [M-5] udsubstr().

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Conformability

substr(s, b, l):	
s:	$r_1 \times c_1$
b:	$r_2 \times c_2$
l:	$r_3 \times c_3; s, b, \text{ and } l \text{ r-conformable}$
result:	$\max(r_1, r_2, r_3) \times \max(c_1, c_2, c_3)$
substr(s, b):	
s:	$r_1 \times c_1$
b:	$r_2 \times c_2$; s and b r-conformable
result:	$\max(r_1, r_2) \times \max(c_1, c_2)$

Diagnostics

In substr(s, b, l) and substr(s, b), if b describes a position before the beginning of the string or after the end, "" is returned. If b + l describes a position to the right of the end of the string, results are as if a smaller value for l were specified.

Also see

- [M-5] **subinstr()** Substitute text
- [M-5] _substr() Substitute into string
- [M-5] usubinstr() Replace Unicode substring
- [M-5] usubstr() Extract Unicode substring
- [M-5] _usubstr() Substitute into Unicode string
- [M-4] string String manipulation functions
- [U] 12.4.2 Handling Unicode strings