substr() — Extract substring

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().

Conformability

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
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