



 AHELP for CIAO 3.4

sscanf

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Synopsis

Parse a formatted string

Syntax

```
Int_Type sscanf (s, fmt, r1, ... rN)
```

Description

```
String_Type s, fmt;
Ref_Type r1, ..., rN
```

The `sscanf` function parses the string `s` according to the format `fmt` and sets the variables whose references are given by `r1`, ..., `rN`. The function returns the number of references assigned, or `-1` upon error.

The format string `fmt` consists of ordinary characters and conversion specifiers. A conversion specifier begins with the special character `%` and is described more fully below. A white space character in the format string matches any amount of whitespace in the input string. Parsing of the format string stops whenever a match fails.

The `%` is used to denote a conversion specifier whose general form is given by `[%*][width][type]format` where the brackets indicate optional items. If `*` is present, then the conversion will be performed by no assignment to a reference will be made. The width specifier specifies the maximum field width to use for the conversion. The type modifier is used to indicate size of the object, e.g., a short integer, as follows.

If `type` is given as the character `h`, then if the format conversion is for an integer (dioux), the object assigned will be a short integer. If `type` is `l`, then the conversion will be to a long integer for integer conversions, or to a double precision floating point number for floating point conversions.

The format specifier is a character that specifies the conversion:

<code>%</code>	Matches a literal percent character. No assignment is performed.
<code>d</code>	Matches a signed decimal integer.
<code>D</code>	Matches a long decimal integer (equiv to <code>`ld'</code>)
<code>u</code>	Matches an unsigned decimal integer

```

U    Matches an unsigned long decimal integer (equiv to `lu')
i    Matches either a hexadecimal integer, decimal integer, or
    octal integer.
I    Equivalent to `li'.
x    Matches a hexadecimal integer.
X    Matches a long hexadecimal integer (same as `lx').
e,f,g Matches a decimal floating point number (Float_Type).
E,F,G Matches a double precision floating point number, same as `lf'.
s    Matches a string of non-whitespace characters (String_Type).
c    Matches one character.  If width is given, width
    characters are matched.
n    Assigns the number of characters scanned so far.
[...] Matches zero or more characters from the set of characters
    enclosed by the square brackets.  If '^' is given as the
    first character, then the complement set is matched.

```

Example

Suppose that `s` is "Coffee: (3,4,12.4)". Then

```
n = sscanf (s, "[%a-zA-Z]: (%d,%d,%lf)", &item, &x, &y, &z);
```

will set `n` to 4, `item` to "Coffee", `x` to 3, `y` to 4, and `z` to the double precision number 12.4. However,

```
n = sscanf (s, "%s: (%d,%d,%lf)", &item, &x, &y, &z);
```

will set `n` to 1, `item` to "Coffee:" and the remaining variables will not be assigned.

See Also

slangrtl

[apropos](#), [_print_stack](#), [_slang_guess_type](#), [atof](#), [char](#), [double](#), [fread](#), [fwrite](#), [int](#), [integer](#), [is_substr](#), [isdigit](#), [message](#), [pack](#), [pad](#) [pack format](#), [putenv](#), [set float format](#), [sizeof](#) [pack](#), [sprintf](#), [strcat](#), [string](#), [string match](#), [string match nth](#), [tolower](#), [toupper](#), [typecast](#), [uname](#), [unpack](#), [verror](#), [vmessage](#)