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functions: clearerr fclose feof ferror fflush fgeto fgetpos fgets fonen forintf fputc fputs fread freopen fscanf fseek fsetpos ftell fwrite getc getchar gets perror printf putc putchar puts remove rename rewind setbuf setvbut snprintf sprintf sscanf tmpfile tmpnam ungetc vfprintf

vfscanf vprintf vscanf vsnprintf vsprintf snprintf
int snprintf ( char \* s, size t n, const char \* format, ... );

ine suprimer ( char 3, size\_c ii, conse char Tormac, ... )

## Write formatted output to sized buffer

Composes a string with the same text that would be printed if *format* was used on printf, but instead of being printed, the content is stored as a *C string* in the buffer pointed by *s* (taking *n* as the maximum buffer capacity to fill).

If the resulting string would be longer than n-1 characters, the remaining characters are discarded and not stored, but counted for the value returned by the function.

A terminating null character is automatically appended after the content written.

After the format parameter, the function expects at least as many additional arguments as needed for format.

#### **Parameters**

Pointer to a buffer where the resulting C-string is stored. The buffer should have a size of at least *n* characters.

Maximum number of bytes to be used in the buffer.

The generated string has a length of at most n-1, leaving space for the additional terminating null character. size\_t is an unsigned integral type.

### format

s

n

function

C string that contains a format string that follows the same specifications as *format* in printf (see printf for details).

... (additional arguments)

Depending on the *format* string, the function may expect a sequence of additional arguments, each containing a value to be used to replace a *format specifier* in the *format* string (or a pointer to a storage location, for n). There should be at least as many of these arguments as the number of values specified in the *format specifiers*. Additional arguments are ignored by the function.

#### **Return Value**

The number of characters that would have been written if n had been sufficiently large, not counting the terminating  $null\ character$ .

If an encoding error occurs, a negative number is returned.

Notice that only when this returned value is non-negative and less than n, the string has been completely written.

# **Example**

```
1 /* snprintf example */
 2 #include <stdio.h>
 4 int main ()
     char buffer [100];
     int cx;
     cx = snprintf ( buffer, 100, "The half of %d is %d", 60, 60/2 );
                                                                                      Fdit & Run
10
11
    if (cx>=0 && cx<100)
                                // check returned value
12
13
      snprintf ( buffer+cx, 100-cx, ", and the half of that is %d.", 60/2/2 );
14
15
    puts (buffer);
16
17
     return 0;
18 }
```

Output:

The half of 60 is 30, and the half of that is 15.

For more examples on formatting see printf.

# See also

printf	Print formatted data to stdout (function )	
sprintf	Write formatted data to string (function )	
strcat	Concatenate strings (function )	
sscanf	Read formatted data from string (function )	

TMP\_MAX

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