# CONIO Reference Manual 2.0

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## **CONIO Main Page**

Borland-style CONIO implementation for MinGW/Dev-C++.

#### Homepage

Send any improvements to this library to me, I'll do new release of this devpak.

For the example of use, look at example in the Examples\conio\conio\_test.c subdirectory of your Dev-C++ directory. It's simple:

- 1. Include conio2.h.
- 2. Link with libconio.a (add -lconio parameter to linker).

## Functions defined already in MinGW's conio.h

conio2.h automatically includes conio.h. It also provides several #defines so you can use all these functions without underscores.

```
char* _cgets (char*);
int _cprintf (const char*, ...);
int _cputs (const char*);
int _cscanf (char*, ...);
int _getch (void);
int _getche (void);
int _kbhit (void);
int _putch (int);
int _ungetch (int);
int getch (void);
int getche (void);
int kbhit (void);
int putch (int);
int ungetch (int);
Author:
```

```
Hongli Lai <hongli@telekabel.nl>
tkorrovi@altavista.net> on 2002/02/26.
Andrew Westcott <ajwestco@users.sourceforge.net>
Michal Molhanec <michal@molhanec.net>
```

2 CONIO Main Page

Version:

2.0

## **CONIO Namespace Index**

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Here is a list of all documented namespaces with brief descriptions:	
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## **CONIO Data Structure Index**

## 3.1 CONIO Data Structures

Here are the data structures with brief descriptions:	
char_info (Structure used by gettext/puttext )	. 13
text_info (Structure holding information about screen)	1.

## **CONIO File Index**

## 4.1 CONIO File List

П	ere is a list of all documented lifes with brief descriptions:	
	conio2.h (A conio implementation for Mingw/Dev-C++ )	1:
	constream (A constream implementation for Mingw/Dev-C++)	2

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## **CONIO** Namespace Documentation

## 5.1

This namespace contain all C++ specific things.

### **Functions**

- \_Setxy setxy (int x, int y)

  setxy manipulator
- \_Setclr setclr (int color)

  setclr manipulator
- \_Setbk setbk (int color)

  setbk manipulator
- \_Setattr setattr (int \_attr)

  setattr manipulator
- \_Setcrsrtype setcrsrtype (int type) setcrsrtype manipulator
- std::ostream & clrscr (std::ostream &o) clrscr manipulator
- std::ostream & clreol (std::ostream &o) clreol manipulator
- std::ostream & highvideo (std::ostream &o) highvideo manipulator
- std::ostream & lowvideo (std::ostream &o) lowvideo manipulator
- std::ostream & normvideo (std::ostream &o)

normvideo manipulator

```
• std::ostream & delline (std::ostream &o)

delline manipulator
```

• std::ostream & insline (std::ostream &o)

insline manipulator

## **5.1.1** Detailed Description

This namespace contain all C++ specific things.

## **5.1.2** Function Documentation

#### **5.1.2.1** std::ostream & o) [inline]

clreol manipulator

#### See also:

clreol(void)

## **5.1.2.2 std::ostream & o)** [inline]

clrscr manipulator

### See also:

clrscr(void)

### **5.1.2.3 std::ostream & o)** [inline]

delline manipulator

## See also:

delline(void)

## **5.1.2.4** std::ostream& highvideo (std::ostream & o) [inline]

highvideo manipulator

## See also:

highvideo(void)

5.1

```
5.1.2.5 std::ostream&insline(std::ostream&o) [inline]
insline manipulator
See also:
    insline(void)
5.1.2.6 std::ostream & o) [inline]
lowvideo manipulator
See also:
    lowvideo(void)
5.1.2.7 std::ostream& normvideo (std::ostream & o) [inline]
normvideo manipulator
See also:
    normvideo(void)
5.1.2.8 _Setattr setattr (int _attr) [inline]
setattr manipulator
See also:
    textattr
5.1.2.9 _Setbk setbk (int color) [inline]
setbk manipulator
See also:
    textbackground
5.1.2.10 _Setclr setclr (int color) [inline]
setclr manipulator
See also:
    textcolor
```

## **5.1.2.11** \_Setcrsrtype setcrsrtype (int *type*) [inline]

setcrsrtype manipulator

### See also:

\_setcursortype

## 5.1.2.12 Setxy setxy (int x, int y) [inline]

setxy manipulator

### See also:

gotoxy

## **CONIO Data Structure Documentation**

## 6.1 char\_info Struct Reference

Structure used by gettext/puttext.

```
#include <conio2.h>
```

### **Data Fields**

• char letter character value

• unsigned short attr attribute value

## **6.1.1 Detailed Description**

Structure used by gettext/puttext.

## See also:

```
_conio_gettext puttext
```

The documentation for this struct was generated from the following file:

• conio2.h

## 6.2 text\_info Struct Reference

Structure holding information about screen.

```
#include <conio2.h>
```

#### **Data Fields**

- unsigned char curx cursor coordinate x
- unsigned char cury cursor coordinate y
- unsigned short attribute current text attribute
- unsigned short normattr

  original value of text attribute after start of the application
- unsigned char screenwidth screen width
- unsigned char screenheight screen height

## **6.2.1** Detailed Description

Structure holding information about screen.

#### See also:

gettextinfo inittextinfo

#### **6.2.2** Field Documentation

#### 6.2.2.1 unsigned short text\_info::normattr

original value of text attribute after start of the application

If you don't called the <code>inittextinfo</code> on the beginning of the application, this always will be black background and light gray foreground

The documentation for this struct was generated from the following file:

• conio2.h

## **CONIO** File Documentation

## 7.1 conio2.h File Reference

```
A conio implementation for Mingw/Dev-C++. #include <conio.h>
```

### **Data Structures**

- struct text\_info

  Structure holding information about screen.
- struct char\_info

  Structure used by gettext/puttext.

## **Cursor types**

Predefined cursor types.

- #define \_NOCURSOR 0 no cursor
- #define \_SOLIDCURSOR 100 cursor filling whole cell
- #define \_NORMALCURSOR 20 cursor filling 20 percent of cell height

### **Defines**

• #define gettext \_conio\_gettext Define alias for \_conio\_gettext.

#### **Enumerations**

```
    enum COLORS {
    BLACK, BLUE, GREEN, CYAN,
    RED, MAGENTA, BROWN, LIGHTGRAY,
    DARKGRAY, LIGHTBLUE, LIGHTGREEN, LIGHTCYAN,
    LIGHTRED, LIGHTMAGENTA, YELLOW, WHITE }
```

Colors which you can use in your application.

### **Functions**

• void gettextinfo (struct text\_info \*info)

Returns information of the screen.

void inittextinfo (void)
 Call this if you need real value of normattr attribute in the text\_info structure.

void clreol (void)
 Clears rest of the line from cursor position to the end of line without moving the cursor.

• void clrscr (void)

Clears whole screen.

• void delline (void)

Delete the current line (line on which is cursor) and then moves all lines below one line up.

• void insline (void)

Insert blank line at the cursor position.

- void \_conio\_gettext (int left, int top, int right, int bottom, struct char\_info \*buf)

  Gets text from the screen.
- void puttext (int left, int top, int right, int bottom, struct char\_info \*buf)

  Puts text back to the screen.
- void movetext (int left, int top, int right, int bottom, int destleft, int desttop) *Copies text.*
- void gotoxy (int x, int y)

  Moves cursor to the specified position.
- void cputsxy (int x, int y, char \*str)

  Puts string at the specified position.
- void putchxy (int x, int y, char ch)

  Puts char at the specified position.
- void <u>\_setcursortype</u> (int type)

Sets the cursor type.

• void textattr (int \_attr)

Sets attribute of text.

• void normvideo (void)

Sets text attribute back to value it had after program start.

• void textbackground (int color)

Sets text background color.

• void textcolor (int color)

Sets text foreground color.

• int wherex (void)

Reads the cursor X position.

• int wherey (void)

Reads the cursor Y position.

• char \* getpass (const char \*prompt, char \*str)

Reads password.

• void highvideo (void)

Makes foreground colors light.

• void lowvideo (void)

Makes foreground colors dark.

### 7.1.1 Detailed Description

A conio implementation for Mingw/Dev-C++.

Written by: Hongli Lai <hongli@telekabel.nl> tkorrovi <tkorrovi@altavista.net> on 2002/02/26. Andrew Westcott <ajwestco@users.sourceforge.net> Michal Molhanec <michal@molhanec.net>

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### 7.1.2 Define Documentation

#### 7.1.2.1 #define gettext \_conio\_gettext

Define alias for \_conio\_gettext.

If you want to use gettext function from some other library (e.g. GNU gettext) you have to define \_-CONIO\_NO\_GETTEXT\_ so you won't get name conflict.

## **7.1.3** Enumeration Type Documentation

#### **7.1.3.1** enum **COLORS**

Colors which you can use in your application.

```
Enumeration values:
```

**BLACK** black color

BLUE blue color

GREEN green color

CYAN cyan color

RED red color

MAGENTA magenta color

BROWN brown color

LIGHTGRAY light gray color

DARKGRAY dark gray color

LIGHTBLUE light blue color

LIGHTGREEN light green color

LIGHTCYAN light cyan color

LIGHTRED light red color

LIGHTMAGENTA light magenta color

YELLOW yellow color

WHITE white color

#### 7.1.4 Function Documentation

#### 7.1.4.1 void \_conio\_gettext (int *left*, int *top*, int *right*, int *bottom*, struct char\_info \* *buf*)

Gets text from the screen.

If you haven't defined \_CONIO\_NO\_GETTEXT\_ prior to including conio2.h you can use this function also under the gettext name.

#### See also:

char\_info puttext

#### **Parameters:**

*left* Left coordinate of the rectangle, inclusive, starting from 1.

top Top coordinate of the rectangle, inclusive, starting from 1.

*right* Right coordinate of the rectangle, inclusive, starting from 1.

**bottom** Bottom coordinate of the rectangle, inclusive, starting from 1.

buf You have to pass buffer of size (right - left + 1) \* (bottom - top + 1) \*
 sizeof(char\_info).

#### 7.1.4.2 void \_setcursortype (int *type*)

Sets the cursor type.

#### See also:

cursortypes

#### **Parameters:**

type cursor type, under Win32 it is height of the cursor in percents

#### 7.1.4.3 void cputsxy (int x, int y, char \* str)

Puts string at the specified position.

#### **Parameters:**

- $\boldsymbol{x}$  horizontal position
- y vertical position

str string

#### 7.1.4.4 void delline (void)

Delete the current line (line on which is cursor) and then moves all lines below one line up.

Lines below the line are moved one line up.

#### 7.1.4.5 char\* getpass (const char \* prompt, char \* str)

Reads password.

This function behaves like cgets.

#### See also:

cgets

#### **Parameters:**

*prompt* prompt which will be displayed to user

str string for the password. str[0] have to contain length of the str-3

#### **Returns:**

&str[2], the password will be stored in str beginning at str[2], in str[1] will be length of the string without  $\setminus 0$ , at str[2 + str[1]] will be  $\setminus 0$ .

## 7.1.4.6 void gettextinfo (struct text\_info \* info)

Returns information of the screen.

#### See also:

text info

#### 7.1.4.7 void gotoxy (int x, int y)

Moves cursor to the specified position.

#### **Parameters:**

- $\boldsymbol{x}$  horizontal position
- y vertical position

#### 7.1.4.8 void highvideo (void)

Makes foreground colors light.

If the current foreground color is less than DARKGRAY adds 8 to the its value making dark colors light.

#### See also:

COLORS lowvideo

#### 7.1.4.9 void inittextinfo (void)

Call this if you need real value of normattr attribute in the text\_info structure.

#### See also:

 $text\_info$ 

#### 7.1.4.10 void insline (void)

Insert blank line at the cursor position.

Original content of the line and content of lines below moves one line down. The last line is deleted.

#### 7.1.4.11 void lowvideo (void)

Makes foreground colors dark.

If the current foreground color is higher than LIGHTGRAY substracts 8 from its value making light colors dark.

#### See also:

COLORS highvideo

#### 7.1.4.12 void movetext (int *left*, int *top*, int *right*, int *bottom*, int *destleft*, int *desttop*)

Copies text.

#### **Parameters:**

*left* Left coordinate of the rectangle, inclusive, starting from 1.

```
top Top coordinate of the rectangle, inclusive, starting from 1.
right Right coordinate of the rectangle, inclusive, starting from 1.
bottom Bottom coordinate of the rectangle, inclusive, starting from 1.
destleft Left coordinate of the destination rectangle.
desttop Top coordinate of the destination rectangle.
```

#### 7.1.4.13 void normvideo (void)

Sets text attribute back to value it had after program start.

It uses text\_info's normattr value.

#### See also:

text\_info

### 7.1.4.14 void putchxy (int x, int y, char ch)

Puts char at the specified position.

#### **Parameters:**

```
x horizontal positiony vertical positionch char
```

#### 7.1.4.15 void puttext (int *left*, int *top*, int *right*, int *bottom*, struct char\_info \* *buf*)

Puts text back to the screen.

#### See also:

```
char_info
_conio_gettext
```

#### **Parameters:**

```
left Left coordinate of the rectangle, inclusive, starting from 1.
top Top coordinate of the rectangle, inclusive, starting from 1.
right Right coordinate of the rectangle, inclusive, starting from 1.
bottom Bottom coordinate of the rectangle, inclusive, starting from 1.
buf You have to pass buffer of size (right - left + 1) * (bottom - top + 1) * sizeof(char_info).
```

#### 7.1.4.16 void textattr (int \_attr)

Sets attribute of text.

#### **Parameters:**

\_attr new text attribute

### 7.1.4.17 void textbackground (int color)

Sets text background color.

### See also:

**COLORS** 

#### **Parameters:**

color new background color

## 7.1.4.18 void textcolor (int color)

Sets text foreground color.

### See also:

**COLORS** 

#### **Parameters:**

color new foreground color

## **7.1.4.19** int wherex (void)

Reads the cursor X position.

#### **Returns:**

cursor X position

## **7.1.4.20** int wherey (void)

Reads the cursor Y position.

## **Returns:**

cursor Y position

## 7.2 constream File Reference

```
A constream implementation for Mingw/Dev-C++.

#include <iostream>
#include "conio2.h"
```

## **Namespaces**

• namespace conio

### **Functions**

- \_Setxy setxy (int x, int y)

  setxy manipulator
- \_Setclr setclr (int color)

  setclr manipulator
- \_Setbk setbk (int color)

  setbk manipulator
- \_Setattr setattr (int \_attr)

  setattr manipulator
- \_Setcrsrtype setcrsrtype (int type) setcrsrtype manipulator
- std::ostream & clrscr (std::ostream &o) clrscr manipulator
- std::ostream & clreol (std::ostream &o) clreol manipulator
- std::ostream & highvideo (std::ostream &o) highvideo manipulator
- std::ostream & lowvideo (std::ostream &o) lowvideo manipulator
- std::ostream & normvideo (std::ostream &o) normvideo manipulator
- std::ostream & delline (std::ostream &o) delline manipulator
- std::ostream & insline (std::ostream &o) insline manipulator

## 7.2.1 Detailed Description

A constream implementation for Mingw/Dev-C++.

#### Warning:

There is not implemented constream class, only manipulators for iostream, so use them on cin/cout.

#### **Author:**

```
Michal Molhanec <michal@molhanec.net>
```

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### 7.2.2 Function Documentation

```
7.2.2.1 std::ostream & clreol (std::ostream & o) [inline]
```

clreol manipulator

#### See also:

clreol(void)

#### **7.2.2.2 std::ostream & clrscr (std::ostream & o)** [inline]

clrscr manipulator

### See also:

clrscr(void)

#### 7.2.2.3 std::ostream & delline (std::ostream & o) [inline]

delline manipulator

#### See also:

delline(void)

## **7.2.2.4** std::ostream & highvideo (std::ostream & o) [inline]

highvideo manipulator

## See also:

highvideo(void)

## **7.2.2.5** std::ostream & insline (std::ostream & o) [inline]

insline manipulator

#### See also:

insline(void)

```
7.2.2.6 std::ostream & lowvideo (std::ostream & o) [inline]
lowvideo manipulator
See also:
    lowvideo(void)
7.2.2.7 std::ostream & normvideo (std::ostream & o) [inline]
normvideo manipulator
See also:
    normvideo(void)
7.2.2.8 _Setattr setattr (int _attr) [inline]
setattr manipulator
See also:
    textattr
7.2.2.9 _Setbk setbk (int color) [inline]
setbk manipulator
See also:
    textbackground
7.2.2.10 _Setclr setclr (int color) [inline]
setclr manipulator
See also:
    textcolor
7.2.2.11 _Setcrsrtype setcrsrtype (int type) [inline]
setcrsrtype manipulator
See also:
    _setcursortype
7.2.2.12 Setxy setxy (int x, int y) [inline]
setxy manipulator
See also:
    gotoxy
```

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