



**Note:** This IBM PC BIOS API call is for DOS/Win16 personality only. Use [Family API](#) for portability.

**Note:** [osFree Macro Library](#) provides macros for most of functions

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# @PutCh

## Version

IBM 5150 and higher

## Brief

Print Char

## BIOS Interrupt

[INT10H: 0AH](#)

## Family API

[VioWrtNCell](#) [VioWrtNAttr](#) [VioWrtNChar](#)

## Syntax

```
@PutCh char, atrib, page, repeat
```

## Parameters

- char (BYTE) - code of character
- atrib (BYTE) - optional character attribute
- col (BYTE) - column
- row (BYTE) - row
- page (BYTE) - optional video page number

## Return

| IBM PC BIOS API      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video I/O            | <a href="#">INT 10H</a> : 00H, 01H, 02H, 03H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0CH, 0DH, 0EH, 0FH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Hardware info        | <a href="#">INT 11H</a> , <a href="#">INT 12H</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Serial I/O           | <a href="#">INT 14H</a> : 00H, 01H, 02H, 03H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tape I/O             | <a href="#">INT 15H</a> : 00H, 01H, 02H, 03H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Keyboard I/O         | <a href="#">INT 16H</a> : 00H, 01H, 02H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Printer I/O          | <a href="#">INT 17H</a> : 00H, 01H, 02H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disk I/O             | <a href="#">INT 13H</a> : 00H, 01H, 02H, 03H, 04H, 05H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Date and Time        | <a href="#">INT 1AH</a> : 00H, 01H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| osFree Macro Library |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Video I/O            | <a href="#">@SetMode</a> <a href="#">@SetCurSz</a> <a href="#">@SetCurPos</a> <a href="#">@GetCur</a> <a href="#">@SetPage</a> <a href="#">@ScrollUp</a> <a href="#">@ScrollDn</a> <a href="#">@Scroll</a> <a href="#">@GetChAtr</a> <a href="#">@PutChAtr</a> <a href="#">@PutCh</a> <a href="#">@SetPalet</a> <a href="#">@SetColor</a> <a href="#">@SetDot</a> <a href="#">@GetDot</a> <a href="#">@WrtTTY</a> <a href="#">@VideoState</a> <a href="#">@GetMode</a> <a href="#">@GetDisplay</a> <a href="#">@GetVideoState</a> <a href="#">@GetEGAInfo</a> <a href="#">@Cls</a> |
| Hardware info        | <a href="#">@Equipment</a> <a href="#">@MemSize</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Serial I/O           | <a href="#">@AuxInit</a> <a href="#">@AuxSendChar</a> <a href="#">@AuxRecieveChar</a> <a href="#">@AuxStatus</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Tape I/O             | <a href="#">@TapeOn</a> <a href="#">@TapeOff</a> <a href="#">@TapeRead</a> <a href="#">@TapeWrite</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Keyboard I/O         | <a href="#">@KbdStatus</a> <a href="#">@CharIn</a> <a href="#">@CharPeek</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Printer I/O          | <a href="#">@PrnPrint</a> <a href="#">@PrnInit</a> <a href="#">@PrnStatus</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Disk I/O             | <a href="#">@DskReset</a> <a href="#">@DskStatus</a> <a href="#">@DskRead</a> <a href="#">@DskWrite</a> <a href="#">@DskVerify</a> <a href="#">@DskFormat</a>                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Date and Time        | <a href="#">@SetTime</a> <a href="#">@GetTime</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mouse                | <a href="#">@MouInit</a> <a href="#">@MouShowPointer</a> <a href="#">@MouStatus</a> <a href="#">@MouSetPos</a> <a href="#">@MouSetMickey</a> <a href="#">@MouRegion</a>                                                                                                                                                                                                                                                                                                                                                                                                            |
| Memory manager       | <a href="#">@ModBlok</a> <a href="#">SET_BLOCK</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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