



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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@PutChAtr/@PutCharAtr

Version

IBM 5150 and higher

Brief

Print Char With Attribute

BIOS Interrupt

[INT10H: 09H](#)

Family API

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

Syntax

```
@PutChAtr char, atrib, page, repeat
```

Parameters

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

Return

IBM PC BIOS API	
Video I/O	INT 10H: 00H, 01H, 02H, 03H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0CH, 0DH, 0EH, 0FH
Hardware info	INT 11H, INT 12H
Serial I/O	INT 14H: 00H, 01H, 02H, 03H
Tape I/O	INT 15H: 00H, 01H, 02H, 03H
Keyboard I/O	INT 16H: 00H, 01H, 02H
Printer I/O	INT 17H: 00H, 01H, 02H
Disk I/O	INT 13H: 00H, 01H, 02H, 03H, 04H, 05H
Date and Time	INT 1AH: 00H, 01H

osFree Macro Library	
Video I/O	@SetMode @SetCurSz @SetCurPos @GetCur @SetPage @ScrollUp @ScrollDn @Scroll @GetChAtr @PutChAtr @PutCh @SetPalet @SetColor @SetDot @GetDot @WrtTTY @VideoState @GetMode @GetDisplay @GetVideoState @GetEGAInfo @Cls
Hardware info	@Equipment @MemSize
Serial I/O	@AuxInit @AuxSendChar @AuxRecieveChar @AuxStatus
Tape I/O	@TapeOn @TapeOff @TapeRead @TapeWrite
Keyboard I/O	@KbdStatus @CharIn @CharPeek
Printer I/O	@PrnPrint @PrnInit @PrnStatus
Disk I/O	@DskReset @DskStatus @DskRead @DskWrite @DskVerify @DskFormat
Date and Time	@SetTime @GetTime
Mouse	@MouInit @MouShowPointer @MouStatus @MouSetPos @MouSetMickey @MouRegion
Memory manager	@ModBlok SET_BLOCK

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