



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

2022/03/13 05:41 · prokushev · [0 Comments](#)

@AuxInit

Brief

Initialize serial port

Syntax

```
@AuxInit port, settings
```

Parameters

- port (WORD) - port number
- settings (BYTE) - port settings

Baud rates is passed in the high order 3 bits as follows:

```
000 = 110 baud
001 = 150 ''
010 = 300 ''
011 = 600 ''
100 = 1200 ''
101 = 2400 ''
110 = 4800 ''
111 = 9600 ''
```

Bits 4-3 define parity:

```
0 0      no parity
1 0      no parity
0 1      odd parity
1 1      even parity
```

Bit 2 defines stop bits:

```
0      1 stop bit;  
1      2
```

Bits 1-0 character length:

```
1 0      7 bits  
1 1      8 bits
```

Return

- AX - port status

Bitfields for serial line status (AH):

Bit(s)	Description
7	timeout
6	transmit shift register empty
5	transmit holding register empty
4	break detected
3	framing error
2	parity error
1	overrun error
0	receive data ready

Bitfields for modem status (AL):

Bit(s)	Description
7	carrier detect
6	ring indicator
5	data set ready
4	clear to send
3	delta carrier detect
2	trailing edge of ring indicator
1	delta data set ready
0	delta clear to send

From:
<https://www.osfree.org/doku/> - **osFree wiki**

Permanent link:
<https://www.osfree.org/doku/doku.php?id=en:docs:macrolib:auxinit&rev=1649942881>

Last update: **2022/04/14 13:28**

