

The following are the register values at DOS .COM file startup in the given DOS brands and versions. If you use a different DOS version, any brand, that is not listed here, please run the given program below and email your findings to **fys [at] fysnet [the dot thing] net**. Thank you.

- All values assume regular execution from the command line with no command line parameters.
- An entry with xxxh denotes that part of the hex value is undefined (different each time).
- Items with an * in the last column denote that I verified this.
- - All others are from visitors to the page. Thank you.
- Items with an ** denote that it seems to be the same, but don't count on it for sure.
- Please note that the SP value will vary depending on what is pushed before the pusha instruction.

Many thanks goes to *Wildman* and Daniel Hamilton for many of the versions below.

Brand/Version	AX	BX	CX	DX	SI	DI	BP	SP	Flags	*
MS DOS 1.25 (OEM ?)	0000h	CS	02CFh	03F6h	0F2Bh	0FC9h	00C6h	xxxx	0282h	
Toshiba MS DOS 2.11 /R2A20US	0000h	0000h	00FFh	CS	0100h	0100h	4322h	FFFEh	0746h	
MS DOS 3.20, 3.30, & 3.30a	0000h	0000h	00FFh	CS	0100h	FFFEh	0882h	FFFEh	xx02h	
MS DOS 4.00, 4.01, & 4.01a	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch**	FFFEh	?	
MS DOS 5.0a	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch**	FFFEh	7202h	*
MS DOS 6.00	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFCh	xx02h	
MS DOS 6.22	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	xx02h	
MS DOS 7.10	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFCh	7286h	
MS Windows 95a & OSR2.1	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch**	FFFEh	?	*
MS Windows 95b & 95c	0000h	0000h	00FFh	CS	0100h	FFFEh	0912h**	FFFEh	?	*
MS Windows 98	0000h	0000h	00FFh	CS	0100h	FFFEh	0912h**	FFFEh	?	
MS Windows 98 (DOS license only)	0000h	0000h	00FFh	CS	0100h	FFFEh	0912h**	FFFEh	7246h	*
MS Windows 98SE	0000h	0000h	00FFh	CS	0100h	FFFEh	0912h**	FFFEh	3202h	*
MS Windows 98SE (Boot to DOS)	0000h	0000h	00FFh	CS	0100h	FFFEh	0912h**	FFFEh	7202h	*
MS Windows ME	0000h	0000h	00FFh	CS	0100h	FFFEh	0912h**	FFFEh	?	
MS Windows NT 4	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	?	
MS Windows 2000 Pro	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	?	*
MS Windows XP Home	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	3202h	*
MS Windows XP Pro	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	3202h	*
MS Windows Server 2000	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	3202h	
MS Windows	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	7202h	

Server 2003											
MS Windows NT4 Server	0000h	0000h	00FFh	CS	0100h	FFFEh	09xxh	FFFEh	3202h		
IBM DOS 1.10 (1981-2)	0000h	0307h	02C1h	03EEh	0F1Bh	0FB9h	00BFh	FFFDh	?	*	
IBM DOS 3.30 (1987)	0000h	0000h	00FFh	CS	0100h	FFFEh	0882h	FFFEh	?		
IBM PC DOS 1.00	0000h	CS	02B1h	03FBh	08CEh	0960h	0200h	FFEBh	?		
IBM PC DOS 1.10	0000h	CS	02C1h	03EEh	0F1Bh	0FB9h	00BFh	FFEDh	?		
IBM PC DOS 2.00 & 2.10	0000h	0000h	00FFh	CS	0100h	0100h	0000h	FFEEh	?		
IBM PC DOS 3.00	0000h	0000h	00FFh	CS	0100h	0100h	0081h	FFEEh	?		
IBM PC DOS 3.10, 3.20, & 3.30	0000h	0000h	00FFh	CS	0100h	FFFEh	0882h	FFEEh	?		
IBM PC DOS 4.00 & 4.01	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch	FFFEh	?		
IBM PC DOS 5.00, 5.00.1a, & 5.02	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch	FFFEh	?		
IBM PC DOS 6.10 & 6.30	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch	FFFEh	?		
IBM PC DOS 7.00 & 7.00r1 (PC-DOS 2000)	0000h	0000h	00FFh	CS	0100h	FFFEh	091Ch	FFFEh	?		
PC-MOS/386 1.02, 3.00, 5.01	0000h	0000h	00A5h	0000h	xxxxh	0000h	0000h	FFEEh	?		
DR DOS 1.0	?	?	?	?	?	?	?	?	?		
DR DOS Plus 1.20	0000h	0000h	0000h	0000h	0000h	0000h	0000h	FFECCh	?		
DR Concurrent DOS 386 2.00	0000h	0000h	0000h	0000h	0000h	0000h	0000h	FFFEh	?		
DR Concurrent DOS XM 6.00 and 6.21	0000h	0000h	0000h	0000h	0000h	0000h	0000h	FFFCh	7202h		
DR DOS 3.40 & 3.41	0000h	0000h	0000h	0000h	0000h	0000h	0882h	FFFEh	?		
DR DOS 5.00 & 5.10	0000h	0000h	0000h	0000h	0000h	0000h	0882h	FFFEh	?		
DR DOS 6.00	0000h	0000h	0000h	0000h	0000h	0000h	0882h	FFFEh	?		
DR DOS 6.22	?	?	?	?	?	?	?	?	?		
DR DOS 7.00	0000h	0000h	CS	CS	0100h	FFFEh	0D7Ah	FFFEh	?		
DR DOS 7.01 (Open Source)	0000h	0000h	CS	CS	0100h	FFFEh	0D8Ch	FFFEh	?		
DR DOS 7.02	0000h	0000h	CS	CS	0100h	FFFEh	17DAh	FFFEh	?		
DR DOS 7.03	0000h	0000h	CS	CS	0100h	FFFEh	17D6	FFFEh	?		
DR DOS 8.00	0000h	0000h	CS	CS	0100h	FFFEh	17DAh	FFFCh	3246h		
DR DOS 8.10	0000h	0000h	CS	CS	0100h	FFFEh	0D7Ch	FFFCh	3246h		
DR Multiuser DOS Gold 7.22	0000h	0000h	0000h	0000h	0000h	0000h	0882h	FFFEh	?		
Datalight ROM DOS 7.1 r2	0000h	0000h	0000h	0000h	0000h	0000h	0000h	FFFEh	?	*	

FDOS 6.22	0000h	0000h	00FFh	CS	0100h	FFFCh	0000h	FFFCh	?	
FreeDOS Alpha 5 & Beta 1-6	FFFFh	0000h	0000h	0000h	0000h	0000h	0000h	FFFEh	?	
FreeDOS Beta 7 & 8	0000h	0000h	0000h	0000h	0000h	0000h	0000h	FFFEh	?	
FreeDOS Beta 8 & 9 rev 5 (Kernel 1.1.35)	0000h	0000h	00FFh	CS	0100h	FFFEh	091Eh	FFFCh	3202h	
FreeDOS 1.00 and 1.10	0000h	0000h	00FFh	CS	0100h	FFFEh	091Eh	FFFCh	0202h	
IMS Multiuser DOS 7.10	0000h	0000h	0000h	0000h	0000h	0000h	0882h	FFFEh	?	
MoeDOS Beta 1	FFFFh	0000h	0000h	0000h	0000h	0000h	0000h	FFFEh	?	
PTSDOS 6.70, 7.00 beta, 2000, & 2000 Pro	0000h	0000h	xxxxh	CS	0100h	FFFCh	0000h	FFFCh	?	
Real32 7.92a	0000h	0000h	0000h	0000h	0000h	0000h	0882h	FFFEh	?	
RxDOS 7.1.5 & 7.2 beta	0000h	0000h	00A5h	0000h	0000h	0000h	0882h	FFFEh	?	
Wendin-DOS 2.11	0000h	0000h	0000h	D304h	0000h	0000h	0882h	FFFCh	?	
Any other brand?	?	?	?	?	?	?	?	?	?	

Use the following code to display the above registers:
(Or get the .COM file from [here](#)).

```

; Assembled with NBASM
.model tiny
.code
.186

        org 100h

        ; push all registers
        pushf          ; flags
        pusha          ; (ax,cx,dx,bx,sp,bp,si,di)
        push cs        ; CS so I can verify DX
        mov di,offset buff ;
        mov si,offset msg1 ;
        mov cx,10      ; 10 registers to print

Loop1:   movsw          ; "print" register name
        mov al,'='      ; and =
        stosb           ;
        pop ax          ; get next register value to print
        mov bx,04       ; "print" 4 hex digits
PLoop:  rol ax,04        ;
        push ax         ;
        and al,0Fh      ;
        daa             ;
        add al,0F0h     ;
        adc al,40h      ;
        stosb           ;
        pop ax          ;
        dec bx          ;
        jnz short PLoop ;
        mov ax,0D0Ah    ; "print" CRLF
        stosw          ;
        loop Loop1      ; do CX times

        ; if your current DOS version does not support this function,

```

```
    ; please change to print a valid string given in 'buff'
    mov  al,24h          ; place eol marker
    stosb               ;
    mov  dx,offset buff ; print the buffer
    mov  ah,09          ;
    int  21h           ;

    ; if your current DOS version does not support this function,
    ; please change to exit to DOS
    mov  ah,4Ch         ;
    int  21h

msg1    db  'CSDISIBPSPBXDXCXAXFL'
buff    dup 100,?

.end
```

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