



# DosGetDateTime

This call gets the current date and time maintained by the operating system.

## Syntax

DosGetDateTime (DateTime)

## Parameters

;DateTime (PDATETIME) - output : Address of the date and time structure: ::hours (UCHAR) - Current hour ::minutes (UCHAR) - Current minute ::seconds (UCHAR) - Current second ::hundredths (UCHAR) - Current hundredth of a second ::day (UCHAR) - Current day ::month (UCHAR) - Current month ::year (USHORT) - Current year ::timezone (SHORT) - Minutes west of UTC (Universal Time Coordinate) ::weekday (UCHAR) - Current day of the week. Sunday is 0.

## Return Code

rc (USHORT) - return Return code description is: \* 0 NO\_ERROR

## Remarks

The dayofweek value is based on Sunday equal to zero. The value of timezone is the difference in minutes between the current time zone and UTC. This number is positive if it is earlier than UTC and negative if it is later than UTC. For Eastern Standard Time, this value is 300 (5 hours earlier than UTC).

If the application is executing in the OS/2 environment, it is more efficient to obtain these variables by calling DosGetInfoSeg instead of this function. However, applications written to the family API cannot depend on the availability of DosGetInfoSeg.

## Example Code

## C Binding

```
typedef struct _DATETIME { /* date */
    UCHAR    hours;        /* current hour */
    UCHAR    minutes;     /* current minute */
    UCHAR    seconds;     /* current second */
```

```

    UCHAR    hundredths;    /* current hundredths of a second */
    UCHAR    day;           /* current day */
    UCHAR    month;        /* current month */
    USHORT   year;         /* current year */
    SHORT    timezone;     /* minutes of time west of UTC */
    UCHAR    weekday;      /* current day of week */
} DATETIME;

#define INCL_DOSDATETIME

USHORT     rc = DosGetDateTime(DateTime);
PDATETIME DateTime;    /* Address of date/time structure (returned) */
USHORT     rc;         /* return code */

```

This example gets the current time and date.

```

#define INCL_DOSDATETIME

DATETIME DateBuffer;
USHORT   rc;

rc = DosGetDateTime(&DateBuffer);    /* Date/Time structure */

```

The following example obtains and prints date and time information. It then changes the system date to 5/10/1987 and prints the updated information.

```

#define INCL_DOSDATETIME
#include <os2.h>

main()
{
    DATETIME   DateTime;    /* Structure to hold date/time info. */
    USHORT     rc;

    rc = DosGetDateTime(&DateTime);    /* Address of d/t structure */
    printf("Today is %d-%d-%d; the time is %d:%d\n", DateTime.month,
           DateTime.day, DateTime.year, DateTime.hours, DateTime.minutes);
    DateTime.day = 10;
    DateTime.month = 5;
    DateTime.year = 1987;
    printf("The new date is %d-%d-%d; the time is %d:%d\n", DateTime.month,
           DateTime.day, DateTime.year, DateTime.hours, DateTime.minutes);
    rc = DosSetDateTime(&DateTime);    /* Address of d/t structure */
    printf("rc is %d\n", rc);
}

```

## MASM Binding

DATETIME struc

```

date_hours      db  ? ;current hour
date_minutes    db  ? ;current minute
date_seconds    db  ? ;current second
date_hundredths db  ? ;current hundredths of a second
date_day        db  ? ;current day
date_month      db  ? ;current month
date_year       dw  ? ;current year
date_timezone   dw  ? ;minutes of time west of UTC
date_weekday    db  ? ;current day of week
DATETIME ends

EXTRN  DosGetDateTime:FAR
INCL_DOSDATETIME EQU 1

PUSH@  OTHER  DateTime      ;Date/time structure (returned)
CALL   DosGetDateTime
    
```

Returns WORD

## Note

Text based on [http://www.edm2.com/index.php/DosGetDateTime\\_\(Legacy\)](http://www.edm2.com/index.php/DosGetDateTime_(Legacy))

Family API		
DOS	Process Manager	<a href="#">DosBeep</a> <a href="#">DosExit</a> <a href="#">DosSleep</a> <a href="#">DosExecPgm</a>
	File Manager	<a href="#">DosChDir</a> <a href="#">DosChgFilePtr</a> <a href="#">DosClose</a> <a href="#">DosDelete</a> <a href="#">DosDupHandle</a> <a href="#">DosMkDir</a> <a href="#">DosMove</a> <a href="#">DosQCurDir</a> <a href="#">DosQCurDisk</a> <a href="#">DosSetFileMode</a> <a href="#">DosOpen</a> <a href="#">DosQFileInfo</a> <a href="#">DosRead</a> <a href="#">DosQFileMode</a> <a href="#">DosQFSInfo</a> <a href="#">DosQVerify</a> <a href="#">DosRmDir</a> <a href="#">DosSelectDisk</a> <a href="#">DosFindClose</a> <a href="#">DosFindFirst</a> <a href="#">DosFindNext</a> <a href="#">DosSetFileInfo</a> <a href="#">DosSetVerify</a> <a href="#">DosWrite</a> <a href="#">DosFileLocks</a> <a href="#">DosSetFHandState</a> <a href="#">DosNewSize</a> <a href="#">DosBufReset</a> <a href="#">DosQFHandState</a> <a href="#">DosSetFSinfo</a> <a href="#">DosShutdown</a>
	Memory Manager	<a href="#">DosFreeSeg</a> <a href="#">DosSubAlloc</a> <a href="#">DosSubFree</a> <a href="#">DosSubSet</a> <a href="#">DosAllocHuge</a> <a href="#">DosAllocSeg</a> <a href="#">DosReallocHuge</a> <a href="#">DosReallocSeg</a> <a href="#">DosGetHugeShift</a> <a href="#">DosCreateCSAlias</a>
	NLS	<a href="#">DosCaseMap</a> <a href="#">DosGetCtryInfo</a> <a href="#">DosGetDBCSEv</a> <a href="#">DosSetCtryCode</a> <a href="#">DosGetCollate</a> <a href="#">DosGetMessage</a> <a href="#">DosInsMessage</a> <a href="#">DosPutMessage</a>
	Date and Time	<a href="#">DosSetDateTime</a> <a href="#">DosGetDateTime</a>
	Devices	<a href="#">DosDevConfig</a> <a href="#">DosDevIOctl</a> <a href="#">DosDevIOctl2</a>
	Signals	<a href="#">DosHoldSignal</a> <a href="#">DosSetSigHandler</a>
	Misc	<a href="#">BadDynLink</a> <a href="#">DosGetEnv</a> <a href="#">DosGetMachineMode</a> <a href="#">DosGetVersion</a> <a href="#">DosError</a> <a href="#">DosErrClass</a> <a href="#">DosSetVec</a>
KBD	<a href="#">KbdCharIn</a> <a href="#">KbdFlushBuffer</a> <a href="#">KbdGetStatus</a> <a href="#">KbdSetStatus</a> <a href="#">KbdStringIn</a> <a href="#">KbdPeek</a>	
VIO	<a href="#">VioGetBuf</a> <a href="#">VioGetConfig</a> <a href="#">VioGetCurPos</a> <a href="#">VioGetCurType</a> <a href="#">VioGetPhysBuf</a> <a href="#">VioReadCellStr</a> <a href="#">VioReadCharStr</a> <a href="#">VioScrollUp</a> <a href="#">VioScrollDn</a> <a href="#">VioScrollLf</a> <a href="#">VioScrollRt</a> <a href="#">VioScrUnLock</a> <a href="#">VioSetCurPos</a> <a href="#">VioSetCurType</a> <a href="#">VioSetMode</a> <a href="#">VioGetMode</a> <a href="#">VioShowBuf</a> <a href="#">VioWrtCellStr</a> <a href="#">VioWrtCharStr</a> <a href="#">VioWrtCharStrAtt</a> <a href="#">VioWrtNAttr</a> <a href="#">VioWrtNCell</a> <a href="#">VioWrtNChar</a> <a href="#">VioWrtTTY</a> <a href="#">VioScrLock</a> <a href="#">VioPopUp</a>	

<b>Family API</b>	
Tools	BIND
Modules	<a href="#">DOSCALLS.DLL</a> <a href="#">VIOCALLS.DLL</a> <a href="#">KBDCALLS.DLL</a> <a href="#">MSG.DLL</a>
Libraries	<a href="#">API.LIB</a> <a href="#">OS2386.LIB</a> <a href="#">FAPI.LIB</a> <a href="#">DOSCALLS.LIB</a> <a href="#">SUBCALLS.LIB</a>

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