



This is part of **Family API** which allow to create dual-os version of program runs under OS/2 and DOS

**Note:** This is legacy API call. It is recommended to use 32-bit equivalent

2021/09/17 04:47 · prokushev · [0 Comments](#)

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# 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>                                                                                                                        |
| Tools      |                 | <a href="#">BIND</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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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