



Note: This API call is for DOS and Win16 personality only. Use [Family API](#) for portability.

2018/09/07 05:04 · prokushev · [0 Comments](#)

Int 21H, AH=38H, AL=01H

Version

3 and higher

Brief

SET COUNTRY CODE/GET COUNTRY-SPECIFIC INFORMATION

Family API

Input

Get:

AL = 01h thru 0FEh for specific country with code <255 (see #01400)
AL = 0FFh for specific country with code >= 255
BX = 16-bit country code (see #01400)
DS:DX -> buffer for returned info (see #01399)

Set:

AH = 38h
DX = FFFFh
AL = 01h thru FEh for specific country with code <255
AL = FFh for specific country with code >= 255
BX = 16-bit country code (see #01400)

Return

Get:

CF set on error
AX = error code (02h)
CF clear if successful

```
AX = country code (Novell NWDOS v7.0)
BX = country code
DS:DX buffer filled
```

Set:

```
CF set on error
    AX = error code (see #01680 at AH=59h/BX=0000h)
CF clear if successful
```

Macro

Notes

this function is not supported by the Borland DPMI host, but no error is returned; as a workaround, one should allocate a buffer in conventional memory with INT 31/AX=0100h and simulate an INT 21 with INT 31/AX=0300h

Format of DOS 2.00-2.10 country info: Offset Size Description (Table 01398) 00h WORD date format 0 = USA mm dd yy

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1 = Europe dd mm yy
2 = Japan  yy mm dd
```

02h BYTE currency symbol 03h BYTE 00h 04h BYTE thousands separator char 05h BYTE 00h 06h BYTE decimal separator char 07h BYTE 00h 08h 24 BYTES reserved

Format of DOS 2.11+ country info: Offset Size Description (Table 01399) 00h WORD date format (see #01398) 02h 5 BYTES ASCIZ currency symbol string 07h 2 BYTES ASCIZ thousands separator 09h 2 BYTES ASCIZ decimal separator 0Bh 2 BYTES ASCIZ date separator 0Dh 2 BYTES ASCIZ time separator 0Fh BYTE currency format

```
bit 2 = set if currency symbol replaces decimal point
bit 1 = number of spaces between value and currency symbol
bit 0 = 0 if currency symbol precedes value
       1 if currency symbol follows value
```

10h BYTE number of digits after decimal in currency 11h BYTE time format

```
bit 0 = 0 if 12-hour clock
       1 if 24-hour clock
```

12h DWORD address of case map routine

```
(FAR CALL, AL = character to map to upper case [>= 80h])
```

16h 2 BYTES ASCII data-list separator 18h 10 BYTES reserved

(Table 01400) Values for country code: 001h (1) United States 002h (2) Canadian-French 003h (3) Latin America 004h (4) Canada (English) 007h (7) Russia 014h (20) Egypt 01Bh (27) South Africa 01Eh (30) Greece 01Fh (31) Netherlands 020h (32) Belgium 021h (33) France 022h (34) Spain 023h (35) Bulgaria??? 024h (36) Hungary (not supported by DR DOS 5.0) 026h (38) Yugoslavia (not supported by DR DOS 5.0) - obsolete 027h (39) Italy / San Marino / Vatican City 028h (40) Romania 029h (41) Switzerland / Liechtenstein 02Ah (42) Czechoslovakia / Tjekia / Slovakia (not supported by DR DOS 5.0) 02Bh (43) Austria (DR DOS 5.0) 02Ch (44) United Kingdom 02Dh (45) Denmark 02Eh (46) Sweden 02Fh (47) Norway 030h (48) Poland (not supported by DR DOS 5.0) 031h (49) Germany 033h (51) Peru 034h (52) Mexico 035h (53) Cuba 036h (54) Argentina 037h (55) Brazil (not supported by DR DOS 5.0) 038h (56) Chile 039h (57) Columbia 03Ah (58) Venezuela 03Ch (60) Malaysia 03Dh (61) International English / Australia 03Eh (62) Indonesia / East Timor 03Fh (63) Philippines 040h (64) New Zealand 041h (65) Singapore 042h (66) Thailand (or Taiwan???) 051h (81) Japan (DR DOS 5.0, MS-DOS 5.0+) 052h (82) South Korea (DR DOS 5.0) 054h (84) Vietnam 056h (86) China (MS-DOS 5.0+) 058h (88) Taiwan (MS-DOS 5.0+) 05Ah (90) Turkey (MS-DOS 5.0+) 05Bh (91) India 05Ch (92) Pakistan 05Dh (93) Afghanistan 05Eh (94) Sri Lanka 062h (98) Iran 063h (99) Asia (English) 066h (102) ??? (Hebrew MS-DOS 5.0) 070h (112) Belarus 0C8h (200) Thailand (PC DOS 6.1+)

(reported as 01h due to a bug in PC DOS COUNTRY.SYS)

0D4h (212) Morocco 0D5h (213) Algeria 0D8h (216) Tunisia 0DAh (218) Libya 0DCh (220) Gambia 0DDh (221) Senegal 0DEh (222) Maruitania 0DFh (223) Mali 0E0h (224) African Guinea 0E1h (225) Ivory Coast 0E2h (226) Burkina Faso 0E3h (227) Niger 0E4h (228) Togo 0E5h (229) Benin 0E6h (230) Mauritius 0E7h (231) Liberia 0E8h (232) Sierra Leone 0E9h (233) Ghana 0EAh (234) Nigeria 0EBh (235) Chad 0ECh (236) Centra African Republic 0EDh (237) Cameroon 0EEh (238) Cape Verde Islands 0EFh (239) Sao Tome and Principe 0F0h (240) Equatorial Guinea 0F1h (241) Gabon 0F2h (242) Congo 0F3h (243) Zaire 0F4h (244) Angola 0F5h (245) Guinea-Bissau 0F6h (246) Diego Garcia 0F7h (247) Ascension Isle 0F8h (248) Seychelles 0F9h (249) Sudan 0FAh (250) Rwhanda 0FBh (251) Ethiopia 0FCh (252) Somalia 0FDh (253) Djibouti 0FEh (254) Kenya 0FFh (255) Tanzania 100h (256) Uganda 101h (257) Burundi 103h (259) Mozambique 104h (260) Zambia 105h (261) Madagascar 106h (262) Reunion Island 107h (263) Zimbabwe 108h (264) Namibia 109h (265) Malawi 10Ah (266) Lesotho 10Bh (267) Botswana 10Ch (268) Swaziland 10Dh (269) Comoros 10Eh (270) Mayotte 122h (290) St. Helena 129h (297) Aruba 12Ah (298) Faroe Islands 12Bh (299) Greenland 15Eh (350) Gibraltar 15Fh (351) Portugal 160h (352) Luxembourg 161h (353) Ireland 162h (354) Iceland 163h (355) Albania 164h (356) Malta 165h (357) Cyprus 166h (358) Finland 167h (359) Bulgaria 172h (370) Lithuania (reported as 372 due to a bug in MS-DOS COUNTRY.SYS) 173h (371) Latvia (reported as 372 due to a bug in MS-DOS COUNTRY.SYS) 174h (372) Estonia 175h (373) Moldova 177h (375) ??? (MS-DOS 7.10 / Windows98) 17Ch (380) Ukraine 17Dh (381) Serbia / Montenegro 180h (384) Croatia 181h (385) Croatia (PC DOS 7+) 182h (386) Slovenia 183h (387) Bosnia-Herzegovina (Latin) 184h (388) Bosnia-Herzegovina (Cyrillic) (PC DOS 7+)

(reported as 381 due to a bug in PC DOS COUNTRY.SYS)

185h (389) FYR Macedonia 1A5h (421) Czech Republic / Tjekia (PC DOS 7+) 1A6h (422) Slovakia

(reported as 421 due to a bug in COUNTRY.SYS)

1F4h (500) Falkland Islands 1F5h (501) Belize 1F6h (502) Guatemala 1F7h (503) El Salvador 1F8h (504) Honduras 1F9h (505) Nicragua 1FAh (506) Costa Rica 1FBh (507) Panama 1FCh (508) St. Pierre and Miquelon 1FDh (509) Haiti 24Eh (590) Guadeloupe 24Fh (591) Bolivia 250h (592) Guyana

251h (593) Ecuador 252h (594) French Guiana 253h (595) Paraguay 254h (596) Martinique / French Antilles 255h (597) Suriname 256h (598) Uruguay 257h (599) Netherlands Antilles 29Ah (666) Russia??? (PTS-DOS 6.51 KEYB) 29Bh (667) Poland??? (PTS-DOS 6.51 KEYB) 29Ch (668) Poland??? (Slavic???) (PTS-DOS 6.51 KEYB) 29Eh (670) Saipan / N. Mariana Island 29Fh (671) Guam 2A0h (672) Norfolk Island (Australia) / Christmas Island/Cocos Islands / Antarctica 2A1h (673) Brunei Darussalam 2A2h (674) Nauru 2A3h (675) Papua New Guinea 2A4h (676) Tonga Islands 2A5h (677) Solomon Islands 2A6h (678) Vanuatu 2A7h (679) Fiji 2A8h (680) Palau 2A9h (681) Wallis & Futuna 2AAh (682) Cook Islands 2ABh (683) Niue 2ACh (684) American Samoa 2ADh (685) Western Samoa 2AEh (686) Kiribati 2AFh (687) New Caledonia 2B0h (688) Tuvalu 2B1h (689) French Polynesia 2B2h (690) Tokelau 2B3h (691) Micronesia 2B4h (692) Marshall Islands 2C7h (711) ??? (currency = EA\$, code pages 437,737,850,852,855,857) 311h (785) Arabic (Middle East/Saudi Arabia/etc.) 324h (804) Ukraine 329h (809) Antigua and Barbuda / Anguilla / Bahamas / Barbados / Bermuda

British Virgin Islands / Cayman Islands / Dominica
Dominican Republic / Grenada / Jamaica / Montserrat
St. Kitts and Nevis / St. Lucia / St. Vincent and the Grenadines
Trinidad and Tobago / Turks and Caicos

352h (850) North Korea 354h (852) Hong Kong 355h (853) Macao 357h (855) Cambodia 358h (856) Laos 370h (880) Bangladesh 376h (886) Taiwan (MS-DOS 6.22+) 3C0h (960) Maldives 3C1h (961) Lebanon 3C2h (962) Jordan 3C3h (963) Syria / Syrian Arab Republic 3C4h (964) Iraq 3C5h (965) Kuwait 3C6h (966) Saudi Arabia 3C7h (967) Yemen 3C8h (968) Oman 3C9h (969) Yemen??? (Arabic MS-DOS 5.0) 3CBh (971) United Arab Emirates 3CCh (972) Israel (Hebrew) (DR DOS 5.0,MS-DOS 5.0+) 3CDh (973) Bahrain 3CEh (974) Qatar 3CFh (975) Bhutan 3D0h (976) Mongolia 3D1h (977) Nepal 3E3h (995) Myanmar (Burma)

(10xxx)	reserved for ISO 28601/ISO 8601 or derivative national stds
(11xxx)	reserved for Euro currency support
(12xxx)	reserved for ISO 28601 + Euro currency
(1xxxx)	not yet defined
(20xxx)	reserved for ISO 28601/ISO 8601 or derivative national stds
(21xxx)	reserved for Euro currency support
(22xxx)	reserved for ISO 28601 + Euro currency
(2xxxx)	not yet defined
(30xxx)	reserved for user-definable country codes
(31xxx)	reserved for OEM-defined country codes
(32000+)	reserved for future expansion

Note: not all country codes are supported by all versions of DOS

See also

AH=65h,INT 10/AX=5001h,INT 2F/AX=1404h
INT 2F/AX=1403h

Note

Text based on [Ralf Brown Interrupt List Release 61](#)

DOS API	
Process manager	INT 20H, INT 21H : 00H, 25H, 26H, 31H, 34H, 35H, 4BH, 4CH, 4DH, 50H, 51H, 52H, 55H, 62H, INT 22H, INT 27H, INT 28H
File manager	INT 25H, INT 26H, INT 21H : 0DH, 0EH, 0FH, 10H, 11H, 12H, 13H, 14H, 15H, 16H, 17H, 19H, 1AH, 1BH, 1CH, 21H, 22H, 23H, 24H, 27H, 28H, 29H, 2EH, 2FH, 32H, 3305H, 36H, 39H, 3AH, 3BH, 3CH, 3DH, 3EH, 3FH, 40H, 41H, 42H, 4300H, 4301H, 45H, 45H, 46H, 4EH, 4FH, 54H, 56H, 5700H, 5701H, 5AH, 5BH, 5c00H, 5c01H, 60H, 67H, 68H, 6900H, 6901H, 6AH, 6CH
Character Device I/O	INT 29H, INT 21H : 01H, 02H, 03H, 04H, 05H, 06H, 07H, 08H, 09H, 0AH, 0BH, 0AH, 0CH, 5D07H, 5D08H, 5D09H, 5D0AH
Signals	INT 23H, INT 24H, INT 21H : 3300H, 3301H, 3302H
Memory manager	INT 21H : 48H, 49H, 4AH, 5800H, 5801H, 5802H, 5803H
Date and Time	INT 21H : 2AH, 2BH, 2CH, 2DH
Misc	INT 21H : 30H, 3306H, 3700H, 3701H, 3702H, 3703H, 59H
NLS	INT 21H : 3303H, 3304H, 3800H, 3801H, 6300H, 6301H, 6301H, 6500H, 6501H, 6502H, 6503H, 6504H, 6505H, 6506H, 6507H, 6520H, 6521H, 6522H, 6523H, 65A0H, 65A1H, 65A2H, 6601H, 6602H
Devices	INT 21H : 4400H, 4401H, 4402H, 4403H, 4404H, 4405H, 4406H, 4407H, 4408H, 4409H, 440AH, 440BH, 440CH, 440DH, 440EH, 440FH, 4410H, 4411H, 53H
Network	INT 21H : 5E00H, 5E01H, 5E02H, 5E03H, 5E04H, 5E05H, 5F00H, 5F01H, 5F02H, 5F03H, 5F04H, 5F05H, 5F07H, 5F08H
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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Family API		
DOS	Process Manager	DosBeep DosExit DosSleep DosExecPgm
	File Manager	DosChDir DosChgFilePtr DosClose DosDelete DosDupHandle DosMkDir DosMove DosQCurDir DosQCurDisk DosSetFileMode DosOpen DosQFileInfo DosRead DosQFileMode DosQFSInfo DosQVerify DosRmDir DosSelectDisk DosFindClose DosFindFirst DosFindNext DosSetFileInfo DosSetVerify DosWrite DosFileLocks DosSetFHandState DosNewSize DosBufReset DosQFHandState DosSetFSinfo DosShutdown
	Memory Manager	DosFreeSeg DosSubAlloc DosSubFree DosSubSet DosAllocHuge DosAllocSeg DosReallocHuge DosReallocSeg DosGetHugeShift DosCreateCSAlias
	NLS	DosCaseMap DosGetCtryInfo DosGetDBCSEv DosSetCtryCode DosGetCollate DosGetMessage DosInsMessage DosPutMessage
	Date and Time	DosSetDateTime DosGetDateTime
	Devices	DosDevConfig DosDevIOCtl DosDevIOCtl2
	Signals	DosHoldSignal DosSetSigHandler
	Misc	BadDynLink DosGetEnv DosGetMachineMode DosGetVersion DosError DosErrClass DosSetVec
KBD		KbdCharIn KbdFlushBuffer KbdGetStatus KbdSetStatus KbdStringIn KbdPeek
VIO		VioGetBuf VioGetConfig VioGetCurPos VioGetCurType VioGetPhysBuf VioReadCellStr VioReadCharStr VioScrollUp VioScrollDn VioScrollLf VioScrollRt VioScrUnLock VioSetCurPos VioSetCurType VioSetMode VioGetMode VioShowBuf VioWrtCellStr VioWrtCharStr VioWrtCharStrAtt VioWrtNAttr VioWrtNCell VioWrtNChar VioWrtTTY VioScrLock VioPopUp
Tools		BIND
Modules		DOSCALLS.DLL VIOCALLS.DLL KBDCALLS.DLL MSG.DLL
Libraries		API.LIB OS2386.LIB FAPI.LIB DOSCALLS.LIB SUBCALLS.LIB

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