

Re: About uses NetBios() to get MAC,HELP!!!

Source: <http://www.tech-archive.net/Archive/VB/microsoft.public.vb.winapi/2006-01/msg00067.html>

- *From:* "Randy Birch" <rgb_removethis@xxxxxxxx>
 - *Date:* Fri, 6 Jan 2006 01:13:10 -0500
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For Netbios, a return value of 35 decimal translates to &H23 hex. This corresponds to the return code "NRC_BRIDGE", which means "the ncb_lana_num field invalid". IOW, there is more than one network card seen by the machine and the lana number of the physical network adapter is not 0, as is presumed by that code. You can try changing the line "NCB.ncb_lana_num = 0" to another number to see if you get the MAC value. There is also another demo at <http://vbnet.mvps.org/code/network/netbiosenumlana.htm> which shows how to enumerate available lanas. In addition, SendArp can also be used (<http://vbnet.mvps.org/code/network/macaddressremote.htm>).

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Please reply to the newsgroups so all can participate.

"EK5B>|" <pandj@xxxxxxxxxxxxxxxxxxxxxxxx> wrote in message
news:eLnk7ZmEGHA.2320@xxxxxxxxxxxxxxxxxxxxxxxx
:
: I get the vb code from
: <http://vbnet.mvps.org/code/network/macaddress.htm>,
: which uses NetBios() to get MAC.
:
: I run it in two machine.
: one is success.
: Another is always return "00-00-00-00-00-00",and return of NetBios() is
35.
: And I use nbtstat command in Dos, both of two machine return the MAC
: success.
:
: Why?
:

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```
:  
: Anybody help me?  
:  
: Thanks a lot.  
:  
: bellow it is the code  
: Option Explicit  
:  
: Private Const NCBASTAT As Long = &H33  
: Private Const NCBNAMSZ As Long = 16  
: Private Const HEAP_ZERO_MEMORY As Long = &H8  
: Private Const HEAP_GENERATE_EXCEPTIONS As Long = &H4  
: Private Const NCBRESET As Long = &H32  
:  
: Private Type NET_CONTROL_BLOCK 'NCB  
: ncb_command As Byte  
: ncb_retcode As Byte  
: ncb_lsn As Byte  
: ncb_num As Byte  
: ncb_buffer As Long  
: ncb_length As Integer  
: ncb_callname As String * NCBNAMSZ  
: ncb_name As String * NCBNAMSZ  
: ncb_rto As Byte  
: ncb_sto As Byte  
: ncb_post As Long  
: ncb_lana_num As Byte  
: ncb_cmd_cplt As Byte  
: ncb_reserve(9) As Byte 'Reserved, must be 0  
: ncb_event As Long  
: End Type  
:  
: Private Type ADAPTER_STATUS  
: adapter_address(5) As Byte  
: rev_major As Byte  
: reserved0 As Byte  
: adapter_type As Byte  
: rev_minor As Byte  
: duration As Integer  
: frmr_rcv As Integer  
: frmr_xmit As Integer  
: iframe_rcv_err As Integer  
: xmit_aborts As Integer  
: xmit_success As Long  
: rcv_success As Long  
: iframe_xmit_err As Integer  
: rcv_buff_unavail As Integer  
: t1_timeouts As Integer  
: ti_timeouts As Integer  
: Reserved1 As Long  
: free_ncbs As Integer
```

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```
: max_cfg_ncbs As Integer
: max_ncbs As Integer
: xmit_buf_unavail As Integer
: max_dgram_size As Integer
: pending_sess As Integer
: max_cfg_sess As Integer
: max_sess As Integer
: max_sess_pkt_size As Integer
: name_count As Integer
: End Type
:
: Private Type NAME_BUFFER
: name As String * NCBNAMSZ
: name_num As Integer
: name_flags As Integer
: End Type
:
: Private Type ASTAT
: adapt As ADAPTER_STATUS
: NameBuff(30) As NAME_BUFFER
: End Type
:
: Private Declare Function Netbios Lib "netapi32" _
: (pncb As NET_CONTROL_BLOCK) As Byte
:
: Private Declare Sub CopyMemory Lib "kernel32" _
: Alias "RtlMoveMemory" _
: (hpvDest As Any, ByVal _
: hpvSource As Long, ByVal _
: cbCopy As Long)
:
: Private Declare Function GetProcessHeap Lib "kernel32" () As Long
:
: Private Declare Function HeapAlloc Lib "kernel32" _
: (ByVal hHeap As Long, _
: ByVal dwFlags As Long, _
: ByVal dwBytes As Long) As Long
:
: Private Declare Function HeapFree Lib "kernel32" _
: (ByVal hHeap As Long, _
: ByVal dwFlags As Long, _
: lpMem As Any) As Long
:
: Private Sub Command1_Click()
: Text1 = GetMACAddress("-")
: End Sub
:
: Private Function GetMACAddress(sDelimiter As String) As String
:
: 'retrieve the MAC Address for the network controller
: 'installed, returning a formatted string
```

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```
:  
: Dim tmp As String  
: Dim pASTAT As Long  
: Dim NCB As NET_CONTROL_BLOCK  
: Dim AST As ASTAT  
: Dim cnt As Long  
:  
: 'The IBM NetBIOS 3.0 specifications defines four basic  
: 'NetBIOS environments under the NCBRESET command. Win32  
: 'follows the OS/2 Dynamic Link Routine (DLR) environment.  
: 'This means that the first NCB issued by an application  
: 'must be a NCBRESET, with the exception of NCBENUM.  
: 'The Windows NT implementation differs from the IBM  
: 'NetBIOS 3.0 specifications in the NCB_CALLNAME field.  
: NCB.ncb_command = NCBRESET  
: Call Netbios(NCB)  
:  
: 'To get the Media Access Control (MAC) address for an  
: 'ethernet adapter programmatically, use the Netbios()  
: 'NCBASTAT command and provide a "*" as the name in the  
: 'NCB.ncb_CallName field (in a 16-chr string).  
: NCB.ncb_callname = "*" "  
: NCB.ncb_command = NCBASTAT  
:  
: 'For machines with multiple network adapters you need to  
: 'enumerate the LANA numbers and perform the NCBASTAT  
: 'command on each. Even when you have a single network  
: 'adapter, it is a good idea to enumerate valid LANA numbers  
: 'first and perform the NCBASTAT on one of the valid LANA  
: 'numbers. It is considered bad programming to hardcode the  
: 'LANA number to 0 (see the comments section below).  
: NCB.ncb_lana_num = 0  
: NCB.ncb_length = Len(AST)  
:  
: pASTAT = HeapAlloc(GetProcessHeap(), _  
: HEAP_GENERATE_EXCEPTIONS Or _  
: HEAP_ZERO_MEMORY, _  
: NCB.ncb_length)  
:  
: If pASTAT <> 0 Then  
:  
: NCB.ncb_buffer = pASTAT  
: Call Netbios(NCB)  
:  
: CopyMemory AST, NCB.ncb_buffer, Len(AST)  
:  
: 'convert the byte array to a string  
: GetMACAddress = MakeMacAddress(AST.adapt.adapter_address(),  
: sDelimiter)  
:  
: HeapFree GetProcessHeap(), 0, pASTAT
```


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◇ From: ÅËµÂ¾ü

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