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//
// QVT.cpp : Query the presence of the VT feature in Intel
//

#include <windows.h>
#include <stdio.h>

#define INTEL_CPUID_VT_FLAG 0x00000020          // VT flag in ECX register returned from CPUID EAX=1

BOOL IsVT();

int wmain(int argc, WCHAR* argv[])
{
    BOOL bVT;

    bVT = IsVT();

    if(bVT == TRUE)
    {
        wprintf(L"Intel VT is present\n");
    }
    else
    {
        wprintf(L"Intel VT is not there\n");
    }

    return(bVT);
}

//
// IsVT
//
// Use CPUID to determine if VT is really there
//
// returns BOOL bVT (VT support)
//
BOOL IsVT()
{
    BOOL bVT = FALSE;
    DWORD regEAX, regEBX, regECX, regEDX;

    _asm {
        mov     eax, 1;
        cpuid;
        mov     regEAX, eax;
        mov     regEBX, ebx;
        mov     regECX, ecx;
        mov     regEDX, edx;
    };

    //wprintf(L"EAX(%08X) ECX(%08X) EDX(%08X)\n", regEAX, regECX, regEDX);

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if(regECX & INTEL_CPUID_VT_FLAG)
{
    bVT = TRUE;
}
return(bVT);
}
```