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Subject: ASM Addresses

Posted by [QoQn00b](#) on Tue, 20 Feb 2007 04:51:05 GMT

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I've been modding C++ and CS for about 4 weeks now and I want to move on to editing the ASM... and I understand how for the most part, enough to get going, but I need to know how to get the Address (i.e. 0x0040F0D0) of the function I'm trying to make. Is there a list or something somewhere? oO

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Subject: Re: ASM Addresses

Posted by [Cat998](#) on Tue, 20 Feb 2007 09:34:07 GMT

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use the adress operator: &

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Subject: Re: ASM Addresses

Posted by [jnz](#) on Tue, 20 Feb 2007 16:54:10 GMT

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```
#include <iostream>
using namespace std;
```

```
int myfunct(int myparam)
{
    return myparam+10;
}
```

```
int main()
{
    cout << "Call the function: " << myfunct(2) << endl << "Function address: " << &myfunct <<
endl;
    system("pause");
    return 0;
}
```

for my own interest, how do you get the function in bhs.dll and how would you make such an application IE: stop the message from showing? the only way i know how to hack is to:

```
#include <iostream>
using namespace std;
```

```
typedef int (*_myfunctptr)(int param);
int main()
{
    _myfunctptr myfunctptr = (_myfunctptr)12423574; //some funct address

    cout << myfunctptr(2) << endl;

    system("pause");
    return 0;
}
```

how do i get the addresses of the functions i want to hack?

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Subject: Re: ASM Addresses  
Posted by [QoQn00b](#) on Tue, 20 Feb 2007 23:03:22 GMT  
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Quote:use the adress operator: &

Nein, I mean how to find the names of the ASM commands. Like, 0x0040F0D0 is the SetScore or SetMoney (I cant remember which) address in the ASM release. How can I get a key to the list of these address names?

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Subject: Re: ASM Addresses  
Posted by [jnz](#) on Tue, 20 Feb 2007 23:29:54 GMT  
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you mean this?

Number of Exported Functions = 115 (decimal)

Addr:45018390 Ord: 1 (0001h) Name: AddCRCHook  
Addr:45018900 Ord: 2 (0002h) Name: AddCharacterPurchaseHook  
Addr:45018990 Ord: 3 (0003h) Name: AddCharacterPurchaseMonHook  
Addr:450170E0 Ord: 4 (0004h) Name: AddChatHook  
Addr:45017EE0 Ord: 5 (0005h) Name: AddConsoleOutputHook  
Addr:450185D0 Ord: 6 (0006h) Name: AddDataHook  
Addr:45017130 Ord: 7 (0007h) Name: AddGameOverHook  
Addr:450170F0 Ord: 8 (0008h) Name: AddHostHook  
Addr:45018830 Ord: 9 (0009h) Name: AddKeyHook  
Addr:45017120 Ord: 10 (000Ah) Name: AddLoadLevelHook  
Addr:45017100 Ord: 11 (000Bh) Name: AddPlayerJoinHook  
Addr:450185E0 Ord: 12 (000Ch) Name: AddPlayerLeaveHook

Addr:450188A0 Ord: 13 (000Dh) Name: AddPowerupPurchaseHook  
Addr:45018930 Ord: 14 (000Eh) Name: AddPowerupPurchaseMonHook  
Addr:450188D0 Ord: 15 (000Fh) Name: AddVehiclePurchaseHook  
Addr:45018960 Ord: 16 (0010h) Name: AddVehiclePurchaseMonHook  
Addr:45017110 Ord: 17 (0011h) Name: AddVersionHook  
Addr:45017E10 Ord: 18 (0012h) Name: Change\_Radar\_Map  
Addr:450178A0 Ord: 19 (0013h) Name: Clear\_Info\_Texture  
Addr:450183C0 Ord: 20 (0014h) Name: Display\_GDI\_Sidebar  
Addr:45018470 Ord: 21 (0015h) Name: Display\_NOD\_Sidebar  
Addr:45018520 Ord: 22 (0016h) Name: Display\_Security\_Dialog  
Addr:450174B0 Ord: 23 (0017h) Name: GetBHSVersion  
Addr:450174A0 Ord: 24 (0018h) Name: GetCurrentMusicTrack  
Addr:45017DF0 Ord: 25 (0019h) Name: Get\_Build\_Time\_Multiplier  
Addr:45017AE0 Ord: 26 (001Ah) Name: Get\_Vehicle\_Limit  
Addr:45017ED0 Ord: 27 (001Bh) Name: Is\_Currently\_Building  
Addr:45017CF0 Ord: 28 (001Ch) Name: Load\_New\_HUD\_INI  
Addr:450187D0 Ord: 29 (001Dh) Name: NewAddObjectCreateHook  
Addr:450187F0 Ord: 30 (001Eh) Name: NewRemoveObjectCreateHook  
Addr:450183B0 Ord: 31 (001Fh) Name: New\_Change\_Time\_Limit  
Addr:450183A0 Ord: 32 (0020h) Name: New\_Change\_Time\_Remaining  
Addr:45016450 Ord: 33 (0021h) Name: New\_Clear\_Weapons  
Addr:45015BF0 Ord: 34 (0022h) Name: New\_Create\_2D\_Sound  
Addr:45017030 Ord: 35 (0023h) Name: New\_Create\_2D\_Sound\_Player  
Addr:45015C40 Ord: 36 (0024h) Name: New\_Create\_2D\_WAV\_Sound  
Addr:450171F0 Ord: 37 (0025h) Name: New\_Create\_2D\_WAV\_Sound\_Player  
Addr:45015D20 Ord: 38 (0026h) Name: New\_Create\_3D\_Sound\_At\_Bone  
Addr:450173A0 Ord: 39 (0027h) Name: New\_Create\_3D\_Sound\_At\_Bone\_Player  
Addr:45015C90 Ord: 40 (0028h) Name: New\_Create\_3D\_WAV\_Sound\_At\_Bone  
Addr:450172A0 Ord: 41 (0029h) Name: New\_Create\_3D\_WAV\_Sound\_At\_Bone\_Player  
Addr:45015620 Ord: 42 (002Ah) Name: New\_Create\_Explosion  
Addr:45015690 Ord: 43 (002Bh) Name: New\_Create\_Explosion\_At\_Bone  
Addr:45015B50 Ord: 44 (002Ch) Name: New\_Create\_Sound  
Addr:45016F10 Ord: 45 (002Dh) Name: New\_Create\_Sound\_Player  
Addr:45017BA0 Ord: 46 (002Eh) Name: New\_Disable\_All\_Collisions  
Addr:45017C10 Ord: 47 (002Fh) Name: New\_Disable\_Physical\_Collisions  
Addr:45016820 Ord: 48 (0030h) Name: New\_Display\_Float  
Addr:45016C80 Ord: 49 (0031h) Name: New\_Display\_Float\_Player  
Addr:45016110 Ord: 50 (0032h) Name: New\_Display\_GDI\_Player\_Terminal\_Player  
Addr:45017AF0 Ord: 51 (0033h) Name: New\_Display\_Health\_Bar  
Addr:45016880 Ord: 52 (0034h) Name: New\_Display\_Int  
Addr:45016D50 Ord: 53 (0035h) Name: New\_Display\_Int\_Player  
Addr:450161B0 Ord: 54 (0036h) Name: New\_Display\_NOD\_Player\_Terminal\_Player  
Addr:450167D0 Ord: 55 (0037h) Name: New\_Display\_Text  
Addr:45016BD0 Ord: 56 (0038h) Name: New\_Display\_Text\_Player  
Addr:45017C80 Ord: 57 (0039h) Name: New\_Enable\_Collisions  
Addr:45016A30 Ord: 58 (003Ah) Name: New\_Enable\_HUD\_Player  
Addr:45016050 Ord: 59 (003Bh) Name: New\_Enable\_Radar\_Player  
Addr:450155A0 Ord: 60 (003Ch) Name: New\_Enable\_Stealth

Addr:45016E10 Ord: 61 (003Dh) Name: New\_Enable\_Stealth\_Player  
Addr:450164D0 Ord: 62 (003Eh) Name: New\_Enable\_Vehicle\_Transitions  
Addr:45015A30 Ord: 63 (003Fh) Name: New\_Fade\_Background\_Music  
Addr:45015E30 Ord: 64 (0040h) Name: New\_Fade\_Background\_Music\_Player  
Addr:45016960 Ord: 65 (0041h) Name: New\_Force\_Camera\_Look\_Player  
Addr:45015DB0 Ord: 66 (0042h) Name: New\_Play\_Building\_Announcement  
Addr:450168D0 Ord: 67 (0043h) Name: New\_Select\_Weapon  
Addr:45015AB0 Ord: 68 (0044h) Name: New\_Set\_Background\_Music  
Addr:45015F00 Ord: 69 (0045h) Name: New\_Set\_Background\_Music\_Player  
Addr:45016760 Ord: 70 (0046h) Name: New\_Set\_Display\_Color  
Addr:45016AF0 Ord: 71 (0047h) Name: New\_Set\_Display\_Color\_Player  
Addr:45018050 Ord: 72 (0048h) Name: New\_Set\_Fog\_Color  
Addr:45018280 Ord: 73 (0049h) Name: New\_Set\_Fog\_Density  
Addr:45015700 Ord: 74 (004Ah) Name: New\_Set\_Fog\_Enable  
Addr:450157D0 Ord: 75 (004Bh) Name: New\_Set\_Fog\_Enable\_Player  
Addr:45018180 Ord: 76 (004Ch) Name: New\_Set\_Fog\_Mode  
Addr:45015750 Ord: 77 (004Dh) Name: New\_Set\_Fog\_Range  
Addr:45015890 Ord: 78 (004Eh) Name: New\_Set\_Fog\_Range\_Player  
Addr:45018740 Ord: 79 (004Fh) Name: New\_Set\_Model  
Addr:45017520 Ord: 80 (0050h) Name: New\_Set\_Obj\_Radar\_Blip\_Color  
Addr:45017660 Ord: 81 (0051h) Name: New\_Set\_Obj\_Radar\_Blip\_Color\_Player  
Addr:450174C0 Ord: 82 (0052h) Name: New\_Set\_Obj\_Radar\_Blip\_Shape  
Addr:45017580 Ord: 83 (0053h) Name: New\_Set\_Obj\_Radar\_Blip\_Shape\_Player  
Addr:45016550 Ord: 84 (0054h) Name: New\_Set\_Player\_Type  
Addr:450165D0 Ord: 85 (0055h) Name: New\_Set\_Screen\_Fade\_Color  
Addr:45016250 Ord: 86 (0056h) Name: New\_Set\_Screen\_Fade\_Color\_Player  
Addr:45016660 Ord: 87 (0057h) Name: New\_Set\_Screen\_Fade\_Opacity  
Addr:45016370 Ord: 88 (0058h) Name: New\_Set\_Screen\_Fade\_Opacity\_Player  
Addr:45015990 Ord: 89 (0059h) Name: New\_Set\_War\_Blitz  
Addr:450166D0 Ord: 90 (005Ah) Name: New\_Shake\_Camera  
Addr:45015B10 Ord: 91 (005Bh) Name: New\_Stop\_Background\_Music  
Addr:45015FB0 Ord: 92 (005Ch) Name: New\_Stop\_Background\_Music\_Player  
Addr:45018A00 Ord: 93 (005Dh) Name: RemoveCharacterPurchaseHook  
Addr:45018A60 Ord: 94 (005Eh) Name: RemoveCharacterPurchaseMonHook  
Addr:45018810 Ord: 95 (005Fh) Name: RemoveKeyHook  
Addr:450189C0 Ord: 96 (0060h) Name: RemovePowerupPurchaseHook  
Addr:45018A20 Ord: 97 (0061h) Name: RemovePowerupPurchaseMonHook  
Addr:450189E0 Ord: 98 (0062h) Name: RemoveVehiclePurchaseHook  
Addr:45018A40 Ord: 99 (0063h) Name: RemoveVehiclePurchaseMonHook  
Addr:45017D60 Ord: 100 (0064h) Name: Remove\_Weapon  
Addr:45017A20 Ord: 101 (0065h) Name: Send\_Message  
Addr:45017940 Ord: 102 (0066h) Name: Send\_Message\_Player  
Addr:45017EC0 Ord: 103 (0067h) Name: Set\_Currently\_Building  
Addr:450180B0 Ord: 104 (0068h) Name: Set\_Fog\_Color\_Player  
Addr:450182D0 Ord: 105 (0069h) Name: Set\_Fog\_Density\_Player  
Addr:450181D0 Ord: 106 (006Ah) Name: Set\_Fog\_Mode\_Player  
Addr:45017740 Ord: 107 (006Bh) Name: Set\_HUD\_Texture  
Addr:450177F0 Ord: 108 (006Ch) Name: Set\_Info\_Texture

Addr:45017EF0 Ord: 109 (006Dh) Name: Set\_Reticle\_Texture1  
Addr:45017FA0 Ord: 110 (006Eh) Name: Set\_Reticle\_Texture2  
Addr:45017140 Ord: 111 (006Fh) Name: Set\_Scope  
Addr:450185F0 Ord: 112 (0070h) Name: Set\_Shader\_Number  
Addr:45017A90 Ord: 113 (0071h) Name: Set\_Vehicle\_Limit  
Addr:45017B50 Ord: 114 (0072h) Name: Set\_Wireframe\_Mode  
Addr:45017DE0 Ord: 115 (0073h) Name: Update\_PT\_Data

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Subject: Re: ASM Addresses  
Posted by [0x90](#) on Wed, 21 Feb 2007 01:11:48 GMT  
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QoQn00b wrote on Wed, 21 February 2007 00:03  
Nein, I mean how to find the names of the ASM commands. Like, 0x0040F0D0 is the SetScore or SetMoney (I cant remember which) address in the ASM release. How can I get a key to the list of these address names?

gamemodding wrote how do i get the addresses of the functions i want to hack?

im pretty sure youre talking about the same: getting the function pointer of an (engine) function. so the address of the first instruction of any function not available in source (so only in asm). im afraid you would have to debug/trace them yourself if not already done like by jonwil@scriptsdll.  
so i think funcptr of renegade engine is pretty good covered.

regards  
0x90

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Subject: Re: ASM Addresses  
Posted by [QoQn00b](#) on Wed, 21 Feb 2007 05:41:33 GMT  
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Thanks for the replies.

Yes, gamemodding, that is EXACTLY what I'm looking for. Where'd you get that list? Is there more?

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Subject: Re: ASM Addresses  
Posted by [jnz](#) on Wed, 21 Feb 2007 08:04:28 GMT  
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with this handy little tool.

## File Attachments

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1) [dsassm01.zip](#), downloaded 230 times

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Subject: Re: ASM Addresses

Posted by [0x90](#) on Wed, 21 Feb 2007 10:14:41 GMT

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but that are just the exported functions of a dll (in this case the bhs.dll i guess?!)

this is useless if youre looking for engine pointers in a closed-source "exe" file like you will find them in jonwils scripts.dll source. dont have the sources here right now but i think it was `InitEngine()@Engine.c`

oh and btw, just to do some smalltalk, instead of using typedefs for all those funcptr calls i wrote myself a small function:

```
pCall(ptraddress,argcoun,arguments...)
```

for example: if there was a function in the renegade engine to set some players money at 0x12345678 and it needs two arguments (playerid and moneyamount) you would call it that way:

```
pCall(0x12345678,2,playerid,moneyamount);
```

of course a typedef is more failsafe/nicer but if you have to call many funcptr's randomly, this is a quick'n'dirty, asm-based solution to do it. the contra: it has of course some (code)overhead.

regards  
0x90

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Subject: Re: ASM Addresses

Posted by [jnz](#) on Wed, 21 Feb 2007 16:40:06 GMT

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i never thought it was possible to call a non-exported function in a dll. so, how do i get the address of the non-exported funcion? if you try to call a invalid address, it will throw a generic error.

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