Обзор инструментов IDA, Olly и все все

Михаил Вяцков & Виктор Дворецкий

Tools

- Disassembler
- Debugger
- Decompiler
- MOAR

IDA

Interactive Disassembler

Code

```
File Edit Jump Search View Debugger Options Windows Help
                                                                                                         v aWhatSYourN. v 🔗 = + × 📑 🗎 🖺 🗜 🖽
                                                                                             in of N in w of T
    表 En | 0001 0001 0001 1001 0001 1011 - ** N × | 2011 - # - ** S N K /→ ~ / | : ; 法 坪 | 以 切 品 森 平 点 藻
    ■ 2 8 7 8 8 f f f
  🖺 IDA View-A 🛗 Hex View-A 🏥 Exports 🞼 Imports N Names 🕻 Functions 🐸 Strings 🧸 Structures En Enums
                .text:0040103B
                                                                                                                                                short loc 401040
                   .text:0040103B
                ·.text:0040103D
                                                                                                                       align 10h
                   .text:00401040
                   .text:00401040 loc 401040:
                                                                                                                                                                                                   ; CODE XREF: sub_401000+3Bfj
                   .text:00401040
                                                                                                                                                                                                   ; sub_401000+5Alj
               .text:00401040
                                                                                                                                               dl, [eax]
                                                                                                                      mov
                .text:00401042
                                                                                                                      cmp
                                                                                                                                                dl, [ecx]
               .text:00401044
                                                                                                                      jnz
                                                                                                                                                short loc 401060
               .text:00401046
                                                                                                                      test
                                                                                                                                               dl, dl
               .text:00401048
                                                                                                                      jz
                                                                                                                                                short loc_40105C
                                                                                                                                                dl, [eax+1]
                .text:0040104A
                                                                                                                                               dl, [ecx+1]
                .text:0040104D
                                                                                                                       cmp
               .text:00401050
                                                                                                                      inz
                                                                                                                                               short loc 401060
                .text:00401052
                                                                                                                      add
                                                                                                                                                eax, 2
                                                                                                                       add
                                                                                                                                                ecx, 2
                .text:00401055
                ·.text:00401058
                                                                                                                      test
                                                                                                                                               dl, dl
            .text:0040105A
                                                                                                                      jnz
                                                                                                                                                short loc 401040
                   .text:0040105C
                                                                                                                                                                                                  ; CODE XREF: sub 401000+48fj
                   .text:0040105C loc 40105C:
              .text:0040105C
                                                                                                                      xor
                                                                                                                                                eax, eax
               .text:0040105E
                                                                                                                      jmp
                                                                                                                                                short loc 401065
                   .text:00401060
                   .text:00401060
                  00000440 00401040: sub_401000:loc_401040
Compling file 'C:\Program Files (x86)\DA Free\idc\ida.idc'...
Executing function 'main'... Files (x86)\DA Free\idc\ida.idc'...
Executing function 'main'... Files (x86)\DA Free\idc\ida.idc'...
Executing function 'on-load'...

IDA is analysing the 'nput file...

IDA is analysing the 'nput file...

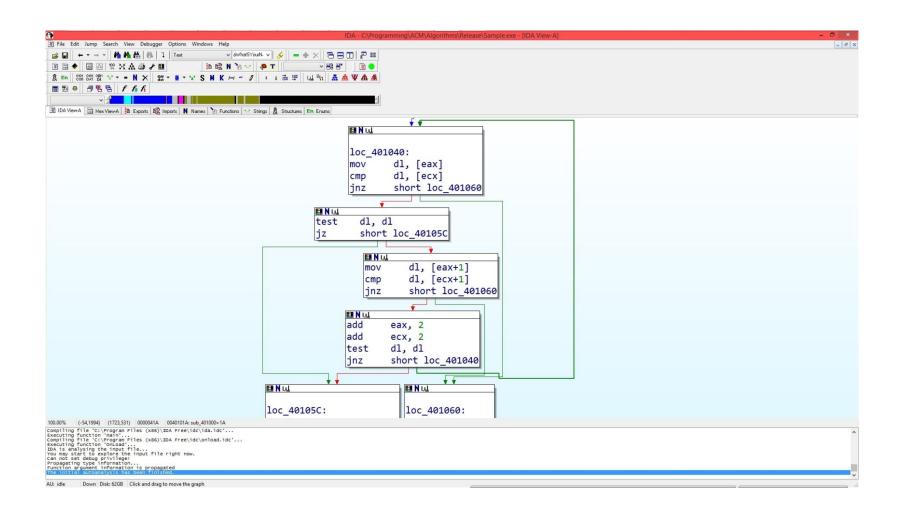
Executing function 'on-load'...

Executing function 'on-load'...

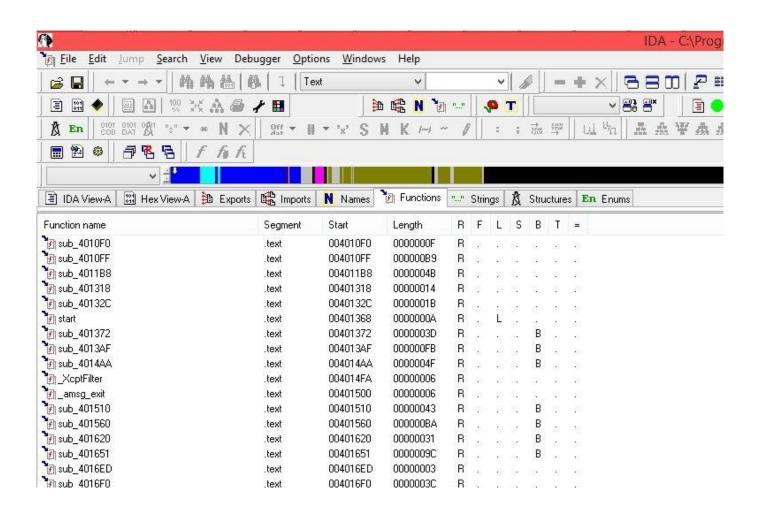
Executing function 'in-load'...

AU: idle Down Disk: 62GB
```

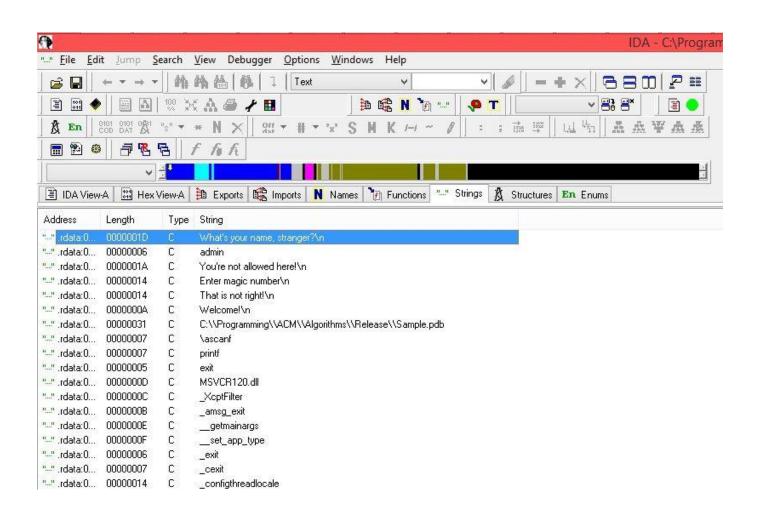
Graph



Functions



Strings



Addresses

```
*.text:00401046

:.text:00401048

:.text:0040104A

:.text:0040104A

:.text:0040104D

cmp dl, [eax+1]

dl, [ecx+1]
```

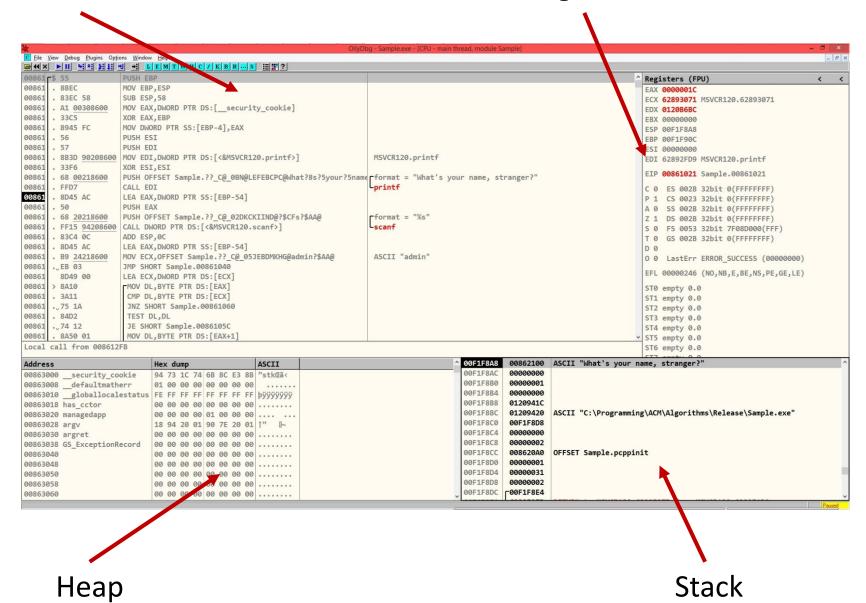
Memory offset

OllyDbg

Windows debugger

Instructions

Registers



F7

00861012	. 8B3D 90208600	MOV EDI, DWORD PTR DS: [<&MSVCR120.printf>
00861018	. 33F6	XON ESI, ESI
0086101A	. 68 00218600	PUSH OFFSET Sample.??_C@_ØBN@LEFEBCPC@Wh
0086101F	• FFD7	CAL EDI
00861021	. 8D45 AC	LEA EAX, DWORD PTR SS: [EBP-54]
00861024	. 50	PUSE EAX
00861025 F8	. 68 20218600	PUSH OFFSET Sample.??_C@_02DKCKIIND@?\$CF
0005100	. FF15 94208600	DWORD PTR DS:[<&MSVCR120.scanf>]
000	. 83C4 0C	ADD ESP,0C
00861033	. 8D45 AC	LEA EAX, DWORD PTR SS:[EBP-54]
00861036	. B9 24218600	MOV ECX, OFFSET Sample. ??_C@_05JEBDMKHG@a
0086103B	., EB 03	JMP SHORT Sample.00861040
0086103D	8D49 00	LEA ECX, DWORD PTR DS: [ECX]

GDB

GNU Debugger



File Edit View Bookmarks Settings Help

```
[crassirostris@cras-manjaro reverse]$ gdb sample.o
GNU qdb (GDB) 7.8
Copyright (C) 2014 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <a href="http://gnu.org/licenses/gpl.html">http://gnu.org/licenses/gpl.html</a>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY to the extent permitted by law. Type "show copying"
and "show warrant
This GDB was conf
                             "x86
                                     -unkno
                                               linux-a
                     ired
                                              detail
                     Hic
Type "show confid
                                     gurat
                            for co
For bug reporting
                           tions.
                                     ase s
                     (so)
<http://www.gnu.d
                            re/adb
                                     igs/>.
Find the GDB manu
                     and
                            her do
                                     ientat
                                                                  at:
                                                resour
                                                           on
<http://www.gnu.o.g/softwa.e/gdb,ascumentation/>.
For help, type "help".
Type "apropos word" to search for commands related to "word"...
Reading symbols from sample.o...(no debugging symbols found)...done.
(adb)
```