```
bufbomb: file format elf32-i386
```

Disassembly of section .init:

```
080486a8 <_init>:
 80486a8:
                                        push
                                               %ebp
               55
 80486a9:
                89 e5
                                        mov
                                               %esp,%ebp
 80486ab:
               83 ec 08
                                        sub
                                               $0x8,%esp
 80486ae:
                e8 21 02 00 00
                                               80488d4 <call_gmon_start>
                                        call
                e8 a8 02 00 00
 80486b3:
                                        call
                                               8048960 <frame_dummy>
 80486b8:
                e8 73 0f 00 00
                                        call
                                               8049630 <__do_global_ctors_aux>
 80486bd:
                c9
                                        leave
 80486be:
                c3
                                        ret
Disassembly of section .plt:
080486c0 <sprintf@plt-0x10>:
                ff 35 e4 a0 04 08
                                        pushl 0x804a0e4
 80486c0:
 80486c6:
                ff 25 e8 a0 04 08
                                                *0x804a0e8
                                        jmp
 80486cc:
                00 00
                                        add
                                               %al,(%eax)
        . . .
080486d0 <sprintf@plt>:
                ff 25 ec a0 04 08
                                               *0x804a0ec
 80486d0:
                                        jmp
 80486d6:
                68 00 00 00 00
                                        push
                                               $0x0
 80486db:
                e9 e0 ff ff ff
                                        jmp
                                               80486c0 <_init+0x18>
080486e0 oplt>:
 80486e0:
                ff 25 f0 a0 04 08
                                        jmp
                                               *0x804a0f0
                68 08 00 00 00
 80486e6:
                                        push
                                               $0x8
 80486eb:
                e9 d0 ff ff ff
                                        jmp
                                               80486c0 <_init+0x18>
080486f0 <mmap@plt>:
 80486f0:
                ff 25 f4 a0 04 08
                                               *0x804a0f4
                                        jmp
 80486f6:
                68 10 00 00 00
                                        push
                                               $0x10
 80486fb:
                e9 c0 ff ff ff
                                               80486c0 <_init+0x18>
                                        jmp
08048700 <random@plt>:
                ff 25 f8 a0 04 08
                                               *0x804a0f8
 8048700:
                                        jmp
 8048706:
                68 18 00 00 00
                                        push
                                               $0x18
 804870b:
                e9 b0 ff ff ff
                                        jmp
                                               80486c0 <_init+0x18>
08048710 <signal@plt>:
                                               *0x804a0fc
 8048710:
                ff 25 fc a0 04 08
                                        jmp
 8048716:
                68 20 00 00 00
                                        push
                                               $0x20
 804871b:
                e9 a0 ff ff ff
                                        jmp
                                               80486c0 <_init+0x18>
08048720 <__gmon_start__@plt>:
                                               *0x804a100
 8048720:
               ff 25 00 a1 04 08
                                        jmp
 8048726:
                68 28 00 00 00
                                        push
                                               $0x28
 804872b:
                e9 90 ff ff ff
                                        jmp
                                               80486c0 <_init+0x18>
08048730 <calloc@plt>:
 8048730:
               ff 25 04 a1 04 08
                                               *0x804a104
                                        dmi
 8048736:
                68 30 00 00 00
                                        push
                                               $0x30
                e9 80 ff ff ff
 804873b:
                                               80486c0 <_init+0x18>
                                        jmp
08048740 <system@plt>:
 8048740:
                ff 25 08 a1 04 08
                                               *0x804a108
                                        dmi
 8048746:
                68 38 00 00 00
                                        push
                                               $0x38
 804874b:
                e9 70 ff ff ff
                                               80486c0 <_init+0x18>
                                        jmp
08048750 <memset@plt>:
 8048750:
                ff 25 0c a1 04 08
                                               *0x804a10c
                                        dmi
 8048756:
                68 40 00 00 00
                                        push
                                               $0x40
 804875b:
                e9 60 ff ff ff
                                               80486c0 <_init+0x18>
                                        jmp
08048760 <__libc_start_main@plt>:
```

8048760:	ff 25	10	a1	04	08	jmp	*0x804a110		
8048766:	68 48					push	\$0x48		
804876b:	e9 50	ff	ff	ff		jmp	80486c0 <_init+0x18>		
08048770 <_IO_g			- 1		00		*0004114		
8048770: 8048776:	ff 25 68 50				08	jmp	*0x804a114		
8048776: 804877b:	e9 40					push jmp	\$0x50 80486c0 <_init+0x18>		
0040770.	e9 40	11	11	11		Jilip	00400C0 <_!!!!!+0X10>		
08048780 <ctype_b_loc@plt>:</ctype_b_loc@plt>									
8048780:	ff 25	18	a1	04	08	qmp	*0x804a118		
8048786:	68 58					push	\$0x58		
804878b:	e9 30	ff	ff	ff		jmp	80486c0 <_init+0x18>		
08048790 <fclos< td=""><td>e@plt&gt;</td><td>:</td><td></td><td></td><td></td><td></td><td></td></fclos<>	e@plt>	:							
8048790:	ff 25	1c	a1	04	08	jmp	*0x804a11c		
8048796:	68 60 e9 20					push jmp	\$0x60		
804879b:	e9 20	ТТ	тт	тт		Juib	80486c0 <_init+0x18>		
080487a0 <getop< td=""><td>+@nl+&gt;</td><td>•</td><td></td><td></td><td></td><td></td><td></td></getop<>	+@nl+>	•							
			a1	04	08	jmp	*0x804a120		
80487a6:	ff 25 68 68	00	00	00		push	\$0x68		
	e9 10					jmp	80486c0 <_init+0x18>		
080487b0 <fopen< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></fopen<>									
80487b0:	ff 25				08	jmp	*0x804a124		
	68 70					push	\$0x70		
80487bb:	e9 00	ff	ff	ff		jmp	80486c0 <_init+0x18>		
080487c0 <alarm< td=""><td>@n]+╮∙</td><td></td><td></td><td></td><td></td><td></td><td></td></alarm<>	@n]+╮∙								
	ff 25	28	<b>α</b> 1	04	08	jmp	*0x804a128		
80487c6:	68 78				00	push	\$0x78		
80487cb:	e9 f0					jmp	80486c0 <_init+0x18>		
						<i>3</i> F	- · · · · · · · ·		
080487d0 <strcp< td=""><td>y@plt&gt;</td><td>:</td><td></td><td></td><td></td><td></td><td></td></strcp<>	y@plt>	:							
80487d0:	ff 25	2c	a1	04	08	jmp	*0x804a12c		
80487d6:	68 80					push	\$0x80		
80487db:	e9 e0	fe	ff	ff		jmp	80486c0 <_init+0x18>		
000407-0	CO1.								
080487e0 <print< td=""><td>f@plt&gt; ff 25</td><td></td><td>-1</td><td>0.4</td><td>00</td><td>jmp</td><td>*0x804a130</td></print<>	f@plt> ff 25		-1	0.4	00	jmp	*0x804a130		
80487e0: 80487e6:					08	јтр push	\$0x88		
00 <del>1</del> 07 CO.	68 88					•	******		
80487eh:	68 88 e9 d0					imn	XU4X6CU < 101+Ux1X>		
80487eb:	68 88 e9 d0					jmp	80486c0 <_init+0x18>		
80487eb: 080487f0 <srand< td=""><td>e9 d0</td><td>fe</td><td></td><td></td><td></td><td>jmp</td><td>80486c0 &lt;_init+0x18&gt;</td></srand<>	e9 d0	fe				jmp	80486c0 <_init+0x18>		
	e9 d0	fe >:	ff	ff	08	jmp	*0x804a134		
080487f0 <srand 80487f0:</srand 	e9 d0 om@plt	fe >: 34	ff a1	ff 04					
080487f0 <srand 80487f0:</srand 	e9 d0 om@plt ff 25	fe >: 34 00	ff a1 00	ff 04 00		jmp	*0x804a134		
080487f0 <srand 80487f0: 80487f6: 80487fb:</srand 	e9 d0 om@plt ff 25 68 90 e9 c0	fe >: 34 00 fe	ff a1 00	ff 04 00		jmp push	*0x804a134 \$0x90		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit< td=""><td>e9 d0 om@plt ff 25 68 90 e9 c0</td><td>fe &gt;: 34 00 fe :</td><td>a1 00 ff</td><td>ff 04 00 ff</td><td></td><td>jmp push jmp</td><td>*0x804a134 \$0x90 80486c0 &lt;_init+0x18&gt;</td></fwrit<></srand 	e9 d0 om@plt ff 25 68 90 e9 c0	fe >: 34 00 fe :	a1 00 ff	ff 04 00 ff		jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18>		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800:</fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25	fe >: 34 00 fe : 38	ff a1 00 ff	ff 04 00 ff	08	jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806:</fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98	fe >: 34 00 fe : 38 00	ff a1 00 ff a1 00	ff 04 00 ff 04 00	08	jmp push jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800:</fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25	fe >: 34 00 fe : 38 00	ff a1 00 ff a1 00	ff 04 00 ff 04 00	08	jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806:</fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0	fe >: 34 00 fe : 38 00 fe	ff a1 00 ff a1 00	ff 04 00 ff 04 00	08	jmp push jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b:</fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0	fe >: 34 00 fe : 38 00 fe :>:	ff a1 00 ff a1 00 ff	ff 04 00 ff 04 00 ff	08	jmp push jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin< td=""><td>e9 d0 om@plt ff 25 68 90 e9 c0 e@plt&gt; ff 25 68 98 e9 b0</td><td>fe &gt;: 34 00 fe : 38 00 fe &gt;: 3c</td><td>ff a1 00 ff a1 00 ff</td><td>ff 04 00 ff 04 06 ff</td><td>08</td><td>jmp push jmp jmp push jmp</td><td>*0x804a134 \$0x90 80486c0 &lt;_init+0x18&gt; *0x804a138 \$0x98 80486c0 &lt;_init+0x18&gt;</td></fprin<></fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0	fe >: 34 00 fe : 38 00 fe >: 3c	ff a1 00 ff a1 00 ff	ff 04 00 ff 04 06 ff	08	jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18>		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810:</fprin </fwrit </srand 	e9 d0  om@plt  ff 25 68 90 e9 c0  e@plt> ff 25 68 98 e9 b0  tf@plt ff 25	fe >: 34 00 fe : 38 00 fe >: 3c 00	ff a1 00 ff a1 00 ff a1 00	ff 04 00 ff 04 00 ff	08	jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b:</fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0	fe >: 34 00 fe : 38 00 fe >: 3c 00 fe	ff a1 00 ff a1 00 ff a1 00	ff 04 00 ff 04 00 ff	08	jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov< td=""><td>e9 d0 om@plt ff 25 68 90 e9 c0 e@plt&gt; ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0</td><td>fe &gt;: 34 00 fe : 38 00 fe &gt;: 3c 00 fe ::</td><td>ff a1 00 ff a1 00 ff a1 00 ff</td><td>ff 04 00 ff 04 00 ff 04 06 ff</td><td>08 08</td><td>jmp push jmp jmp push jmp jmp</td><td>*0x804a134 \$0x90 80486c0 &lt;_init+0x18&gt; *0x804a138 \$0x98 80486c0 &lt;_init+0x18&gt; *0x804a13c \$0xa0 80486c0 &lt;_init+0x18&gt;</td></remov<></fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0	fe >: 34 00 fe : 38 00 fe >: 3c 00 fe ::	ff a1 00 ff a1 00 ff a1 00 ff	ff 04 00 ff 04 00 ff 04 06 ff	08 08	jmp push jmp jmp push jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18>		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820:</remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt> ff 25	fe >: 34 00 fe : 38 00 fe >: 3c 00 fe : 40	ff a1 00 ff a1 00 ff a1 a1 a1 a1	ff 04 00 ff 04 00 ff 04 00 ff	08 08	jmp push jmp jmp push jmp jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820: 8048826:</remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0	fe >: 34 00 fe :: 38 00 fe >: 3c 00 fe :: 40 00	ff a1 00 ff a1 00 ff a1 00 ff	ff 04 00 ff 04 00 ff 04 00 ff	08 08	jmp push jmp jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140 \$0xa8		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820:</remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt> ff 25	fe >: 34 00 fe :: 38 00 fe >: 3c 00 fe :: 40 00	ff a1 00 ff a1 00 ff a1 00 ff	ff 04 00 ff 04 00 ff 04 00 ff	08 08	jmp push jmp jmp push jmp jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820: 8048820: 8048820:</remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt> ff 25 68 a8 e9 90	fe >: 34 00 fe : 38 00 fe : 40 00 fe	ff a1 00 ff a1 00 ff a1 00 ff	ff 04 00 ff 04 00 ff 04 00 ff	08 08	jmp push jmp jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140 \$0xa8		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820: 8048826:</remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt> ff 25 68 a8 e9 90	fe >: 34 00 fe : 38 00 fe : 40 00 fe : 40 00 fe >:	ff a1 00 ff a1 00 ff a1 00 ff a1 ff	ff 04 00 ff 04 00 ff 04 00 ff	08 08 08	jmp push jmp jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140 \$0xa8		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 8048806: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820: 8048820: 8048820: 8048830 <cuser< td=""><td>e9 d0 om@plt ff 25 68 90 e9 c0 e@plt&gt; ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt&gt; ff 25 68 a8 e9 jo</td><td>fe &gt;: 34 00 fe : 38 00 fe : 40 00 fe : 44</td><td>ff a1 00 ff a1 00 ff a1 00 ff a1 a1 a1 a1 a1 a1 a1</td><td>ff 04 00 ff 04 00 ff 04 00 ff 04 00 ff</td><td>08 08 08</td><td>jmp push jmp jmp push jmp jmp jmp jmp</td><td>*0x804a134 \$0x90 80486c0 &lt;_init+0x18&gt; *0x804a138 \$0x98 80486c0 &lt;_init+0x18&gt; *0x804a13c \$0xa0 80486c0 &lt;_init+0x18&gt; *0x804a140 \$0xa8 80486c0 &lt;_init+0x18&gt;</td></cuser<></remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt> ff 25 68 a8 e9 jo	fe >: 34 00 fe : 38 00 fe : 40 00 fe : 44	ff a1 00 ff a1 00 ff a1 00 ff a1 a1 a1 a1 a1 a1 a1	ff 04 00 ff 04 00 ff 04 00 ff 04 00 ff	08 08 08	jmp push jmp jmp push jmp jmp jmp jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140 \$0xa8 80486c0 <_init+0x18>		
080487f0 <srand 80487f0: 80487f6: 80487fb: 08048800 <fwrit 8048800: 804880b: 08048810 <fprin 8048810: 804881b: 08048820 <remov 8048820: 8048820: 8048820: 8048820: 8048830 <cuser 8048830:</cuser </remov </fprin </fwrit </srand 	e9 d0 om@plt ff 25 68 90 e9 c0 e@plt> ff 25 68 98 e9 b0 tf@plt ff 25 68 a0 e9 a0 e@plt> ff 25 68 a0 e9 id@plt> id@plt ff 25	fe >: 34 00 fe :: 38 00 fe :: 40 00 fe >: 44 00	a1 00 ff a1 00 ff a1 00 ff a1 00 ff	ff 04 00 ff 04 00 ff 04 00 ff 04 00 ff	08 08 08	jmp push jmp jmp push jmp jmp push jmp	*0x804a134 \$0x90 80486c0 <_init+0x18> *0x804a138 \$0x98 80486c0 <_init+0x18> *0x804a13c \$0xa0 80486c0 <_init+0x18> *0x804a140 \$0xa8 80486c0 <_init+0x18>		

```
08048840 <fputc@plt>:
 8048840:
                ff 25 48 a1 04 08
                                                *0x804a148
                                         jmp
 8048846:
                68 b8 00 00 00
                                         push
                                                $0xb8
 804884b:
                e9 70 fe ff ff
                                                80486c0 <_init+0x18>
                                         jmp
08048850 <puts@plt>:
 8048850:
                ff 25 4c a1 04 08
                                         jmp
                                                *0x804a14c
                68 c0 00 00 00
 8048856:
                                         push
                                                $0xc0
 804885b:
                e9 60 fe ff ff
                                                80486c0 <_init+0x18>
                                         jmp
08048860 <rand@plt>:
                                                *0x804a150
8048860:
                ff 25 50 a1 04 08
                                         jmp
 8048866:
                68 c8 00 00 00
                                                $0xc8
                                         push
 804886b:
                e9 50 fe ff ff
                                                80486c0 <_init+0x18>
                                         jmp
08048870 <munmap@plt>:
                ff 25 54 a1 04 08
                                                *0x804a154
 8048870:
                                         jmp
 8048876:
                68 d0 00 00 00
                                         push
                                                $0xd0
 804887b:
                e9 40 fe ff ff
                                         jmp
                                                80486c0 <_init+0x18>
08048880 <tempnam@plt>:
                                                *0x804a158
8048880:
                ff 25 58 a1 04 08
                                         jmp
                68 d8 00 00 00
 8048886:
                                         push
                                                $0xd8
 80488b:
                e9 30 fe ff ff
                                         jmp
                                                80486c0 <_init+0x18>
08048890 <__strdup@plt>:
                ff 25 5c a1 04 08
                                                *0x804a15c
 8048890:
                                         jmp
 8048896:
                68 e0 00 00 00
                                         push
                                                $0xe0
                e9 20 fe ff ff
 804889b:
                                         jmp
                                                80486c0 <_init+0x18>
080488a0 <exit@plt>:
 80488a0:
                ff 25 60 a1 04 08
                                         dmi
                                                *0x804a160
 80488a6:
                68 e8 00 00 00
                                         push
                                                $0xe8
 80488ab:
                e9 10 fe ff ff
                                                80486c0 <_init+0x18>
                                         jmp
Disassembly of section .text:
080488b0 <_start>:
 80488b0:
                31 ed
                                         xor
                                                %ebp,%ebp
 80488b2:
                5e
                                         pop
                                                %esi
 80488b3:
                89 e1
                                                %esp,%ecx
                                         mov
                                                $0xfffffff0,%esp
 80488h5:
                83 e4 f0
                                         and
 80488b8:
                                         push
                                                %eax
 80488h9:
                54
                                         push
                                                %esp
 80488ba:
                52
                                         push
                                                %edx
 80488bb:
                68 b0 95 04 08
                                         push
                                                $0x80495b0
                68 c0 95 04 08
                                                $0x80495c0
 8048860:
                                         push
 80488c5:
                                         push
                                                %ecx
 80488c6:
                                                %esi
                56
                                         push
 80488c7:
                68 40 92 04 08
                                                $0x8049240
                                         push
                e8 8f fe ff ff
 80488cc:
                                         call
                                                8048760 <__libc_start_main@plt>
 80488d1:
                f4
                                         hlt
 80488d2:
                90
                                         nop
 80488d3:
                90
                                         nop
080488d4 <call_gmon_start>:
 80488d4:
                55
                                         push
                                                %ebp
 80488d5:
                89 e5
                                         mov
                                                %esp,%ebp
 80488d7:
                53
                                         push
                                                %ebx
 80488d8:
                83 ec 04
                                         sub
                                                $0x4,%esp
 80488db:
                e8 00 00 00 00
                                                80488e0 <call_gmon_start+0xc>
                                         call.
 80488e0:
                                         pop
                81 c3 00 18 00 00
 80488e1:
                                                $0x1800,%ebx
                                         add
 80488e7:
                8b 93 fc ff ff ff
                                         mov
                                                0xfffffffc(%ebx),%edx
                85 d2
 80488ed:
                                         test
                                                %edx,%edx
 80488ef:
                74 05
                                                80488f6 <call_gmon_start+0x22>
                                         jе
 80488f1:
                e8 2a fe ff ff
                                         call
                                                8048720 <__gmon_start__@plt>
 80488f6:
                58
                                                %eax
                                         pop
```

```
80488f7:
                 5b
                                                 %ebx
                                          pop
 80488f8:
                 c9
                                          leave
 80488f9:
                 c3
                                          ret
 80488fa:
                 90
                                          nop
 80488fb:
                 90
                                          nop
 80488fc:
                 90
                                          nop
                 90
 80488fd:
                                          nop
 80488fe:
                 90
                                          nop
                 90
 80488ff:
                                          nop
08048900 <__do_global_dtors_aux>:
 8048900:
                55
                                          push
                                                 %ebp
 8048901:
                89 e5
                                                 %esp,%ebp
 8048903:
                53
                                                 %ebx
                                          push
 8048904:
                 83 ec 04
                                                 $0x4,%esp
                                          sub
                 80 3d b4 a1 04 08 00
 8048907:
                                          cmpb
                                                 $0x0,0x804a1b4
                 75 3f
                                                 804894f <__do_global_dtors_aux+0x4f>
 804890e:
                                          ine
                b8 0c a0 04 08
 8048910:
                                          mov
                                                 $0x804a00c,%eax
 8048915:
                 2d 08 a0 04 08
                                                 $0x804a008,%eax
                                          sub
                 c1 f8 02
 804891a:
                                          sar
                                                 $0x2,%eax
 804891d:
                 8d 58 ff
                                                 0xffffffff(%eax),%ebx
                                          lea
 8048920:
                 a1 b0 a1 04 08
                                                 0x804a1b0,%eax
                                          mov
 8048925:
                39 c3
                                          cmp
                                                 %eax,%ebx
 8048927:
                 76 1f
                                          jbe
                                                 8048948 <__do_global_dtors_aux+0x48>
 8048929:
                 8d b4 26 00 00 00 00
                                          lea
                                                 0x0(%esi),%esi
 8048930:
                 83 c0 01
                                          add
                                                 $0x1,%eax
 8048933:
                a3 b0 a1 04 08
                                          mov
                                                 %eax,0x804a1b0
                 ff 14 85 08 a0 04 08
                                                 *0x804a008(,%eax,4)
 8048938:
                                          call
 804893f:
                 a1 b0 a1 04 08
                                          mov
                                                 0x804a1b0,%eax
 8048944:
                 39 c3
                                          cmp
                                                 %eax,%ebx
 8048946:
                 77 e8
                                                 8048930 <__do_global_dtors_aux+0x30>
                                          ja
                 c6 05 b4 a1 04 08 01
 8048948:
                                          movb
                                                 $0x1,0x804a1b4
 804894f:
                 83 c4 04
                                          add
                                                 $0x4,%esp
 8048952:
                                                 %ebx
                                          pop
 8048953:
                5d
                                                 %ebp
                                          pop
 8048954:
                 c3
                                          ret
                 8d 74 26 00
 8048955:
                                          lea
                                                 0x0(%esi),%esi
                8d bc 27 00 00 00 00
 8048959:
                                          lea
                                                 0x0(%edi),%edi
08048960 <frame_dummy>:
 8048960:
                                          push
                                                 %ebp
 8048961:
                 89 e5
                                          mov
                                                 %esp,%ebp
 8048963:
                 83 ec 08
                                                 $0x8,%esp
                                          sub
                 a1 10 a0 04 08
 8048966:
                                          mov
                                                 0x804a010,%eax
 804896b:
                 85 c0
                                                 %eax,%eax
                                          test
 804896d:
                 74 12
                                          jе
                                                 8048981 <frame_dummy+0x21>
                b8 00 00 00 00
 804896f:
                                                 $0x0,%eax
                                          mov
 8048974:
                 85 c0
                                          test
                                                 %eax,%eax
 8048976:
                 74 09
                                                 8048981 <frame_dummy+0x21>
                                          jе
 8048978:
                 c7 04 24 10 a0 04 08
                                                 $0x804a010,(%esp)
                                          movl
 804897f:
                 ff d0
                                          call
                                                  *%eax
 8048981:
                c9
                                          leave
 8048982:
                 c3
                                          ret
                 90
 8048983:
                                          nop
 8048984:
                 90
                                          nop
 8048985:
                 90
                                          nop
 8048986:
                 90
                                          nop
 8048987:
                 90
                                          nop
 8048988:
                 90
                                          nop
 8048989:
                 90
                                          nop
                 90
 804898a:
                                          nop
 804898b:
                 90
                                          nop
                 90
 804898c:
                                          nop
 804898d:
                 90
                                          nop
 804898e:
                 90
                                          nop
                 90
 804898f:
                                          nop
```

08048990 <save\_char>:

```
8048990:
                8b 0d e4 a1 04 08
                                                0x804a1e4,%ecx
                                         mov
 8048996:
                55
                                         push
                                                %ebp
 8048997:
                89 e5
                                                %esp,%ebp
                                         mov
 8048999:
                53
                                         push
                                                %ebx
 804899a:
                89 c3
                                                %eax,%ebx
                                         mov
                81 f9 ff 03 00 00
 804899c:
                                                $0x3ff,%ecx
                                          cmp
 80489a2:
                7f 37
                                                 80489db <save_char+0x4b>
                                          jg
 80489a4:
                c0 f8 04
                                                $0x4,%al
                83 e0 0f
                                                $0xf.%eax
 80489a7:
                                         and
 80489aa:
                0f b6 80 4c 9c 04 08
                                         movzbl 0x8049c4c(%eax),%eax
                8d 14 49
 80489b1:
                                                 (%ecx,%ecx,2),%edx
                                         lea
 80489b4:
                c6 82 02 a2 04 08 20
                                         movb
                                                $0x20,0x804a202(%edx)
 80489bb:
                88 82 00 a2 04 08
                                         mov
                                                %al,0x804a200(%edx)
 80489c1:
                89 d8
                                                %ebx,%eax
                                         mov
 80489c3:
                83 e0 0f
                                         and
                                                 $0xf,%eax
                0f b6 80 4c 9c 04 08
                                         movzbl
                                                0x8049c4c(%eax),%eax
 80489c6:
                88 82 01 a2 04 08
                                                 %al,0x804a201(%edx)
 80489cd:
                                         mov
                8d 41 01
 80489d3:
                                         lea
                                                0x1(%ecx),%eax
 80489d6:
                a3 e4 a1 04 08
                                                %eax,0x804a1e4
                                         mov
 80489db:
                5b
                                         рор
                                                %ebx
 80489dc:
                5d
                                                %ebp
                                         pop
 80489dd:
                c3
                                          ret
 80489de:
                66 90
                                         xchg
                                                %ax,%ax
080489e0 <entry_check>:
 80489e0:
                55
                                         push
                                                %ebp
 80489e1:
                89 e5
                                         mov
                                                %esp,%ebp
                8b 45 08
                                                0x8(%ebp),%eax
 80489e3:
                                         mov
 80489e6:
                5d
                                         pop
                                                %ebp
                a3 6c a1 04 08
 80489e7:
                                                %eax,0x804a16c
                                         mov
 80489ec:
                c3
                                         ret
                8d 76 00
                                                0x0(%esi),%esi
 80489ed:
                                         lea
080489f0 <illegalhandler>:
 80489f0:
                55
                                         push
                                                %ebp
 80489f1:
                89 e5
                                         mov
                                                %esp,%ebp
                83 ec 08
 80489f3:
                                         sub
                                                $0x8,%esp
                c7 04 24 80 96 04 08
                                                 $0x8049680,(%esp)
 80489f6:
                                         movl
                e8 4e fe ff ff
                                                8048850 <puts@plt>
 80489fd:
                                          call
 8048a02:
                c7 04 24 18 9a 04 08
                                                $0x8049a18,(%esp)
                                         mov1
 8048a09:
                e8 42 fe ff ff
                                          call
                                                8048850 <puts@plt>
                c7 04 24 00 00 00 00
                                                $0x0,(%esp)
 8048a0e:
                                         mov1
                e8 86 fe ff ff
                                                 80488a0 <exit@plt>
 8048a15:
                                          call
 8048a1a:
                8d b6 00 00 00 00
                                         1 ea
                                                0x0(%esi),%esi
08048a20 <alarmhandler>:
 8048a20:
                55
                                         nush
                                                %ebp
 8048a21:
                89 e5
                                         mov
                                                %esp,%ebp
 8048a23:
                83 ec 08
                                                $0x8,%esp
                                          sub
 8048a26:
                a1 70 a1 04 08
                                                 0x804a170,%eax
                                         mov
                c7 04 24 ac 96 04 08
 8048a2h:
                                         movl
                                                $0x80496ac,(%esp)
 8048a32:
                89 44 24 04
                                                %eax, 0x4(%esp)
                                         mov
 8048a36:
                e8 a5 fd ff ff
                                          call
                                                80487e0 <printf@plt>
 8048a3b:
                c7 04 24 18 9a 04 08
                                                $0x8049a18,(%esp)
                                         mov1
 8048a42:
                e8 09 fe ff ff
                                          call
                                                8048850 <puts@plt>
                c7 04 24 00 00 00 00
 8048a47:
                                         mov1
                                                $0x0,(%esp)
 8048a4e:
                e8 4d fe ff ff
                                          call
                                                 80488a0 <exit@plt>
 8048a53:
                8d b6 00 00 00 00
                                         lea
                                                0x0(%esi),%esi
                8d bc 27 00 00 00 00
 8048a59:
                                         lea
                                                0x0(%edi),%edi
08048a60 <seghandler>:
 8048a60:
                55
                                         push
                                                %ebp
                89 e5
 8048a61:
                                                %esp,%ebp
                                         mov
 8048a63:
                83 ec 08
                                         sub
                                                 $0x8,%esp
 8048a66:
                c7 04 24 e0 96 04 08
                                         movl
                                                $0x80496e0,(%esp)
 8048a6d:
                e8 de fd ff ff
                                         call
                                                8048850 <puts@plt>
 8048a72:
                c7 04 24 18 9a 04 08
                                         movl
                                                 $0x8049a18,(%esp)
 8048a79:
                e8 d2 fd ff ff
                                         call
                                                8048850 <puts@plt>
```

```
8048a7e:
                c7 04 24 00 00 00 00
                                         movl
                                                $0x0,(%esp)
8048a85:
                e8 16 fe ff ff
                                         call
                                                80488a0 <exit@plt>
8048a8a:
                8d b6 00 00 00 00
                                                0x0(%esi),%esi
                                         lea
08048a90 <bushandler>:
8048a90:
                55
                                         push
                                                %ebp
                                                %esp,%ebp
8048a91:
                89 e5
                                         mov
8048a93:
                83 ec 08
                                         sub
                                                $0x8,%esp
                c7 04 24 08 97 04 08
                                                $0x8049708,(%esp)
8048a96:
                                         movl
8048a9d:
                e8 ae fd ff ff
                                                8048850 <puts@plt>
                                         call
8048aa2:
                c7 04 24 18 9a 04 08
                                                $0x8049a18,(%esp)
                                         movl
8048aa9:
                e8 a2 fd ff ff
                                         call
                                                8048850 <puts@plt>
8048aae:
                c7 04 24 00 00 00 00
                                         movl
                                                $0x0,(%esp)
                e8 e6 fd ff ff
                                         call
                                                80488a0 <exit@plt>
8048ab5:
8048aba:
                8d b6 00 00 00 00
                                         lea
                                                0x0(%esi),%esi
08048ac0 <usage>:
8048ac0:
                55
                                         push
                                                %ebp
8048ac1:
                89 e5
                                                %esp,%ebp
                                         mov
8048ac3:
                83 ec 08
                                         sub
                                                $0x8,%esp
                                                %eax,0x4(%esp)
8048ac6:
                89 44 24 04
                                         mov
                c7 04 24 28 97 04 08
                                                $0x8049728,(%esp)
8048aca:
                                         movl
                e8 0a fd ff ff
8048ad1:
                                         call
                                                80487e0 <printf@plt>
                c7 04 24 2e 9a 04 08
                                                $0x8049a2e,(%esp)
8048ad6:
                                         movl
8048add:
                e8 6e fd ff ff
                                         call
                                                8048850 <puts@plt>
8048ae2:
                c7 04 24 4c 9a 04 08
                                         movl
                                                $0x8049a4c,(%esp)
8048ae9:
                e8 62 fd ff ff
                                         call
                                                8048850 <puts@plt>
                                                $0x804974c,(%esp)
                c7 04 24 4c 97 04 08
8048aee:
                                         mov1
8048af5:
                e8 56 fd ff ff
                                         call
                                                8048850 <puts@plt>
                c7 04 24 74 97 04 08
8048afa:
                                         movl
                                                $0x8049774,(%esp)
8048b01:
                e8 4a fd ff ff
                                         call
                                                8048850 <puts@plt>
                c7 04 24 00 00 00 00
8048b06:
                                         movl
                                                $0x0,(%esp)
8048b0d:
                e8 8e fd ff ff
                                         call
                                                80488a0 <exit@plt>
8048b12:
                8d b4 26 00 00 00 00
                                         lea
                                                0x0(%esi),%esi
                8d bc 27 00 00 00 00
8048b19:
                                                0x0(%edi),%edi
                                         lea
08048h20 <validate>:
8048b20:
                                         push
                                                %ebp
8048b21:
                89 e5
                                         mov
                                                %esp,%ebp
8048b23:
                81 ec 48 01 00 00
                                                $0x148,%esp
                                         sub
8048b29:
                8b 0d d4 a1 04 08
                                                0x804a1d4,%ecx
                                         mov
                                                %ebx,0xffffffff4(%ebp)
8048h2f:
                89 5d f4
                                         mov
                8b 5d 08
                                                0x8(%ebp),%ebx
8048b32:
                                         mov
8048b35:
                89 75 f8
                                         mov
                                                %esi,0xfffffff8(%ebp)
                89 7d fc
8048b38:
                                         mov
                                                %edi,0xfffffffc(%ebp)
8048b3b:
                85 c9
                                         test
                                                %ecx,%ecx
                0f 84 d8 01 00 00
                                                8048d1b <validate+0x1fb>
8048b3d:
                                         jе
8048b43:
                83 fb 04
                                         cmp
                                                $0x4,%ebx
8048b46:
                77 58
                                                8048ba0 <validate+0x80>
                                         ja
8048b48:
                3b 1d 6c a1 04 08
                                                0x804a16c,%ebx
                                         cmp
                                                8048b70 <validate+0x50>
                74 20
8048h4e:
                                         jе
8048b50:
                c7 04 24 ec 97 04 08
                                         movl
                                                $0x80497ec,(%esp)
8048b57:
                e8 f4 fc ff ff
                                         call
                                                8048850 <puts@plt>
                                                0x0(%esi),%esi
                8d 74 26 00
8048h5c:
                                         1 ea
8048b60:
                8b 5d f4
                                                0xffffffff(%ebp),%ebx
                                         mov
                8b 75 f8
8048h63:
                                                0xffffffff8(%ebp),%esi
                                         mov
                8b 7d fc
                                                0xfffffffc(%ebp),%edi
8048b66:
                                         mov
8048b69:
                89 ec
                                         mov
                                                %ebp,%esp
8048b6b:
                5d
                                                %ebp
                                         pop
8048b6c:
                c3
                                         ret
                8d 76 00
8048b6d:
                                                0x0(%esi),%esi
                                         1 ea
8048b70:
                8b 04 9d 74 a1 04 08
                                                0x804a174(,%ebx,4),%eax
                                         mov
                c7 05 dc a1 04 08 01
                                                $0x1,0x804a1dc
8048b77:
                                         movl
8048b7e:
                00 00 00
8048b81:
                83 e8 01
                                         sub
                                                $0x1,%eax
8048b84:
                85 c0
                                         test
                                                %eax.%eax
8048b86:
                89 04 9d 74 a1 04 08
                                         mov
                                                %eax,0x804a174(,%ebx,4)
 8048b8d:
                7e 21
                                         jle
                                                8048bb0 <validate+0x90>
```

```
8048b8f:
               c7 04 24 63 9a 04 08
                                        movl
                                               $0x8049a63,(%esp)
8048b96:
               e8 b5 fc ff ff
                                        call
                                               8048850 <puts@plt>
8048b9b:
               eb c3
                                               8048b60 <validate+0x40>
                                        jmp
8048b9d:
               8d 76 00
                                               0x0(%esi),%esi
                                        lea
8048ba0:
               c7 04 24 c4 97 04 08
                                               $0x80497c4,(%esp)
                                        movl
8048ba7:
               e8 a4 fc ff ff
                                        call
                                               8048850 <puts@plt>
               eb b2
                                               8048b60 <validate+0x40>
8048bac:
                                        qmp
8048bae:
               66 90
                                        xchq
                                               %ax,%ax
               8b 15 d8 a1 04 08
8048bb0:
                                               0x804a1d8,%edx
                                        mov
8048bb6:
               85 d2
                                               %edx,%edx
                                        test
               0f 85 7f 01 00 00
8048bb8:
                                               8048d3d <validate+0x21d>
                                        jne
8048bbe:
               a1 68 a1 04 08
                                               0x804a168,%eax
                                        mov
8048bc3:
               85 c0
                                        test
                                               %eax,%eax
8048bc5:
               0f 84 61 01 00 00
                                               8048d2c <validate+0x20c>
                                        jе
8048bcb:
               c7 44 24 04 74 9a 04
                                        movl
                                               $0x8049a74,0x4(%esp)
8048hd2:
               08
               c7 04 24 00 00 00 00
8048bd3:
                                        movl
                                               $0x0,(%esp)
                                               8048880 <tempnam@plt>
8048bda:
               e8 a1 fc ff ff
                                        call
8048bdf:
               c7 44 24 04 7b 9a 04
                                        movl
                                               $0x8049a7b,0x4(%esp)
8048be6:
               08
8048be7:
               89 85 e0 fe ff ff
                                               %eax,0xfffffee0(%ebp)
                                        mov
8048bed:
               89 04 24
                                        mov
                                               %eax,(%esp)
               e8 bb fb ff ff
                                               80487b0 <fopen@plt>
8048hf0:
                                        call
8048bf5:
               85 c0
                                        test
                                               %eax,%eax
8048bf7:
               89 c6
                                        mov
                                               %eax,%esi
8048bf9:
               0f 84 76 01 00 00
                                               8048d75 <validate+0x255>
                                        jе
8048bff:
               89 44 24 0c
                                        mov
                                               %eax,0xc(%esp)
               c7 44 24 08 1b 00 00
8048c03:
                                               $0x1b,0x8(%esp)
                                        movl
8048c0a:
               00
               c7 44 24 04 01 00 00
                                               $0x1,0x4(%esp)
8048c0h:
                                        movl
8048c12:
               00
               c7 04 24 7d 9a 04 08
                                               $0x8049a7d,(%esp)
8048c13:
                                        movl
8048c1a:
               e8 e1 fb ff ff
                                        call
                                               8048800 <fwrite@plt>
8048c1f:
               89 74 24 04
                                               %esi,0x4(%esp)
                                        mov
               c7 04 24 0a 00 00 00
                                               $0xa,(%esp)
8048c23:
                                        mov1
               e8 11 fc ff ff
                                               8048840 <fputc@plt>
8048c2a:
                                        call
               c7 04 24 00 00 00 00
8048c2f:
                                        mov1
                                               $0x0,(%esp)
8048c36:
               e8 f5 fb ff ff
                                        call
                                               8048830 <cuserid@plt>
8048c3b:
               85 c0
                                        test
                                               %eax.%eax
               0f 84 19 01 00 00
                                               8048d5c <validate+0x23c>
8048c3d:
                                        jе
8048c43:
               8d 7d eb
                                        lea
                                               0xffffffeb(%ebp),%edi
               89 44 24 04
                                               %eax,0x4(%esp)
8048c46:
                                        mov
               89 3c 24
                                               %edi,(%esp)
8048c4a:
                                        mov
               e8 7e fb ff ff
8048c4d:
                                        call
                                               80487d0 <strcpy@plt>
8048c52:
               89 7c 24 08
                                        mov
                                               %edi,0x8(%esp)
8048c56:
               c7 44 24 04 99 9a 04
                                        movl
                                               $0x8049a99,0x4(%esp)
8048c5d:
               08
8048c5e:
               89 34 24
                                        mov
                                               %esi,(%esp)
                                               8048810 <fprintf@plt>
               e8 aa fb ff ff
                                        call
8048c61:
               a1 d0 a1 04 08
                                               0x804a1d0,%eax
8048c66:
                                        mov
               89 5c 24 10
8048c6h:
                                        mov
                                               %ebx,0x10(%esp)
                                               0xfffffeeb(%ebp),%ebx
8048c6f:
               8d 9d eb fe ff ff
                                        lea
8048c75:
               c7 44 24 1c 00 00 00
                                        movl
                                               $0x0,0x1c(%esp)
8048c7c:
               aa
8048c7d:
               c7 44 24 18 00 a2 04
                                               $0x804a200,0x18(%esp)
                                        movl
8048c84:
               08
               89 44 24 14
                                               %eax,0x14(%esp)
8048c85:
                                        mov
8048c89:
               a1 d4 a1 04 08
                                        mov
                                               0x804a1d4,%eax
8048c8e:
               c7 44 24 08 0a 7d 00
                                        movl
                                               $0x7d0a,0x8(%esp)
8048c95:
               00
               c7 44 24 04 5c 98 04
                                               $0x804985c,0x4(%esp)
8048c96:
                                        mov1
8048c9d:
               08
               89 34 24
8048c9e:
                                               %esi,(%esp)
                                        mov
8048ca1:
               89 44 24 0c
                                        mov
                                               %eax,0xc(%esp)
8048ca5:
               e8 66 fb ff ff
                                        call
                                               8048810 <fprintf@plt>
8048caa:
               89 34 24
                                               %esi,(%esp)
                                        mov
8048cad:
               e8 de fa ff ff
                                        call
                                               8048790 <fclose@plt>
8048cb2:
               8b 85 e0 fe ff ff
                                               0xfffffee0(%ebp),%eax
                                        mov
```

```
8048cb8:
                c7 44 24 14 a7 9a 04
                                         movl
                                                $0x8049aa7,0x14(%esp)
 8048cbf:
                08
 8048cc0:
                c7 44 24 10 b5 9a 04
                                                 $0x8049ab5,0x10(%esp)
                                         movl
 8048cc7:
                08
 8048cc8:
                c7 44 24 0c bc 9a 04
                                         movl
                                                $0x8049abc,0xc(%esp)
 8048ccf:
                08
                89 44 24 08
 8048cd0:
                                                %eax,0x8(%esp)
                                         mov
 8048cd4:
                c7 44 24 04 d3 9a 04
                                                $0x8049ad3,0x4(%esp)
                                         movl
 8048cdb:
                08
 8048cdc:
                89 1c 24
                                                %ebx,(%esp)
                                         mov
                e8 ec f9 ff ff
                                                80486d0 <sprintf@plt>
 8048cdf:
                                         call
 8048ce4:
                89 1c 24
                                         mov
                                                %ebx,(%esp)
 8048ce7:
                e8 54 fa ff ff
                                         call
                                                8048740 <system@plt>
                85 c0
                                                %eax,%eax
 8048cec:
                                         test
 8048cee:
                75 5e
                                                 8048d4e <validate+0x22e>
                                         jne
                c7 04 24 e6 9a 04 08
 8048cf0:
                                         mov1
                                                $0x8049ae6,(%esp)
                e8 54 fb ff ff
                                                 8048850 <puts@plt>
 8048cf7:
                                         call
                c7 04 24 7c 98 04 08
                                                $0x804987c,(%esp)
 8048cfc:
                                         movl
 8048d03:
                e8 48 fb ff ff
                                         call
                                                 8048850 <puts@plt>
 8048d08:
                8b 85 e0 fe ff ff
                                         mov
                                                0xfffffee0(%ebp),%eax
                                                %eax,(%esp)
 8048d0e:
                89 04 24
                                         mov
 8048d11:
                e8 0a fb ff ff
                                                8048820 <remove@plt>
                                         call
                e9 45 fe ff ff
 8048d16:
                                         jmp
                                                8048b60 <validate+0x40>
                c7 04 24 98 97 04 08
                                                 $0x8049798,(%esp)
 8048d1b:
                                         movl
 8048d22:
                e8 29 fb ff ff
                                         call
                                                8048850 <puts@plt>
 8048d27:
                e9 34 fe ff ff
                                         qmr
                                                 8048b60 <validate+0x40>
 8048d2c:
                c7 04 24 ec 98 04 08
                                         movl
                                                $0x80498ec,(%esp)
                                                8048850 <puts@plt>
                e8 18 fb ff ff
 8048d33:
                                         call
 8048d38:
                e9 23 fe ff ff
                                         jmp
                                                 8048b60 <validate+0x40>
                c7 04 24 6e 9a 04 08
                                                $0x8049a6e,(%esp)
                                         movl
 8048d3d:
 8048d44:
                e8 07 fb ff ff
                                         call
                                                 8048850 <puts@plt>
                e9 12 fe ff ff
                                                8048b60 <validate+0x40>
 8048d49:
                                         jmp
 8048d4e:
                c7 04 24 ac 98 04 08
                                         movl
                                                $0x80498ac,(%esp)
 8048d55:
                e8 f6 fa ff ff
                                         call
                                                8048850 <puts@plt>
 8048d5a:
                eh ac
                                                 8048d08 <validate+0x1e8>
                                         jmp
                8d 7d eb
                                                0xffffffeb(%ebp),%edi
 8048d5c:
                                         lea
                c7 45 eb 6e 6f 62 6f
 8048d5f:
                                         movl
                                                $0x6f626f6e,0xffffffeb(%ebp)
                66 c7 45 ef 64 79
 8048d66:
                                         movw
                                                 $0x7964,0xffffffef(%ebp)
                c6 45 f1 00
                                                $0x0,0xffffffff(%ebp)
 8048d6c:
                                         movb
 8048d70:
                e9 dd fe ff ff
                                                 8048c52 <validate+0x132>
                                         jmp
                                         movl
 8048d75:
                c7 04 24 28 98 04 08
                                                $0x8049828,(%esp)
                e8 5f fa ff ff
                                                80487e0 <printf@plt>
 8048d7c:
                                         call
                c7 04 24 01 00 00 00
                                                 $0x1,(%esp)
 8048d81:
                                         movl
                e8 13 fb ff ff
                                                80488a0 <exit@plt>
 8048d88:
                                         call.
                8d 76 00
 8048d8d:
                                         lea
                                                0x0(%esi),%esi
08048d90 <bang>:
 8048d90:
                                         push
                                                %ebp
 8048d91:
                89 e5
                                                %esp,%ebp
                                         mov
 8048d93:
                83 ec 08
                                         sub
                                                 $0x8,%esp
                c7 04 24 02 00 00 00
 8048d96:
                                         movl
                                                $0x2,(%esp)
 8048d9d:
                e8 3e fc ff ff
                                         call
                                                80489e0 <entry_check>
 8048da2:
                a1 e0 a1 04 08
                                         mov
                                                0x804a1e0,%eax
                                                0x804a1d0,%eax
                3b 05 d0 a1 04 08
 8048da7:
                                         cmp
 8048dad:
                74 21
                                                 8048dd0 <bang+0x40>
                                         jе
 8048daf:
                89 44 24 04
                                                %eax,0x4(%esp)
                                         mov
                c7 04 24 f0 9a 04 08
                                                 $0x8049af0,(%esp)
 8048db3:
                                         movl
 8048dba:
                e8 21 fa ff ff
                                         call
                                                80487e0 <printf@plt>
                                                $0x0,(%esp)
 8048dbf:
                c7 04 24 00 00 00 00
                                         movl
 8048dc6:
                e8 d5 fa ff ff
                                         call
                                                80488a0 <exit@plt>
 8048dch:
                90
                                         nop
 8048dcc:
                8d 74 26 00
                                                0x0(%esi),%esi
                                         lea
                89 44 24 04
 8048dd0:
                                                %eax,0x4(%esp)
                                         mov
 8048dd4:
                c7 04 24 38 99 04 08
                                         movl
                                                 $0x8049938,(%esp)
 8048ddb:
                e8 00 fa ff ff
                                         call
                                                80487e0 <printf@plt>
 8048de0:
                c7 04 24 02 00 00 00
                                                $0x2,(%esp)
                                         movl
 8048de7:
                e8 34 fd ff ff
                                         call
                                                 8048b20 <validate>
 8048dec:
                eh d1
                                                 8048dbf <bang+0x2f>
                                         jmp
```

```
8048dee:
                66 90
                                         xchq
                                                %ax,%ax
08048df0 <fizz>:
8048df0:
                55
                                         push
                                                %ebp
8048df1:
                89 e5
                                                %esp,%ebp
                                         mov
8048df3:
                53
                                         push
                                                %ebx
8048df4:
                83 ec 14
                                                $0x14,%esp
                                         sub
8048df7:
                8b 5d 08
                                                0x8(%ebp),%ebx
                                         mov
                c7 04 24 01 00 00 00
                                         movl
8048dfa:
                                                $0x1.(%esp)
                e8 da fb ff ff
                                                 80489e0 <entry_check>
8048e01:
                                         call
                3b 1d d0 a1 04 08
8048e06:
                                         cmp
                                                0x804a1d0,%ebx
8048e0c:
                74 22
                                                 8048e30 <fizz+0x40>
                                         jе
8048e0e:
                89 5c 24 04
                                         mov
                                                %ebx,0x4(%esp)
                c7 04 24 60 99 04 08
                                                $0x8049960,(%esp)
8048e12:
                                         movl
8048e19:
                e8 c2 f9 ff ff
                                         call
                                                80487e0 <printf@plt>
                c7 04 24 00 00 00 00
                                                $0x0,(%esp)
8048e1e:
                                         movl
                                                 80488a0 <exit@plt>
8048e25:
                e8 76 fa ff ff
                                         call
                8d b6 00 00 00 00
8048e2a:
                                         lea
                                                0x0(%esi),%esi
8048e30:
                89 5c 24 04
                                                %ebx,0x4(%esp)
                                         mov
8048e34:
                c7 04 24 0e 9b 04 08
                                         movl
                                                $0x8049b0e,(%esp)
                e8 a0 f9 ff ff
8048e3b:
                                         call
                                                80487e0 <printf@plt>
8048e40:
                c7 04 24 01 00 00 00
                                                 $0x1,(%esp)
                                         movl
8048e47:
                e8 d4 fc ff ff
                                         call.
                                                8048b20 <validate>
                                                8048e1e <fizz+0x2e>
8048e4c:
                eb d0
                                         qmp
8048e4e:
                66 90
                                         xchg
                                                %ax,%ax
08048e50 <smoke>:
8048e50:
                55
                                         push
                                                %ebp
8048e51:
                89 e5
                                         mov
                                                %esp,%ebp
8048e53:
                83 ec 08
                                         sub
                                                $0x8,%esp
8048e56:
                c7 04 24 00 00 00 00
                                         movl
                                                 $0x0,(%esp)
                e8 7e fb ff ff
8048e5d:
                                         call
                                                80489e0 <entry_check>
8048e62:
                c7 04 24 2c 9b 04 08
                                         movl
                                                $0x8049b2c,(%esp)
8048e69:
                e8 e2 f9 ff ff
                                         call
                                                 8048850 <puts@plt>
                c7 04 24 00 00 00 00
                                         mov1
                                                $0x0,(%esp)
8048e6e:
                e8 a6 fc ff ff
                                                 8048b20 <validate>
 8048e75:
                                         call
8048e7a:
                c7 04 24 00 00 00 00
                                         movl
                                                $0x0,(%esp)
                                                 80488a0 <exit@plt>
8048e81:
                e8 1a fa ff ff
                                         call
8048e86:
                8d 76 00
                                         lea
                                                0x0(%esi),%esi
8048e89:
                8d bc 27 00 00 00 00
                                         1ea
                                                0x0(%edi),%edi
08048e90 <Gets>:
8048e90:
                                         push
                                                %ebp
                89 e5
8048e91:
                                         mov
                                                %esp,%ebp
8048e93:
                57
                                         push
                                                %edi
8048e94:
                56
                                         push
                                                %esi
8048e95:
                53
                                                %ehx
                                         push
8048e96:
                83 ec 0c
                                         sub
                                                 $0xc,%esp
8048e99:
                8b 1d cc a1 04 08
                                                0x804a1cc,%ebx
                                         mov
                c7 05 e4 a1 04 08 00
                                                $0x0,0x804a1e4
8048e9f:
                                         movl
                00 00 00
8048ea6:
                8b 75 08
8048ea9:
                                         mov
                                                0x8(%ebp),%esi
8048eac:
                85 db
                                         test
                                                %ebx,%ebx
                74 72
                                                 8048f22 <Gets+0x92>
8048ege:
                                         jе
8048eb0:
                bf 01 00 00 00
                                                 $0x1,%edi
                                         mov
                                                $0x0,0xfffffff0(%ebp)
8048eb5:
                c7 45 f0 00 00 00 00
                                         mov1
                8d 74 26 00
8048ebc:
                                         lea
                                                 0x0(%esi),%esi
8048ec0:
                a1 c0 a1 04 08
                                         mov
                                                0x804a1c0, %eax
                                                %eax,(%esp)
8048ec5:
                89 04 24
                                         mov
8048ec8:
                e8 a3 f8 ff ff
                                         call
                                                8048770 <_IO_getc@plt>
                                                $0xfffffffff,%eax
                83 f8 ff
8048ecd:
                                         CMD
8048ed0:
                89 c3
                                                %eax,%ebx
                                         mov
                74 60
                                                8048f34 <Gets+0xa4>
8048ed2:
                                         jе
8048ed4:
                83 f8 0a
                                                 $0xa,%eax
                                         cmp
8048ed7:
                74 5b
                                         jе
                                                8048f34 <Gets+0xa4>
8048ed9:
                e8 a2 f8 ff ff
                                         call
                                                8048780 <__ctype_b_loc@plt>
8048ede:
                8b 00
                                                 (%eax),%eax
                                         mov
 8048ee0:
                f6 44 58 01 10
                                         testb
                                               $0x10,0x1(%eax,%ebx,2)
```

```
8048ee5:
                74 d9
                                                 8048ec0 <Gets+0x30>
                                          jе
 8048ee7:
                8d 43 d0
                                                 0xffffffd0(%ebx),%eax
                                         lea
 8048eea:
                83 f8 09
                                                 $0x9,%eax
                                          cmp
 8048eed:
                89 c2
                                                 %eax,%edx
                                         mov
 8048eef:
                76 0f
                                          ibe
                                                 8048f00 <Gets+0x70>
                8d 43 bf
 8048ef1:
                                         lea
                                                 0xfffffffff(%ebx),%eax
 8048ef4:
                83 f8 05
                                                 $0x5,%eax
                                          cmp
 8048ef7:
                8d 53 c9
                                         lea
                                                 0xffffffc9(%ebx),%edx
                76 04
                                                 8048f00 <Gets+0x70>
 8048efa:
                                          ibe
 8048efc:
                8d 53 a9
                                                 0xffffffa9(%ebx),%edx
                                          lea
 8048eff:
                90
                                         nop
 8048f00:
                85 ff
                                         test
                                                 %edi,%edi
 8048f02:
                74 4c
                                          jе
                                                 8048f50 <Gets+0xc0>
 8048f04:
                31 ff
                                                 %edi,%edi
                                         xor
 8048f06:
                89 55 f0
                                                 %edx,0xfffffff0(%ebp)
                                         mov
                                                 8048ec0 <Gets+0x30>
 8048f09:
                eh h5
                                          jmp
 8048f0b:
                90
                                         nop
                8d 74 26 00
                                                 0x0(%esi),%esi
 8048f0c:
                                         lea
 8048f10:
                83 f8 0a
                                                 $0xa,%eax
                                         cmp
 8048f13:
                74 1f
                                         jе
                                                 8048f34 <Gets+0xa4>
 8048f15:
                88 06
                                                 %al,(%esi)
                                         mov
 8048f17:
                Of be c0
                                         movsbl %al, %eax
 8048f1a:
                83 c6 01
                                         add
                                                 $0x1,%esi
                e8 6e fa ff ff
                                                 8048990 <save_char>
 8048f1d:
                                         call
 8048f22:
                a1 c0 a1 04 08
                                         mov
                                                 0x804a1c0,%eax
                                                 %eax,(%esp)
 8048f27:
                89 04 24
                                         mov
                e8 41 f8 ff ff
 8048f2a:
                                         call
                                                 8048770 <_IO_getc@plt>
                83 f8 ff
                                                 $0xfffffffff,%eax
 8048f2f:
                                         CMD
 8048f32:
                75 dc
                                         jne
                                                 8048f10 <Gets+0x80>
                c6 06 00
 8048f34:
                                                 $0x0,(%esi)
                                         movb
 8048f37:
                a1 e4 a1 04 08
                                                 0x804a1e4,%eax
                                         mov
                c6 84 40 00 a2 04 08
                                                 $0x0,0x804a200(%eax,%eax,2)
 8048f3c:
                                         movb
 8048f43:
                00
 8048f44:
                8b 45 08
                                                 0x8(%ebp), %eax
                                         mov
 8048f47:
                83 c4 0c
                                         add
                                                 $0xc,%esp
 8048f4a:
                5b
                                                 %ebx
                                         рор
 8048f4h:
                5e
                                         pop
                                                 %esi
 8048f4c:
                5f
                                                 %edi
                                         pop
 8048f4d:
                5d
                                         pop
                                                 %ebp
 8048f4e:
                c3
                                         ret
 8048f4f:
                90
                                         nop
                                                 0xfffffff0(%ebp),%eax
 8048f50:
                8b 45 f0
                                         mov
 8048f53:
                bf 01 00 00 00
                                                 $0x1,%edi
                                         mov
                c1 e0 04
 8048f58:
                                         sh1
                                                 $0x4,%eax
                8d 04 02
 8048f5b:
                                         lea
                                                 (%edx,%eax,1),%eax
 8048f5e:
                88 06
                                         mov
                                                 %al,(%esi)
 8048f60:
                Of be cO
                                         movsbl %al,%eax
 8048f63:
                83 c6 01
                                         add
                                                 $0x1,%esi
                e8 25 fa ff ff
 8048f66:
                                         call
                                                 8048990 <save_char>
 8048f6b:
                e9 50 ff ff ff
                                                 8048ec0 <Gets+0x30>
                                         jmp
08048f70 <getbufn>:
 8048f70:
                                         push
                                                 %ebp
 8048f71:
                89 e5
                                         mov
                                                 %esp,%ebp
 8048f73:
                81 ec 08 02 00 00
                                          sub
                                                 $0x208,%esp
                8d 85 00 fe ff ff
 8048f79:
                                                 0xfffffe00(%ebp),%eax
                                         lea
 8048f7f:
                89 04 24
                                                 %eax,(%esp)
                                         mov
 8048f82:
                e8 09 ff ff ff
                                          call
                                                 8048e90 <Gets>
                b8 01 00 00 00
 8048f87:
                                                 $0x1,%eax
                                         mov
 8048f8c:
                c9
                                         leave
 8048f8d:
                c3
                                         ret
 8048f8e:
                66 90
                                         xchg
                                                 %ax,%ax
08048f90 <testn>:
 8048f90:
                55
                                         push
                                                 %ebp
 8048f91:
                89 e5
                                                 %esp,%ebp
                                         mov
 8048f93:
                83 ec 18
                                         sub
                                                 $0x18,%esp
 8048f96:
                c7 45 fc ef be ad de
                                         movl
                                                 $0xdeadbeef,0xfffffffc(%ebp)
```

```
8048f9d:
                c7 04 24 04 00 00 00
                                         movl
                                                 $0x4,(%esp)
 8048fa4:
                e8 37 fa ff ff
                                         call
                                                 80489e0 <entry_check>
 8048fa9:
                e8 c2 ff ff ff
                                         call
                                                 8048f70 <getbufn>
 8048fae:
                89 c2
                                                 %eax,%edx
                                         mov
                                                 0xfffffffc(%ebp),%eax
 8048fb0:
                8b 45 fc
                                         mov
 8048fb3:
                3d ef be ad de
                                          cmp
                                                 $0xdeadbeef,%eax
 8048fb8:
                74 0e
                                                 8048fc8 <testn+0x38>
                                          jе
 8048fba:
                c7 04 24 80 99 04 08
                                         movl
                                                 $0x8049980,(%esp)
                e8 8a f8 ff ff
 8048fc1:
                                         call
                                                 8048850 <puts@plt>
 8048fc6:
                                         leave
 8048fc7:
                c3
                                         ret
 8048fc8:
                3b 15 d0 a1 04 08
                                                 0x804a1d0,%edx
                                          cmp
 8048fce:
                74 12
                                          jе
                                                 8048fe2 <testn+0x52>
 8048fd0:
                89 54 24 04
                                                 %edx,0x4(%esp)
                                         mov
 8048fd4:
                c7 04 24 47 9b 04 08
                                         movl
                                                 $0x8049b47,(%esp)
 8048fdh:
                e8 00 f8 ff ff
                                         call
                                                 80487e0 <printf@plt>
 8048fe0:
                c9
                                         leave
 8048fe1:
                c3
                                         ret
 8048fe2:
                89 54 24 04
                                                 %edx,0x4(%esp)
                                         mov
 8048fe6:
                c7 04 24 ac 99 04 08
                                         movl
                                                 $0x80499ac,(%esp)
 8048fed:
                e8 ee f7 ff ff
                                                 80487e0 <printf@plt>
                                          call.
 8048ff2:
                c7 04 24 04 00 00 00
                                                 $0x4,(%esp)
                                         movl
                e8 22 fb ff ff
 8048ff9:
                                         call
                                                 8048b20 <validate>
 8048ffe:
                c9
                                         leave
 8048fff:
                c3
                                         ret
08049000 <getbuf>:
 8049000:
                                         push
                                                 %ebp
 8049001:
                89 e5
                                         mov
                                                 %esp,%ebp
                83 ec 18
 8049003:
                                          sub
                                                 $0x18,%esp
 8049006:
                8d 45 f4
                                         lea
                                                 0xffffffffff(%ebp),%eax
                89 04 24
 8049009:
                                         mov
                                                 %eax,(%esp)
 804900c:
                e8 7f fe ff ff
                                         call
                                                 8048e90 <Gets>
 8049011:
                b8 01 00 00 00
                                                 $0x1,%eax
                                         mov
 8049016:
                c9
                                         leave
 8049017:
                с3
                                         ret
 8049018:
                90
                                         nop
                8d b4 26 00 00 00 00
 8049019:
                                         lea
                                                 0x0(%esi),%esi
08049020 <test>:
 8049020:
                                         push
                                                 %ebp
                                                 %esp,%ebp
 8049021:
                89 e5
                                         mov
 8049023:
                83 ec 18
                                                 $0x18,%esp
                                         sub
                c7 45 fc ef be ad de
                                                 $0xdeadbeef,0xfffffffc(%ebp)
 8049026:
                                         movl
                c7 04 24 03 00 00 00
 804902d:
                                         movl
                                                 $0x3,(%esp)
 8049034:
                e8 a7 f9 ff ff
                                         call
                                                 80489e0 <entry_check>
                e8 c2 ff ff ff
                                                 8049000 <getbuf>
 8049039:
                                         call.
 804903e:
                89 c2
                                         mov
                                                 %eax,%edx
                                                 0xfffffffc(%ebp),%eax
 8049040:
                8b 45 fc
                                         mov
 8049043:
                3d ef be ad de
                                                 $0xdeadbeef,%eax
                                          cmp
 8049048:
                74 0e
                                          jе
                                                 8049058 <test+0x38>
                c7 04 24 80 99 04 08
 804904a:
                                         movl
                                                 $0x8049980,(%esp)
 8049051:
                e8 fa f7 ff ff
                                          call
                                                 8048850 <puts@plt>
                c9
 8049056:
                                         1 eave
 8049057:
                c3
                                         ret
 8049058:
                3b 15 d0 a1 04 08
                                                 0x804a1d0,%edx
                                          cmp
 804905e:
                 74 12
                                                 8049072 <test+0x52>
                                         jе
 8049060:
                89 54 24 04
                                         mov
                                                 %edx,0x4(%esp)
                c7 04 24 80 9b 04 08
 8049064:
                                         movl
                                                 $0x8049b80,(%esp)
 804906b:
                e8 70 f7 ff ff
                                          call
                                                 80487e0 <printf@plt>
 8049070:
                c9
                                         1 eave
 8049071:
                                         ret
                89 54 24 04
                                                 %edx,0x4(%esp)
 8049072:
                                         mov
 8049076:
                c7 04 24 63 9b 04 08
                                         movl
                                                 $0x8049b63,(%esp)
 804907d:
                e8 5e f7 ff ff
                                          call
                                                 80487e0 <printf@plt>
 8049082:
                c7 04 24 03 00 00 00
                                                 $0x3,(%esp)
                                         movl
 8049089:
                e8 92 fa ff ff
                                          call
                                                 8048b20 <validate>
 804908e:
                                         1 eave
                c9
```

08049090 <launch< th=""><th>۱&gt;٠</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></launch<>	۱>٠								
8049090:	55							push	%ebp
8049091:		e5						mov	%esp,%ebp
8049093:		ec	58					sub	\$0x58,%esp
8049096:		7d						mov	%edi,0xffffffffc(%ebp)
8049099:	89	<b>c</b> 7						mov	%eax,%edi
804909b:	a1	с8	a1	04	08			mov	0x804a1c8,%eax
80490a0:	89	5d	f4					mov	%ebx,0xffffffff4(%ebp)
80490a3:	8d	5d	b4					lea	0xffffffb4(%ebp),%ebx
80490a6:	89	75	f8					mov	%esi,0xfffffff8(%ebp)
80490a9:	89	d6						mov	%edx,%esi
80490ab:	85	с0						test	%eax,%eax
80490ad:	0f	85	9d	00	00	00		jne	8049150 <launch+0xc0></launch+0xc0>
80490b3:	81	e3	f8	3f	00	00		and	\$0x3ff8,%ebx
80490b9:	8d	04	1e					lea	(%esi,%ebx,1),%eax
80490bc:	8d	50	1e					lea	0x1e(%eax),%edx
80490bf:	83	e2	f0					and	<pre>\$0xffffffff0,%edx</pre>
80490c2:		d4						sub	%edx,%esp
80490c4:		54		1b				lea	0x1b(%esp),%edx
80490c8:		e2						and	\$0xfffffff0,%edx
80490cb:		44						mov	%eax,0x8(%esp)
80490cf:		44	24	04	f4	00	00	movl	\$0xf4,0x4(%esp)
80490d6:	00		٠.						
80490d7:		14						mov	%edx,(%esp)
80490da:		71						call	8048750 <memset@plt></memset@plt>
80490df:		c4	aı	04	80			mov	0x804a1c4,%eax
80490e4:		c0 18						test	%eax,%eax 8049100 <launch+0x70></launch+0x70>
80490e6:		CC TQ	-1	0.4	ΛO			jne	
80490e8: 80490ed:		c0	uт	04	00			mov test	0x804a1cc,%eax %eax,%eax
80490ef:		4f						jne	8049140 <launch+0xb0></launch+0xb0>
80490f1:		04	21	hc	ah	QΛ	ωs	movl	\$0x8049bbc,(%esp)
80490f8:		e3				V <del>-1</del>	00	call	80487e0 <printf@plt></printf@plt>
80490fd:		76						lea	0x0(%esi),%esi
8049100:		ff	00					test	%edi,%edi
8049102:		32						je	8049136 <launch+0xa6></launch+0xa6>
8049104:	e8	87	fe	ff	ff			call	8048f90 <testn></testn>
8049109:	8b	35	dc	a1	04	08		mov	0x804a1dc,%esi
804910f:	85	f6						test	%esi,%esi
8049111:	75	16						jne	8049129 <launch+0x99></launch+0x99>
8049113:	с7	04	24	18	9a	04	80	movl	\$0x8049a18,(%esp)
804911a:	e8	31	f7	ff	ff			call	8048850 <puts@plt></puts@plt>
804911f:	с7	05	dc	a1	04	80	00	movl	\$0x0,0x804a1dc
8049126:	00	00	00						
8049129:		5d						mov	0xffffffff4(%ebp),%ebx
804912c:		75						mov	0xfffffff8(%ebp),%esi
804912f:		7d	fc					mov	<pre>0xffffffffc(%ebp),%edi</pre>
8049132:		ec						mov	%ebp,%esp
8049134:	5d							pop	%ebp
8049135:	c3	_	_					ret	
8049136:		e5	fe	ff	ff			call	8049020 <test></test>
804913b:		cc						jmp	8049109 <launch+0x79></launch+0x79>
804913d:		76		-1-	OI.		00	lea	0x0(%esi),%esi
8049140:		04 94				04	08	movl	\$0x8049bab,(%esp)
8049147:			тю	тт	тт			call	80487e0 <printf@plt></printf@plt>
804914c:		b2 90						jmp	8049100 <launch+0x70> %ax,%ax</launch+0x70>
804914e: 8049150:		90 a8	<b>a</b> 1	ω,	nο			xchg	,
8049155:		5c			00			mov	0x804a1a8,%eax %ebx,0x8(%esp)
8049159:		44			9h	9h	04	movl	\$0x8049b9b,0x4(%esp)
8049160:	08			<b>U</b> 1	20	20	J.		τοου 13030 , ολ 1(/003β)
8049161:		04	24					mov	%eax,(%esp)
8049164:		a7		ff	ff			call	8048810 <fprintf@plt></fprintf@plt>
8049169:		45						jmp	80490b3 <launch+0x23></launch+0x23>
804916e:		90	•		•			xchg	%ax,%ax
								_	•

```
08049170 <launcher>:
 8049170:
                                                %ebp
                55
                                         push
 8049171:
                89 e5
                                                %esp,%ebp
                                         mov
 8049173:
                53
                                                %ebx
                                         push
 8049174:
                83 ec 24
                                                $0x24,%esp
                                         sub
 8049177:
                8b 45 08
                                         mov
                                                0x8(%ebp),%eax
                a3 e8 a1 04 08
                                                %eax,0x804a1e8
 804917a:
                                         mov
 804917f:
                8b 45 0c
                                                0xc(%ebp),%eax
                                         mov
 8049182:
                c7 44 24 14 00 00 00
                                         movl
                                                $0x0,0x14(%esp)
 8049189:
                00
 804918a:
                c7 44 24 10 00 00 00
                                         movl
                                                $0x0,0x10(%esp)
 8049191:
                00
 8049192:
                c7 44 24 0c 22 01 00
                                         movl
                                                $0x122,0xc(%esp)
 8049199:
                00
 804919a:
                a3 ec a1 04 08
                                                %eax,0x804a1ec
                                         mov
 804919f:
                c7 44 24 08 07 00 00
                                         movl
                                                $0x7,0x8(%esp)
 80491a6:
                00
                                                $0x4000,0x4(%esp)
 80491a7:
                c7 44 24 04 00 40 00
                                         movl
 80491ae:
 80491af:
                c7 04 24 00 60 58 55
                                         movl
                                                $0x55586000,(%esp)
                                                80486f0 <mmap@plt>
 80491b6:
                e8 35 f5 ff ff
                                         call
 80491bb:
                83 f8 ff
                                                 $0xffffffff,%eax
                                         cmp
 80491be:
                89 c3
                                         mov
                                                %eax,%ebx
                                                 8049207 <launcher+0x97>
 80491c0:
                                         iе
                8d 80 f8 3f 00 00
 80491c2:
                                         lea
                                                0x3ff8(%eax),%eax
 80491c8:
                a3 04 ae 04 08
                                                %eax,0x804ae04
                                         mov
 80491cd:
                89 e2
                                         mov
                                                %esp,%edx
 80491cf:
                89 c4
                                                %eax,%esp
                                         mov
 80491d1:
                a3 08 ae 04 08
                                         mov
                                                 %eax,0x804ae08
                a1 e8 a1 04 08
 80491d6:
                                         mov
                                                0x804a1e8,%eax
 80491db:
                89 15 f0 a1 04 08
                                         mov
                                                %edx,0x804a1f0
                8b 15 ec a1 04 08
 80491e1:
                                         mov
                                                0x804a1ec,%edx
 80491e7:
                e8 a4 fe ff ff
                                         call
                                                8049090 <launch>
 80491ec:
                a1 f0 a1 04 08
                                                0x804a1f0,%eax
                                         mov
 80491f1:
                89 c4
                                                %eax.%esp
                                         mov
                c7 45 0c 00 40 00 00
                                                 $0x4000,0xc(%ebp)
 80491f3:
                                         movl
 80491fa:
                89 5d 08
                                                %ebx,0x8(%ebp)
                                         mov
 80491fd:
                83 c4 24
                                         add
                                                 $0x24,%esp
 8049200:
                5h
                                         pop
                                                %ebx
 8049201:
                5d
                                                %ebp
                                         pop
 8049202:
                e9 69 f6 ff ff
                                                8048870 <munmap@plt>
                                          jmp
                a1 a0 a1 04 08
                                                0x804a1a0,%eax
 8049207:
                                         mov
                c7 44 24 08 23 00 00
                                                $0x23,0x8(%esp)
 804920c:
                                         movl
 8049213:
                99
                c7 44 24 04 01 00 00
 8049214:
                                         movl
                                                $0x1,0x4(%esp)
 804921b:
                00
                c7 04 24 cc 99 04 08
                                                $0x80499cc,(%esp)
 804921c:
                                         mov1
 8049223:
                89 44 24 0c
                                         mov
                                                %eax,0xc(%esp)
 8049227:
                e8 d4 f5 ff ff
                                         call
                                                8048800 <fwrite@plt>
 804922c:
                c7 04 24 01 00 00 00
                                         movl
                                                 $0x1,(%esp)
                e8 68 f6 ff ff
 8049233:
                                         call
                                                80488a0 <exit@plt>
 8049238:
                                         nop
                8d b4 26 00 00 00 00
 8049239:
                                         lea
                                                0x0(%esi),%esi
08049240 <main>:
                8d 4c 24 04
 8049240:
                                         lea
                                                0x4(%esp),%ecx
 8049244:
                83 e4 f0
                                                 $0xfffffff0,%esp
                                         and
 8049247:
                ff 71 fc
                                         pushl
                                                0xfffffffc(%ecx)
 804924a:
                55
                                         push
                                                %ebp
 804924b:
                89 e5
                                                %esp,%ebp
                                         mov
 804924d:
                57
                                         push
                                                %edi
 804924e:
                56
                                         push
                                                %esi
 804924f:
                53
                                         push
                                                %ebx
 8049250:
                51
                                         push
                                                %ecx
 8049251:
                83 ec 18
                                         sub
                                                $0x18,%esp
 8049254:
                8b 31
                                                 (%ecx),%esi
                                         mov
 8049256:
                8b 59 04
                                                 0x4(%ecx),%ebx
                                         mov
 8049259:
                c7 44 24 04 60 8a 04
                                         movl
                                                $0x8048a60,0x4(%esp)
```

```
8049260:
               c7 04 24 0b 00 00 00
                                               $0xb,(%esp)
8049261:
                                        movl
8049268:
               e8 a3 f4 ff ff
                                        call
                                                8048710 <signal@plt>
804926d:
               c7 44 24 04 90 8a 04
                                               $0x8048a90,0x4(%esp)
                                        movl
8049274:
               08
               c7 04 24 07 00 00 00
8049275:
                                        movl
                                               $0x7,(%esp)
               e8 8f f4 ff ff
                                                8048710 <signal@plt>
804927c:
                                        call
8049281:
               c7 44 24 04 20 8a 04
                                        movl
                                               $0x8048a20,0x4(%esp)
               08
8049288:
8049289:
               c7 04 24 0e 00 00 00
                                                $0xe,(%esp)
                                        movl
8049290:
               e8 7b f4 ff ff
                                               8048710 <signal@plt>
                                        call
8049295:
               c7 44 24 04 f0 89 04
                                        movl
                                                $0x80489f0,0x4(%esp)
804929c:
               08
               c7 04 24 04 00 00 00
                                               $0x4,(%esp)
804929d:
                                        movl
80492a4:
               e8 67 f4 ff ff
                                        call
                                               8048710 <signal@plt>
8049299:
               a1 a4 a1 04 08
                                        mov
                                               0x804a1a4, %eax
               c7 45 e8 00 00 00 00
                                                $0x0,0xffffffe8(%ebp)
80492ae:
                                        movl
               c7 45 ec 01 00 00 00
                                               $0x1,0xffffffec(%ebp)
80492b5:
                                        movl
80492bc:
               a3 c0 a1 04 08
                                               %eax,0x804a1c0
                                        mov
80492c1:
               c7 44 24 08 f8 9b 04
                                        movl
                                               $0x8049bf8,0x8(%esp)
80492c8:
               08
80492c9:
               89 5c 24 04
                                               %ebx,0x4(%esp)
                                        mov
               89 34 24
80492cd:
                                        mov
                                               %esi,(%esp)
                                                80487a0 <getopt@plt>
               e8 cb f4 ff ff
80492d0:
                                        call
80492d5:
               3c ff
                                        cmp
                                               $0xff,%al
80492d7:
               74 20
                                                80492f9 <main+0xb9>
                                        jе
80492d9:
               83 e8 66
                                        sub
                                               $0x66,%eax
               3c 12
                                               $0x12,%al
80492dc:
                                        cmp
80492de:
               77 10
                                        ja
                                                80492f0 <main+0xb0>
80492e0:
               0f b6 c0
                                        movzbl %al,%eax
80492e3:
               ff 24 85 00 9c 04 08
                                                *0x8049c00(,%eax,4)
                                        qmp
               8d b6 00 00 00 00
80492ea:
                                        lea
                                               0x0(%esi),%esi
80492f0:
               8b 03
                                                (%ebx),%eax
                                        mov
80492f2:
               e8 c9 f7 ff ff
                                        call
                                                8048ac0 <usage>
80492f7:
                                                80492c1 <main+0x81>
               eb c8
                                        jmp
               a1 d4 a1 04 08
                                               0x804a1d4,%eax
80492f9:
                                        mov
80492fe:
               85 c0
                                        test
                                               %eax,%eax
               0f 84 e5 01 00 00
8049300:
                                                80494eb <main+0x2ab>
                                        jе
               a1 d0 a1 04 08
                                               0x804a1d0,%eax
8049306:
                                        mov
               89 04 24
                                               %eax,(%esp)
804930h:
                                        mov
804930e:
               e8 dd f4 ff ff
                                        call
                                               80487f0 <srandom@plt>
               e8 e8 f3 ff ff
                                               8048700 <random@plt>
                                        call
8049313:
               25 f8 0f 00 00
                                                $0xff8,%eax
8049318:
                                        and
804931d:
               89 45 e4
                                        mov
                                               %eax,0xffffffe4(%ebp)
               c7 44 24 04 04 00 00
                                               $0x4,0x4(%esp)
8049320:
                                        movl
8049327:
               00
               8b 45 ec
                                               0xffffffec(%ebp),%eax
8049328:
                                        mov
804932b:
               89 04 24
                                        mov
                                               %eax,(%esp)
               e8 fd f3 ff ff
                                               8048730 <calloc@plt>
804932e:
                                        call
               89 c7
8049333:
                                        mov
                                               %eax,%edi
8049335:
               8b 45 ec
                                        mov
                                               0xffffffec(%ebp),%eax
8049338:
               83 e8 02
                                        sub
                                               $0x2,%eax
804933b:
               85 c0
                                        test
                                               %eax,%eax
                                                8049363 <main+0x123>
804933d:
               7e 24
                                        ile
804933f:
               8b 45 ec
                                               0xffffffec(%ebp),%eax
                                        mov
8049342:
               bb 01 00 00 00
                                               $0x1,%ebx
                                        mov
               8d 70 ff
                                                0xfffffffff(%eax),%esi
8049347:
                                        lea
804934a:
               8d b6 00 00 00 00
                                        lea
                                               0x0(%esi),%esi
8049350:
               e8 ab f3 ff ff
                                        call
                                               8048700 <random@plt>
8049355:
               83 e0 38
                                        and
                                               $0x38,%eax
               89 44 9f fc
                                               %eax,0xffffffffc(%edi,%ebx,4)
8049358:
                                        mov
804935c:
               83 c3 01
                                        add
                                                $0x1,%ebx
               39 f3
804935f:
                                               %esi,%ebx
                                        cmp
8049361:
               75 ed
                                        jne
                                                8049350 <main+0x110>
8049363:
               83 7d ec 01
                                        cmpl
                                               $0x1,0xffffffec(%ebp)
8049367:
               0f 8e 4e 01 00 00
                                                80494bb <main+0x27b>
                                        ile
804936d:
               8b 45 ec
                                               0xffffffec(%ebp),%eax
                                        mov
8049370:
               c1 e0 02
                                        sh1
                                               $0x2,%eax
```

```
8049373:
               c7 44 07 f8 38 00 00
                                        movl
                                               $0x38,0xfffffff8(%edi,%eax,1)
804937a:
               00
804937b:
               c7 44 07 fc 00 00 00
                                               $0x0,0xfffffffc(%edi,%eax,1)
                                        movl
8049382:
               00
8049383:
               a1 70 a1 04 08
                                               0x804a170,%eax
                                        mov
8049388:
               89 04 24
                                        mov
                                               %eax,(%esp)
804938b:
               e8 30 f4 ff ff
                                               80487c0 <alarm@plt>
                                        call
8049390:
               31 db
                                               %ebx,%ebx
                                        xor
               8b 45 e4
                                               0xffffffe4(%ebp),%eax
8049392:
                                        mov
8049395:
               03 04 9f
                                        add
                                               (%edi,%ebx,4),%eax
8049398:
               83 c3 01
                                               $0x1,%ebx
                                        add
804939b:
               89 44 24 04
                                        mov
                                               %eax,0x4(%esp)
               8b 45 e8
804939f:
                                        mov
                                               0xffffffe8(%ebp),%eax
               89 04 24
                                               %eax,(%esp)
80493a2:
                                        mov
80493a5:
               e8 c6 fd ff ff
                                        call
                                               8049170 <launcher>
               3b 5d ec
80493aa:
                                        cmp
                                               0xffffffec(%ebp),%ebx
                                               8049392 <main+0x152>
80493ad:
               7c e3
                                        jl
               83 c4 18
80493af:
                                        add
                                               $0x18,%esp
80493b2:
               31 c0
                                               %eax,%eax
                                        xor
80493b4:
               59
                                        рор
                                               %ecx
80493b5:
               5b
                                               %ebx
                                        pop
80493b6:
               5e
                                        рор
                                               %esi
80493h7:
               5f
                                        pop
                                               %edi
80493b8:
               5d
                                               %ebp
                                        pop
80493b9:
               8d 61 fc
                                        lea
                                               0xfffffffc(%ecx),%esp
80493bc:
               с3
                                        ret
80493bd:
               c7 05 d8 a1 04 08 01
                                        movl
                                               $0x1,0x804a1d8
               00 00 00
80493c4:
80493c7:
               c7 05 c4 a1 04 08 01
                                        movl
                                               $0x1,0x804a1c4
               00 00 00
80493ce:
80493d1:
               c7 05 70 a1 04 08 01
                                        movl
                                               $0x1,0x804a170
               00 00 00
80493d8:
80493db:
               e9 e1 fe ff ff
                                        dmi
                                               80492c1 <main+0x81>
80493e0:
               c7 44 24 04 e1 9b 04
                                               $0x8049be1,0x4(%esp)
                                        movl
80493e7:
               08
               a1 ac a1 04 08
                                               0x804a1ac,%eax
80493e8:
                                        mov
               89 04 24
80493ed:
                                        mov
                                               %eax.(%esp)
                                               80487b0 <fopen@plt>
80493f0:
               e8 bb f3 ff ff
                                        call
80493f5:
               85 c0
                                        test
                                               %eax,%eax
80493f7:
               a3 c0 a1 04 08
                                               %eax,0x804a1c0
                                        mov
80493fc:
               Of 85 bf fe ff ff
                                               80492c1 <main+0x81>
                                        jne
               a1 ac a1 04 08
8049402:
                                               0x804a1ac,%eax
                                        mov
8049407:
               c7 04 24 e3 9b 04 08
                                               $0x8049be3,(%esp)
                                        movl
               89 44 24 04
                                               %eax,0x4(%esp)
804940e:
                                        mov
               e8 c9 f3 ff ff
8049412:
                                        call
                                               80487e0 <printf@plt>
8049417:
               8b 03
                                        mov
                                               (%ebx),%eax
8049419:
               e8 a2 f6 ff ff
                                               8048ac0 <usage>
                                        call.
804941e:
               e9 9e fe ff ff
                                        jmp
                                               80492c1 <main+0x81>
                                        movl
                                               $0x1,0xffffffe8(%ebp)
8049423:
               c7 45 e8 01 00 00 00
804942a:
               c7 45 ec 05 00 00 00
                                               $0x5,0xffffffec(%ebp)
                                        movl
                                               80492c1 <main+0x81>
8049431:
               e9 8b fe ff ff
                                        jmp
8049436:
               c7 05 c4 a1 04 08 01
                                        movl
                                               $0x1,0x804a1c4
804943d:
               00 00 00
               e9 7c fe ff ff
                                               80492c1 <main+0x81>
8049440:
                                        dmi
8049445:
               c7 05 68 a1 04 08 01
                                               $0x1,0x804a168
                                        movl
               00 00 00
804944c:
804944f:
               e9 6d fe ff ff
                                               80492c1 <main+0x81>
                                        jmp
8049454:
               a1 ac a1 04 08
                                        mov
                                               0x804a1ac,%eax
8049459:
               89 04 24
                                               %eax,(%esp)
                                        mov
804945c:
               e8 2f f4 ff ff
                                        call
                                               8048890 <__strdup@plt>
               a3 d4 a1 04 08
                                               %eax,0x804a1d4
8049461:
                                        mov
8049466:
               89 44 24 04
                                               %eax, 0x4(%esp)
                                        mov
               c7 04 24 c9 9b 04 08
                                               $0x8049bc9,(%esp)
804946a:
                                        mov1
8049471:
               e8 6a f3 ff ff
                                        call
                                               80487e0 <printf@plt>
8049476:
               a1 d4 a1 04 08
                                        mov
                                               0x804a1d4, %eax
804947b:
               89 04 24
                                               %eax,(%esp)
                                        mov
804947e:
               e8 ed 00 00 00
                                        call
                                               8049570 <gencookie>
8049483:
               a3 d0 a1 04 08
                                               %eax,0x804a1d0
                                        mov
```

```
8049488:
                89 44 24 04
                                                 %eax,0x4(%esp)
                                         mov
804948c:
                c7 04 24 d3 9b 04 08
                                                 $0x8049bd3,(%esp)
                                         movl
8049493:
                e8 48 f3 ff ff
                                         call
                                                 80487e0 <printf@plt>
                e9 24 fe ff ff
                                                 80492c1 <main+0x81>
8049498:
                                          jmp
804949d:
                c7 05 c8 a1 04 08 01
                                         movl
                                                 $0x1,0x804a1c8
80494a4:
                00 00 00
80494a7:
                e9 15 fe ff ff
                                                 80492c1 <main+0x81>
                                          qmp
80494ac:
                c7 05 cc a1 04 08 01
                                         movl
                                                 $0x1,0x804a1cc
                00 00 00
80494b3:
80494b6:
                e9 06 fe ff ff
                                                 80492c1 <main+0x81>
                                         jmp
                8b 45 ec
                                                 0xffffffec(%ebp),%eax
80494bb:
                                         mov
80494be:
                c7 44 87 fc 00 00 00
                                         movl
                                                 $0x0,0xffffffffc(%edi,%eax,4)
80494c5:
                00
80494c6:
                a1 70 a1 04 08
                                                 0x804a170,%eax
                                         mov
80494cb:
                89 04 24
                                                 %eax,(%esp)
                                         mov
80494ce:
                e8 ed f2 ff ff
                                                 80487c0 <alarm@plt>
                                         call.
80494d3:
                83 7d ec 01
                                                 $0x1,0xffffffec(%ebp)
                                          cmpl
                                                 8049390 <main+0x150>
                Of 84 b3 fe ff ff
80494d7:
                                          jе
80494dd:
                83 c4 18
                                         add
                                                 $0x18,%esp
80494e0:
                31 c0
                                         xor
                                                 %eax,%eax
80494e2:
                59
                                         pop
                                                 %ecx
80494e3:
                5b
                                                 %ebx
                                         рор
80494e4:
                5e
                                         pop
                                                 %esi
80494e5:
                5f
                                                 %edi
                                         pop
80494e6:
                5d
                                         pop
                                                 %ebp
                                                 0xffffffffc(%ecx),%esp
80494e7:
                8d 61 fc
                                          lea
80494ea:
                c3
                                         ret
                c7 04 24 f0 99 04 08
80494eh:
                                         movl
                                                 $0x80499f0,(%esp)
80494f2:
                e8 59 f3 ff ff
                                          call
                                                 8048850 <puts@plt>
80494f7:
                8b 03
                                         mov
                                                 (%ebx),%eax
80494f9:
                e8 c2 f5 ff ff
                                         call
                                                 8048ac0 <usage>
80494fe:
                e9 03 fe ff ff
                                                 8049306 <main+0xc6>
                                          jmp
8049503:
                90
                                         nop
8049504:
                90
                                         nop
8049505:
                90
                                         nop
8049506:
                90
                                         nop
8049507:
                90
                                         nop
8049508:
                90
                                         nop
                90
8049509:
                                         nop
804950a:
                90
                                         nop
804950b:
                90
                                         nop
804950c:
                90
                                         nop
804950d:
                90
                                         nop
                90
804950e:
                                         nop
804950f:
                                         nop
08049510 <hash>:
8049510:
                                         push
                                                 %ebp
8049511:
                31 c0
                                                 %eax,%eax
                                         xor
8049513:
                89 e5
                                                 %esp,%ebp
                                         mov
                8b 4d 08
8049515:
                                         mov
                                                 0x8(%ebp),%ecx
8049518:
                0f b6 11
                                         movzbl (%ecx),%edx
804951b:
                84 d2
                                         test
                                                 %dl,%dl
804951d:
                74 15
                                                 8049534 <hash+0x24>
                                          jе
804951f:
                90
                                         nop
                6b c0 67
8049520:
                                         imul
                                                 $0x67,%eax,%eax
8049523:
                Of be d2
                                         movsbl %dl,%edx
                8d 04 02
8049526:
                                         lea
                                                 (%edx,%eax,1),%eax
                0f b6 51 01
8049529:
                                         movzbl 0x1(%ecx),%edx
804952d:
                83 c1 01
                                         add
                                                 $0x1,%ecx
8049530:
                84 d2
                                                 %dl.%dl
                                         test
8049532:
                75 ec
                                                 8049520 <hash+0x10>
                                         jne
8049534:
                5d
                                                 %ebp
                                         pop
8049535:
                c3
                                         ret
                8d 76 00
8049536:
                                         lea
                                                 0x0(%esi),%esi
8049539:
                8d bc 27 00 00 00 00
                                                 0x0(%edi),%edi
                                         lea
```

08049540 <check>:

```
8049540:
                55
                                         push
                                                 %ebp
 8049541:
                89 e5
                                                 %esp,%ebp
                                         mov
 8049543:
                8b 55 08
                                                 0x8(%ebp),%edx
                                         mov
 8049546:
                89 d0
                                                 %edx,%eax
                                         mov
 8049548:
                c1 e8 1c
                                          shr
                                                 $0x1c,%eax
 804954b:
                85 c0
                                          test
                                                 %eax,%eax
 804954d:
                74 19
                                                 8049568 <check+0x28>
                                          jе
 804954f:
                31 c9
                                          xor
                                                 %ecx,%ecx
                89 d0
 8049551:
                                                 %edx,%eax
                                         mov
 8049553:
                d3 e8
                                                 %cl,%eax
                                          shr
                                                 $0xa,%al
 8049555:
                3c 0a
                                          cmp
 8049557:
                74 0f
                                          jе
                                                 8049568 <check+0x28>
                83 c1 08
 8049559:
                                         add
                                                 $0x8,%ecx
 804955c:
                83 f9 20
                                                 $0x20,%ecx
                                          cmp
 804955f:
                75 f0
                                          jne
                                                 8049551 <check+0x11>
 8049561:
                5d
                                         pop
                                                 %ebp
 8049562:
                b8 01 00 00 00
                                                 $0x1,%eax
                                         mov
 8049567:
                c3
                                         ret
 8049568:
                5d
                                                 %ebp
                                         pop
 8049569:
                31 c0
                                          xor
                                                 %eax,%eax
 804956b:
                с3
                                          ret
                8d 74 26 00
 804956c:
                                                 0x0(%esi),%esi
                                          lea
08049570 <gencookie>:
 8049570:
                55
                                          push
                                                 %ebp
 8049571:
                89 e5
                                         mov
                                                 %esp,%ebp
 8049573:
                53
                                         push
                                                 %ebx
 8049574:
                83 ec 04
                                                 $0x4,%esp
                                         sub
 8049577:
                8b 45 08
                                         mov
                                                 0x8(%ebp),%eax
                89 04 24
 804957a:
                                         mov
                                                 %eax,(%esp)
 804957d:
                e8 8e ff ff ff
                                          call
                                                 8049510 <hash>
 8049582:
                89 04 24
                                                 %eax,(%esp)
                                         mov
 8049585:
                e8 56 f1 ff ff
                                         call
                                                 80486e0 <srand@plt>
 804958a:
                8d b6 00 00 00 00
                                         lea
                                                 0x0(%esi),%esi
 8049590:
                e8 cb f2 ff ff
                                          call
                                                 8048860 <rand@plt>
 8049595:
                89 c3
                                         mov
                                                 %eax,%ebx
                89 04 24
 8049597:
                                         mov
                                                 %eax,(%esp)
 804959a:
                e8 a1 ff ff ff
                                                 8049540 <check>
                                          call
 804959f:
                85 c0
                                                 %eax,%eax
                                          test
 80495a1:
                74 ed
                                                 8049590 <gencookie+0x20>
                                          jе
 80495a3:
                89 d8
                                         mov
                                                 %ebx,%eax
                83 c4 04
 80495a5:
                                                 $0x4,%esp
                                         add
 80495a8:
                                                 %ebx
                5b
                                         pop
 80495a9:
                5d
                                          pop
                                                 %ebp
 80495aa:
                c3
                                          ret
 80495ab:
                90
                                          nop
 80495ac:
                90
                                         nop
 80495ad:
                90
                                          nop
                90
 80495ae:
                                         nop
 80495af:
                90
                                         nop
080495b0 <__libc_csu_fini>:
 80495b0:
                55
                                         push
                                                 %ebp
 80495b1:
                89 e5
                                         mov
                                                 %esp,%ebp
 80495b3:
                5d
                                                 %ebp
                                         pop
 80495h4:
                c3
                                         ret
 80495b5:
                8d 74 26 00
                                                 0x0(%esi),%esi
                                          lea
 80495b9:
                8d bc 27 00 00 00 00
                                         lea
                                                 0x0(%edi),%edi
080495c0 <__libc_csu_init>:
 80495c0:
                55
                                         push
                                                 %ebp
 80495c1:
                89 e5
                                         mov
                                                 %esp,%ebp
 80495c3:
                57
                                         push
                                                 %edi
 80495c4:
                56
                                         push
                                                 %esi
 80495c5:
                53
                                         push
                                                 %ebx
 80495c6:
                e8 5e 00 00 00
                                         call
                                                 8049629 <__i686.get_pc_thunk.bx>
 80495cb:
                81 c3 15 0b 00 00
                                          add
                                                 $0xb15,%ebx
 80495d1:
                83 ec 1c
                                          sub
                                                 $0x1c,%esp
```

```
80495d4:
                e8 cf f0 ff ff
                                          call
                                                 80486a8 <_init>
                8d 83 20 ff ff ff
                                                 0xffffff20(%ebx),%eax
 80495d9:
                                          lea
 80495df:
                89 45 f0
                                         mov
                                                 %eax,0xfffffff0(%ebp)
 80495e2:
                8d 83 20 ff ff ff
                                                 0xffffff20(%ebx),%eax
                                         lea
 80495e8:
                29 45 f0
                                                 %eax,0xfffffff0(%ebp)
                                          sub
                                                 $0x2,0xfffffff0(%ebp)
 80495eb:
                c1 7d f0 02
                                          sarl
 80495ef:
                8b 55 f0
                                                 0xfffffff0(%ebp),%edx
                                         mov
 80495f2:
                85 d2
                                          test
                                                 %edx,%edx
                                                 8049621 <__libc_csu_init+0x61>
                74 2b
 80495f4:
                                          iе
 80495f6:
                31 ff
                                                 %edi,%edi
                                         xor
 80495f8:
                89 c6
                                                 %eax,%esi
                                         mov
 80495fa:
                8d b6 00 00 00 00
                                          lea
                                                 0x0(%esi),%esi
                8b 45 10
 8049600:
                                         mov
                                                 0x10(%ebp),%eax
 8049603:
                83 c7 01
                                                 $0x1,%edi
                                         add
 8049606:
                89 44 24 08
                                         mov
                                                 %eax,0x8(%esp)
                8b 45 0c
                                                 0xc(%ebp),%eax
 804960a:
                                         mov
                89 44 24 04
                                                 %eax,0x4(%esp)
 804960d:
                                         mov
                8b 45 08
 8049611:
                                         mov
                                                 0x8(%ebp),%eax
 8049614:
                89 04 24
                                                 %eax,(%esp)
                                         mov
                ff 16
 8049617:
                                          call
                                                 *(%esi)
 8049619:
                83 c6 04
                                         add
                                                 $0x4,%esi
 804961c:
                39 7d f0
                                                 %edi,0xfffffff0(%ebp)
                                          cmp
 804961f:
                75 df
                                          jne
                                                 8049600 <__libc_csu_init+0x40>
                83 c4 1c
 8049621:
                                         add
                                                 $0x1c,%esp
 8049624:
                5b
                                          pop
                                                 %ebx
 8049625:
                5e
                                                 %esi
                                         pop
 8049626:
                5f
                                          pop
                                                 %edi
 8049627:
                                                 %ebp
                5d
                                         pop
 8049628:
                с3
                                          ret
08049629 <__i686.get_pc_thunk.bx>:
 8049629:
                8b 1c 24
                                          mov
                                                 (%esp),%ebx
 804962c:
                c3
                                         ret
 804962d:
                90
                                          nop
 804962e:
                90
                                         nop
 804962f:
                90
                                          nop
08049630 <__do_global_ctors_aux>:
 8049630:
                55
                                          push
                                                 %ebp
 8049631:
                89 e5
                                                 %esp,%ebp
                                         mov
 8049633:
                53
                                                 %ebx
                                         push
                                                 $0x804a000,%ebx
                bb 00 a0 04 08
 8049634:
                                         mov
 8049639:
                83 ec 04
                                                 $0x4,%esp
                                          sub
                a1 00 a0 04 08
                                                 0x804a000,%eax
 804963c:
                                         mov
                83 f8 ff
                                                 $0xffffffff,%eax
 8049641:
                                          cmp
 8049644:
                74 0c
                                          jе
                                                 8049652 <__do_global_ctors_aux+0x22>
 8049646:
                83 eb 04
                                                 $0x4,%ebx
                                          sub
 8049649:
                ff d0
                                          call
                                                 *%eax
 804964b:
                8h 03
                                                 (%ebx),%eax
                                         mov
 804964d:
                83 f8 ff
                                                 $0xfffffffff,%eax
                                          cmp
                75 f4
 8049650:
                                          jne
                                                 8049646 <__do_global_ctors_aux+0x16>
 8049652:
                83 c4 04
                                         add
                                                 $0x4,%esp
 8049655:
                5b
                                         pop
                                                 %ebx
 8049656:
                5d
                                                 %ebp
                                         pop
 8049657:
                c3
                                          ret
Disassembly of section .fini:
08049658 <_fini>:
                                                 %ebp
 8049658:
                55
                                         push
 8049659:
                89 e5
                                          mov
                                                 %esp,%ebp
 804965b:
                53
                                         push
                                                 %ebx
 804965c:
                83 ec 04
                                          sub
                                                 $0x4,%esp
                e8 00 00 00 00
                                                 8049664 <_fini+0xc>
 804965f:
                                          call
 8049664:
                5b
                                                 %ebx
                                         מסמ
 8049665:
                81 c3 7c 0a 00 00
                                         add
                                                 $0xa7c,%ebx
 804966b:
                e8 90 f2 ff ff
                                         call
                                                 8048900 <__do_global_dtors_aux>
 8049670:
                59
                                          pop
                                                 %ecx
 8049671:
                5b
                                                 %ebx
                                          pop
```

8049672: c9 leave 8049673: c3 ret