

bufbomb: file format elf32-i386

Disassembly of section .init:

```
080486a8 <_init>:
80486a8: 55          push  %ebp
80486a9: 89 e5      mov  %esp,%ebp
80486ab: 83 ec 08   sub  $0x8,%esp
80486ae: e8 21 02 00 00 call 80488d4 <call_gmon_start>
80486b3: e8 a8 02 00 00 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>:
80486c0: ff 35 e4 a0 04 08 pushl 0x804a0e4
80486c6: ff 25 e8 a0 04 08 jmp  *0x804a0e8
80486cc: 00 00      add  %al,(%eax)
...
```

```
080486d0 <sprintf@plt>:
80486d0: ff 25 ec a0 04 08 jmp  *0x804a0ec
80486d6: 68 00 00 00 00 push  $0x0
80486db: e9 e0 ff ff ff jmp  80486c0 <_init+0x18>
```

```
080486e0 <srand@plt>:
80486e0: ff 25 f0 a0 04 08 jmp  *0x804a0f0
80486e6: 68 08 00 00 00 push  $0x8
80486eb: e9 d0 ff ff ff jmp  80486c0 <_init+0x18>
```

```
080486f0 <mmap@plt>:
80486f0: ff 25 f4 a0 04 08 jmp  *0x804a0f4
80486f6: 68 10 00 00 00 push  $0x10
80486fb: e9 c0 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048700 <random@plt>:
8048700: ff 25 f8 a0 04 08 jmp  *0x804a0f8
8048706: 68 18 00 00 00 push  $0x18
804870b: e9 b0 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048710 <signal@plt>:
8048710: ff 25 fc a0 04 08 jmp  *0x804a0fc
8048716: 68 20 00 00 00 push  $0x20
804871b: e9 a0 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048720 <__gmon_start__@plt>:
8048720: ff 25 00 a1 04 08 jmp  *0x804a100
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 jmp  *0x804a104
8048736: 68 30 00 00 00 push  $0x30
804873b: e9 80 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048740 <system@plt>:
8048740: ff 25 08 a1 04 08 jmp  *0x804a108
8048746: 68 38 00 00 00 push  $0x38
804874b: e9 70 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048750 <memset@plt>:
8048750: ff 25 0c a1 04 08 jmp  *0x804a10c
8048756: 68 40 00 00 00 push  $0x40
804875b: e9 60 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048760 <__libc_start_main@plt>:
8048760: ff 25 10 a1 04 08 jmp  *0x804a110
8048766: 68 48 00 00 00 push  $0x48
804876b: e9 50 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048770 <_IO_getc@plt>:
8048770: ff 25 14 a1 04 08 jmp  *0x804a114
8048776: 68 50 00 00 00 push  $0x50
804877b: e9 40 ff ff ff jmp  80486c0 <_init+0x18>
```

```
08048780 <__ctype_b_loc@plt>:
8048780: ff 25 18 a1 04 08 jmp  *0x804a118
8048786: 68 58 00 00 00 push  $0x58
```

```

804878b:  e9 30 ff ff      jmp  80486c0 <_init+0x18>

08048790 <fclose@plt>:
8048790:  ff 25 1c a1 04 08  jmp  *0x804a11c
8048796:  68 60 00 00 00    push $0x60
804879b:  e9 20 ff ff      jmp  80486c0 <_init+0x18>

080487a0 <getopt@plt>:
80487a0:  ff 25 20 a1 04 08  jmp  *0x804a120
80487a6:  68 68 00 00 00    push $0x68
80487ab:  e9 10 ff ff      jmp  80486c0 <_init+0x18>

080487b0 <fopen@plt>:
80487b0:  ff 25 24 a1 04 08  jmp  *0x804a124
80487b6:  68 70 00 00 00    push $0x70
80487bb:  e9 00 ff ff      jmp  80486c0 <_init+0x18>

080487c0 <alarm@plt>:
80487c0:  ff 25 28 a1 04 08  jmp  *0x804a128
80487c6:  68 78 00 00 00    push $0x78
80487cb:  e9 f0 fe ff      jmp  80486c0 <_init+0x18>

080487d0 <strcpy@plt>:
80487d0:  ff 25 2c a1 04 08  jmp  *0x804a12c
80487d6:  68 80 00 00 00    push $0x80
80487db:  e9 e0 fe ff      jmp  80486c0 <_init+0x18>

080487e0 <printf@plt>:
80487e0:  ff 25 30 a1 04 08  jmp  *0x804a130
80487e6:  68 88 00 00 00    push $0x88
80487eb:  e9 d0 fe ff      jmp  80486c0 <_init+0x18>

080487f0 <srandom@plt>:
80487f0:  ff 25 34 a1 04 08  jmp  *0x804a134
80487f6:  68 90 00 00 00    push $0x90
80487fb:  e9 c0 fe ff      jmp  80486c0 <_init+0x18>

08048800 <fwrite@plt>:
8048800:  ff 25 38 a1 04 08  jmp  *0x804a138
8048806:  68 98 00 00 00    push $0x98
804880b:  e9 b0 fe ff      jmp  80486c0 <_init+0x18>

08048810 <fprintf@plt>:
8048810:  ff 25 3c a1 04 08  jmp  *0x804a13c
8048816:  68 a0 00 00 00    push $0xa0
804881b:  e9 a0 fe ff      jmp  80486c0 <_init+0x18>

08048820 <remove@plt>:
8048820:  ff 25 40 a1 04 08  jmp  *0x804a140
8048826:  68 a8 00 00 00    push $0xa8
804882b:  e9 90 fe ff      jmp  80486c0 <_init+0x18>

08048830 <cuserid@plt>:
8048830:  ff 25 44 a1 04 08  jmp  *0x804a144
8048836:  68 b0 00 00 00    push $0xb0
804883b:  e9 80 fe ff      jmp  80486c0 <_init+0x18>

08048840 <putc@plt>:
8048840:  ff 25 48 a1 04 08  jmp  *0x804a148
8048846:  68 b8 00 00 00    push $0xb8
804884b:  e9 70 fe ff      jmp  80486c0 <_init+0x18>

08048850 <puts@plt>:
8048850:  ff 25 4c a1 04 08  jmp  *0x804a14c
8048856:  68 c0 00 00 00    push $0xc0
804885b:  e9 60 fe ff      jmp  80486c0 <_init+0x18>

08048860 <rand@plt>:
8048860:  ff 25 50 a1 04 08  jmp  *0x804a150
8048866:  68 c8 00 00 00    push $0xc8
804886b:  e9 50 fe ff      jmp  80486c0 <_init+0x18>

08048870 <munmap@plt>:
8048870:  ff 25 54 a1 04 08  jmp  *0x804a154
8048876:  68 d0 00 00 00    push $0xd0
804887b:  e9 40 fe ff      jmp  80486c0 <_init+0x18>

08048880 <tempnam@plt>:
8048880:  ff 25 58 a1 04 08  jmp  *0x804a158

```

```
8048886: 68 d8 00 00 00    push $0xd8
804888b: e9 30 fe ff ff    jmp 80486c0 <_init+0x18>
```

08048890 <__strdup@plt>:

```
8048890: ff 25 5c a1 04 08    jmp *0x804a15c
8048896: 68 e0 00 00 00    push $0xe0
804889b: e9 20 fe ff ff    jmp 80486c0 <_init+0x18>
```

080488a0 <exit@plt>:

```
80488a0: ff 25 60 a1 04 08    jmp *0x804a160
80488a6: 68 e8 00 00 00    push $0xe8
80488ab: e9 10 fe ff ff    jmp 80486c0 <_init+0x18>
```

Disassembly of section .text:

080488b0 <_start>:

```
80488b0: 31 ed            xor %ebp,%ebp
80488b2: 5e              pop %esi
80488b3: 89 e1          mov %esp,%ecx
80488b5: 83 e4 f0      and $0xfffff0,%esp
80488b8: 50            push %eax
80488b9: 54            push %esp
80488ba: 52            push %edx
80488bb: 68 b0 95 04 08    push $0x80495b0
80488c0: 68 c0 95 04 08    push $0x80495c0
80488c5: 51            push %ecx
80488c6: 56            push %esi
80488c7: 68 40 92 04 08    push $0x8049240
80488cc: e8 8f fe ff ff    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    call 80488e0 <call_gmon_start+0xc>
80488e0: 5b            pop %ebx
80488e1: 81 c3 00 18 00 00    add $0x1800,%ebx
80488e7: 8b 93 fc ff ff    mov 0xfffffc(%ebx),%edx
80488ed: 85 d2          test %edx,%edx
80488ef: 74 05          je 80488f6 <call_gmon_start+0x22>
80488f1: e8 2a fe ff ff    call 8048720 <__gmon_start__@plt>
80488f6: 58            pop %eax
80488f7: 5b            pop %ebx
80488f8: c9            leave
80488f9: c3            ret
80488fa: 90            nop
80488fb: 90            nop
80488fc: 90            nop
80488fd: 90            nop
80488fe: 90            nop
80488ff: 90            nop
```

08048900 <__do_global_dtors_aux>:

```
8048900: 55            push %ebp
8048901: 89 e5          mov %esp,%ebp
8048903: 53            push %ebx
8048904: 83 ec 04      sub $0x4,%esp
8048907: 80 3d b4 a1 04 08 00    cmpb $0x0,0x804a1b4
804890e: 75 3f          jne 804894f <__do_global_dtors_aux+0x4f>
8048910: b8 0c a0 04 08    mov $0x804a00c,%eax
8048915: 2d 08 a0 04 08    sub $0x804a008,%eax
804891a: c1 f8 02      sar $0x2,%eax
804891d: 8d 58 ff      lea 0xfffff8(%eax),%ebx
8048920: a1 b0 a1 04 08    mov 0x804a1b0,%eax
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
8048938: ff 14 85 08 a0 04 08    call *0x804a008(,%eax,4)
804893f: a1 b0 a1 04 08    mov 0x804a1b0,%eax
8048944: 39 c3          cmp %eax,%ebx
8048946: 77 e8          ja 8048930 <__do_global_dtors_aux+0x30>
8048948: c6 05 b4 a1 04 08 01    movb $0x1,0x804a1b4
804894f: 83 c4 04      add $0x4,%esp
8048952: 5b            pop %ebx
```

```

8048953: 5d          pop  %ebp
8048954: c3          ret
8048955: 8d 74 26 00 lea  0x0(%esi),%esi
8048959: 8d bc 27 00 00 00 lea  0x0(%edi),%edi

```

08048960 <frame_dummy>:

```

8048960: 55          push %ebp
8048961: 89 e5       mov  %esp,%ebp
8048963: 83 ec 08    sub  $0x8,%esp
8048966: a1 10 a0 04 08 mov  0x804a010,%eax
804896b: 85 c0       test %eax,%eax
804896d: 74 12       je   8048981 <frame_dummy+0x21>
804896f: b8 00 00 00 00 mov  $0x0,%eax
8048974: 85 c0       test %eax,%eax
8048976: 74 09       je   8048981 <frame_dummy+0x21>
8048978: c7 04 24 10 a0 04 08 movl $0x804a010,(%esp)
804897f: ff d0       call *%eax
8048981: c9          leave
8048982: c3          ret
8048983: 90          nop
8048984: 90          nop
8048985: 90          nop
8048986: 90          nop
8048987: 90          nop
8048988: 90          nop
8048989: 90          nop
804898a: 90          nop
804898b: 90          nop
804898c: 90          nop
804898d: 90          nop
804898e: 90          nop
804898f: 90          nop

```

08048990 <save_char>:

```

8048990: 8b 0d e4 a1 04 08 mov  0x804a1e4,%ecx
8048996: 55          push %ebp
8048997: 89 e5       mov  %esp,%ebp
8048999: 53          push %ebx
804899a: 89 c3       mov  %eax,%ebx
804899c: 81 f9 ff 03 00 00 cmp  $0x3ff,%ecx
80489a2: 7f 37       jg   80489db <save_char+0x4b>
80489a4: c0 f8 04    sar  $0x4,%al
80489a7: 83 e0 0f    and  $0xf,%eax
80489aa: 0f b6 80 4c 9c 04 08 movzbl 0x8049c4c(%eax),%eax
80489b1: 8d 14 49    lea  (%ecx,%ecx,2),%edx
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       mov  %ebx,%eax
80489c3: 83 e0 0f    and  $0xf,%eax
80489c6: 0f b6 80 4c 9c 04 08 movzbl 0x8049c4c(%eax),%eax
80489cd: 88 82 01 a2 04 08 mov  %al,0x804a201(%edx)
80489d3: 8d 41 01    lea  0x1(%ecx),%eax
80489d6: a3 e4 a1 04 08 mov  %eax,0x804a1e4
80489db: 5b          pop  %ebx
80489dc: 5d          pop  %ebp
80489dd: c3          ret
80489de: 66 90       xchg %ax,%ax

```

080489e0 <entry_check>:

```

80489e0: 55          push %ebp
80489e1: 89 e5       mov  %esp,%ebp
80489e3: 8b 45 08    mov  0x8(%ebp),%eax
80489e6: 5d          pop  %ebp
80489e7: a3 6c a1 04 08 mov  %eax,0x804a16c
80489ec: c3          ret
80489ed: 8d 76 00    lea  0x0(%esi),%esi

```

080489f0 <illegalhandler>:

```

80489f0: 55          push %ebp
80489f1: 89 e5       mov  %esp,%ebp
80489f3: 83 ec 08    sub  $0x8,%esp
80489f6: c7 04 24 80 96 04 08 movl $0x8049680,(%esp)
80489fd: e8 4e fe ff ff call 8048850 <puts@plt>
8048a02: c7 04 24 18 9a 04 08 movl $0x8049a18,(%esp)
8048a09: e8 42 fe ff ff call 8048850 <puts@plt>
8048a0e: c7 04 24 00 00 00 00 movl $0x0,(%esp)
8048a15: e8 86 fe ff ff call 80488a0 <exit@plt>
8048a1a: 8d b6 00 00 00 00 lea  0x0(%esi),%esi

```

08048a20 <alarmhandler>:

```

8048a20: 55          push %ebp
8048a21: 89 e5      mov  %esp,%ebp
8048a23: 83 ec 08   sub  $0x8,%esp
8048a26: a1 70 a1 04 08 mov  0x804a170,%eax
8048a2b: c7 04 24 ac 96 04 08 movl $0x80496ac,(%esp)
8048a32: 89 44 24 04 mov  %eax,0x4(%esp)
8048a36: e8 a5 fd ff call 80487e0 <printf@plt>
8048a3b: c7 04 24 18 9a 04 08 movl $0x8049a18,(%esp)
8048a42: e8 09 fe ff call 8048850 <puts@plt>
8048a47: c7 04 24 00 00 00 00 movl $0x0,(%esp)
8048a4e: e8 4d fe ff call 80488a0 <exit@plt>
8048a53: 8d b6 00 00 00 00 lea  0x0(%esi),%esi
8048a59: 8d bc 27 00 00 00 00 lea  0x0(%edi),%edi

```

08048a60 <seghandler>:

```

8048a60: 55          push %ebp
8048a61: 89 e5      mov  %esp,%ebp
8048a63: 83 ec 08   sub  $0x8,%esp
8048a66: c7 04 24 e0 96 04 08 movl $0x80496e0,(%esp)
8048a6d: e8 de fd ff call 8048850 <puts@plt>
8048a72: c7 04 24 18 9a 04 08 movl $0x8049a18,(%esp)
8048a79: e8 d2 fd ff call 8048850 <puts@plt>
8048a7e: c7 04 24 00 00 00 00 movl $0x0,(%esp)
8048a85: e8 16 fe ff call 80488a0 <exit@plt>
8048a8a: 8d b6 00 00 00 00 lea  0x0(%esi),%esi

```

08048a90 <bushandler>:

```

8048a90: 55          push %ebp
8048a91: 89 e5      mov  %esp,%ebp
8048a93: 83 ec 08   sub  $0x8,%esp
8048a96: c7 04 24 08 97 04 08 movl $0x8049708,(%esp)
8048a9d: e8 ae fd ff call 8048850 <puts@plt>
8048aa2: c7 04 24 18 9a 04 08 movl $0x8049a18,(%esp)
8048aa9: e8 a2 fd ff call 8048850 <puts@plt>
8048aae: c7 04 24 00 00 00 00 movl $0x0,(%esp)
8048ab5: e8 e6 fd ff call 80488a0 <exit@plt>
8048aba: 8d b6 00 00 00 00 lea  0x0(%esi),%esi

```

08048ac0 <usage>:

```

8048ac0: 55          push %ebp
8048ac1: 89 e5      mov  %esp,%ebp
8048ac3: 83 ec 08   sub  $0x8,%esp
8048ac6: 89 44 24 04 mov  %eax,0x4(%esp)
8048aca: c7 04 24 28 97 04 08 movl $0x8049728,(%esp)
8048ad1: e8 0a fd ff call 80487e0 <printf@plt>
8048ad6: c7 04 24 2e 9a 04 08 movl $0x8049a2e,(%esp)
8048add: e8 6e fd ff call 8048850 <puts@plt>
8048ae2: c7 04 24 4c 9a 04 08 movl $0x8049a4c,(%esp)
8048ae9: e8 62 fd ff call 8048850 <puts@plt>
8048aee: c7 04 24 4c 97 04 08 movl $0x804974c,(%esp)
8048af5: e8 56 fd ff call 8048850 <puts@plt>
8048afa: c7 04 24 74 97 04 08 movl $0x8049774,(%esp)
8048b01: e8 4a fd ff call 8048850 <puts@plt>
8048b06: c7 04 24 00 00 00 00 movl $0x0,(%esp)
8048b0d: e8 8e fd ff call 80488a0 <exit@plt>
8048b12: 8d b4 26 00 00 00 00 lea  0x0(%esi),%esi
8048b19: 8d bc 27 00 00 00 00 lea  0x0(%edi),%edi

```

08048b20 <validate>:

```

8048b20: 55          push %ebp
8048b21: 89 e5      mov  %esp,%ebp
8048b23: 81 ec 48 01 00 00 sub  $0x148,%esp
8048b29: 8b 0d d4 a1 04 08 mov  0x804a1d4,%ecx
8048b2f: 89 5d f4   mov  %ebx,0xffffffff(%ebp)
8048b32: 8b 5d 08   mov  0x8(%ebp),%ebx
8048b35: 89 75 f8   mov  %esi,0xffffffff8(%ebp)
8048b38: 89 7d fc   mov  %edi,0xffffffffc(%ebp)
8048b3b: 85 c9      test %ecx,%ecx
8048b3d: 0f 84 d8 01 00 00 je   8048d1b <validate+0x1fb>
8048b43: 83 fb 04   cmp  $0x4,%ebx
8048b46: 77 58      ja   8048ba0 <validate+0x80>
8048b48: 3b 1d 6c a1 04 08 cmp  0x804a16c,%ebx
8048b4e: 74 20      je   8048b70 <validate+0x50>
8048b50: c7 04 24 ec 97 04 08 movl $0x80497ec,(%esp)
8048b57: e8 f4 fc ff call 8048850 <puts@plt>
8048b5c: 8d 74 26 00 lea  0x0(%esi),%esi
8048b60: 8b 5d f4   mov  0xffffffff4(%ebp),%ebx
8048b63: 8b 75 f8   mov  0xffffffff8(%ebp),%esi

```

```

8048b66: 8b 7d fc      mov  0xffffffff(%ebp),%edi
8048b69: 89 ec        mov  %ebp,%esp
8048b6b: 5d           pop  %ebp
8048b6c: c3          ret
8048b6d: 8d 76 00     lea  0x0(%esi),%esi
8048b70: 8b 04 9d 74 a1 04 08 mov  0x804a174(,%ebx,4),%eax
8048b77: c7 05 dc a1 04 08 01 movl  $0x1,0x804a1dc
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        jmp  8048b60 <validate+0x40>
8048b9d: 8d 76 00     lea  0x0(%esi),%esi
8048ba0: c7 04 24 c4 97 04 08 movl  $0x80497c4,(%esp)
8048ba7: e8 a4 fc ff ff call 8048850 <puts@plt>
8048bac: eb b2        jmp  8048b60 <validate+0x40>
8048bae: 66 90        xchg %ax,%ax
8048bb0: 8b 15 d8 a1 04 08 mov  0x804a1d8,%edx
8048bb6: 85 d2        test %edx,%edx
8048bb8: 0f 85 7f 01 00 00 jne  8048d3d <validate+0x21d>
8048bbe: a1 68 a1 04 08 mov  0x804a168,%eax
8048bc3: 85 c0        test %eax,%eax
8048bc5: 0f 84 61 01 00 00 je   8048d2c <validate+0x20c>
8048bcb: c7 44 24 04 74 9a 04 movl  $0x8049a74,0x4(%esp)
8048bd2: 08
8048bd3: c7 04 24 00 00 00 00 movl  $0x0,(%esp)
8048bda: e8 a1 fc ff ff call 8048880 <tempnam@plt>
8048bdf: c7 44 24 04 7b 9a 04 movl  $0x8049a7b,0x4(%esp)
8048be6: 08
8048be7: 89 85 e0 fe ff ff mov  %eax,0xffffffff(%ebp)
8048bed: 89 04 24     mov  %eax,(%esp)
8048bf0: e8 bb fb ff ff call 80487b0 <fopen@plt>
8048bf5: 85 c0        test %eax,%eax
8048bf7: 89 c6        mov  %eax,%esi
8048bf9: 0f 84 76 01 00 00 je   8048d75 <validate+0x255>
8048bff: 89 44 24 0c     mov  %eax,0xc(%esp)
8048c03: c7 44 24 08 1b 00 00 movl  $0x1b,0x8(%esp)
8048c0a: 00
8048c0b: c7 44 24 04 01 00 00 movl  $0x1,0x4(%esp)
8048c12: 00
8048c13: c7 04 24 7d 9a 04 08 movl  $0x8049a7d,(%esp)
8048c1a: e8 e1 fb ff ff call 8048800 <fwrite@plt>
8048c1f: 89 74 24 04     mov  %esi,0x4(%esp)
8048c23: c7 04 24 0a 00 00 00 movl  $0xa,(%esp)
8048c2a: e8 11 fc ff ff call 8048840 <putc@plt>
8048c2f: c7 04 24 00 00 00 00 movl  $0x0,(%esp)
8048c36: e8 f5 fb ff ff call 8048830 <cuserid@plt>
8048c3b: 85 c0        test %eax,%eax
8048c3d: 0f 84 19 01 00 00 je   8048d5c <validate+0x23c>
8048c43: 8d 7d eb      lea  0xffffffff(%ebp),%edi
8048c46: 89 44 24 04     mov  %eax,0x4(%esp)
8048c4a: 89 3c 24      mov  %edi,(%esp)
8048c4d: e8 7e fb ff ff 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)
8048c61: e8 aa fb ff ff call 8048810 <printf@plt>
8048c66: a1 d0 a1 04 08 mov  0x804a1d0,%eax
8048c6b: 89 5c 24 10     mov  %ebx,0x10(%esp)
8048c6f: 8d 9d eb fe ff ff lea  0xffffffff(%ebp),%ebx
8048c75: c7 44 24 1c 00 00 00 movl  $0x0,0x1c(%esp)
8048c7c: 00
8048c7d: c7 44 24 18 00 a2 04 movl  $0x804a200,0x18(%esp)
8048c84: 08
8048c85: 89 44 24 14     mov  %eax,0x14(%esp)
8048c89: a1 d4 a1 04 08 mov  0x804a1d4,%eax
8048c8e: c7 44 24 08 0a 7d 00 movl  $0x7d0a,0x8(%esp)
8048c95: 00
8048c96: c7 44 24 04 5c 98 04 movl  $0x804985c,0x4(%esp)
8048c9d: 08
8048c9e: 89 34 24      mov  %esi,(%esp)
8048ca1: 89 44 24 0c     mov  %eax,0xc(%esp)
8048ca5: e8 66 fb ff ff call 8048810 <printf@plt>
8048caa: 89 34 24      mov  %esi,(%esp)
8048cad: e8 de fa ff ff call 8048790 <fclose@plt>

```

```

8048cb2: 8b 85 e0 fe ff ff  mov  0xffffffff(%ebp),%eax
8048cb8: c7 44 24 14 a7 9a 04  movl  $0x8049aa7,0x14(%esp)
8048cbf: 08
8048cc0: c7 44 24 10 b5 9a 04  movl  $0x8049ab5,0x10(%esp)
8048cc7: 08
8048cc8: c7 44 24 0c bc 9a 04  movl  $0x8049abc,0xc(%esp)
8048ccf: 08
8048cd0: 89 44 24 08          mov  %eax,0x8(%esp)
8048cd4: c7 44 24 04 d3 9a 04  movl  $0x8049ad3,0x4(%esp)
8048cdb: 08
8048cdc: 89 1c 24            mov  %ebx,(%esp)
8048cdf: e8 ec f9 ff ff      call 80486d0 <sprintf@plt>
8048ce4: 89 1c 24            mov  %ebx,(%esp)
8048ce7: e8 54 fa ff ff      call 8048740 <system@plt>
8048cec: 85 c0              test  %eax,%eax
8048cee: 75 5e              jne  8048d4e <validate+0x22e>
8048cf0: c7 04 24 e6 9a 04 08  movl  $0x8049ae6,(%esp)
8048cf7: e8 54 fb ff ff      call 8048850 <puts@plt>
8048cfc: c7 04 24 7c 98 04 08  movl  $0x804987c,(%esp)
8048d03: e8 48 fb ff ff      call 8048850 <puts@plt>
8048d08: 8b 85 e0 fe ff ff  mov  0xffffffff(%ebp),%eax
8048d0e: 89 04 24            mov  %eax,(%esp)
8048d11: e8 0a fb ff ff      call 8048820 <remove@plt>
8048d16: e9 45 fe ff ff      jmp  8048b60 <validate+0x40>
8048d1b: c7 04 24 98 97 04 08  movl  $0x8049798,(%esp)
8048d22: e8 29 fb ff ff      call 8048850 <puts@plt>
8048d27: e9 34 fe ff ff      jmp  8048b60 <validate+0x40>
8048d2c: c7 04 24 ec 98 04 08  movl  $0x80498ec,(%esp)
8048d33: e8 18 fb ff ff      call 8048850 <puts@plt>
8048d38: e9 23 fe ff ff      jmp  8048b60 <validate+0x40>
8048d3d: c7 04 24 6e 9a 04 08  movl  $0x8049a6e,(%esp)
8048d44: e8 07 fb ff ff      call 8048850 <puts@plt>
8048d49: e9 12 fe ff ff      jmp  8048b60 <validate+0x40>
8048d4e: c7 04 24 ac 98 04 08  movl  $0x80498ac,(%esp)
8048d55: e8 f6 fa ff ff      call 8048850 <puts@plt>
8048d5a: eb ac              jmp  8048d08 <validate+0x1e8>
8048d5c: 8d 7d eb           lea  0xffffffff(%ebp),%edi
8048d5f: c7 45 eb 6e 6f 62 6f  movl  $0x6f626f6e,0xffffffff(%ebp)
8048d66: 66 c7 45 ef 64 79    movw  $0x7964,0xffffffff(%ebp)
8048d6c: c6 45 f1 00         movb  $0x0,0xffffffff(%ebp)
8048d70: e9 dd fe ff ff      jmp  8048c52 <validate+0x132>
8048d75: c7 04 24 28 98 04 08  movl  $0x8049828,(%esp)
8048d7c: e8 5f fa ff ff      call 80487e0 <printf@plt>
8048d81: c7 04 24 01 00 00 00  movl  $0x1,(%esp)
8048d88: e8 13 fb ff ff      call 80488a0 <exit@plt>
8048d8d: 8d 76 00           lea  0x0(%esi),%esi

```

08048d90 <bang>:

```

8048d90: 55                push  %ebp
8048d91: 89 e5             mov  %esp,%ebp
8048d93: 83 ec 08          sub  $0x8,%esp
8048d96: c7 04 24 02 00 00 00  movl  $0x2,(%esp)
8048d9d: e8 3e fc ff ff      call 80489e0 <entry_check>
8048da2: a1 e0 a1 04 08     mov  0x804a1e0,%eax
8048da7: 3b 05 d0 a1 04 08   cmp  0x804a1d0,%eax
8048dad: 74 21             je   8048dd0 <bang+0x40>
8048daf: 89 44 24 04        mov  %eax,0x4(%esp)
8048db3: c7 04 24 f0 9a 04 08  movl  $0x8049af0,(%esp)
8048dba: e8 21 fa ff ff      call 80487e0 <printf@plt>
8048dbf: c7 04 24 00 00 00 00  movl  $0x0,(%esp)
8048dc6: e8 d5 fa ff ff      call 80488a0 <exit@plt>
8048dcb: 90                nop
8048dcc: 8d 74 26 00        lea  0x0(%esi),%esi
8048dd0: 89 44 24 04        mov  %eax,0x4(%esp)
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  movl  $0x2,(%esp)
8048de7: e8 34 fd ff ff      call 8048b20 <validate>
8048dec: eb d1             jmp  8048dbf <bang+0x2f>
8048dee: 66 90             xchg  %ax,%ax

```

08048df0 <fizz>:

```

8048df0: 55                push  %ebp
8048df1: 89 e5             mov  %esp,%ebp
8048df3: 53                push  %ebx
8048df4: 83 ec 14          sub  $0x14,%esp
8048df7: 8b 5d 08          mov  0x8(%ebp),%ebx
8048dfa: c7 04 24 01 00 00 00  movl  $0x1,(%esp)
8048e01: e8 da fb ff ff      call 80489e0 <entry_check>

```

```

8048e06: 3b 1d d0 a1 04 08    cmp    0x804a1d0,%ebx
8048e0c: 74 22                je     8048e30 <fizz+0x40>
8048e0e: 89 5c 24 04          mov     %ebx,0x4(%esp)
8048e12: c7 04 24 60 99 04 08 movl    $0x8049960,(%esp)
8048e19: e8 c2 f9 ff ff       call   80487e0 <printf@plt>
8048e1e: c7 04 24 00 00 00 00 movl    $0x0,(%esp)
8048e25: e8 76 fa ff ff       call   80488a0 <exit@plt>
8048e2a: 8d b6 00 00 00 00    lea     0x0(%esi),%esi
8048e30: 89 5c 24 04          mov     %ebx,0x4(%esp)
8048e34: c7 04 24 0e 9b 04 08 movl    $0x8049b0e,(%esp)
8048e3b: e8 a0 f9 ff ff       call   80487e0 <printf@plt>
8048e40: c7 04 24 01 00 00 00 movl    $0x1,(%esp)
8048e47: e8 d4 fc ff ff       call   8048b20 <validate>
8048e4c: eb d0                jmp     8048e1e <fizz+0x2e>
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)
8048e5d: e8 7e fb ff ff     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>
8048e6e: c7 04 24 00 00 00 00 movl    $0x0,(%esp)
8048e75: e8 a6 fc ff ff     call   8048b20 <validate>
8048e7a: c7 04 24 00 00 00 00 movl    $0x0,(%esp)
8048e81: e8 1a fa ff ff     call   80488a0 <exit@plt>
8048e86: 8d 76 00          lea     0x0(%esi),%esi
8048e89: 8d bc 27 00 00 00 00 lea     0x0(%edi),%edi

```

08048e90 <Gets>:

```

8048e90: 55                push    %ebp
8048e91: 89 e5             mov     %esp,%ebp
8048e93: 57                push    %edi
8048e94: 56                push    %esi
8048e95: 53                push    %ebx
8048e96: 83 ec 0c          sub     $0xc,%esp
8048e99: 8b 1d cc a1 04 08    mov     0x804a1cc,%ebx
8048e9f: c7 05 e4 a1 04 08 00 movl    $0x0,0x804a1e4
8048ea6: 00 00 00
8048ea9: 8b 75 08          mov     0x8(%ebp),%esi
8048eac: 85 db             test    %ebx,%ebx
8048eae: 74 72             je      8048f22 <Gets+0x92>
8048eb0: bf 01 00 00 00     mov     $0x1,%edi
8048eb5: c7 45 f0 00 00 00 00 movl    $0x0,0xfffff0(%ebp)
8048ebc: 8d 74 26 00        lea     0x0(%esi),%esi
8048ec0: a1 c0 a1 04 08     mov     0x804a1c0,%eax
8048ec5: 89 04 24          mov     %eax,(%esp)
8048ec8: e8 a3 f8 ff ff     call   8048770 <_IO_getc@plt>
8048ecd: 83 f8 ff          cmp     $0xfffffff,%eax
8048ed0: 89 c3             mov     %eax,%ebx
8048ed2: 74 60             je      8048f34 <Gets+0xa4>
8048ed4: 83 f8 0a          cmp     $0xa,%eax
8048ed7: 74 5b             je      8048f34 <Gets+0xa4>
8048ed9: e8 a2 f8 ff ff     call   8048780 <__ctype_b_loc@plt>
8048ede: 8b 00             mov     (%eax),%eax
8048ee0: f6 44 58 01 10     testb   $0x10,0x1(%eax,%ebx,2)
8048ee5: 74 d9             je      8048ec0 <Gets+0x30>
8048ee7: 8d 43 d0          lea     0xfffffd0(%ebx),%eax
8048eea: 83 f8 09          cmp     $0x9,%eax
8048eed: 89 c2             mov     %eax,%edx
8048eef: 76 0f             jbe     8048f00 <Gets+0x70>
8048ef1: 8d 43 bf          lea     0xffffbf(%ebx),%eax
8048ef4: 83 f8 05          cmp     $0x5,%eax
8048ef7: 8d 53 c9          lea     0xfffffc9(%ebx),%edx
8048efa: 76 04             jbe     8048f00 <Gets+0x70>
8048efc: 8d 53 a9          lea     0xfffffa9(%ebx),%edx
8048eff: 90                nop
8048f00: 85 ff             test    %edi,%edi
8048f02: 74 4c             je      8048f50 <Gets+0xc0>
8048f04: 31 ff             xor     %edi,%edi
8048f06: 89 55 f0          mov     %edx,0xfffff0(%ebp)
8048f09: eb b5             jmp     8048ec0 <Gets+0x30>
8048f0b: 90                nop
8048f0c: 8d 74 26 00        lea     0x0(%esi),%esi
8048f10: 83 f8 0a          cmp     $0xa,%eax
8048f13: 74 1f             je      8048f34 <Gets+0xa4>
8048f15: 88 06             mov     %al,(%esi)

```



```

8048f17: 0f be c0      movsbl %al,%eax
8048f1a: 83 c6 01      add $0x1,%esi
8048f1d: e8 6e fa ff   call 8048990 <save_char>
8048f22: a1 c0 a1 04 08 mov 0x804a1c0,%eax
8048f27: 89 04 24      mov %eax,(%esp)
8048f2a: e8 41 f8 ff   call 8048770 <_IO_getc@plt>
8048f2f: 83 f8 ff      cmp $0xffffffff,%eax
8048f32: 75 dc         jne 8048f10 <Gets+0x80>
8048f34: c6 06 00      movb $0x0,(%esi)
8048f37: a1 e4 a1 04 08 mov 0x804a1e4,%eax
8048f3c: c6 84 40 00 a2 04 08 movb $0x0,0x804a200(%eax,%eax,2)
8048f43: 00
8048f44: 8b 45 08      mov 0x8(%ebp),%eax
8048f47: 83 c4 0c      add $0xc,%esp
8048f4a: 5b           pop %ebx
8048f4b: 5e           pop %esi
8048f4c: 5f           pop %edi
8048f4d: 5d           pop %ebp
8048f4e: c3           ret
8048f4f: 90           nop
8048f50: 8b 45 f0      mov 0xffffffff(%ebp),%eax
8048f53: bf 01 00 00 00 mov $0x1,%edi
8048f58: c1 e0 04      shl $0x4,%eax
8048f5b: 8d 04 02      lea (%edx,%eax,1),%eax
8048f5e: 88 06         mov %al,(%esi)
8048f60: 0f be c0      movsbl %al,%eax
8048f63: 83 c6 01      add $0x1,%esi
8048f66: e8 25 fa ff   call 8048990 <save_char>
8048f6b: e9 50 ff ff   jmp 8048ec0 <Gets+0x30>

```

08048f70 <getbufn>:

```

8048f70: 55           push %ebp
8048f71: 89 e5         mov %esp,%ebp
8048f73: 81 ec 08 02 00 00 sub $0x208,%esp
8048f79: 8d 85 00 fe ff ff lea 0xffffffff(%ebp),%eax
8048f7f: 89 04 24      mov %eax,(%esp)
8048f82: e8 09 ff ff   call 8048e90 <Gets>
8048f87: b8 01 00 00 00 mov $0x1,%eax
8048f8c: c9           leave
8048f8d: c3           ret
8048f8e: 66 90        xchg %ax,%ax

```

08048f90 <testn>:

```

8048f90: 55           push %ebp
8048f91: 89 e5         mov %esp,%ebp
8048f93: 83 ec 18      sub $0x18,%esp
8048f96: c7 45 fc ef be ad de movl $0xdeadbeef,0xffffffff(%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         mov %eax,%edx
8048fb0: 8b 45 fc      mov 0xffffffff(%ebp),%eax
8048fb3: 3d ef be ad de cmp $0xdeadbeef,%eax
8048fb8: 74 0e         je 8048fc8 <testn+0x38>
8048fba: c7 04 24 80 99 04 08 movl $0x8049980,(%esp)
8048fc1: e8 8a f8 ff ff call 8048850 <puts@plt>
8048fc6: c9           leave
8048fc7: c3           ret
8048fc8: 3b 15 d0 a1 04 08 cmp 0x804a1d0,%edx
8048fce: 74 12         je 8048fe2 <testn+0x52>
8048fd0: 89 54 24 04   mov %edx,0x4(%esp)
8048fd4: c7 04 24 47 9b 04 08 movl $0x8049b47,(%esp)
8048fdb: e8 00 f8 ff ff call 80487e0 <printf@plt>
8048fe0: c9           leave
8048fe1: c3           ret
8048fe2: 89 54 24 04   mov %edx,0x4(%esp)
8048fe6: c7 04 24 ac 99 04 08 movl $0x80499ac,(%esp)
8048fed: e8 ee f7 ff ff call 80487e0 <printf@plt>
8048ff2: c7 04 24 04 00 00 00 movl $0x4,(%esp)
8048ff9: e8 22 fb ff ff call 8048b20 <validate>
8048ffe: c9           leave
8048fff: c3           ret

```

08049000 <getbuf>:

```

8049000: 55           push %ebp
8049001: 89 e5         mov %esp,%ebp
8049003: 83 ec 18      sub $0x18,%esp
8049006: 8d 45 f4      lea 0xffffffff(%ebp),%eax
8049009: 89 04 24      mov %eax,(%esp)

```

```

804900c: e8 7f fe ff      call 8048e90 <Gets>
8049011: b8 01 00 00 00   mov $0x1,%eax
8049016: c9               leave
8049017: c3               ret
8049018: 90               nop
8049019: 8d b4 26 00 00 00 lea 0x0(%esi),%esi

```

08049020 <test>:

```

8049020: 55               push %ebp
8049021: 89 e5            mov %esp,%ebp
8049023: 83 ec 18         sub $0x18,%esp
8049026: c7 45 fc ef be ad de movl $0xdeadbeef,0xfffffc(%ebp)
804902d: c7 04 24 03 00 00 00 movl $0x3,(%esp)
8049034: e8 a7 f9 ff ff   call 80489e0 <entry_check>
8049039: e8 c2 ff ff ff   call 8049000 <getbuf>
804903e: 89 c2            mov %eax,%edx
8049040: 8b 45 fc         mov 0xfffffc(%ebp),%eax
8049043: 3d ef be ad de   cmp $0xdeadbeef,%eax
8049048: 74 0e            je 8049058 <test+0x38>
804904a: c7 04 24 80 99 04 08 movl $0x8049980,(%esp)
8049051: e8 fa f7 ff ff   call 8048850 <puts@plt>
8049056: c9               leave
8049057: c3               ret
8049058: 3b 15 d0 a1 04 08 cmp 0x804a1d0,%edx
804905e: 74 12            je 8049072 <test+0x52>
8049060: 89 54 24 04      mov %edx,0x4(%esp)
8049064: c7 04 24 80 9b 04 08 movl $0x8049b80,(%esp)
804906b: e8 70 f7 ff ff   call 80487e0 <printf@plt>
8049070: c9               leave
8049071: c3               ret
8049072: 89 54 24 04      mov %edx,0x4(%esp)
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 movl $0x3,(%esp)
8049089: e8 92 fa ff ff   call 8048b20 <validate>
804908e: c9               leave
804908f: c3               ret

```

08049090 <launch>:

```

8049090: 55               push %ebp
8049091: 89 e5            mov %esp,%ebp
8049093: 83 ec 58         sub $0x58,%esp
8049096: 89 7d fc         mov %edi,0xfffffc(%ebp)
8049099: 89 c7            mov %eax,%edi
804909b: a1 c8 a1 04 08   mov 0x804a1c8,%eax
80490a0: 89 5d f4         mov %ebx,0xfffff4(%ebp)
80490a3: 8d 5d b4         lea 0xfffffb4(%ebp),%ebx
80490a6: 89 75 f8         mov %esi,0xfffff8(%ebp)
80490a9: 89 d6            mov %edx,%esi
80490ab: 85 c0            test %eax,%eax
80490ad: 0f 85 9d 00 00 00 jne 8049150 <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 $0xfffff0,%edx
80490c2: 29 d4            sub %edx,%esp
80490c4: 8d 54 24 1b      lea 0x1b(%esp),%edx
80490c8: 83 e2 f0         and $0xfffff0,%edx
80490cb: 89 44 24 08      mov %eax,0x8(%esp)
80490cf: c7 44 24 04 f4 00 00 movl $0xf4,0x4(%esp)
80490d6: 00
80490d7: 89 14 24         mov %edx,(%esp)
80490da: e8 71 f6 ff ff   call 8048750 <memset@plt>
80490df: a1 c4 a1 04 08   mov 0x804a1c4,%eax
80490e4: 85 c0            test %eax,%eax
80490e6: 75 18            jne 8049100 <launch+0x70>
80490e8: a1 cc a1 04 08   mov 0x804a1cc,%eax
80490ed: 85 c0            test %eax,%eax
80490ef: 75 4f            jne 8049140 <launch+0xb0>
80490f1: c7 04 24 bc 9b 04 08 movl $0x8049bbc,(%esp)
80490f8: e8 e3 f6 ff ff   call 80487e0 <printf@plt>
80490fd: 8d 76 00         lea 0x0(%esi),%esi
8049100: 85 ff            test %edi,%edi
8049102: 74 32            je 8049136 <launch+0xa6>
8049104: e8 87 fe ff ff   call 8048f90 <testn>
8049109: 8b 35 dc a1 04 08 mov 0x804a1dc,%esi
804910f: 85 f6            test %esi,%esi
8049111: 75 16            jne 8049129 <launch+0x99>
8049113: c7 04 24 18 9a 04 08 movl $0x8049a18,(%esp)

```

```

804911a: e8 31 f7 ff ff    call 8048850 <puts@plt>
804911f: c7 05 dc a1 04 08 00 movl $0x0,0x804a1dc
8049126: 00 00 00
8049129: 8b 5d f4          mov 0xffffffff(%ebp),%ebx
804912c: 8b 75 f8          mov 0xffffffff(%ebp),%esi
804912f: 8b 7d fc          mov 0xffffffff(%ebp),%edi
8049132: 89 ec            mov %ebp,%esp
8049134: 5d              pop %ebp
8049135: c3              ret
8049136: e8 e5 fe ff ff    call 8049020 <test>
804913b: eb cc            jmp 8049109 <launch+0x79>
804913d: 8d 76 00          lea 0x0(%esi),%esi
8049140: c7 04 24 ab 9b 04 08 movl $0x8049bab,(%esp)
8049147: e8 94 f6 ff ff    call 80487e0 <printf@plt>
804914c: eb b2            jmp 8049100 <launch+0x70>
804914e: 66 90            xchg %ax,%ax
8049150: a1 a8 a1 04 08    mov 0x804a1a8,%eax
8049155: 89 5c 24 08       mov %ebx,0x8(%esp)
8049159: c7 44 24 04 9b 9b 04 movl $0x8049b9b,0x4(%esp)
8049160: 08
8049161: 89 04 24          mov %eax,(%esp)
8049164: e8 a7 f6 ff ff    call 8048810 <printf@plt>
8049169: e9 45 ff ff ff    jmp 80490b3 <launch+0x23>
804916e: 66 90            xchg %ax,%ax

```

08049170 <launcher>:

```

8049170: 55              push %ebp
8049171: 89 e5            mov %esp,%ebp
8049173: 53              push %ebx
8049174: 83 ec 24         sub $0x24,%esp
8049177: 8b 45 08         mov 0x8(%ebp),%eax
804917a: a3 e8 a1 04 08    mov %eax,0x804a1e8
804917f: 8b 45 0c         mov 0xc(%ebp),%eax
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    mov %eax,0x804a1ec
804919f: c7 44 24 08 07 00 00 movl $0x7,0x8(%esp)
80491a6: 00
80491a7: c7 44 24 04 00 40 00 movl $0x4000,0x4(%esp)
80491ae: 00
80491af: c7 04 24 00 60 58 55 movl $0x55586000,(%esp)
80491b6: e8 35 f5 ff ff    call 80486f0 <mmap@plt>
80491bb: 83 f8 ff         cmp $0xffffffff,%eax
80491be: 89 c3            mov %eax,%ebx
80491c0: 74 45            je 8049207 <launcher+0x97>
80491c2: 8d 80 f8 3f 00 00 lea 0x3ff8(%eax),%eax
80491c8: a3 04 ae 04 08    mov %eax,0x804ae04
80491cd: 89 e2            mov %esp,%edx
80491cf: 89 c4            mov %eax,%esp
80491d1: a3 08 ae 04 08    mov %eax,0x804ae08
80491d6: a1 e8 a1 04 08    mov 0x804a1e8,%eax
80491db: 89 15 f0 a1 04 08 mov %edx,0x804a1f0
80491e1: 8b 15 ec a1 04 08 mov 0x804a1ec,%edx
80491e7: e8 a4 fe ff ff    call 8049090 <launch>
80491ec: a1 f0 a1 04 08    mov 0x804a1f0,%eax
80491f1: 89 c4            mov %eax,%esp
80491f3: c7 45 0c 00 40 00 00 movl $0x4000,0xc(%ebp)
80491fa: 89 5d 08         mov %ebx,0x8(%ebp)
80491fd: 83 c4 24         add $0x24,%esp
8049200: 5b              pop %ebx
8049201: 5d              pop %ebp
8049202: e9 69 f6 ff ff    jmp 8048870 <munmap@plt>
8049207: a1 a0 a1 04 08    mov 0x804a1a0,%eax
804920c: c7 44 24 08 23 00 00 movl $0x23,0x8(%esp)
8049213: 00
8049214: c7 44 24 04 01 00 00 movl $0x1,0x4(%esp)
804921b: 00
804921c: c7 04 24 cc 99 04 08 movl $0x80499cc,(%esp)
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)
8049233: e8 68 f6 ff ff    call 80488a0 <exit@plt>
8049238: 90              nop
8049239: 8d b4 26 00 00 00 00 lea 0x0(%esi),%esi

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08049240 <main>:
8049240: 8d 4c 24 04      lea 0x4(%esp),%ecx
8049244: 83 e4 f0         and $0xffffffff,%esp
8049247: ff 71 fc        pushl 0xffffffff(%ecx)
804924a: 55              push %ebp
804924b: 89 e5           mov %esp,%ebp
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           mov (%ecx),%esi
8049256: 8b 59 04        mov 0x4(%ecx),%ebx
8049259: c7 44 24 04 60 8a 04 movl $0x8048a60,0x4(%esp)
8049260: 08
8049261: c7 04 24 0b 00 00 00 movl $0xb,(%esp)
8049268: e8 a3 f4 ff ff  call 8048710 <signal@plt>
804926d: c7 44 24 04 90 8a 04 movl $0x8048a90,0x4(%esp)
8049274: 08
8049275: c7 04 24 07 00 00 00 movl $0x7,(%esp)
804927c: e8 8f f4 ff ff  call 8048710 <signal@plt>
8049281: c7 44 24 04 20 8a 04 movl $0x8048a20,0x4(%esp)
8049288: 08
8049289: c7 04 24 0e 00 00 00 movl $0xe,(%esp)
8049290: e8 7b f4 ff ff  call 8048710 <signal@plt>
8049295: c7 44 24 04 f0 89 04 movl $0x80489f0,0x4(%esp)
804929c: 08
804929d: c7 04 24 04 00 00 00 movl $0x4,(%esp)
80492a4: e8 67 f4 ff ff  call 8048710 <signal@plt>
80492a9: a1 a4 a1 04 08  mov 0x804a1a4,%eax
80492ae: c7 45 e8 00 00 00 00 movl $0x0,0xffffffff8(%ebp)
80492b5: c7 45 ec 01 00 00 00 movl $0x1,0xffffffffc(%ebp)
80492bc: a3 c0 a1 04 08  mov %eax,0x804a1c0
80492c1: c7 44 24 08 f8 9b 04 movl $0x8049bf8,0x8(%esp)
80492c8: 08
80492c9: 89 5c 24 04     mov %ebx,0x4(%esp)
80492cd: 89 34 24        mov %esi,(%esp)
80492d0: e8 cb f4 ff ff  call 80487a0 <getopt@plt>
80492d5: 3c ff          cmp $0xff,%al
80492d7: 74 20          je 80492f9 <main+0xb9>
80492d9: 83 e8 66        sub $0x66,%eax
80492dc: 3c 12          cmp $0x12,%al
80492de: 77 10          ja 80492f0 <main+0xb0>
80492e0: 0f b6 c0        movzbl %al,%eax
80492e3: ff 24 85 00 9c 04 08 jmp *0x8049c00(,%eax,4)
80492ea: 8d b6 00 00 00 00 lea 0x0(%esi),%esi
80492f0: 8b 03          mov (%ebx),%eax
80492f2: e8 c9 f7 ff ff  call 8048ac0 <usage>
80492f7: eb c8          jmp 80492c1 <main+0x81>
80492f9: a1 d4 a1 04 08  mov 0x804a1d4,%eax
80492fe: 85 c0          test %eax,%eax
8049300: 0f 84 e5 01 00 00 je 80494eb <main+0x2ab>
8049306: a1 d0 a1 04 08  mov 0x804a1d0,%eax
804930b: 89 04 24        mov %eax,(%esp)
804930e: e8 dd f4 ff ff  call 80487f0 <random@plt>
8049313: e8 e8 f3 ff ff  call 8048700 <random@plt>
8049318: 25 f8 0f 00 00  and $0xff8,%eax
804931d: 89 45 e4        mov %eax,0xffffffff4(%ebp)
8049320: c7 44 24 04 04 00 00 movl $0x4,0x4(%esp)
8049327: 00
8049328: 8b 45 ec        mov 0xffffffffc(%ebp),%eax
804932b: 89 04 24        mov %eax,(%esp)
804932e: e8 fd f3 ff ff  call 8048730 <calloc@plt>
8049333: 89 c7          mov %eax,%edi
8049335: 8b 45 ec        mov 0xffffffffc(%ebp),%eax
8049338: 83 e8 02        sub $0x2,%eax
804933b: 85 c0          test %eax,%eax
804933d: 7e 24          jle 8049363 <main+0x123>
804933f: 8b 45 ec        mov 0xffffffffc(%ebp),%eax
8049342: bb 01 00 00 00  mov $0x1,%ebx
8049347: 8d 70 ff        lea 0xffffffff(%eax),%esi
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
8049358: 89 44 9f fc     mov %eax,0xffffffffc(%edi,%ebx,4)
804935c: 83 c3 01        add $0x1,%ebx
804935f: 39 f3          cmp %esi,%ebx
8049361: 75 ed          jne 8049350 <main+0x110>
8049363: 83 7d ec 01     cmpl $0x1,0xffffffffc(%ebp)

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8049367: 0f 8e 4e 01 00 00    jle  80494bb <main+0x27b>
804936d: 8b 45 ec             mov  0xffffffff(%ebp),%eax
8049370: c1 e0 02             shl  $0x2,%eax
8049373: c7 44 07 f8 38 00 00 movl  $0x38,0xffffffff(%edi,%eax,1)
804937a: 00
804937b: c7 44 07 fc 00 00 00 movl  $0x0,0xffffffff(%edi,%eax,1)
8049382: 00
8049383: a1 70 a1 04 08       mov  0x804a170,%eax
8049388: 89 04 24             mov  %eax,(%esp)
804938b: e8 30 f4 ff ff       call 80487c0 <alarm@plt>
8049390: 31 db               xor  %ebx,%ebx
8049392: 8b 45 e4             mov  0xffffffff4(%ebp),%eax
8049395: 03 04 9f             add  (%edi,%ebx,4),%eax
8049398: 83 c3 01             add  $0x1,%ebx
804939b: 89 44 24 04          mov  %eax,0x4(%esp)
804939f: 8b 45 e8             mov  0xffffffff8(%ebp),%eax
80493a2: 89 04 24             mov  %eax,(%esp)
80493a5: e8 c6 fd ff ff       call 8049170 <launcher>
80493aa: 3b 5d ec             cmp  0xffffffff(%ebp),%ebx
80493ad: 7c e3               jl   8049392 <main+0x152>
80493af: 83 c4 18             add  $0x18,%esp
80493b2: 31 c0               xor  %eax,%eax
80493b4: 59                 pop  %ecx
80493b5: 5b                 pop  %ebx
80493b6: 5e                 pop  %esi
80493b7: 5f                 pop  %edi
80493b8: 5d                 pop  %ebp
80493b9: 8d 61 fc             lea  0xffffffffc(%ecx),%esp
80493bc: c3                 ret
80493bd: c7 05 d8 a1 04 08 01 movl  $0x1,0x804a1d8
80493c4: 00 00 00
80493c7: c7 05 c4 a1 04 08 01 movl  $0x1,0x804a1c4
80493ce: 00 00 00
80493d1: c7 05 70 a1 04 08 01 movl  $0x1,0x804a170
80493d8: 00 00 00
80493db: e9 e1 fe ff ff       jmp  80492c1 <main+0x81>
80493e0: c7 44 24 04 e1 9b 04 movl  $0x8049be1,0x4(%esp)
80493e7: 08
80493e8: a1 ac a1 04 08       mov  0x804a1ac,%eax
80493ed: 89 04 24             mov  %eax,(%esp)
80493f0: e8 bb f3 ff ff       call 80487b0 <fopen@plt>
80493f5: 85 c0               test %eax,%eax
80493f7: a3 c0 a1 04 08       mov  %eax,0x804a1c0
80493fc: 0f 85 bf fe ff ff    jne  80492c1 <main+0x81>
8049402: a1 ac a1 04 08       mov  0x804a1ac,%eax
8049407: c7 04 24 e3 9b 04 08 movl  $0x8049be3,(%esp)
804940e: 89 44 24 04          mov  %eax,0x4(%esp)
8049412: e8 c9 f3 ff ff       call 80487e0 <printf@plt>
8049417: 8b 03               mov  (%ebx),%eax
8049419: e8 a2 f6 ff ff       call 8048ac0 <usage>
804941e: e9 9e fe ff ff       jmp  80492c1 <main+0x81>
8049423: c7 45 e8 01 00 00 00 movl  $0x1,0xffffffff8(%ebp)
804942a: c7 45 ec 05 00 00 00 movl  $0x5,0xffffffffc(%ebp)
8049431: e9 8b fe ff ff       jmp  80492c1 <main+0x81>
8049436: c7 05 c4 a1 04 08 01 movl  $0x1,0x804a1c4
804943d: 00 00 00
8049440: e9 7c fe ff ff       jmp  80492c1 <main+0x81>
8049445: c7 05 68 a1 04 08 01 movl  $0x1,0x804a168
804944c: 00 00 00
804944f: e9 6d fe ff ff       jmp  80492c1 <main+0x81>
8049454: a1 ac a1 04 08       mov  0x804a1ac,%eax
8049459: 89 04 24             mov  %eax,(%esp)
804945c: e8 2f f4 ff ff       call 8048890 <__strdup@plt>
8049461: a3 d4 a1 04 08       mov  %eax,0x804a1d4
8049466: 89 44 24 04          mov  %eax,0x4(%esp)
804946a: c7 04 24 c9 9b 04 08 movl  $0x8049bc9,(%esp)
8049471: e8 6a f3 ff ff       call 80487e0 <printf@plt>
8049476: a1 d4 a1 04 08       mov  0x804a1d4,%eax
804947b: 89 04 24             mov  %eax,(%esp)
804947e: e8 ed 00 00 00       call 8049570 <gencookie>
8049483: a3 d0 a1 04 08       mov  %eax,0x804a1d0

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