

Service	System call code	Arguments	Result
print_int	1	\$a0 = integer	
print_float	2	\$f12 = float	
print_double	3	\$f12 = double	
print_string	4	\$a0 = string	
read_int	5		integer (in \$v0)
read_float	6		float (in \$f0)
read_double	7		double (in \$f0)
read_string	8	\$a0 = buffer, \$a1 = length	
sbrk	9	\$a0 = amount	address (in \$v0)
exit	10		
print_char	11	\$a0 = char	
read_char	12		char (in \$v0)
open	13	\$a0 = filename (string), \$a1 = flags, \$a2 = mode	file descriptor (in \$a0)
read	14	\$a0 = file descriptor, \$a1 = buffer, \$a2 = length	num chars read (in \$a0)
write	15	\$a0 = file descriptor, \$a1 = buffer, \$a2 = length	num chars written (in \$a0)
close	16	\$a0 = file descriptor	
exit2	17	\$a0 = result	

**FIGURE B.9.1** System services.

```

li      $v0, 4      # system call code for print_str
la      $a0, str    # address of string to print
syscall                # print the string

li      $v0, 1      # system call code for print_int
li      $a0, 5      # integer to print
syscall                # print it

```