```
 1: // $Id: sizeofsizes.c,v 1.12 2012-02-09 19:00:37-08 - - $
 2:
 3: #include <assert.h>
 4: #include <inttypes.h>
 5: #include <stdio.h>
 6: #include <stdlib.h>
 7:
 8: #define PRINTSIZE(TYPE) \
 9:         printf ("%4ld = sizeof (%s)\n", sizeof (TYPE), #TYPE);
10:
11: struct node {
12:    char *string;
13:    struct node *link;
14: };
15:
16: int main (int argc, char **argv) {
17:    printf ("argc = %d, argv = %p\n", argc, argv);
18:    printf ("argv[0] = %p = \"%s\"\n", argv[0], argv[0]);
19:    PRINTSIZE (char);
20:    PRINTSIZE (short);
21:    PRINTSIZE (int);
22:    PRINTSIZE (long);
23:    PRINTSIZE (long long);
24:    PRINTSIZE (float);
25:    PRINTSIZE (double);
26:    PRINTSIZE (long double);
27:    PRINTSIZE (void *);
28:    PRINTSIZE (struct node);
29:    PRINTSIZE (struct node *);
30:    PRINTSIZE (size_t);
31:    PRINTSIZE (uintptr_t);
32:    return EXIT_SUCCESS;
33: }
34:
35: //TEST// ./sizeofsizes >sizeofsizes.lis
36: //TEST// mkpspdf sizeofsizes.ps sizeofsizes.c* sizeofsizes.lis
37:
```

```
1: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ mkc: starting sizeofsizes.c
2: sizeofsizes.c: $Id: sizeofsizes.c,v 1.12 2012-02-09 19:00:37-08 - - $
3: gcc -g -O0 -Wall -Wextra -std=gnu99 sizeofsizes.c -o sizeofsizes -lm
4: rm -f sizeofsizes.o
5: @@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@ mkc: finished sizeofsizes.c
```

```
 1: argc = 1, argv = 0x7fff69d802d8
 2: argv[0] = 0x7fff69d821d6 = "./sizeofsizes"
 3:    1 = sizeof (char)
 4:    2 = sizeof (short)
 5:    4 = sizeof (int)
 6:    8 = sizeof (long)
 7:    8 = sizeof (long long)
 8:    4 = sizeof (float)
 9:    8 = sizeof (double)
10:   16 = sizeof (long double)
11:    8 = sizeof (void *)
12:   16 = sizeof (struct node)
13:    8 = sizeof (struct node *)
14:    8 = sizeof (size_t)
15:    8 = sizeof (uintptr_t)
```