

```
1: // $Id: hello.c,v 1.1 2012-01-24 19:58:03-08 - - $
2:
3: //
4: // NAME
5: //     hello - the canonical hello world program
6: //
7: // SYNOPSIS
8: //     hello
9: //
10: // DESCRIPTION
11: //     Prints the message "Hello, world!"
12: //
13:
14: #include <libgen.h>
15: #include <stdio.h>
16: #include <stdlib.h>
17:
18: int main (int argc, char **argv) {
19:     if (argc != 1) {
20:         fprintf (stderr, "Usage: %s\n", basename (argv[0]));
21:         exit (EXIT_FAILURE);
22:     }
23:     printf ("Hello, World!\n");
24:     return EXIT_SUCCESS;
25: }
26:
27: //TEST// runprogram.perl -x hello.lis1 ./hello
28: //TEST// runprogram.perl -x hello.lis2 ./hello goodbye
29: //TEST// mkpspdf hello.ps hello.c* hello.lis?
30:
```

```
1: @@@@ mkc: starting hello.c
2: hello.c: $Id: hello.c,v 1.1 2012-01-24 19:58:03-08 - - $
3: gcc -g -O0 -Wall -Wextra -std=gnu99 hello.c -o hello -lm
4: lint -Xa -fd -m -u -x -errchk=%all hello.c
5:
6: function returns value which is always ignored
7:      fprintf          printf
8: rm -f hello.o
9: @@@@ mkc: finished hello.c
```

```

1:
2: ::::::::::::::::::::::::::::::::::::::::::::
3: log: hello.lisl.log
4: ::::::::::::::::::::::::::::::::::::::::::::
5:
6:      1 Script   : /afs/cats.ucsc.edu/courses/cmcs012b-wm/bin/runprogram.perl
7:      2 limit c  :    0 max core file size (KB)
8:      3 limit f  : 4194303 max output file size (KB)
9:      4 limit t  : 4294967295 max CPU time (sec)
10:     5 stdin    : /dev/null
11:     6 stdout   : hello.lisl.out
12:     7 stderr   : hello.lisl.err
13:     8 log      : hello.lisl.log
14:     9 listing  : hello.lisl
15:    10 Command  : ./hello
16:    11 starting: pid 27198: 19:58:03.00
17:    12 finished: pid 27198: 19:58:03.00, real 0.00, user 0.00, sys 0.00
18:    13 pstatus: 0x0000 EXIT STATUS = 0
19:
20: ::::::::::::::::::::::::::::::::::::::::::::
21: stdin: /dev/null
22: ::::::::::::::::::::::::::::::::::::::::::::
23:
24:
25: ::::::::::::::::::::::::::::::::::::::::::::
26: stdout: hello.lisl.out
27: ::::::::::::::::::::::::::::::::::::::::::::
28:
29:      1 Hello, World!
30:
31: ::::::::::::::::::::::::::::::::::::::::::::
32: stderr: hello.lisl.err
33: ::::::::::::::::::::::::::::::::::::::::::::
34:
```

```

1:
2: .....
3: log: hello.lis2.log
4: .....
5:
6: 1  Script   : /afs/cats.ucsc.edu/courses/cmcs012b-wm/bin/runprogram.perl
7: 2  limit c  :      0 max core file size (KB)
8: 3  limit f  : 4194303 max output file size (KB)
9: 4  limit t  : 4294967295 max CPU time (sec)
10: 5  stdin   : /dev/null
11: 6  stdout  : hello.lis2.out
12: 7  stderr  : hello.lis2.err
13: 8  log     : hello.lis2.log
14: 9  listing : hello.lis2
15: 10 Command : ./hello goodbye
16: 11 starting: pid 27205: 19:58:03.00
17: 12 finished: pid 27205: 19:58:03.00, real 0.00, user 0.00, sys 0.00
18: 13 pstatus: 0x0100 EXIT STATUS = 1
19:
20: .....
21: stdin: /dev/null
22: .....
23:
24:
25: .....
26: stdout: hello.lis2.out
27: .....
28:
29:
30: .....
31: stderr: hello.lis2.err
32: .....
33:
34: 1  Usage: hello

```