

```
1: %{
2: // $Id: wordcount.l,v 1.10 2014-10-09 18:24:48-07 - - $
3:
4: //
5: // NAME
6: //      wordcount - count words in files or stdin
7: //
8: // SYNOPSIS
9: //      wordcount
10: //
11: // DESCRIPTION
12: //      Counts words found in stdin.  Also see wc(1).
13: //
14:
15: #include <stdio.h>
16: #include <stdlib.h>
17:
18: size_t lines = 0;
19: size_t words = 0;
20: size_t chars = 0;
21:
22: %{
23:
24: %option 8bit
25: %option debug
26: %option nodefault
27: %option nounput
28: %option noyywrap
29: %option warn
30:
31: %%
32:
33: \n          { ++chars; ++lines; }
34: [ \t]+      { chars += yyleng; }
35: [^ \t\n]+   { chars += yyleng; ++words; }
36:
37: %%
38:
39: int main() {
40:     yy_flex_debug = 1;
41:     yylex ();
42:     printf ("%8ld lines\n%8ld words\n%8ld chars\n",
43:             lines,      words,      chars);
44:     return EXIT_SUCCESS;
45: }
46:
```

```
1: # $Id: Makefile,v 1.13 2014-10-09 18:25:05-07 - - $
2:
3: GCC      = g++ -g -O0 -Wall -Wextra -std=gnu++11
4:
5: all : wordcount
6:
7: wordcount : wordcount.cc
8:             ${GCC} wordcount.cc -o wordcount
9:
10: wordcount.cc : wordcount.l
11:              flex -owordcount.cc wordcount.l 2>&1
12:
13: clean :
14:         - rm wordcount wordcount.cc test.log
15:
16: spotless : clean
17:         - rm wordcount Listing.ps Listing.pdf
18:
19: lis : wordcount.l Makefile test.log
20:      mkpspdf Listing.ps wordcount.l Makefile test.log
21:      - rm test.log
22:
23: ci : wordcount.l Makefile
24:     cid + wordcount.l Makefile
25:
26: test.log : wordcount
27:         (echo This is a small test file.; LC_TIME=C date) >test.in
28:         ./wordcount -L <test.in 1>test.out 2>test.err
29:         catnv test.in test.out test.err >test.log
30:         - rm test.in test.out test.err
31:
32: again :
33:        gmake spotless ci all lis
34:
```

```
1: -rw-----. 1 928 Oct  9 18:25 test.err
2: -rw-----. 1  56 Oct  9 18:25 test.in
3: -rw-----. 1  45 Oct  9 18:25 test.out
4:
5: =====
6: File: test.in
7: -----
8:      1  This is a small test file.
9:      2  Thu Oct  9 18:25:05 PDT 2014
10: =====
11:
12:
13: =====
14: File: test.out
15: -----
16:      1          2 lines
17:      2          12 words
18:      3          56 chars
19: =====
20:
21:
22: =====
23: File: test.err
24: -----
25:      1  --(end of buffer or a NUL)
26:      2  --accepting rule at line 35 ("This")
27:      3  --accepting rule at line 34 (" ")
28:      4  --accepting rule at line 35 ("is")
29:      5  --accepting rule at line 34 (" ")
30:      6  --accepting rule at line 35 ("a")
31:      7  --accepting rule at line 34 (" ")
32:      8  --accepting rule at line 35 ("small")
33:      9  --accepting rule at line 34 (" ")
34:     10  --accepting rule at line 35 ("test")
35:     11  --accepting rule at line 34 (" ")
36:     12  --accepting rule at line 35 ("file.")
37:     13  --accepting rule at line 33 ("
38:     14  ")
39:     15  --accepting rule at line 35 ("Thu")
40:     16  --accepting rule at line 34 (" ")
41:     17  --accepting rule at line 35 ("Oct")
42:     18  --accepting rule at line 34 (" ")
43:     19  --accepting rule at line 35 ("9")
44:     20  --accepting rule at line 34 (" ")
45:     21  --accepting rule at line 35 ("18:25:05")
46:     22  --accepting rule at line 34 (" ")
47:     23  --accepting rule at line 35 ("PDT")
48:     24  --accepting rule at line 34 (" ")
49:     25  --accepting rule at line 35 ("2014")
50:     26  --accepting rule at line 33 ("
51:     27  ")
52:     28  --(end of buffer or a NUL)
53:     29  --EOF (start condition 0)
54: =====
55:
```