

CSC 357 Program 4 Test Plan

This is an input/output test plan for programming assignment 4. Each case runs the `sfind` program with different arguments. The *path* argument is one of the following paths on falcon/hornet:

path1 = /home/gfisher/classes/357/labs/2

path2 = /home/gfisher/work/fmsl

path3 = /home/gfisher/classes/357/labs/2/javadoc

path4 = /home/gfisher/projects/CVS/fmsl/subprojects/eclipse/documentation/latex

In all cases, the `sfind` program should produce results identical to those produced by UNIX `find`, running on falcon/hornet. To ensure consistent results, the expected output files are generated automatically, by running UNIX `find`, each time the test script is executed.

The implementation of his plan is in two testing scripts -- `run.csh` and `run-find.csh`. Copy both of these scripts into a directory containing an implementation of `sfind` and execute `run.csh`. The script will create `output` and `diffs` directories, if necessary, and compare the output of `sfind` to the expected output from UNIX `/bin/find`.

Case	Command	Output File	Points
1	<code>sfind path1</code>	default.out	5
2	<code>sfind path1 -print</code>	print.out	5
3	<code>sfind path2 -atime 1</code>	atime-1.out	1
4	<code>sfind path2 -atime 2</code>	atime-2.out	1
5	<code>sfind path2 -atime 3</code>	atime-3.out	1
6	<code>sfind path2 -atime 50</code>	atime-50.out	1
7	<code>sfind path2 -ctime 0</code>	ctime-0.out	1
8	<code>sfind path2 -ctime 9</code>	ctime-9.out	1
9	<code>sfind path2 -ctime 85</code>	ctime-85.out	1
10	<code>sfind path2 -ctime 10</code>	ctime-10.out	1
11	<code>sfind path2 -mtime 1</code>	mtime-1.out	1
12	<code>sfind path2 -mtime 2</code>	mtime-2.out	1
13	<code>sfind path2 -mtime 3</code>	mtime-3.out	1
14	<code>sfind path2 -mtime 50</code>	mtime-50.out	1

15	<code>sfind path3 -user gfisher</code>	<code>user-gfi sher.out</code>	2
16	<code>sfind path4 -user jenglert</code>	<code>user-jenglert.out</code>	1
17	<code>sfind path2 -user root</code>	<code>user-root.out</code>	1
18	<code>sfind path3 -group faculty</code>	<code>group-faculty.out</code>	2
19	<code>sfind path4 -group cscstd</code>	<code>group-cscstd.out</code>	1
20	<code>sfind path2 -group root</code>	<code>group-root.out</code>	1
21	<code>sfind path1 -newer Makefile</code>	<code>newer-Makefile.out</code>	2
22	<code>sfind path1 -newer javadoc</code>	<code>newer-javadoc.out</code>	1
23	<code>sfind path1 -newer path1/./index.html</code>	<code>newer-index.out</code>	1
24	<code>sfind path1 -type d</code>	<code>type-d.out</code>	1
25	<code>sfind path1 -type f</code>	<code>type-f.out</code>	1
26	<code>sfind path1 -type l</code>	<code>type-l.out</code>	1
27	<code>sfind path1/images -type l</code>	<code>type-l-2.out</code>	1
28	<code>sfind path1 -size 1</code>	<code>size-1.out</code>	2
29	<code>sfind path1 -size 2</code>	<code>size-2.out</code>	2
30	<code>sfind path1 -size +10</code>	<code>size+10.out</code>	2
31	<code>sfind path1 -size -2</code>	<code>size--2.out</code>	2
32	<code>sfind path1 -name GeneralList.java</code>	<code>name-Gen.out</code>	1
33	<code>sfind path1 -name '*.html'</code>	<code>name-star.html.out</code>	1
34	<code>sfind path1 -name 'G*.*'</code>	<code>name-Gstar.star.out</code>	1
35	<code>sfind path1 -name 'G*.*1'</code>	<code>name-Gstar.star-l</code>	1
36	<code>sfind path1 -name '??'</code>	<code>name-ques-ques.out</code>	1
37	<code>sfind path1 -name '*.o'</code>	<code>name-star.o.out</code>	1
38	<code>sfind path1/./././solutions/labs/2 -name '*.*'</code>	<code>name-star-ques.out</code>	1
39	<code>sfind path1/./././solutions/labs/2 -name '?e?e*.o'</code>	<code>name-ques-e-ques-e-star.out</code>	1
40	<code>sfind path2 -name '*.doc'</code>	<code>name-star.doc.out</code>	1
41	<code>sfind path2 -name '??'</code>	<code>name-ques-ques.out</code>	1
42	<code>sfind path1 -exec ls -sal {} \;</code>	<code>exec-ls-sal.out</code>	4
43	<code>sfind path1 -exec grep -n newGeneralList {} \;</code>	<code>exec-grep.out</code>	4
44	<code>sfind path1 -exec grep -n newGeneralList {} > grep.out \;</code>	4	

45	<code>sfind path1 \! -newer Makefile</code>	<code>not-newer-Makefile.out</code>	2
46	<code>sfind path1 \! -name Makefile</code>	<code>not-name-Makefile.out</code>	2
47	<code>sfind path1 \! -type f</code>	<code>not-type-f.out</code>	2
48	<code>sfind path1 \! -size +10</code>	<code>not-size+10.out</code>	2
49	<code>sfind path1 -newer Makefile -name '*.c'</code>	<code>multiple-1.out</code>	4
50	<code>sfind path1 -name '*.c' -newer Makefile</code>	<code>multiple-2.out</code>	4
51	<code>sfind path1 -exec grep -n newGeneralList {} \; -print</code>	<code>multiple-3.out</code>	4
52	<code>sfind path1 -exec grep -n newGeneralList {} \; -exec ls -sal {} \;</code>	<code>multiple-4.out</code>	4
53	<code>sfind path1 \! -newer Makefile -type f -size +10 grep -nl swap {} \;</code>	<code>multiple-5.out</code>	4
54	<code>sfind path2 -atime 0 -ctime 0 -mtime 0 -user gfisher</code>	<code>multiple-6.out</code>	4
	<code>\! -group cscstd -newer \$p/administration/LOG -type d -size -20</code>		
	<code>\! -name CVS -exec find {} -name 's*.c' \;</code>		