CSC 357 Program 3 Test Plan

This is an input/output test plan for programming assignment 3. In this plan, the only input file used is Smakefile. To allow differe creates a symbolic link to a particular version of Smakefile. These linked-to files are listed in the **In File** column of the plan. The mand-line arguments, if any.

The output is in three forms -- stdout, stderr, and files generated by Smakefile actions. These are listed in the three columns s

In addition to the different versions of the Smakefile, there are a number of other input files that must be present. These include the Smakefile rules. You must copy the entire contents of this testing directory, and its subdirectories, in order for the test plan to be proper.

The test-execution script is run.csh. It assumes a program named smake exists in this directory, as well as all necessary input files subdirectory. The script must be run on hornet in order produce behavior consistent with the files in the expected-output directory.

NOTE: Unlike previous run scripts, this one echos program output as it progresses. In addition, the output files are created and different

Case	In File	argv	stdout	stderr
1	no-actions			
2	mixed-spacing			
3	1-rule		rl action echo "rl action"	
4	2-rules		touch f1.txt 0 f1.txt	
5	2-rules		0 fl.txt	
6	self		gcc -Wall -g -c smake.c gcc -Wall -g -c util.c gcc -Wall -g -c list.c gcc -Wall -g -c hash.c gcc -Wall -g -c parse.c gcc -Wall -g -o smake_t	
7	self		smake: Nothing to be done for 'all'.	

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8	self	clean	rm -f *.o smake_t	ls: No match.
9	self	print	<pre>In make-print. csh -c ./make-print.csh</pre>	ls: No match.
10	self	hash.o	gcc -Wall -g -c hash.c 2 hash.o	
11	self	all	<pre>gcc -Wall -g -c smake.c gcc -Wall -g -c util.c gcc -Wall -g -c list.c gcc -Wall -g -c parse.c gcc -Wall -g -o smake_t 2 hash.o 2 list.o 2 parse.o 4 smake.o 2 util.o</pre>	
12	multi-actions		touch f3.txt rm -f f1?.txt touch f2.txt touch f15.txt touch f10.txt touch f11.txt touch f11.txt touch f12.txt touch f13.txt touch f14.txt 0 f10.txt 0 f10.txt 0 f11.txt 0 f12.txt 0 f12.txt 0 f12.txt 0 f12.txt 0 f13.txt 0 f13.txt 0 f14.txt 0 f15.txt 0 f2.txt 0 f3.txt 0 f3.txt	

13	multi-actions	CASE 13:
		0 fl.txt
		0 f10.txt
		0 f11.txt
		0 f12.txt
		0 f13.txt
		0 f14.txt
		0 f15.txt
		0 f2.txt
		0 f3.txt
		0 f4.txt
14	writeup	CASE 14:
		main built
		other built
		Echo
		Done!
		gcc -c main.c
		echo "main built"
		gcc -c other.c
		echo "other built"
		echo "Echo"
		gcc -o main main.o other.o
		echo "Done!"
		2 main.o
		2 other.o
15	writeup	main built
		other built
		Echo
		Done!
		gcc -c main.c
		echo "main built"
		gcc -c other.c
		echo "other built"
		echo "Echo"
		gcc -o main main.o other.o
		echo "Done!"

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16	4-deep	clean	/bin/rm -f r? r??	
17	4-deep		r5 unconditional action r6 unconditional action /bin/touch r8.txt /bin/touch r8 /bin/touch r9.txt /bin/touch r9 echo "r5 unconditional action" echo "r6 unconditional action" /bin/touch r3 /bin/touch r1	
18	4-deep		r5 unconditional action r6 unconditional action echo "r5 unconditional action" echo "r6 unconditional action" /bin/touch r3 /bin/touch r1	
19	empty			smake: no rules exiting!
20	empty-name			smake: 1: empty name
21	malformed-rule			smake: malformed rule on line
22	no-tab			smake: malformed rule on line
23	missing-rule			<pre>smake: *** No rule to make target `a', needed by `x'. Stop.</pre>
24	not-found			<pre>sh: nonexistent: command not found smake: [x] Error 1 nonexistent</pre>
25	not-executable			<pre>sh: ./nonexecutable: Permission denied smake: [x] Error 1 nonexecutable</pre>

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26	unexpected-action		
27		1 2 3	

smake: unexpected action

on line 1

usage: smake [rule]