

CodeSonar Analysis Report

generated by Administrator on Wed Aug 23 15:57:08 2017
for analysis telnet-server analysis 1

Summary

Table 1: telnet-server analysis 1 Summary

Active Warnings	File Count	Project Name	Time Started	Time Finished	Machine
235	312	telnet-server	Mon Mar 27 16:48:14 2017	Mon Mar 27 16:50:52 2017	Jacks-MBP

Warnings

Figure 1: telnet-server analysis 1, Warnings by Class

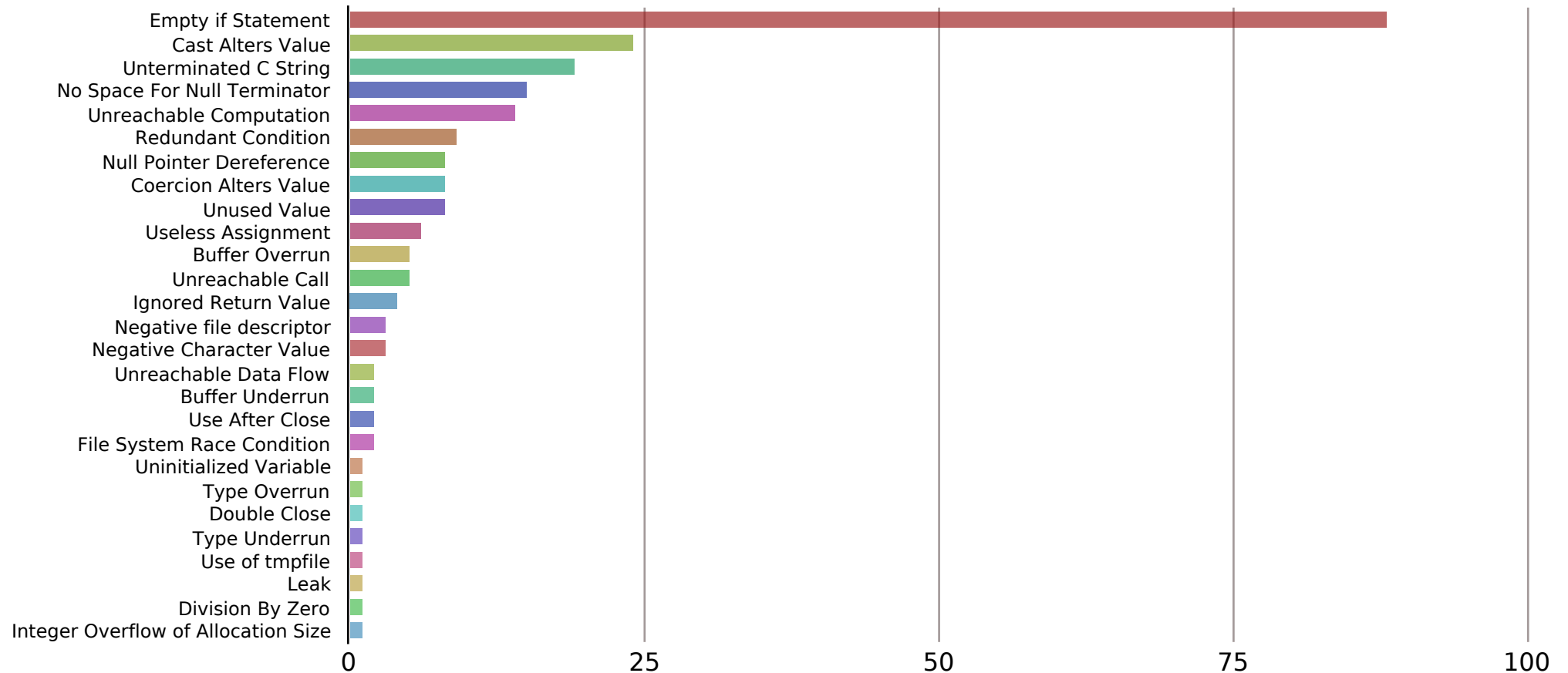


Table 2: telnet-server analysis 1, Warnings by Class

Table 2: telnet-server analysis 1, Warnings by Class

Warning Class	Active Warnings
Empty if Statement	88
Cast Alters Value	24
Unterminated C String	19
No Space For Null Terminator	15
Unreachable Computation	14
Redundant Condition	9
Coercion Alters Value	8
Unused Value	8
Null Pointer Dereference	8
Useless Assignment	6
Buffer Overrun	5
Unreachable Call	5
Ignored Return Value	4
Negative file descriptor	3
Negative Character Value	3
Use After Close	2

Table 3: telnet-server analysis 1, Warnings by File

Warning Class	Active Warnings
File System Race Condition	2
Buffer Underrun	2
Unreachable Data Flow	2
Uninitialized Variable	1
Type Underrun	1
Use of tmpfile	1
Division By Zero	1
Type Overrun	1
Leak	1
Integer Overflow of Allocation Size	1
Double Close	1

Table 3: telnet-server analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
resolv.c	24	1521	C
shell.c	14	584	C
shell-time.c	13	358	C

Table 3: telnet-server analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
ircc.c	11	521	C
shell-run.c	11	104	C
cfs-posix.c	11	108	C
powertrace.c	10	360	C
uip.c	8	1973	C
telnetd.c	7	431	C
eeeprom.c	6	166	C
shell-file.c	6	289	C
shell-irc.c	6	178	C
shell-tcpsend.c	5	191	C
psock.c	5	319	C
httpd-cfs.c	5	284	C
nbr-table.c	5	483	C
shell-crc.c	5	310	C
shell-vars.c	4	134	C
shell-udpsend.c	4	144	C
uip_arp.c	4	440	C

Table 3: telnet-server analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
shell-text.c	4	211	C
uaadv.c	4	616	C
program-handler.c	3	434	C
shell-wget.c	3	230	C
uip-fw.c	3	536	C
shell-base64.c	3	151	C
shell-power.c	3	262	C
udp-socket.c	3	199	C
ip64-addr.c	2	123	C
urlconv.c	2	148	C
tapdev.c	2	213	C
shell-powertrace.c	2	77	C
webclient.c	2	514	C
rtimer.c	2	108	C
shell-ps.c	2	73	C
tcpip.c	2	849	C
tcp-socket.c	2	409	C

Table 3: telnet-server analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
dhcpc.c	2	431	C
shell-httpd.c	2	93	C
shell-memdebug.c	2	128	C
iff.c	1	168	C
dlloader.c	1	69	C
sensors.c	1	137	C
ctimer.c	1	175	C
etimer.c	1	272	C
webserver-nogui.c	1	90	C
uaadv-rt.c	1	146	C
uip-over-mesh.c	1	305	C
shell-blink.c	1	121	C
random.c	1	54	C
telnet-server.c	1	68	C
shell-coffee.c	1	83	C
contiki-main.c	1	424	C
shell-reboot.c	1	88	C

Table 3: telnet-server analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
uip-fw-drv.c	1	54	C
shell-ping.c	1	187	C
simple-udp.c	1	183	C
slip.c	1	457	C
tapdev-drv.c	1	111	C
shell-netstat.c	1	142	C
serial-line.c	1	137	C
linkaddr.c	0	80	C
iff.h	0	58	C
uaadv-def.h	0	145	C
ctk-draw.h	0	335	C
program-handler.h	0	51	C
uip-split.c	0	158	C
trickle-timer.c	0	410	C
trickle-timer.h	0	514	C
procinit.c	0	48	C
linuxradio-drv.c	0	210	C

Table 3: telnet-server analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
timer.c	0	148	C
mt.c	0	109	C
tapdev.h	0	44	C
stimer.c	0	163	C
leds-arch.c	0	70	C
stimer.h	0	97	C
mt.h	0	263	C
mtarch.h	0	42	C
uip-nameserver.c	0	236	C
www.h	0	67	C
slipdev.c	0	203	C
ringbufindex.c	0	149	C
uip-over-mesh.h	0	56	C
http-strings.h	0	36	C
compower.c	0	98	C
webserver-nogui.h	0	44	C
netstack.c	0	51	C

Table 4: telnet-server analysis 1, Warning Instances

File	Active Warnings	Total Lines	Language
cfs-posix-dir.c	0	87	C
clock.c	0	96	C
uip-neighbor.c	0	158	C
log.h	0	45	C
uaadv-rt.h	0	63	C
http-user-agent-string.h	0	1	C
mmem.c	0	164	C
uip-udp-packet.c	0	102	C
autostart.c	0	72	C
mtarch.c	0	185	C
eeprom.h	0	116	C
uip-mcast6.h	0	186	C

(Showing 100 of 312 Files)

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
78	Leak	dlloader.c	dlloader_load	46	None	None

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
68	Negative Character Value	resolv.c	dns_name_isequal	400	None	None
68	Negative Character Value	shell-base64.c	base64_add_char	89	None	None
68	Negative Character Value	shell.c	shell_strtolong	535	None	None
65	Redundant Condition	shell-vars.c	process_thread_shell_vars_process	80	None	None
64	Division By Zero	powertrace.c	powertrace_print	132	None	None
63	Uninitialized Variable	shell-udpseend.c	process_thread_shell_udpseend_process	99	None	None
61	Integer Overflow of Allocation Size	shell-crc.c	process_thread_shell_bin2hex_process	129	None	None
61	No Space For Null Terminator	shell-irc.c	ircc_text_output	69	None	None
61	No Space For Null Terminator	shell-tcpsend.c	telnet_text_output	71	None	None
61	No Space For Null Terminator	shell-tcpsend.c	send_line	90	None	None
61	No Space For Null Terminator	shell-wget.c	process_thread_shell_wget_process	162	None	None
61	No Space For Null Terminator	resolv.c	remove_trailing_dots	1252	None	None
61	No Space For Null Terminator	shell-time.c	process_thread_shell_repeat_server_process	173	None	None
61	No Space For Null Terminator	shell-ps.c	process_thread_shell_ps_process	61	None	None
61	No Space For Null Terminator	shell-udpseend.c	process_thread_shell_udpseend_process	90	None	None
61	No Space For Null Terminator	shell-irc.c	process_thread_shell_irc_process	139	None	None
61	No Space For Null Terminator	shell-tcpsend.c	process_thread_shell_tcpsend_process	148	None	None

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
61	No Space For Null Terminator	shell-file.c	process_thread_shell_read_process	205	None	None
61	No Space For Null Terminator	shell-time.c	process_thread_shell_randwait_process	323	None	None
61	No Space For Null Terminator	shell-time.c	process_thread_shell_repeat_process	250	None	None
60	No Space For Null Terminator	webclient.c	parse_headers	357	None	None
60	Unterminated C String	resolv.c	resolv_set_hostname	1095	None	None
60	Unterminated C String	shell-irc.c	ircc_text_output	70	None	None
60	Unterminated C String	shell-tcpsend.c	telnet_text_output	72	None	None
60	Unterminated C String	resolv.c	resolv_set_hostname	1096	None	None
60	Unterminated C String	resolv.c	resolv_set_hostname	1097	None	None
60	Unterminated C String	shell-time.c	process_thread_shell_repeat_server_process	174	None	None
60	Unterminated C String	shell-time.c	process_thread_shell_randwait_process	324	None	None
60	Unterminated C String	shell-time.c	process_thread_shell_repeat_process	251	None	None
60	Unterminated C String	ircc.c	handle_input	379	None	None
59	File System Race Condition	eeprom.c	eeprom_init	82	None	None
59	Unterminated C String	shell-time.c	process_thread_shell_randwait_process	338	None	None
59	Unterminated C String	shell-wget.c	open_url	70	None	None
59	Unterminated C String	shell.c	shell_output_str	386	None	None

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
59	Unterminated C String	shell.c	shell_output_str	389	None	None
59	Unterminated C String	cfs-posix.c	cfs_open	52	None	None
58	Unterminated C String	resolv.c	resolv_lookup	1380	None	None
58	Unterminated C String	resolv.c	resolv_query	1287	None	None
58	Unterminated C String	resolv.c	resolv_query	1312	None	None
58	Unterminated C String	resolv.c	resolv_query	1319	None	None
58	Negative file descriptor	cfs-posix.c	cfs_read	79	None	None
58	Negative file descriptor	cfs-posix.c	cfs_close	73	None	None
58	Negative file descriptor	cfs-posix.c	cfs_seek	100	None	None
58	Buffer Overrun	shell-httpd.c	webserver_log_file	84	None	None
58	Buffer Overrun	shell-powertrace.c	process_thread_shell_powertrace_process	65	None	None
58	Double Close	cfs-posix.c	cfs_close	73	None	None
58	Use After Close	cfs-posix.c	cfs_read	79	None	None
58	Use After Close	cfs-posix.c	cfs_write	85	None	None
58	File System Race Condition	cfs-posix.c	cfs_open	52	None	None
58	Unterminated C String	shell.c	shell_output_str	387	None	None
57	No Space For Null Terminator	resolv.c	resolv_query	1312	None	None

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
51	Type Overrun	shell-base64.c	base64_add_char	105	None	None
49	Null Pointer Dereference	tcpip.c	tcpip_uipcall	792	None	None
48	Null Pointer Dereference	uaadv-rt.c	uaadv_rt_add	80	None	None
48	Null Pointer Dereference	resolv.c	process_thread_resolv_process	1174	None	None
48	Null Pointer Dereference	shell-udpsend.c	process_thread_shell_udpsend_process	101	None	None
48	Coercion Alters Value	contiki-main.c	main	384	None	None
48	Null Pointer Dereference	shell.c	process_thread_shell_kill_process	161	None	None
48	Null Pointer Dereference	nbr-table.c	nbr_table_add_lladdr	368	None	None
47	Null Pointer Dereference	shell.c	shell_output_str	387	None	None
47	Coercion Alters Value	shell-time.c	process_thread_shell_time_process	107	None	None
46	Coercion Alters Value	urlconv.c	urlconv_tofilename	121	None	None
46	Coercion Alters Value	urlconv.c	urlconv_tofilename	125	None	None
46	Null Pointer Dereference	shell-irc.c	ircc_text_output	69	None	None
46	Coercion Alters Value	tapdev.c	tapdev_poll	175	None	None
46	Coercion Alters Value	telnetd.c	sendopt	278	None	None
45	Coercion Alters Value	iff.c	iff	123	None	None
44	Coercion Alters Value	telnetd.c	get_char	258	None	None

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
44	Cast Alters Value	random.c	random_rand	52	None	None
42	Cast Alters Value	telnetd.c	sendopt	277	None	None
42	Cast Alters Value	ircc.c	ircc_connect	474	None	None
42	Cast Alters Value	resolv.c	mdns_write_announce_records	543	None	None
42	Cast Alters Value	dhcpc.c	create_msg	149	None	None
42	Cast Alters Value	uaadv.c	process_thread_uaadv_process	578	None	None
42	Cast Alters Value	uip-fw.c	uip_fw_forward	468	None	None
42	Cast Alters Value	uaadv.c	send_rrep	222	None	None
42	Cast Alters Value	uip-fw.c	uip_fw_forward	469	None	None
42	Cast Alters Value	uip-fw.c	uip_fw_forward	471	None	None
42	Cast Alters Value	uaadv.c	process_thread_uaadv_process	579	None	None
42	Cast Alters Value	uip_arp.c	uip_arp_out	432	None	None
42	Cast Alters Value	resolv.c	process_thread_resolv_process	1174	None	None
42	Cast Alters Value	resolv.c	process_thread_resolv_process	1208	None	None
42	Cast Alters Value	uip_arp.c	uip_arp_arpin	319	None	None
42	Cast Alters Value	resolv.c	newdata	907	None	None
42	Cast Alters Value	uip_arp.c	uip_arp_out	416	None	None

Table 4: telnet-server analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
42	Cast Alters Value	uip_arp.c	uip_arp_out	419	None	None
42	Cast Alters Value	resolv.c	check_entries	756	None	None
42	Cast Alters Value	uip.c	uip_process	1004	None	None
42	Cast Alters Value	uip.c	uip_process	1005	None	None
42	Cast Alters Value	uip.c	uip_process	1007	None	None
42	Cast Alters Value	resolv.c	newdata	1070	None	None
41	Cast Alters Value	uip.c	uip_udp_new	493	None	None
41	Type Underrun	webclient.c	parse_headers	347	None	None
39	Buffer Underrun	nbr-table.c	remove_key	195	None	None
34	Buffer Overrun	telnetd.c	shell_default_output	178	None	None
34	Buffer Overrun	telnetd.c	shell_default_output	181	None	None
33	Buffer Underrun	resolv.c	remove_trailing_dots	1251	None	None
30	Buffer Overrun	telnetd.c	buf_append	126	None	None
27	Ignored Return Value	eeprom.c	eeprom_fill	60	None	None

(Showing 100 of 235 Warnings)

Analysis Metrics

Table 5: telnet-server analysis 1 Metrics

Metric Name	Value
Blank Lines	5295
Code Lines	21024
Comment Lines	23288
Include file instances	122
Lines with Code	22282
Lines with Comments	24546
Mixed Lines	1258
Top-level file instances	122
Total Lines	50865
User-defined functions	714

File Metrics

Table 6: telnet-server analysis 1 File Metrics Summary

Metric Name	Max	Min	Avg
Blank Lines	238	0	16.97
Code Lines	1185	1	67.38
Comment Lines	1302	0	74.64
Cyclomatic Complexity	215	0	9.37
Lines with Code	1274	1	71.42
Lines with Comments	1422	0	78.67
Mixed Lines	120	0	4.03
Modified Cyclomatic Complexity	203	0	8.83
Taint Propagator Total	15	0	0.45
Taint Sink Total	12	0	0.49
Taint Source Total	5	0	0.07
Total Lines	2219	1	163.03

Table 7: telnet-server analysis 1 File Metrics Details

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File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
uip.h	2219	698	1422	578	1302	219
uip.c	1973	1274	550	1185	461	238
resolv.c	1521	1039	313	986	260	222
ctk.h	989	467	506	376	415	107
tcpip.c	849	629	184	582	137	83
uiptopt.h	684	159	487	122	450	75
uaadv.c	616	461	89	442	70	85
shell.c	584	438	87	438	87	59
uip-fw.c	536	267	218	263	214	55
process.h	531	90	386	88	384	57
ircc.c	521	385	67	385	67	69
trickle-timer.h	514	76	418	65	407	31
webclient.c	514	363	96	358	91	60
nbr-table.c	483	331	132	328	129	23
settings.c	475	284	104	281	101	90
queuebuf.c	473	365	103	345	83	25

Table 7: telnet-server analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
slip.c	457	343	90	327	74	40
uip_arp.c	440	209	184	207	182	49
program-handler.c	434	295	127	267	99	40
dhcpc.c	431	337	55	336	54	40
telnetd.c	431	342	65	332	55	34
tapdev6.c	425	287	80	277	70	68
contiki-main.c	424	298	94	283	79	47
shell.h	416	83	293	82	292	41
trickle-timer.c	410	243	128	238	123	44
tcp-socket.c	409	307	66	307	66	36
psock.h	404	59	321	49	311	34
process.c	388	233	113	229	109	46
tcpip.h	378	55	283	53	281	42
packetbuf.h	371	153	185	141	173	45
powertrace.c	360	276	57	274	55	29
shell-time.c	358	228	80	226	78	52
settings.h	352	173	134	156	117	62

Table 7: telnet-server analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
ctk-draw.h	335	27	281	26	280	28
list.c	330	123	182	123	182	25
pt.h	322	57	231	56	230	35
psock.c	319	200	87	200	87	32
shell-crc.c	310	213	59	210	56	41
uip-over-mesh.c	305	199	71	198	70	36
tcp-socket.h	299	63	212	62	211	25
radio.h	294	62	186	61	185	47
shell-file.c	289	209	49	209	49	31
cfs.h	285	61	200	60	199	25
contiki-default-conf.h	285	95	185	63	153	37
httpd-cfs.c	284	212	53	204	45	27
announcement.h	274	35	213	34	212	27
etimer.c	272	171	74	171	74	27
mt.h	263	29	208	28	207	27
shell-power.c	262	185	49	182	46	31
packetbuf.c	254	167	71	166	70	17

Table 7: telnet-server analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
etimer.h	254	23	208	22	207	24
roll-tm.h	244	92	143	84	135	17
uip-nameserver.c	236	155	80	140	65	16
shell-wget.c	230	147	65	144	62	21
frame802154.h	230	101	138	65	102	27
packetqueue.h	222	31	168	30	167	24
tapdev.c	213	137	52	130	45	31
link-stats.c	211	120	77	117	74	17
shell-text.c	211	140	47	139	46	25
linuxradio-drv.c	210	157	34	157	34	19
slipdev.c	203	81	104	80	103	19
tsch-conf.h	201	97	85	90	78	26
udp-socket.c	199	124	55	124	55	20
ipolite.h	197	28	151	27	150	19
elfloader.h	194	40	143	34	137	17
udp-socket.h	193	33	147	32	146	14
polite.h	192	25	150	24	149	18

Table 7: telnet-server analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
shell-tcpsend.c	191	127	48	126	47	17
contiki-conf.h	190	74	96	70	92	24
shell-ping.c	187	117	46	114	43	27
uip-mcast6.h	186	53	122	48	117	16
mtarch.c	185	92	66	84	58	35
aes-128.c	183	108	57	108	57	18
simple-udp.c	183	100	64	100	64	19
shell-irc.c	178	117	45	116	44	17
ccm-star.c	177	111	50	111	50	16
uip-fw.h	176	34	127	30	123	19
ctimer.c	175	112	51	112	51	12
collect.h	171	86	71	74	59	26
rtimer.h	169	37	115	33	111	21
ifft.c	168	94	57	93	56	18
ctimer.h	166	20	133	19	132	14
eeeprom.c	166	87	51	87	51	28
cc.h	165	64	96	47	79	22

Table 7: telnet-server analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
mmem.c	164	49	98	49	98	17
stimer.c	163	36	120	36	120	7
simple-udp.h	163	33	115	32	114	16
telnet.c	162	113	41	112	40	9
gcr.c	162	65	92	57	84	13
uip-split.c	158	77	73	65	61	20
uip-neighbor.c	158	88	56	86	54	16
list.h	157	30	111	29	110	17
energest.h	155	94	44	91	41	20
shell-base64.c	151	94	45	93	44	13
timesynch.h	150	12	125	11	124	14
ringbufindex.c	149	67	78	67	78	4
timer.c	148	30	112	30	112	6
urlconv.c	148	90	58	81	49	9
cfs-coffee.h	146	12	122	11	121	13
clock.h	146	18	115	17	114	14

(Showing 100 of 312 Files)