

CodeSonar Analysis Report

generated by Administrator on Wed Aug 23 15:58:38 2017
for analysis wget analysis 1

Summary

Table 1: wget analysis 1 Summary

Active Warnings	File Count	Project Name	Time Started	Time Finished	Machine
102	229	wget	Mon Mar 27 17:19:58 2017	Mon Mar 27 17:21:41 2017	Jacks-MBP

Warnings

Figure 1: wget analysis 1, Warnings by Class

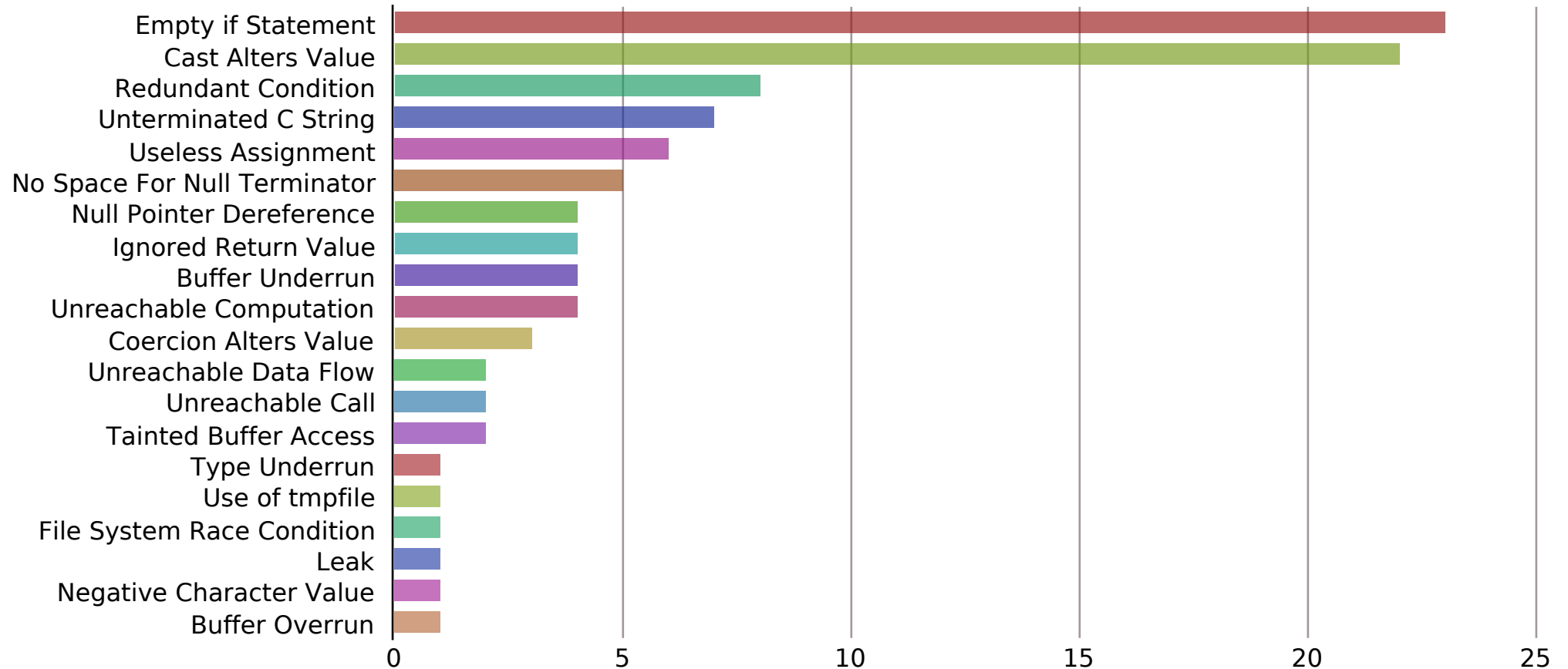


Table 2: wget analysis 1, Warnings by Class

Table 2: wget analysis 1, Warnings by Class

Warning Class	Active Warnings
Empty if Statement	23
Cast Alters Value	22
Redundant Condition	8
Unterminated C String	7
Useless Assignment	6
No Space For Null Terminator	5
Buffer Underrun	4
Null Pointer Dereference	4
Unreachable Computation	4
Ignored Return Value	4
Coercion Alters Value	3
Tainted Buffer Access	2
Unreachable Call	2
Unreachable Data Flow	2
Use of tmpfile	1
File System Race Condition	1

Table 3: wget analysis 1, Warnings by File

Warning Class	Active Warnings
Negative Character Value	1
Leak	1
Type Underrun	1
Buffer Overrun	1

Table 3: wget analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
resolv.c	24	1521	C
uip.c	8	1973	C
eeprom.c	6	166	C
nbr-table.c	5	483	C
wget.c	5	288	C
psock.c	5	319	C
uaadv.c	4	616	C
www.c	4	1020	C
uip_arp.c	4	440	C
udp-socket.c	3	199	C

Table 3: wget analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
cfs-posix.c	3	108	C
uip-fw.c	3	536	C
tcp-socket.c	2	409	C
tapdev.c	2	213	C
ip64-addr.c	2	123	C
webclient.c	2	514	C
tcpip.c	2	849	C
dhcpc.c	2	431	C
rtimer.c	2	108	C
sensors.c	1	137	C
dlloader.c	1	69	C
random.c	1	54	C
contiki-main.c	1	424	C
ctimer.c	1	175	C
tapdev-driv.c	1	111	C
slip.c	1	457	C
uaadv-rt.c	1	146	C

Table 3: wget analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
uip-over-mesh.c	1	305	C
etimer.c	1	272	C
simple-udp.c	1	183	C
uip-fw-drv.c	1	54	C
serial-line.c	1	137	C
ifft.c	1	168	C
uip-mcast6-route.h	0	110	C
smrf.h	0	88	C
assert.c	0	41	C
esmrf.h	0	83	C
uip-neighbor.c	0	158	C
roll-tm.h	0	244	C
energest.c	0	121	C
leds.c	0	119	C
http-strings.c	0	42	C
uip-mcast6-stats.h	0	117	C
settings.h	0	352	C

Table 3: wget analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
rtimer-arch.c	0	92	C
leds.h	0	98	C
symbols.c	0	4	C
symbols.h	0	3	C
ip64-addr.h	0	63	C
settings.c	0	475	C
list.c	0	330	C
html-strings.c	0	105	C
ringbufindex.c	0	149	C
me_tabs.c	0	121	C
symbols.h	0	44	C
cfs-posix-dir.c	0	87	C
compower.h	0	135	C
compower.c	0	98	C
uip-nameserver.c	0	236	C
htmlparser.h	0	65	C
www.h	0	67	C

Table 3: wget analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
html-strings.h	0	35	C
mtarch.h	0	42	C
ifft.h	0	58	C
sensors.h	0	72	C
process.c	0	388	C
uip-split.c	0	158	C
uaadv-def.h	0	145	C
link-stats.c	0	211	C
link-stats.h	0	65	C
procinit.c	0	48	C
print-stats.c	0	87	C
uip-neighbor.h	0	60	C
print-stats.h	0	45	C
mt.c	0	109	C
ctk-textentry-cmdline.h	0	42	C
ccm-star.c	0	177	C
ccm-star.h	0	82	C

Table 3: wget analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
gcr.c	0	162	C
uip_arch.h	0	133	C
webclient.h	0	65	C
uip-split.h	0	95	C
linkaddr.c	0	80	C
slip.h	0	86	C
trickle-timer.c	0	410	C
http-strings.h	0	14	C
nullradio.h	0	8	C
nullradio.c	0	107	C
tapdev-drv.h	0	43	C
assert.h	0	48	C
http-user-agent-string.h	0	1	C
trickle-timer.h	0	514	C
mt.h	0	263	C
mtarch.c	0	185	C
timer.c	0	148	C

Table 4: wget analysis 1, Warning Instances

File	Active Warnings	Total Lines	Language
leds-arch.c	0	70	C
petsciiconv.h	0	79	C
net-debug.c	0	65	C
uip-udp-packet.c	0	102	C
stimer.c	0	163	C

(Showing 100 of 229 Files)

Table 4: wget analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
78	Leak	dlloader.c	dlloader_load	46	None	None
68	Negative Character Value	resolv.c	dns_name_isequal	400	None	None
61	No Space For Null Terminator	resolv.c	remove_trailing_dots	1252	None	None
61	No Space For Null Terminator	www.c	set_url	628	None	None
61	No Space For Null Terminator	www.c	process_thread_www_process	592	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	resolv.c	resolv_set_hostname	1096	None	None

Table 4: wget analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
60	Unterminated C String	resolv.c	resolv_set_hostname	1097	None	None
59	File System Race Condition	eeeprom.c	eeeprom_init	82	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
57	No Space For Null Terminator	resolv.c	resolv_query	1312	None	None
55	Buffer Overrun	www.c	set_link	415	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	Coercion Alters Value	contiki-main.c	main	384	None	None
48	Null Pointer Dereference	nbr-table.c	nbr_table_add_lladdr	368	None	None
46	Coercion Alters Value	tapdev.c	tapdev_poll	175	None	None
46	Buffer Underrun	wget.c	process_thread_wget_process	181	None	None
45	Buffer Underrun	wget.c	process_thread_wget_process	189	None	None
45	Coercion Alters Value	ifft.c	ifft	123	None	None

Table 4: wget 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	Tainted Buffer Access	wget.c	process_thread_wget_process	181	None	None
42	Tainted Buffer Access	wget.c	process_thread_wget_process	189	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: wget 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
33	Buffer Underrun	resolv.c	remove_trailing_dots	1251	None	None
27	Ignored Return Value	eeeprom.c	eeeprom_fill	60	None	None
27	Ignored Return Value	eeeprom.c	eeeprom_init	105	None	None
27	Ignored Return Value	eeeprom.c	eeeprom_read	160	None	None
27	Ignored Return Value	eeeprom.c	eeeprom_write	136	None	None
21	Useless Assignment	cfs-posix.c	cfs_seek	92	None	None
21	Useless Assignment	cfs-posix.c	cfs_seek	94	None	None
21	Useless Assignment	cfs-posix.c	cfs_seek	96	None	None

Table 4: wget analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
21	Useless Assignment	resolv.c	encode_name	464	None	None
21	Useless Assignment	resolv.c	newdata	809	None	None
21	Useless Assignment	tapdev.c	tapdev_init	141	None	None
20	Redundant Condition	ip64-addr.c	ip64_addr_6to4	97	None	None
20	Redundant Condition	nbr-table.c	nbr_table_allocate	234	None	None
20	Redundant Condition	psock.c	data_is_sent_and_acked	144	None	None
20	Redundant Condition	resolv.c	mdns_prep_host_announce_packet	613	None	None
20	Redundant Condition	rtimer.c	rtimer_run_next	101	None	None
20	Redundant Condition	udp-socket.c	udp_socket_sendto	142	None	None
20	Redundant Condition	uip.c	uip_add32	252	None	None
20	Redundant Condition	uip.c	uip_process	709	None	None
18	Unreachable Call	resolv.c	mdns_prep_host_announce_packet	614	None	None
18	Unreachable Call	rtimer.c	rtimer_run_next	102	None	None
17	Unreachable Computation	ip64-addr.c	ip64_addr_6to4	98	None	None
17	Unreachable Computation	udp-socket.c	udp_socket_sendto	147	None	None
17	Unreachable Computation	uip.c	uip_add32	253	None	None
17	Unreachable Computation	uip.c	uip_process	710	None	None

Table 4: wget analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
14	Unreachable Data Flow	nbr-table.c	nbr_get_bit	159	None	None
14	Unreachable Data Flow	nbr-table.c	nbr_set_bit	178	None	None
12	Empty if Statement	ctimer.c	process_thread_ctimer_process	66	None	None
12	Empty if Statement	dhcpc.c	handle_dhcp	275	None	None
12	Empty if Statement	etimer.c	process_thread_etimer_process	84	None	None
12	Empty if Statement	psock.c	psock_generator_send	194	None	None
12	Empty if Statement	psock.c	psock_readbuf_len	280	None	None
12	Empty if Statement	psock.c	psock_readto	253	None	None
12	Empty if Statement	psock.c	psock_send	161	None	None
12	Empty if Statement	resolv.c	process_thread_mdns_probe_process	1122	None	None
12	Empty if Statement	resolv.c	process_thread_resolv_process	1162	None	None
12	Empty if Statement	sensors.c	process_thread_sensors_process	107	None	None
12	Empty if Statement	serial-line.c	process_thread_serial_line_process	92	None	None
12	Empty if Statement	simple-udp.c	process_thread_simple_udp_process	136	None	None
12	Empty if Statement	slip.c	process_thread_slip_process	325	None	None
12	Empty if Statement	tapdev-drv.c	process_thread_tapdev_process	95	None	None
12	Empty if Statement	tcp-socket.c	newdata	124	None	None

Table 4: wget analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
12	Empty if Statement	tcp-socket.c	process_thread_tcp_socket_process	239	None	None
12	Empty if Statement	tcPIP.c	process_thread_tcpip_process	814	None	None
12	Empty if Statement	uaadv.c	process_thread_uaadv_process	574	None	None
12	Empty if Statement	udp-socket.c	process_thread_udp_socket_process	153	None	None
12	Empty if Statement	uip-fw-drv.c	process_thread_uip_fw_process	44	None	None
12	Empty if Statement	uip-over-mesh.c	uip_over_mesh_send	262	None	None
12	Empty if Statement	wget.c	process_thread_wget_process	168	None	None

(Showing 100 of 102 Warnings)

Analysis Metrics

Table 5: wget analysis 1 Metrics

Metric Name	Value
Blank Lines	4391
Code Lines	17679
Comment Lines	19546
Include file instances	89
Lines with Code	18830
Lines with Comments	20697
Mixed Lines	1151
Top-level file instances	89
Total Lines	42767
User-defined functions	569

File Metrics

Table 6: wget analysis 1 File Metrics Summary

Metric Name	Max	Min	Avg
Blank Lines	238	0	19.17
Code Lines	1185	1	77.20
Comment Lines	1302	0	85.35
Cyclomatic Complexity	215	0	9.71
Lines with Code	1274	1	82.23
Lines with Comments	1422	0	90.38
Mixed Lines	120	0	5.03
Modified Cyclomatic Complexity	203	0	9.25
Taint Propagator Total	3	0	0.06
Taint Sink Total	14	0	0.50
Taint Source Total	5	0	0.05
Total Lines	2219	1	186.76

Table 7: wget 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
www.c	1020	760	216	719	175	85
ctk.h	989	467	506	376	415	107
tcpip.c	849	629	184	582	137	83
htmlparser.c	813	646	143	632	129	38
uipopt.h	684	159	487	122	450	75
uaadv.c	616	461	89	442	70	85
uip-fw.c	536	267	218	263	214	55
process.h	531	90	386	88	384	57
webclient.c	514	363	96	358	91	60
trickle-timer.h	514	76	418	65	407	31
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: wget 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
dhcpc.c	431	337	55	336	54	40
tapdev6.c	425	287	80	277	70	68
contiki-main.c	424	298	94	283	79	47
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
settings.h	352	173	134	156	117	62
list.c	330	123	182	123	182	25
pt.h	322	57	231	56	230	35
psock.c	319	200	87	200	87	32
uip-over-mesh.c	305	199	71	198	70	36
tcp-socket.h	299	63	212	62	211	25

Table 7: wget analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
radio.h	294	62	186	61	185	47
wget.c	288	185	83	180	78	25
contiki-default-conf.h	285	95	185	63	153	37
cfs.h	285	61	200	60	199	25
announcement.h	274	35	213	34	212	27
etimer.c	272	171	74	171	74	27
mt.h	263	29	208	28	207	27
packetbuf.c	254	167	71	166	70	17
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
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
linuxradio-driv.c	210	157	34	157	34	19
slipdev.c	203	81	104	80	103	19

Table 7: wget analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
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
contiki-conf.h	190	74	96	70	92	24
uip-mcast6.h	186	53	122	48	117	16
mtarch.c	185	92	66	84	58	35
simple-udp.c	183	100	64	100	64	19
aes-128.c	183	108	57	108	57	18
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

Table 7: wget analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
EEPROM.c	166	87	51	87	51	28
ctimer.h	166	20	133	19	132	14
cc.h	165	64	96	47	79	22
mMem.c	164	49	98	49	98	17
simple-udp.h	163	33	115	32	114	16
stimer.c	163	36	120	36	120	7
gcr.c	162	65	92	57	84	13
uip-neighbor.c	158	88	56	86	54	16
uip-split.c	158	77	73	65	61	20
list.h	157	30	111	29	110	17
energest.h	155	94	44	91	41	20
timesynch.h	150	12	125	11	124	14
ringbufindex.c	149	67	78	67	78	4
timer.c	148	30	112	30	112	6
clock.h	146	18	115	17	114	14
mesh.h	146	24	110	23	109	13
uaadv-rt.c	146	83	49	82	48	15

Table 7: wget analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
uaadv-def.h	145	81	49	76	44	20
abc.h	144	21	108	20	107	16
uilib.c	143	92	41	90	39	12
uip_arp.h	142	23	98	22	97	22
dsc.h	141	41	103	24	86	14
elfloader-arch.h	139	10	120	9	119	10
broadcast.h	139	20	107	19	106	13
linkaddr.h	138	24	103	20	99	15
memb.h	138	21	102	20	101	16
sensors.c	137	77	41	77	41	19
serial-line.c	137	73	50	69	46	18
netstack.h	136	74	65	52	43	19
compower.h	135	12	111	11	110	13
ringbuf.h	135	15	106	14	105	15
arg.c	133	28	98	28	98	7
uip_arch.h	133	9	113	8	112	12

(Showing 100 of 229 Files)