

# CodeSonar Analysis Report

generated by Administrator on Wed Aug 23 15:58:22 2017  
for analysis webserver-ipv6 analysis 1

# Summary

Table 1: webserver-ipv6 analysis 1 Summary

Active Warnings	File Count	Project Name	Time Started	Time Finished	Machine
29	104	webserver-ipv6	Mon Mar 27 17:27:23 2017	Mon Mar 27 17:28:07 2017	Jacks-MBP

Figure 1: webserver-ipv6 analysis 1, Warnings by Class

# Warnings

Figure 1: webserver-ipv6 analysis 1, Warnings by Class

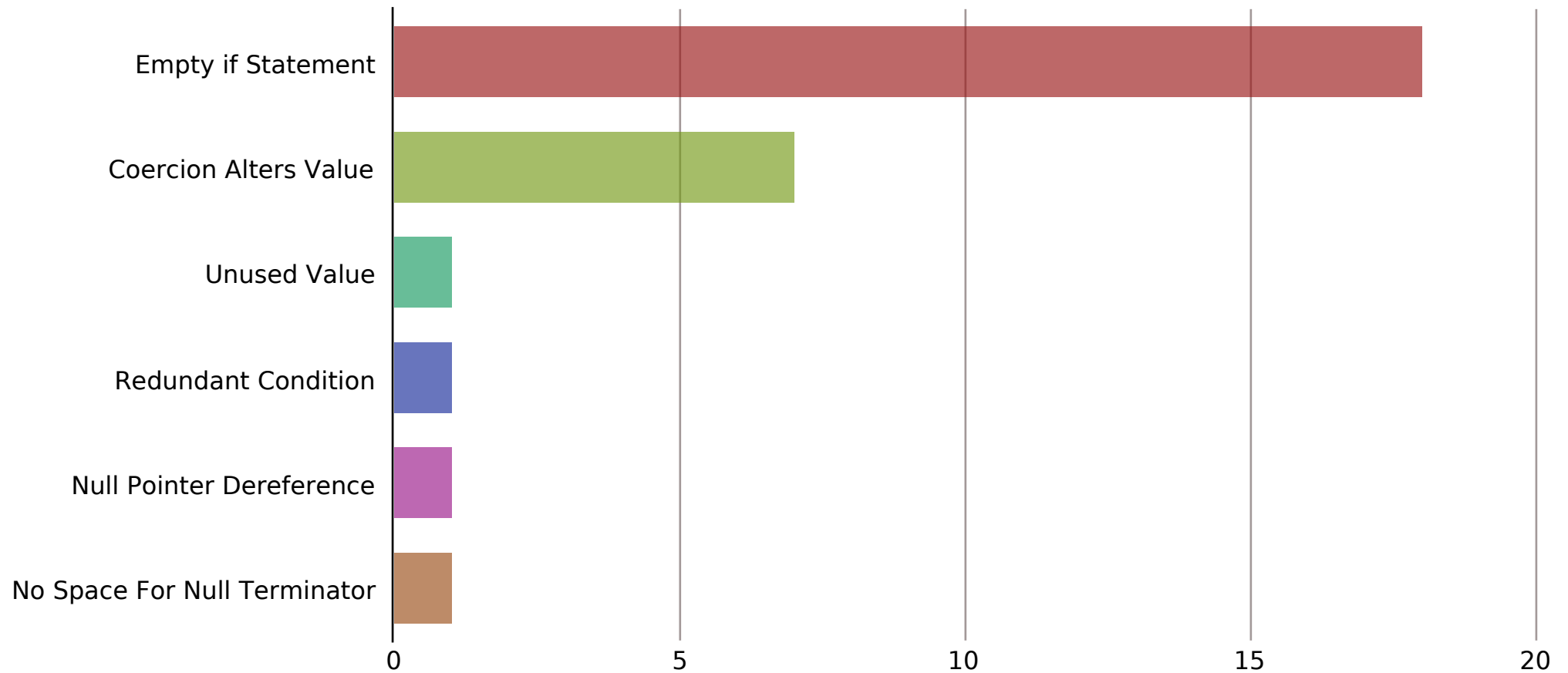


Table 3: webserver-ipv6 analysis 1, Warnings by File

Table 2: webserver-ipv6 analysis 1, Warnings by Class

Warning Class	Active Warnings
Empty if Statement	18
Coercion Alters Value	7
Redundant Condition	1
Unused Value	1
Null Pointer Dereference	1
No Space For Null Terminator	1

Table 3: webserver-ipv6 analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
httpd-cgi.c	15	389	C
httpd.c	7	378	C
psock.c	5	319	C
webserver-nogui.c	1	90	C
httpd-fs.c	1	127	C
http-strings.h	0	36	C

Table 3: webserver-ipv6 analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
petsciiconv.h	0	79	C
httpd.h	0	66	C
httpd-cgi.h	0	56	C
httpd-fs.h	0	58	C
webserver.h	0	44	C
trickle.h	0	94	C
timesynch.h	0	150	C
rucb.h	0	79	C
route.h	0	84	C
rmh.h	0	102	C
rimestats.h	0	69	C
polite.h	0	192	C
polite-announcement.h	0	68	C
netflood.h	0	110	C
route-discovery.h	0	97	C
multihop.h	0	110	C
mesh.h	0	146	C

Table 3: webserver-ipv6 analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
ipolite.h	0	197	C
packetqueue.h	0	222	C
collect-link-estimate.h	0	126	C
collect-neighbor.h	0	107	C
neighbor-discovery.h	0	95	C
queuebuf.h	0	117	C
chameleon.h	0	57	C
channel.h	0	64	C
tsch-conf.h	0	201	C
packetbuf.h	0	371	C
abc.h	0	144	C
broadcast.h	0	139	C
unicast.h	0	90	C
stunicast.h	0	112	C
runicast.h	0	117	C
collect.h	0	171	C
announcement.h	0	274	C

Table 3: webserver-ipv6 analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
rime.h	0	115	C
tcp-socket.h	0	299	C
udp-socket.h	0	193	C
random.h	0	52	C
mmem.h	0	93	C
contiki-lib.h	0	43	C
psock.h	0	404	C
resolv.h	0	106	C
uip-packetqueue.h	0	35	C
uip-ds6-nbr.h	0	124	C
list.h	0	157	C
framer.h	0	54	C
frame802154.h	0	230	C
llsec802154.h	0	96	C
rdc.h	0	93	C
radio.h	0	294	C
mac.h	0	101	C

Table 3: webserver-ipv6 analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
llsec.h	0	80	C
netstack.h	0	136	C
linkaddr.h	0	138	C
nbr-table.h	0	116	C
uip-ds6-route.h	0	207	C
uip-nd6.h	0	575	C
stimer.h	0	97	C
uip-ds6.h	0	385	C
uip-icmp6.h	0	242	C
uip-nameserver.h	0	101	C
simple-udp.h	0	163	C
uip-udp-packet.h	0	49	C
uilib.h	0	80	C
uip_arp.h	0	142	C
uip-fw-drv.h	0	42	C
uip-fw.h	0	176	C
uipopt.h	0	684	C



Table 3: webserver-ipv6 analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
uip.h	0	2219	C
tcpip.h	0	378	C
contiki-net.h	0	65	C
memb.h	0	138	C
energest.h	0	155	C
loader.h	0	132	C
procinit.h	0	44	C
rtimer-arch.h	0	49	C
rtimer.h	0	169	C
etimer.h	0	254	C
ctimer.h	0	166	C
clock.h	0	146	C
timer.h	0	101	C
autostart.h	0	62	C
cc-gcc.h	0	43	C
cc.h	0	165	C
lc-switch.h	0	75	C

Table 4: webserver-ipv6 analysis 1, Warning Instances

File	Active Warnings	Total Lines	Language
lc.h	0	130	C
pt.h	0	322	C
process.h	0	531	C
contiki-default-conf.h	0	285	C
contiki-conf.h	0	190	C
contiki-version.h	0	41	C
contiki.h	0	58	C
http-strings.c	0	108	C
memb.c	0	124	C

(Showing 100 of 104 Files)

Table 4: webserver-ipv6 analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
61	No Space For Null Terminator	httpd-cgi.c	make_processes	213	None	None
46	Coercion Alters Value	httpd-cgi.c	make_addresses	257	None	None
46	Coercion Alters Value	httpd-cgi.c	make_neighbors	285	None	None
46	Coercion Alters Value	httpd-cgi.c	make_routes	319	None	None

Table 4: webserver-ipv6 analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
46	Coercion Alters Value	httpd-cgi.c	make_processes	220	None	None
46	Coercion Alters Value	httpd-cgi.c	generate_file_stats	140	None	None
46	Coercion Alters Value	httpd-cgi.c	make_tcp_stats	175	None	None
43	Null Pointer Dereference	httpd-fs.c	httpd_fs_strcmp	55	None	None
40	Coercion Alters Value	httpd-cgi.c	make_neighbors	295	None	None
23	Unused Value	httpd.c	httpd_sprint_ip6	361	None	None
20	Redundant Condition	psock.c	data_is_sent_and_acked	144	None	None
12	Empty if Statement	httpd-cgi.c	addresses	273	None	None
12	Empty if Statement	httpd-cgi.c	file_stats	146	None	None
12	Empty if Statement	httpd-cgi.c	neighbors	302	None	None
12	Empty if Statement	httpd-cgi.c	nullfunction	118	None	None
12	Empty if Statement	httpd-cgi.c	processes	226	None	None
12	Empty if Statement	httpd-cgi.c	routes	341	None	None
12	Empty if Statement	httpd-cgi.c	tcp_stats	197	None	None
12	Empty if Statement	httpd.c	handle_input	252	None	None
12	Empty if Statement	httpd.c	handle_output	222	None	None
12	Empty if Statement	httpd.c	handle_script	131	None	None

Table 4: webserver-ipv6 analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
12	Empty if Statement	httpd.c	send_file	87	None	None
12	Empty if Statement	httpd.c	send_headers	192	None	None
12	Empty if Statement	httpd.c	send_part_of_file	101	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	webserver-nogui.c	process_thread_webserver_nogui_process	52	None	None

# Analysis Metrics

Table 5: webserver-ipv6 analysis 1 Metrics

Metric Name	Value
Blank Lines	1950
Code Lines	5380
Comment Lines	10516
Include file instances	7
Lines with Code	5960
Lines with Comments	11096
Mixed Lines	580
Top-level file instances	7
Total Lines	18426
User-defined functions	51

# File Metrics

Table 6: webserver-ipv6 analysis 1 File Metrics Summary

Metric Name	Max	Min	Avg
Blank Lines	219	0	18.75
Code Lines	639	4	51.73
Comment Lines	1302	0	101.12
Cyclomatic Complexity	106	0	2.44
Lines with Code	698	6	57.31
Lines with Comments	1422	0	106.69
Mixed Lines	120	0	5.58
Modified Cyclomatic Complexity	91	0	2.19
Taint Propagator Total	0	0	0
Taint Sink Total	8	0	0.16
Taint Source Total	0	0	0
Total Lines	2219	35	177.17

Table 7: webserver-ipv6 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
uiptpt.h	684	159	487	122	450	75
httpd-fsdata.c	675	639	22	639	22	14
uip-nd6.h	575	203	346	183	326	46
process.h	531	90	386	88	384	57
psock.h	404	59	321	49	311	34
httpd-cgi.c	389	291	86	274	69	29
uip-ds6.h	385	208	152	179	123	54
httpd.c	378	281	62	278	59	38
tcpip.h	378	55	283	53	281	42
packetbuf.h	371	153	185	141	173	45
pt.h	322	57	231	56	230	35
psock.c	319	200	87	200	87	32
tcp-socket.h	299	63	212	62	211	25
radio.h	294	62	186	61	185	47
contiki-default-conf.h	285	95	185	63	153	37

Table 7: webserver-ipv6 analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
announcement.h	274	35	213	34	212	27
etimer.h	254	23	208	22	207	24
uip-icmp6.h	242	69	171	38	140	33
frame802154.h	230	101	138	65	102	27
packetqueue.h	222	31	168	30	167	24
uip-ds6-route.h	207	116	70	112	66	25
tsch-conf.h	201	97	85	90	78	26
ipolite.h	197	28	151	27	150	19
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-fw.h	176	34	127	30	123	19
collect.h	171	86	71	74	59	26
rtimer.h	169	37	115	33	111	21
ctimer.h	166	20	133	19	132	14
cc.h	165	64	96	47	79	22
simple-udp.h	163	33	115	32	114	16



Table 7: webserver-ipv6 analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
list.h	157	30	111	29	110	17
energest.h	155	94	44	91	41	20
timesynch.h	150	12	125	11	124	14
clock.h	146	18	115	17	114	14
mesh.h	146	24	110	23	109	13
abc.h	144	21	108	20	107	16
uip_arp.h	142	23	98	22	97	22
broadcast.h	139	20	107	19	106	13
linkaddr.h	138	24	103	20	99	15
memb.h	138	21	102	20	101	16
netstack.h	136	74	65	52	43	19
loader.h	132	28	107	12	91	13
lc.h	130	14	108	10	104	12
httpd-fs.c	127	77	44	71	38	12
collect-link-estimate.h	126	16	94	15	93	17
memb.c	124	56	58	56	58	10
uip-ds6-nbr.h	124	49	68	44	63	12

Table 7: webserver-ipv6 analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
runicast.h	117	28	76	27	75	14
queuebuf.h	117	43	63	36	56	18
nbr-table.h	116	49	55	46	52	15
rime.h	115	43	60	42	59	13
stunicast.h	112	28	70	27	69	15
netflood.h	110	27	72	26	71	12
multihop.h	110	30	68	29	67	13
http-strings.c	108	72	36	72	36	0
collect-neighbor.h	107	42	51	41	50	15
resolv.h	106	25	64	24	63	18
rmh.h	102	29	63	28	62	11
uip-nameserver.h	101	13	82	10	79	9
mac.h	101	24	58	23	57	20
timer.h	101	13	79	12	78	10
route-discovery.h	97	31	56	30	55	11
stimer.h	97	14	74	13	73	10
llsec802154.h	96	33	61	22	50	13

Table 7: webserver-ipv6 analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
neighbor-discovery.h	95	28	57	27	56	11
trickle.h	94	27	55	26	54	13
mmem.h	93	12	73	11	72	9
rdc.h	93	26	56	23	53	14
webserver-nogui.c	90	41	40	39	38	11
unicast.h	90	19	60	18	59	12
route.h	84	25	50	24	49	10
uilib.h	80	11	65	8	62	7
llsec.h	80	10	61	9	60	10
rucb.h	79	30	38	29	37	12
petsciiconv.h	79	11	62	8	59	9
lc-switch.h	75	8	57	7	56	11
rimestats.h	69	20	44	15	39	10
polite-announcement.h	68	6	57	5	56	6
httpd.h	66	26	34	24	32	8
contiki-net.h	65	23	35	21	33	9
channel.h	64	19	38	18	37	8

Table 7: webserver-ipv6 analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
httpd-fsdata.h	63	26	38	21	33	4
autostart.h	62	18	40	15	37	7
contiki.h	58	17	34	16	33	8
httpd-fs.h	58	16	38	13	35	7
chameleon.h	57	13	38	12	37	7
httpd-cgi.h	56	16	33	15	32	8
framer.h	54	9	39	8	38	7
random.h	52	6	43	5	42	4
uip-udp-packet.h	49	7	38	6	37	5
rtimer-arch.h	49	6	38	5	37	6
log.h	45	9	36	6	33	3
procinit.h	44	9	32	8	31	4
webserver-nogui.h	44	7	34	6	33	4
webserver.h	44	7	34	6	33	4
cc-gcc.h	43	9	33	7	31	3
contiki-lib.h	43	8	34	7	33	2

(Showing 100 of 104 Files)