CodeSonar Analysis Report

generated by Administrator on Wed Aug 23 15:51:01 2017

for analysis cc26-web-demo-test analysis 1

Summary

Table 1: cc26-web-demo-test analysis 1 Summary

Active Warnings	File Count	Project Name	Time Started	Time Finished	Machine
49	242	cc26-web-demo-test	Sat Aug 5 13:46:13 2017	Sat Aug 5 13:50:18 2017	Jacks-MacBook-Pro.local

Warnings

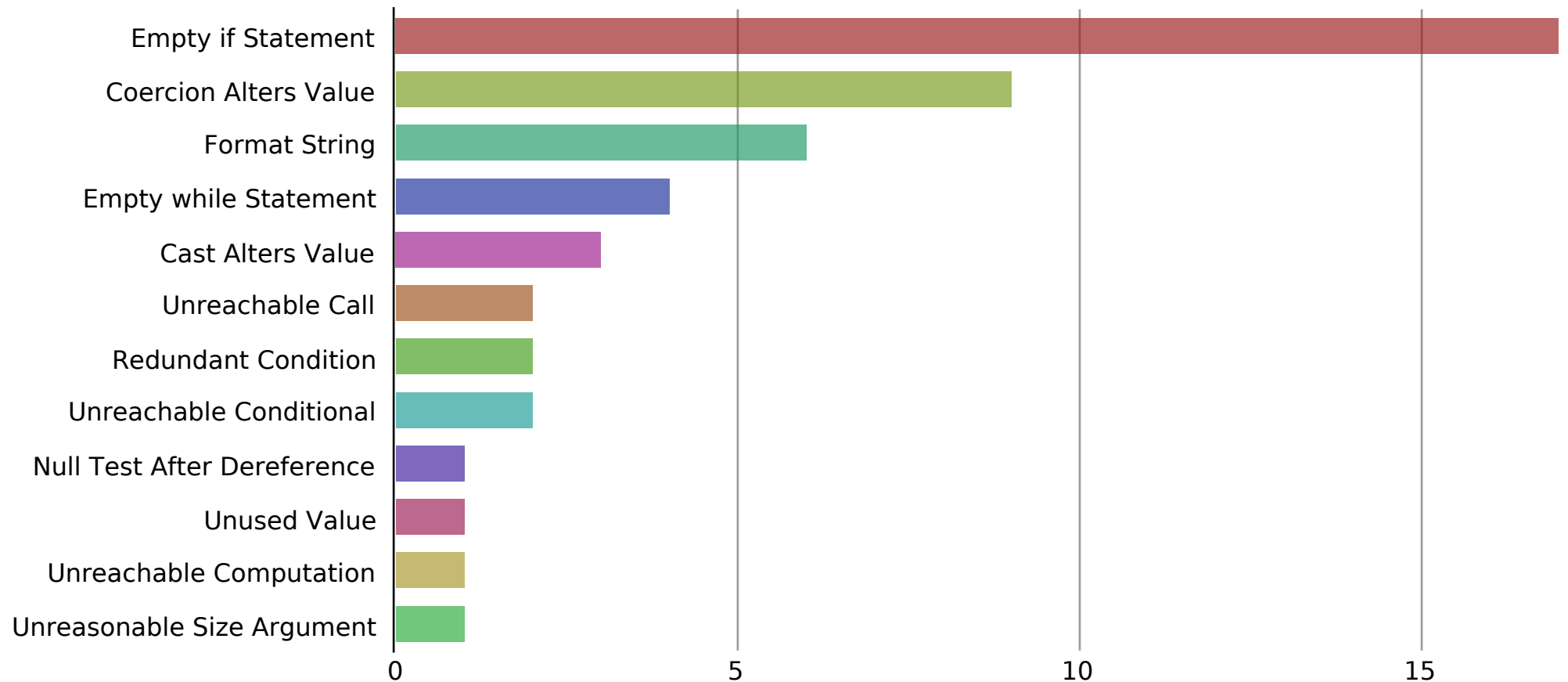## Figure 1: cc26-web-demo-test analysis 1, Warnings by Class

Table 2: cc26-web-demo-test analysis 1, Warnings by Class

Warning Class	Active Warnings
Empty if Statement	17
Coercion Alters Value	9
Format String	6
Empty while Statement	4
Cast Alters Value	3
Unreachable Conditional	2
Redundant Condition	2
Unreachable Call	2
Unused Value	1
Null Test After Dereference	1
Unreasonable Size Argument	1
Unreachable Computation	1

Table 3: cc26-web-demo-test analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
httpd-simple.c	19	1351	C
net-uart.c	7	320	C
mqtt-client.c	5	915	C
cc26xx-web-demo.c	3	972	C
startup_gcc.c	3	301	C
res-device.c	3	207	C
cetic-6lbr-client.c	2	197	C
res-net.c	2	126	C
res-sensors.c	1	269	C
fault-handlers.c	1	54	C
res-ble-advd.c	1	113	C
ieee-addr.c	1	90	C
coap-server.c	1	161	C
net-debug.h	0	86	C
pwr_ctrl.h	0	312	C
esmrf.h	0	83	C
rpl-private.h	0	408	C

File	Active Warnings	Total Lines	Language
res-toggle-leds.c	0	114	C
rpl-ns.h	0	72	C
roll-tm.h	0	244	C
res-leds.c	0	110	C
hw_adi_4_aux.h	0	508	C
hw_aon_wuc.h	0	674	C
hw_aon_rtc.h	0	508	C
hw_adi_2_refsys.h	0	362	C
hw_aon_sysctl.h	0	348	C
aon_event.h	0	633	C
hw_prcm.h	0	1581	C
prcm.h	0	1212	C
hw_ddi_0_osc.h	0	1069	C
uip-mcast6.h	0	186	C
aux_wuc.h	0	355	C
chipinfo.h	0	632	C
uip-mcast6-engines.h	0	56	C

File	Active Warnings	Total Lines	Language
uip-mcast6-stats.h	0	117	C
hw_fcfg1.h	0	2917	C
timesynch.h	0	150	C
ddi.h	0	591	C
rimestats.h	0	69	C
hw_aux_wuc.h	0	705	C
route-discovery.h	0	97	C
hw_aux_anaif.h	0	277	C
packetqueue.h	0	222	C
hw_adi.h	0	1182	C
hw_event.h	0	3284	C
aux_adc.h	0	590	C
packetbuf.h	0	371	C
aon_wuc.h	0	864	C
stunicast.h	0	112	C
aon_rtc.h	0	950	C
hw_aon_ioc.h	0	141	C

File	Active Warnings	Total Lines	Language
aon_ioc.h	0	306	C
hw_aon_event.h	0	1533	C
hw_device.h	0	168	C
hw_ddi.h	0	197	C
hw_aon_batmon.h	0	340	C
aon_batmon.h	0	324	C
ti-lib-rom.h	0	193	C
ti-lib.h	0	561	C
net-uart.h	0	48	C
mqtt-client.h	0	71	C
leds.h	0	98	C
hw_aux_smph.h	0	246	C
rpl.h	0	340	C
uip-mcast6-route.h	0	110	C
rf-core.h	0	441	C
common_cmd.h	0	1031	C
i2c.h	0	1052	C

File	Active Warnings	Total Lines	Language
mailbox.h	0	328	C
stdlib.h	0	335	C
rf-ble.h	0	98	C
er-coap-conf.h	0	74	C
er-coap-constants.h	0	166	C
trickle.h	0	94	C
hw_i2c.h	0	728	C
rucb.h	0	79	C
route.h	0	84	C
rmh.h	0	102	C
rpl-conf.h	0	341	C
polite.h	0	192	C
polite-announcement.h	0	68	C
netflood.h	0	110	C
stdlib.h	0	8	C
multihop.h	0	110	C
mesh.h	0	146	C

File	Active Warnings	Total Lines	Language
ipolite.h	0	197	C
hw_sysctl.h	0	49	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
coap-server.h	0	52	C
abc.h	0	144	C
broadcast.h	0	139	C
unicast.h	0	90	C
cc26xx-web-demo.h	0	227	C
osc.h	0	597	C

(Showing 100 of 242 Files)

Table 4: cc26-web-demo-test analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
60	Unreasonable Size Argument	httpd-simple.c	enqueue_chunk	352	None	None
51	Null Test After Dereference	net-uart.c	process_thread_net_uart_process	263	None	None
47	Coercion Alters Value	res-device.c	res_get_handler_hw	80	None	None
47	Coercion Alters Value	res-device.c	res_get_handler_sw	115	None	None
47	Coercion Alters Value	res-device.c	res_get_handler_uptime	147	None	None
47	Coercion Alters Value	res-net.c	res_get_handler_parent_rssi	55	None	None
47	Coercion Alters Value	res-net.c	res_get_handler_pref_parent	87	None	None
47	Coercion Alters Value	res-sensors.c	res_get_handler_all	57	None	None
46	Coercion Alters Value	httpd-simple.c	enqueue_chunk	352	None	None
46	Coercion Alters Value	cc26xx-web-demo.c	cc26xx_web_demo_ipaddr_sprintf	275	None	None
46	Coercion Alters Value	cc26xx-web-demo.c	cc26xx_web_demo_ipaddr_sprintf	283	None	None
42	Cast Alters Value	net-uart.c	set_config_defaults	243	None	None
42	Cast Alters Value	net-uart.c	process_thread_net_uart_process	261	None	None
41	Cast Alters Value	cetic-6lbr-client.c	timeout_handler	125	None	None
25	Format String	httpd-simple.c	generate_config	533	None	None
25	Format String	httpd-simple.c	generate_index	433	None	None

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
25	Format String	httpd-simple.c	generate_mqtt_config	653	None	None
25	Format String	httpd-simple.c	generate_net_uart_config	816	None	None
25	Format String	httpd-simple.c	generate_top_matter	391	None	None
25	Format String	httpd-simple.c	send_headers	1055	None	None
23	Unused Value	res-ble-advd.c	res_ble_post_put_handler	71	None	None
20	Redundant Condition	mqtt-client.c	process_thread_mqtt_client_process	868	None	None
20	Redundant Condition	net-uart.c	process_thread_net_uart_process	263	None	None
18	Unreachable Call	ieee-addr.c	ieee_addr_cpy_to	51	None	None
18	Unreachable Call	net-uart.c	process_thread_net_uart_process	264	None	None
17	Unreachable Computation	mqtt-client.c	process_thread_mqtt_client_process	869	None	None
15	Unreachable Conditional	mqtt-client.c	process_thread_mqtt_client_process	869	None	None
15	Unreachable Conditional	net-uart.c	process_thread_net_uart_process	265	None	None
12	Empty if Statement	cc26xx-web-demo.c	process_thread_cc26xx_web_demo_process	855	None	None
12	Empty if Statement	cetic-6lbr-client.c	process_thread_cetic_6lbr_client_process	175	None	None
12	Empty if Statement	coap-server.c	process_thread_coap_server_process	127	None	None
12	Empty if Statement	httpd-simple.c	enqueue_chunk	342	None	None
12	Empty if Statement	httpd-simple.c	generate_config	528	None	None

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
12	Empty if Statement	httpd-simple.c	generate_index	429	None	None
12	Empty if Statement	httpd-simple.c	generate_mqtt_config	648	None	None
12	Empty if Statement	httpd-simple.c	generate_net_uart_config	811	None	None
12	Empty if Statement	httpd-simple.c	generate_top_matter	380	None	None
12	Empty if Statement	httpd-simple.c	handle_input	1136	None	None
12	Empty if Statement	httpd-simple.c	handle_output	1070	None	None
12	Empty if Statement	httpd-simple.c	process_thread_httpd_simple_process	1326	None	None
12	Empty if Statement	httpd-simple.c	send_headers	1040	None	None
12	Empty if Statement	httpd-simple.c	send_string	1028	None	None
12	Empty if Statement	mqtt-client.c	process_thread_mqtt_client_process	863	None	None
12	Empty if Statement	mqtt-client.c	subscribe	618	None	None
12	Empty if Statement	net-uart.c	process_thread_net_uart_process	254	None	None
12	Empty while Statement	fault-handlers.c	FaultISR	52	None	None
12	Empty while Statement	startup_gcc.c	FaultISRHandler	280	None	None
12	Empty while Statement	startup_gcc.c	IntDefaultHandler	298	None	None
12	Empty while Statement	startup_gcc.c	NmiSRHandler	262	None	None

Analysis Metrics

Table 5: cc26-web-demo-test analysis 1 Metrics

Metric Name	Value
Blank Lines	8221
Code Lines	32331
Comment Lines	52785
Include file instances	21
Lines with Code	35571
Lines with Comments	56025
Mixed Lines	3240
Top-level file instances	16
Total Lines	96577
User-defined functions	102

File Metrics

Table 6: cc26-web-demo-test analysis 1 File Metrics Summary

Metric Name	Max	Min	Avg
Blank Lines	393	0	33.97
Code Lines	3202	0	133.60
Comment Lines	6249	0	218.12
Cyclomatic Complexity	641	0	4.11
Lines with Code	3203	0	146.99
Lines with Comments	6250	0	231.51
Mixed Lines	570	0	13.39
Modified Cyclomatic Complexity	462	0	3.29
Taint Propagator Total	0	0	0
Taint Sink Total	18	0	0.22
Taint Source Total	0	0	0
Total Lines	9839	2	399.08

Table 7: cc26-web-demo-test analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
hw_ioc.h	9839	3203	6250	3202	6249	387
hw_cpu_scs.h	3885	1348	2145	1347	2144	393
hw_event.h	3284	1001	2091	1000	2090	193
hw_fcfg1.h	2917	1032	1497	1031	1496	389
hw_gpio.h	2247	1042	932	1041	931	274
uip.h	2219	698	1422	578	1302	219
hw_ccfg.h	1910	737	962	736	961	212
hw_gpt.h	1686	545	1006	544	1005	136
hw_prcm.h	1581	407	1036	406	1035	139
hw_aon_event.h	1533	656	860	655	859	18
httpd-simple.c	1351	1042	171	1036	165	144
timer.h	1249	307	926	255	874	68
prcm.h	1212	284	903	256	875	53
hw_adi.h	1182	405	982	188	765	12
uart.h	1166	286	846	250	810	70
ioc.h	1160	300	904	203	807	53

Table 7: cc26-web-demo-test analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
hw_ddi_0_osc.h	1069	373	573	372	572	124
i2c.h	1052	283	702	276	695	74
hw_uart.h	1044	331	625	330	624	89
common_cmd.h	1031	622	674	267	319	90
hw_nvic.h	1026	663	880	93	310	53
cc26xx-web-demo.c	972	723	122	721	120	129
aon_rtc.h	950	288	611	264	587	75
adi.h	929	224	642	223	641	64
mqtt-client.c	915	597	212	597	212	106
aon_wuc.h	864	216	613	194	591	57
reent.h	794	558	220	462	124	112
stdio.h	769	622	126	577	81	66
ssi.h	737	161	553	141	533	43
hw_i2c.h	728	202	465	201	464	62
cdefs.h	707	446	211	415	180	81
hw_aux_wuc.h	705	220	422	219	421	64
gpio.h	704	182	509	146	473	49

Table 7: cc26-web-demo-test analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
uipopt.h	684	159	487	122	450	75
rom.h	678	429	120	409	100	149
hw_aon_wuc.h	674	172	448	171	447	55
aon_event.h	633	113	527	78	492	28
chipinfo.h	632	223	387	191	355	54
hw_trng.h	609	150	398	149	397	62
osc.h	597	145	414	144	413	39
ddi.h	591	151	398	150	397	43
aux_adc.h	590	148	410	147	409	33
uip-nd6.h	575	203	346	183	326	46
ti-lib.h	561	427	110	426	109	25
hw_ssi.h	544	160	340	159	339	45
watchdog.h	543	119	397	114	392	32
process.h	531	90	386	88	384	57
features.h	515	276	205	270	199	40
interrupt.h	510	117	368	116	367	26
mqtt.h	509	212	256	209	253	44

Table 7: cc26-web-demo-test analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
hw_adi_4_aux.h	508	160	310	159	309	39
hw_aon_rtc.h	508	118	352	117	351	39
ccfg.c	482	265	203	202	140	77
hw_adi_3_refsys.h	481	147	295	146	294	40
trng.h	474	110	338	106	334	30
stdint.h	466	388	34	387	33	45
cpu.h	453	168	264	167	263	22
stddef.h	443	313	166	246	99	31
rf-core.h	441	140	275	138	273	28
sys_ctrl.h	439	124	289	121	286	29
ieeefp.h	434	303	68	293	58	73
contiki-conf.h	424	190	194	175	179	55
rpl-private.h	408	258	127	224	93	57
psock.h	404	59	321	49	311	34
uip-ds6.h	385	208	152	179	123	54
tcpip.h	378	55	283	53	281	42
vims.h	375	71	291	66	286	18

Table 7: cc26-web-demo-test analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
packetbuf.h	371	153	185	141	173	45
hw_adi_2_refsys.h	362	114	209	113	208	40
aux_wuc.h	355	82	251	81	250	23
hw_aon_sysctl.h	348	97	225	96	224	27
rpl-conf.h	341	146	183	127	164	31
hw_aon_batmon.h	340	87	218	86	217	36
rpl.h	340	182	155	164	137	21
stdlib.h	335	291	28	277	14	30
mailbox.h	328	177	200	83	106	45
sicslowpan.h	327	111	188	97	174	42
aon_batmon.h	324	70	229	69	228	26
pt.h	322	57	231	56	230	35
net-uart.c	320	172	113	172	113	35
pwr_ctrl.h	312	91	211	82	202	19
systick.h	308	65	224	64	223	20
aon_ioc.h	306	71	220	68	217	18
startup_gcc.c	301	157	174	107	124	20

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
tcp-socket.h	299	63	212	62	211	25
radio.h	294	62	186	61	185	47
hw_wdt.h	290	70	196	69	195	25
config.h	286	218	35	210	27	41
contiki-default-conf.h	285	95	185	63	153	37
hw_aux_anaif.h	277	86	173	85	172	19
announcement.h	274	35	213	34	212	27
res-sensors.c	269	182	76	181	75	12
board.h	264	100	166	95	161	3
er-coap.h	263	175	60	160	45	43
rest-engine.h	258	106	117	95	106	46
etimer.h	254	23	208	22	207	24
_default_types.h	250	214	14	213	13	23
types.h	246	175	55	153	33	38
hw_aux_smph.h	246	47	179	46	178	21
roll-tm.h	244	92	143	84	135	17

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