CodeSonar Analysis Report

generated by Administrator on Wed Aug 23 15:56:55 2017

for analysis slip-radio analysis 1

Summary

Table 1: slip-radio analysis 1 Summary

Active Warnings	File Count	Project Name	Time Started	Time Finished	Machine
6	98	slip-radio	Tue Jul 11 16:58:00 2017	Tue Jul 11 16:58:53 2017	eduECFA.kent.ac.uk

Warnings

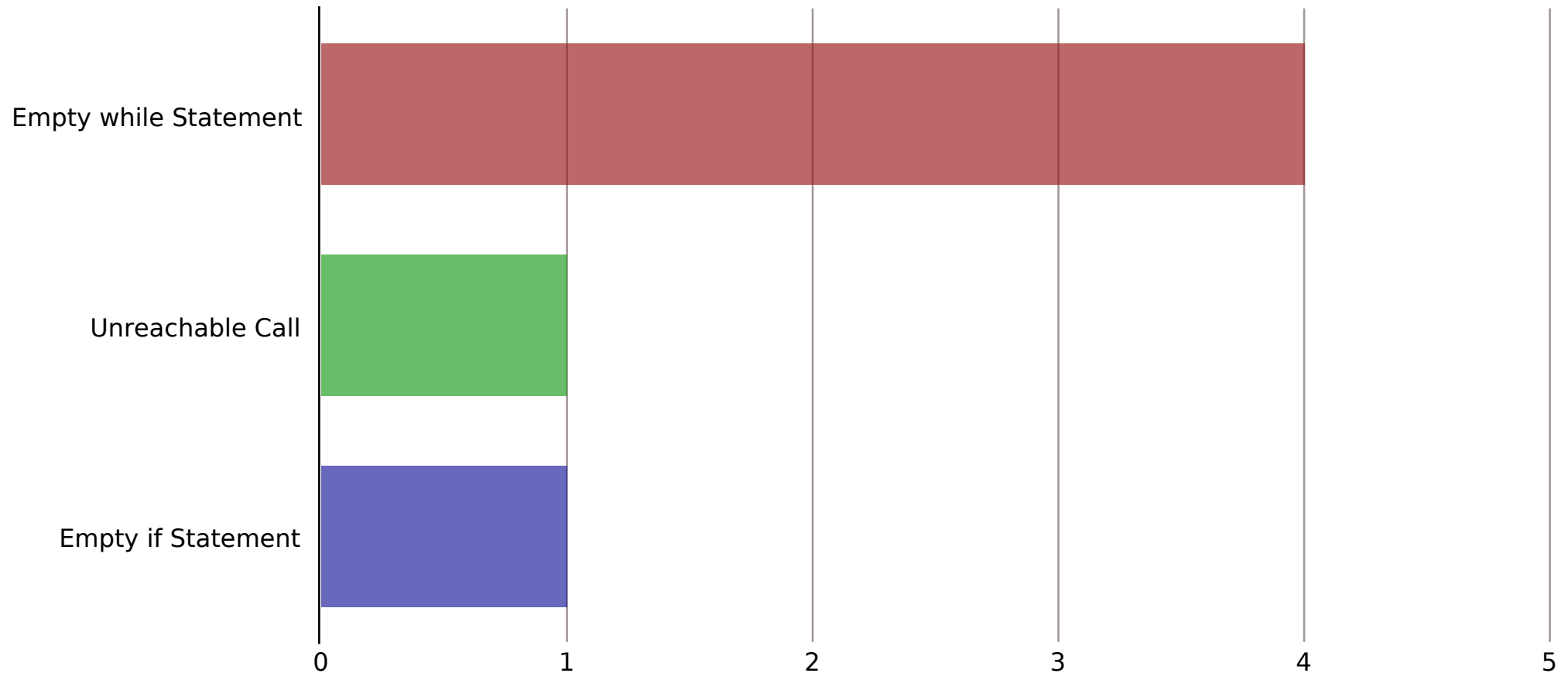Figure 1: slip-radio analysis 1, Warnings by Class

Table 2: slip-radio analysis 1, Warnings by Class

Warning Class	Active Warnings
Empty while Statement	4
Empty if Statement	1
Unreachable Call	1

Table 3: slip-radio analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
startup_gcc.c	3	301	C
fault-handlers.c	1	54	C
slip-radio.c	1	239	C
ieee-addr.c	1	90	C
cmd.h	0	53	C
stdio.h	0	27	C
types.h	0	7	C
_pthreadtypes.h	0	233	C
types.h	0	246	C

File	Active Warnings	Total Lines	Language
stdarg.h	0	127	C
stdio.h	0	769	C
net-debug.h	0	86	C
uip-debug.h	0	57	C
tsch-conf.h	0	201	C
packetbuf.h	0	371	C
slip.h	0	86	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
llsec.h	0	80	C
netstack.h	0	136	C

File	Active Warnings	Total Lines	Language
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
tcpip.h	0	378	C
string.h	0	2	C
cdefs.h	0	707	C
lock.h	0	24	C
_types.h	0	8	C
_types.h	0	213	C
stddef.h	0	443	C
reent.h	0	794	C
ieeefp.h	0	434	C
config.h	0	286	C
newlib.h	0	195	C

File	Active Warnings	Total Lines	Language
_ansi.h	0	140	C
string.h	0	196	C
uipopt.h	0	684	C
uip.h	0	2219	C
energest.h	0	155	C
loader.h	0	132	C
procinit.h	0	44	C
rtimer-arch.h	0	74	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

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-version.h	0	41	C
contiki.h	0	58	C
hw_ccfg_simple_struct.h	0	81	C
hw_ccfg.h	0	1910	C
hw_gpio.h	0	2247	C
gpio.h	0	704	C
hw_cpu_scs.h	0	3885	C
cpu.h	0	453	C
debug.h	0	85	C
hw_nvic.h	0	1026	C
interrupt.h	0	510	C
hw_ints.h	0	113	C
hw_ioc.h	0	9839	C

File	Active Warnings	Total Lines	Language
hw_memmap.h	0	157	C
ioc.h	0	1160	C
board.h	0	264	C
project-conf.h	0	78	C
contiki-conf.h	0	424	C
ccfg.c	0	482	C
setup.h	0	128	C
hw_chip_def.h	0	198	C
stdbool.h	0	54	C
_stdint.h	0	90	C
_intsup.h	0	195	C
_newlib_version.h	0	12	C
features.h	0	515	C
_default_types.h	0	250	C
stdint.h	0	466	C
stdint.h	0	14	C
hw_types.h	0	123	C

File	Active Warnings	Total Lines	Language
rom.h	0	678	C
ieee-addr.h	0	105	C
packetutils.h	0	37	C
slip-radio.h	0	41	C

Table 4: slip-radio analysis 1, Warning Instances

Score	Warning Class	File Name	Procedure Name	Line Number	State	Owner
18	Unreachable Call	ieee-addr.c	ieee_addr_cpy_to	51	None	None
12	Empty if Statement	slip-radio.c	process_thread_slip_radio_process	216	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: slip-radio analysis 1 Metrics

Metric Name	Value
Blank Lines	3739
Code Lines	15008
Comment Lines	21242
Include file instances	10
Lines with Code	16849
Lines with Comments	23083
Mixed Lines	1841
Top-level file instances	5
Total Lines	41830
User-defined functions	12

File Metrics

Table 6: slip-radio analysis 1 File Metrics Summary

Metric Name	Max	Min	Avg
Blank Lines	393	0	38.15
Code Lines	3202	0	153.14
Comment Lines	6249	0	216.76
Cyclomatic Complexity	20	0	0.38
Lines with Code	3203	0	171.93
Lines with Comments	6250	0	235.54
Mixed Lines	570	0	18.79
Modified Cyclomatic Complexity	19	0	0.37
Taint Propagator Total	0	0	0
Taint Sink Total	2	0	0.03
Taint Source Total	0	0	0
Total Lines	9839	2	426.84

Table 7: slip-radio 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_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
ioc.h	1160	300	904	203	807	53
hw_nvic.h	1026	663	880	93	310	53
reent.h	794	558	220	462	124	112
stdio.h	769	622	126	577	81	66
cdefs.h	707	446	211	415	180	81
gpio.h	704	182	509	146	473	49
uipopt.h	684	159	487	122	450	75
rom.h	678	429	120	409	100	149
uip-nd6.h	575	203	346	183	326	46
process.h	531	90	386	88	384	57
features.h	515	276	205	270	199	40

Table 7: slip-radio analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
interrupt.h	510	117	368	116	367	26
ccfg.c	482	265	203	202	140	77
stdint.h	466	388	34	387	33	45
cpu.h	453	168	264	167	263	22
stddef.h	443	313	166	246	99	31
ieeefp.h	434	303	68	293	58	73
contiki-conf.h	424	190	194	175	179	55
uip-ds6.h	385	208	152	179	123	54
tcpip.h	378	55	283	53	281	42
packetbuf.h	371	153	185	141	173	45
pt.h	322	57	231	56	230	35
startup_gcc.c	301	157	174	107	124	20
radio.h	294	62	186	61	185	47
config.h	286	218	35	210	27	41
contiki-default-conf.h	285	95	185	63	153	37
board.h	264	100	166	95	161	3
etimer.h	254	23	208	22	207	24

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
_default_types.h	250	214	14	213	13	23
types.h	246	175	55	153	33	38
slip-radio.c	239	161	63	156	58	20
_pthreadtypes.h	233	116	105	80	69	48
frame802154.h	230	101	138	65	102	27
_types.h	213	149	35	141	27	37
uip-ds6-route.h	207	116	70	112	66	25
tsch-conf.h	201	97	85	90	78	26
hw_chip_def.h	198	111	77	110	76	11
string.h	196	156	29	148	21	19
newlib.h	195	16	151	15	150	29
_intsup.h	195	163	26	162	25	7
rtimer.h	169	37	115	33	111	21
ctimer.h	166	20	133	19	132	14
cc.h	165	64	96	47	79	22
hw_memmap.h	157	113	147	7	41	3
list.h	157	30	111	29	110	17

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
energest.h	155	94	44	91	41	20
clock.h	146	18	115	17	114	14
_ansi.h	140	93	35	92	34	13
linkaddr.h	138	24	103	20	99	15
netstack.h	136	74	65	52	43	19
loader.h	132	28	107	12	91	13
lc.h	130	14	108	10	104	12
setup.h	128	22	97	21	96	10
stdarg.h	127	67	59	54	46	14
uip-ds6-nbr.h	124	49	68	44	63	12
hw_types.h	123	27	84	26	83	13
nbr-table.h	116	49	55	46	52	15
hw_ints.h	113	50	101	5	56	7
ieee-addr.h	105	12	94	9	91	2
timer.h	101	13	79	12	78	10
mac.h	101	24	58	23	57	20
stimer.h	97	14	74	13	73	10

Table 7: slip-radio analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
llsec802154.h	96	33	61	22	50	13
rdc.h	93	26	56	23	53	14
_stdint.h	90	70	12	65	7	13
ieee-addr.c	90	29	55	29	55	6
slip.h	86	13	63	12	62	11
net-debug.h	86	37	44	34	41	8
debug.h	85	14	65	13	64	7
hw_ccfg_simple_struct.h	81	29	71	5	47	5
llsec.h	80	10	61	9	60	10
project-conf.h	78	32	33	31	32	14
lc-switch.h	75	8	57	7	56	11
rtimer-arch.h	74	13	59	12	58	3
autostart.h	62	18	40	15	37	7
contiki.h	58	17	34	16	33	8
uip-debug.h	57	12	42	10	40	5
stdbool.h	54	16	31	13	28	10
fault-handlers.c	54	13	40	13	40	1

Table 7: slip-radio analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
framer.h	54	9	39	8	38	7
cmd.h	53	10	36	9	35	8
procinit.h	44	9	32	8	31	4
cc-gcc.h	43	9	33	7	31	3
slip-radio.h	41	7	32	6	31	3
contiki-version.h	41	6	35	4	33	2
packetutils.h	37	5	29	4	28	4
stdio.h	27	19	5	18	4	4
lock.h	24	18	2	17	1	5
stdint.h	14	14	0	14	0	0
_newlib_version.h	12	7	3	6	2	3
_types.h	8	4	3	4	3	1
types.h	7	3	5	2	4	0
string.h	2	0	2	0	2	0