

CodeSonar Analysis Report

generated by Administrator on Wed Aug 23 15:56:13 2017
for analysis sensniff analysis 1

Summary

Table 1: sensniff analysis 1 Summary

Active Warnings	File Count	Project Name	Time Started	Time Finished	Machine
6	91	sensniff	Mon Jul 10 17:09:48 2017	Mon Jul 10 17:11:54 2017	eduECFA.kent.ac.uk

Warnings

Figure 1: sensniff analysis 1, Warnings by Class

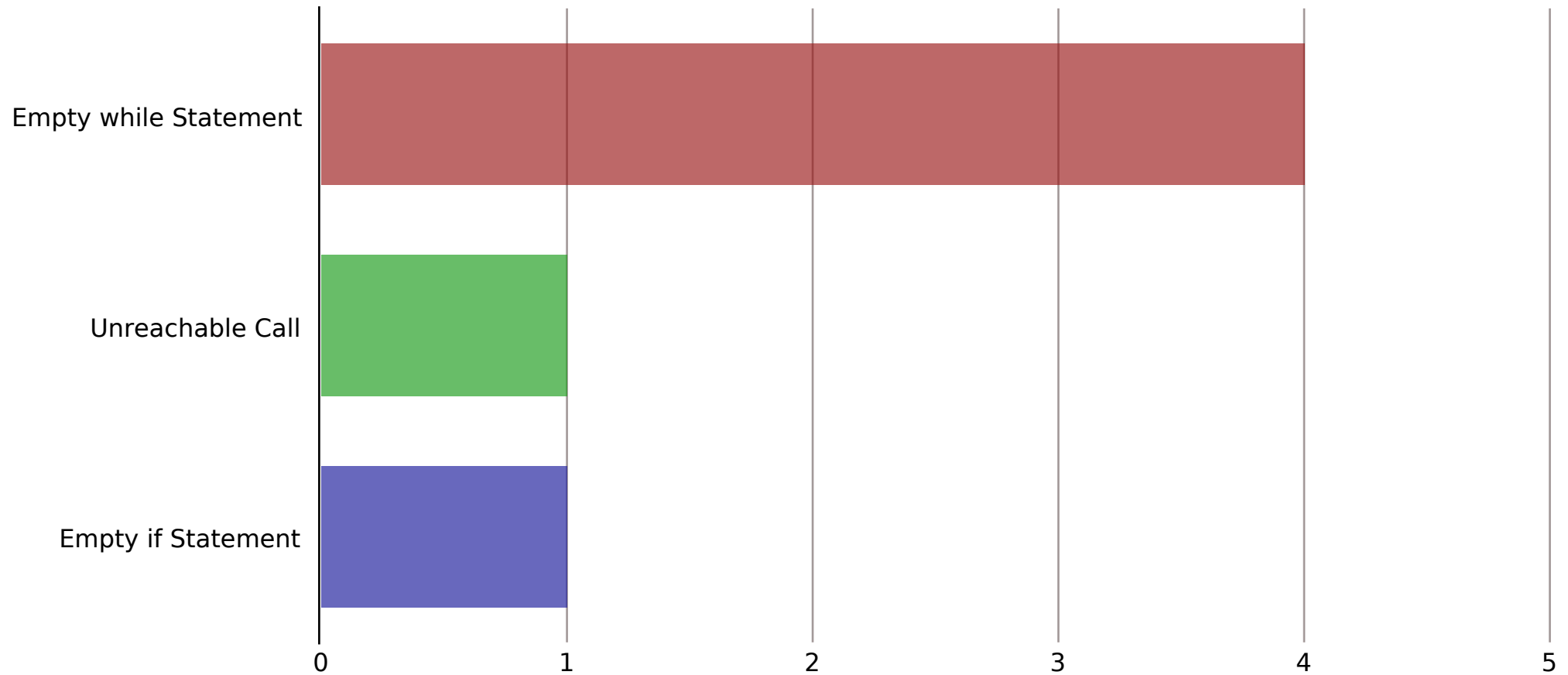


Table 3: sensniff analysis 1, Warnings by File

Table 2: sensniff analysis 1, Warnings by Class

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

Table 3: sensniff analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
startup_gcc.c	3	301	C
ieee-addr.c	1	90	C
fault-handlers.c	1	54	C
sensniff.c	1	344	C
ccfg.c	0	482	C
stdio.h	0	27	C
types.h	0	7	C
_pthreadtypes.h	0	233	C
types.h	0	246	C

Table 3: sensniff analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
stdarg.h	0	127	C
stdio.h	0	769	C
cc26xx-uart.h	0	99	C
cc13xx-cc26xx-io.h	0	43	C
ringbuf.h	0	135	C
tsch-conf.h	0	201	C
packetbuf.h	0	371	C
sensniff.h	0	45	C
framer.h	0	54	C
llsec.h	0	80	C
netstack.h	0	136	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

Table 3: sensniff analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
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
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
tcpip.h	0	378	C
string.h	0	2	C
cdefs.h	0	707	C
lock.h	0	24	C

Table 3: sensniff analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
_types.h	0	8	C
_types.h	0	213	C
reent.h	0	794	C
ieeefp.h	0	434	C
config.h	0	286	C
newlib.h	0	195	C
_ansi.h	0	140	C
string.h	0	196	C
uiptopt.h	0	684	C
uip.h	0	2219	C
linkaddr.h	0	138	C
frame802154.h	0	230	C
llsec802154.h	0	96	C
rdc.h	0	93	C
stddef.h	0	443	C
radio.h	0	294	C
hw_gpio.h	0	2247	C

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File	Active Warnings	Total Lines	Language
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
hw_memmap.h	0	157	C
ioc.h	0	1160	C
board.h	0	264	C
target-conf.h	0	42	C
project-conf.h	0	41	C
contiki-conf.h	0	424	C
mac.h	0	101	C
sensniff-rdc.c	0	94	C
rom.h	0	678	C

Table 3: sensniff analysis 1, Warnings by File

File	Active Warnings	Total Lines	Language
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
setup.h	0	128	C
ieee-addr.h	0	105	C
hw_ccfg_simple_struct.h	0	81	C
hw_ccfg.h	0	1910	C

Table 4: sensniff analysis 1, Warning Instances

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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	sensniff.c	process_thread_sensniff_process	317	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: sensniff analysis 1 Metrics

Metric Name	Value
Blank Lines	3544
Code Lines	14480
Comment Lines	20542
Include file instances	11
Lines with Code	16249
Lines with Comments	22311
Mixed Lines	1769
Top-level file instances	6
Total Lines	40335
User-defined functions	25

File Metrics

Table 6: sensniff analysis 1 File Metrics Summary

Metric Name	Max	Min	Avg
Blank Lines	393	0	38.95
Code Lines	3202	0	159.12
Comment Lines	6249	0	225.74
Cyclomatic Complexity	43	0	0.74
Lines with Code	3203	0	178.56
Lines with Comments	6250	0	245.18
Mixed Lines	570	0	19.44
Modified Cyclomatic Complexity	34	0	0.64
Taint Propagator Total	0	0	0
Taint Sink Total	2	0	0.03
Taint Source Total	0	0	0
Total Lines	9839	2	443.24

Table 7: sensniff analysis 1 File Metrics Details

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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
process.h	531	90	386	88	384	57
features.h	515	276	205	270	199	40
interrupt.h	510	117	368	116	367	26

Table 7: sensniff analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
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
tcpip.h	378	55	283	53	281	42
packetbuf.h	371	153	185	141	173	45
sensniff.c	344	246	63	246	63	35
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
_default_types.h	250	214	14	213	13	23

Table 7: sensniff analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
types.h	246	175	55	153	33	38
_pthreadtypes.h	233	116	105	80	69	48
frame802154.h	230	101	138	65	102	27
_types.h	213	149	35	141	27	37
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
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

Table 7: sensniff analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
netstack.h	136	74	65	52	43	19
ringbuf.h	135	15	106	14	105	15
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
hw_types.h	123	27	84	26	83	13
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
cc26xx-uart.h	99	8	86	7	85	6
llsec802154.h	96	33	61	22	50	13
sensniff-rdc.c	94	48	46	48	46	0
rdc.h	93	26	56	23	53	14
ieee-addr.c	90	29	55	29	55	6
_stdint.h	90	70	12	65	7	13

Table 7: sensniff analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
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
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
stdbool.h	54	16	31	13	28	10
fault-handlers.c	54	13	40	13	40	1
framer.h	54	9	39	8	38	7
sensniff.h	45	8	37	7	36	1
procinit.h	44	9	32	8	31	4
cc-gcc.h	43	9	33	7	31	3
cc13xx-cc26xx-io.h	43	8	36	7	35	0
target-conf.h	42	7	36	6	35	0
project-conf.h	41	6	36	5	35	0
contiki-version.h	41	6	35	4	33	2

Table 7: sensniff analysis 1 File Metrics Details

File	Total Lines	Lines with Code	Lines with Comments	Code Lines	Comment Lines	Blank Lines
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