

Alibaba Cloud Report

Alibaba config list: https://github.com/wenhuizhang/kconfig-safety-check/tree/master/config_files/alibaba

Tool usage: `"/bin/kconfig-safety-check -p X86_64 -c ./config_files/aws/* -m show_fail -e prod"`

1. config-2.6.18-371.11.1.el5.x86_64-centos5

```
1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-2.6.18-371.11.1.el
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-2.6.18-371.11.1.el5.x86_64-centos
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 2.6.18
6 2.6.18
7 =====
8           option name           | type | desired val | decision |      reason
9 =====
10 CONFIG_KEXEC                   | kconfig | n           | ELISA_safety | Kernel Memory:K
11 CONFIG_KPROBES                  | kconfig | n           | ELISA_safety | Stack memory:En
12 CONFIG_KALLSYMS                 | kconfig | n           | ELISA_safety | Stack memory:En
13 CONFIG_PROVE_LOCKING            | kconfig | y           | ELISA_safety | Debug:Kernel mo
14 CONFIG_DEBUG_RT_MUTEXES         | kconfig | y           | ELISA_safety | Debug:RT mutex
15 CONFIG_DEBUG_SPINLOCK           | kconfig | y           | ELISA_safety | Debug:RT mutex
16 CONFIG_DEBUG_MUTEXES            | kconfig | y           | ELISA_safety | Debug:RT mutex
17 CONFIG_DEBUG_LOCK_ALLOC         | kconfig | y           | ELISA_safety | Debug:RT mutex
18 CONFIG_DEBUG_LOCKING_API_SELFTESTS | kconfig | y           | ELISA_safety | Debug:RT mutex
19 CONFIG_RCU_TORTURE_TEST         | kconfig | y           | ELISA_safety | Debug:RT mutex
20
21 [+] Config check is finished: 'OK' - 2 (suppressed in output) / 'FAIL' - 10
```

2. config-2.6.32-754.35.1.el6.x86_64-centos6

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-2.6.32-754.35.1.e
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-2.6.32-754.35.1.el6.x86_64-centos
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 2.6.32
6 2.6.32
7 =====
8          option name          | type | desired val | decision |          reason
9 =====
10 CONFIG_SLUB_DEBUG             | kconfig | y           | ELISA_safety | Memory manageme
11 CONFIG_DEBUG_SG                | kconfig | y           | ELISA_safety | Driver: Heap ov
12 CONFIG_KMEM                   | kconfig | n           | Intel      | Kernel Memory:Ker
13 CONFIG_DEVPORT                | kconfig | n           | ELISA_safety, Intel | Kernel M
14 CONFIG_HIBERNATION            | kconfig | n           | ELISA_safety | Kernel Memory:K
15 CONFIG_KEXEC                  | kconfig | n           | ELISA_safety | Kernel Memory:K
16 CONFIG_COMPAT_BRK             | kconfig | n           | ELISA_safety | Heap memory:R/W
17 CONFIG_KPROBES                | kconfig | n           | ELISA_safety | Stack memory:En
18 CONFIG_PROC_KCORE             | kconfig | n           | ELISA_safety | Stack memory:En
19 CONFIG_KALLSYMS               | kconfig | n           | ELISA_safety | Stack memory:En
20 CONFIG_PROVE_LOCKING          | kconfig | y           | ELISA_safety | Debug:Kernel mo
21 CONFIG_DEBUG_RT_MUTEXES       | kconfig | y           | ELISA_safety | Debug:RT mutex
22 CONFIG_DEBUG_NOTIFIERS        | kconfig | y           | ELISA_safety | Debug:Notificat
23 CONFIG_LOCK_STAT              | kconfig | y           | ELISA_safety | Debug:Notificat
24 CONFIG_DEBUG_SPINLOCK         | kconfig | y           | ELISA_safety | Debug:RT mutex
25 CONFIG_DEBUG_MUTEXES          | kconfig | y           | ELISA_safety | Debug:RT mutex
26 CONFIG_DEBUG_LOCK_ALLOC       | kconfig | y           | ELISA_safety | Debug:RT mutex
27 CONFIG_DEBUG_LOCKING_API_SELFTESTS | kconfig | y           | ELISA_safety | Debug:RT mutex
28 CONFIG_RCU_TORTURE_TEST       | kconfig | y           | ELISA_safety | Debug:RT mutex
29 CONFIG_SECURITY_WRITABLE_HOOKS | kconfig | n           | ELISA_security | Linux Securit
30 CONFIG_SECURITY_INFINIBAND    | kconfig | y           | ELISA_security | Linux Securit
31 CONFIG_SECURITY_PATH          | kconfig | y           | ELISA_security | Linux Securit
32 CONFIG_LSM_MMAP_MIN_ADDR      | kconfig | y           | ELISA_security | Linux Securit
33 CONFIG_HAVE_HARDENED_USERCOPY_ALLOCATOR | kconfig | y           | ELISA_security | Linux Securit
34 CONFIG_STATIC_USERMODEHELPER  | kconfig | y           | ELISA_security | Linux Securit
35 CONFIG_STATIC_USERMODEHELPER_PATH | kconfig | y           | ELISA_security | Linux Securit
36 CONFIG_DEFAULT_SECURITY_DAC   | kconfig | y           | ELISA_security | Linux Securit
37
38 [+] Config check is finished: 'OK' - 14 (suppressed in output) / 'FAIL' - 27

```

3. config-3.10.0-1160.62.1.el7.x86_64-centos7

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-3.10.0-1160.62.1.e
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-3.10.0-1160.62.1.el7.x86_64-cento
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 3.10.0
6 3.10.0
7 =====
8          option name          | type | desired val | decision |          reason
9 =====
10 CONFIG_DEBUG_SG              | kconfig | y          | ELISA_safety | Driver: Heap ov
11 CONFIG_KMEM                   | kconfig | n          | Intel      | Kernel Memory:Ker
12 CONFIG_DEVPORT                | kconfig | n          | ELISA_safety, Intel | Kernel M
13 CONFIG_ACPI_CUSTOM_METHOD    | kconfig | n          | ELISA_safety | Kernel Memory:K
14 CONFIG_LEGACY_PTYS            | kconfig | n          | ELISA_safety | Kernel Memory:K
15 CONFIG_HIBERNATION            | kconfig | n          | ELISA_safety | Kernel Memory:K
16 CONFIG_KEXEC                  | kconfig | n          | ELISA_safety | Kernel Memory:K
17 CONFIG_SECURITY_DMESG_RESTRICT | kconfig | y          | ELISA_safety | Kernel Memory:D
18 CONFIG_COMPAT_BRK             | kconfig | n          | ELISA_safety | Heap memory:R/W
19 CONFIG_KPROBES                | kconfig | n          | ELISA_safety | Stack memory:En
20 CONFIG_PROC_KCORE             | kconfig | n          | ELISA_safety | Stack memory:En
21 CONFIG_KALLSYMS               | kconfig | n          | ELISA_safety | Stack memory:En
22 CONFIG_PROVE_LOCKING          | kconfig | y          | ELISA_safety | Debug:Kernel mo
23 CONFIG_DEBUG_RT_MUTEXES       | kconfig | y          | ELISA_safety | Debug:RT mutex
24 CONFIG_DEBUG_NOTIFIERS        | kconfig | y          | ELISA_safety | Debug:Notificat
25 CONFIG_LOCK_STAT              | kconfig | y          | ELISA_safety | Debug:Notificat
26 CONFIG_DEBUG_SPINLOCK         | kconfig | y          | ELISA_safety | Debug:RT mutex
27 CONFIG_DEBUG_MUTEXES          | kconfig | y          | ELISA_safety | Debug:RT mutex
28 CONFIG_DEBUG_LOCK_ALLOC       | kconfig | y          | ELISA_safety | Debug:RT mutex
29 CONFIG_DEBUG_LOCKING_API_SELFTESTS | kconfig | y          | ELISA_safety | Debug:RT mutex
30 CONFIG_RCU_TORTURE_TEST       | kconfig | y          | ELISA_safety | Debug:RT mutex
31 CONFIG_DEBUG_ATOMIC_SLEEP     | kconfig | y          | ELISA_safety | Debug:RT mutex
32 CONFIG_SECURITY_WRITABLE_HOOKS | kconfig | n          | ELISA_security | Linux Securit
33 CONFIG_LSM_MMAP_MIN_ADDR      | kconfig | y          | ELISA_security | Linux Securit
34 CONFIG_STATIC_USERMODEHELPER  | kconfig | y          | ELISA_security | Linux Securit
35 CONFIG_STATIC_USERMODEHELPER_PATH | kconfig | y          | ELISA_security | Linux Securit
36 CONFIG_DEFAULT_SECURITY_DAC   | kconfig | y          | ELISA_security | Linux Securit
37
38 [+] Config check is finished: 'OK' - 18 (suppressed in output) / 'FAIL' - 27

```

4. config-4.18.0-348.7.1.el8_5.x86_64-centos8

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.18.0-348.7.1.el8
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.18.0-348.7.1.el8_5.x86_64-cento
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.18.0
6 4.18.0

```

=====					
	option name	type	desired val	decision	reason
=====					
10	CONFIG_SLAB_FREELIST_HARDENED	kconfig	y	ELISA_safety, Intel Memory m	
11	CONFIG_REFCOUNT_FULL	kconfig	y	ELISA_safety Kernel Memory r	
12	CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety GCC, plugins, S	
13	CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety GCC, plugins, S	
14	CONFIG_SCHED_STACK_END_CHECK	kconfig	y	ELISA_safety, Intel Stack me	
15	CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety Stack memory:St	
16	CONFIG_DEBUG_SG	kconfig	y	ELISA_safety Driver: Heap ov	
17	CONFIG_KMEM	kconfig	n	Intel Kernel Memory:Ker	
18	CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel Kernel M	
19	CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel Kernel M	
20	CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety Kernel Memory:K	
21	CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety Kernel Memory:K	
22	CONFIG_HIBERNATION	kconfig	n	ELISA_safety Kernel Memory:K	
23	CONFIG_KEXEC	kconfig	n	ELISA_safety Kernel Memory:K	
24	CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety Kernel Memory:K	
25	CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety Kernel Memory:K	
26	CONFIG_SECURITY_DMESG_RESTRICT	kconfig	y	ELISA_safety Kernel Memory:D	
27	CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety Heap memory:R/W	
28	CONFIG_USERFAULTFD	kconfig	n	ELISA_safety Heap memory:R/W	
29	CONFIG_DEBUG_WX	kconfig	y	ELISA_safety Kernel Memory:W	
30	CONFIG_KPROBES	kconfig	n	ELISA_safety Stack memory:En	
31	CONFIG_PROC_KCORE	kconfig	n	ELISA_safety Stack memory:En	
32	CONFIG_KALLSYMS	kconfig	n	ELISA_safety Stack memory:En	
33	CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety Debug:Kernel mo	
34	CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety Debug:Kernel mo	
35	CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
36	CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety Debug:Notificat	
37	CONFIG_LOCK_STAT	kconfig	y	ELISA_safety Debug:Notificat	
38	CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety Debug:RT mutex	
39	CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
40	CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety Debug:RT mutex	
41	CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety Debug:RT mutex	
42	CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety Debug:RT mutex	
43	CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
44	CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety Debug:RT mutex	
45	CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
46	CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety Debug:RT mutex	
47	CONFIG_LIVEPATCH	kconfig	n	ELISA_safety Live Patch	
48	CONFIG_DEVMEM	kconfig	y	ELISA_safety Kernel Memory:K	
49	CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security Linux Securit	
50	CONFIG_SECURITY_PATH	kconfig	y	ELISA_security Linux Securit	
51	CONFIG_LSM_MMAP_MIN_ADDR	kconfig	y	ELISA_security Linux Securit	

```
52 CONFIG_STATIC_USERMODEHELPER      |kconfig|      y      |ELISA_security|Linux Securit
53 CONFIG_STATIC_USERMODEHELPER_PATH  |kconfig|      y      |ELISA_security|Linux Securit
54 CONFIG_DEFAULT_SECURITY_DAC        |kconfig|      y      |ELISA_security|Linux Securit
55
56 [+] Config check is finished: 'OK' - 32 (suppressed in output) / 'FAIL' - 45
```

5. config-4.4.0-93-generic-ubuntu14

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.4.0-93-generic-u
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.4.0-93-generic-ubuntu14
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.4.0
6 4.4.0
7 =====
8          option name          | type | desired val | decision |          reason
9 =====
10 CONFIG_DEBUG_LIST            |kconfig|      y      |ELISA_safety, Intel|Heap mem
11 CONFIG_DEBUG_SG               |kconfig|      y      |ELISA_safety|Driver: Heap ov
12 CONFIG_KMEM                   |kconfig|      n      |Intel      |Kernel Memory:Ker
13 CONFIG_DEVMEM                 |kconfig|      n      |ELISA_safety, Intel|Kernel M
14 CONFIG_DEVPORT                |kconfig|      n      |ELISA_safety, Intel|Kernel M
15 CONFIG_ACPI_CUSTOM_METHOD     |kconfig|      n      |ELISA_safety|Kernel Memory:K
16 CONFIG_LEGACY_PTYS            |kconfig|      n      |ELISA_safety|Kernel Memory:K
17 CONFIG_HIBERNATION            |kconfig|      n      |ELISA_safety|Kernel Memory:K
18 CONFIG_KEXEC                  |kconfig|      n      |ELISA_safety|Kernel Memory:K
19 CONFIG_SECURITY_DMESG_RESTRICT|kconfig|      y      |ELISA_safety|Kernel Memory:D
20 CONFIG_COMPAT_BRK             |kconfig|      n      |ELISA_safety|Heap memory:R/W
21 CONFIG_USERFAULTFD            |kconfig|      n      |ELISA_safety|Heap memory:R/W
22 CONFIG_DEBUG_WX               |kconfig|      y      |ELISA_safety|Kernel Memory:W
23 CONFIG_KPROBES                |kconfig|      n      |ELISA_safety|Stack memory:En
24 CONFIG_PROC_KCORE             |kconfig|      n      |ELISA_safety|Stack memory:En
25 CONFIG_KALLSYMS               |kconfig|      n      |ELISA_safety|Stack memory:En
26 CONFIG_PROVE_LOCKING          |kconfig|      y      |ELISA_safety|Debug:Kernel mo
27 CONFIG_DEBUG_RT_MUTEXES       |kconfig|      y      |ELISA_safety| Debug:RT mutex
28 CONFIG_DEBUG_NOTIFIERS        |kconfig|      y      |ELISA_safety|Debug:Notificat
29 CONFIG_LOCK_STAT              |kconfig|      y      |ELISA_safety|Debug:Notificat
30 CONFIG_DEBUG_SPINLOCK         |kconfig|      y      |ELISA_safety| Debug:RT mutex
31 CONFIG_DEBUG_MUTEXES          |kconfig|      y      |ELISA_safety| Debug:RT mutex
32 CONFIG_DEBUG_WW_MUTEX_SLOWPATH|kconfig|      y      |ELISA_safety| Debug:RT mutex
33 CONFIG_DEBUG_LOCK_ALLOC       |kconfig|      y      |ELISA_safety| Debug:RT mutex
34 CONFIG_DEBUG_LOCKING_API_SELFTESTS|kconfig|      y      |ELISA_safety| Debug:RT mutex
35 CONFIG_LOCK_TORTURE_TEST       |kconfig|      y      |ELISA_safety| Debug:RT mutex
36 CONFIG_RCU_TORTURE_TEST        |kconfig|      y      |ELISA_safety| Debug:RT mutex
37 CONFIG_DEBUG_ATOMIC_SLEEP     |kconfig|      y      |ELISA_safety| Debug:RT mutex
38 CONFIG_LIVEPATCH              |kconfig|      n      |ELISA_safety| Live Patch
39 CONFIG_DEVMEM                 |kconfig|      y      |ELISA_safety|Kernel Memory:K
40 CONFIG_SECURITY_WRITABLE_HOOKS|kconfig|      n      |ELISA_security|Linux Securit
41 CONFIG_SECURITY_INFINIBAND     |kconfig|      y      |ELISA_security|Linux Securit
42 CONFIG_LSM_MMAP_MIN_ADDR       |kconfig|      y      |ELISA_security|Linux Securit
43 CONFIG_HAVE_HARDENED_USERCOPY_ALLOCATOR|kconfig|      y      |ELISA_security|Linux Securit
44 CONFIG_STATIC_USERMODEHELPER   |kconfig|      y      |ELISA_security|Linux Securit
45 CONFIG_STATIC_USERMODEHELPER_PATH|kconfig|      y      |ELISA_security|Linux Securit
46 CONFIG_DEFAULT_SECURITY_DAC    |kconfig|      y      |ELISA_security|Linux Securit
47
48 [+] Config check is finished: 'OK' - 16 (suppressed in output) / 'FAIL' - 37

```

6. config-4.4.0-210-generic-ubuntu16


```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.4.0-210-generic
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.4.0-210-generic-ubuntu16
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.4.0
6 4.4.0
7 =====
8 option name | type | desired val | decision | reason
9 =====
10 CONFIG_DEBUG_LIST | kconfig | y | ELISA_safety, Intel | Heap mem
11 CONFIG_DEBUG_SG | kconfig | y | ELISA_safety | Driver: Heap ov
12 CONFIG_KMEM | kconfig | n | Intel | Kernel Memory:Ker
13 CONFIG_DEVMEM | kconfig | n | ELISA_safety, Intel | Kernel M
14 CONFIG_DEVPORT | kconfig | n | ELISA_safety, Intel | Kernel M
15 CONFIG_ACPI_CUSTOM_METHOD | kconfig | n | ELISA_safety | Kernel Memory:K
16 CONFIG_LEGACY_PTYS | kconfig | n | ELISA_safety | Kernel Memory:K
17 CONFIG_HIBERNATION | kconfig | n | ELISA_safety | Kernel Memory:K
18 CONFIG_KEXEC | kconfig | n | ELISA_safety | Kernel Memory:K
19 CONFIG_SECURITY_DMESG_RESTRICT | kconfig | y | ELISA_safety | Kernel Memory:D
20 CONFIG_COMPAT_BRK | kconfig | n | ELISA_safety | Heap memory:R/W
21 CONFIG_USERFAULTFD | kconfig | n | ELISA_safety | Heap memory:R/W
22 CONFIG_DEBUG_WX | kconfig | y | ELISA_safety | Kernel Memory:W
23 CONFIG_KPROBES | kconfig | n | ELISA_safety | Stack memory:En
24 CONFIG_PROC_KCORE | kconfig | n | ELISA_safety | Stack memory:En
25 CONFIG_KALLSYMS | kconfig | n | ELISA_safety | Stack memory:En
26 CONFIG_PROVE_LOCKING | kconfig | y | ELISA_safety | Debug:Kernel mo
27 CONFIG_DEBUG_RT_MUTEXES | kconfig | y | ELISA_safety | Debug:RT mutex
28 CONFIG_DEBUG_NOTIFIERS | kconfig | y | ELISA_safety | Debug:Notificat
29 CONFIG_LOCK_STAT | kconfig | y | ELISA_safety | Debug:Notificat
30 CONFIG_DEBUG_SPINLOCK | kconfig | y | ELISA_safety | Debug:RT mutex
31 CONFIG_DEBUG_MUTEXES | kconfig | y | ELISA_safety | Debug:RT mutex
32 CONFIG_DEBUG_WW_MUTEX_SLOWPATH | kconfig | y | ELISA_safety | Debug:RT mutex
33 CONFIG_DEBUG_LOCK_ALLOC | kconfig | y | ELISA_safety | Debug:RT mutex
34 CONFIG_DEBUG_LOCKING_API_SELFTESTS | kconfig | y | ELISA_safety | Debug:RT mutex
35 CONFIG_LOCK_TORTURE_TEST | kconfig | y | ELISA_safety | Debug:RT mutex
36 CONFIG_RCU_TORTURE_TEST | kconfig | y | ELISA_safety | Debug:RT mutex
37 CONFIG_DEBUG_ATOMIC_SLEEP | kconfig | y | ELISA_safety | Debug:RT mutex
38 CONFIG_LIVEPATCH | kconfig | n | ELISA_safety | Live Patch
39 CONFIG_DEVMEM | kconfig | y | ELISA_safety | Kernel Memory:K
40 CONFIG_SECURITY_WRITABLE_HOOKS | kconfig | n | ELISA_security | Linux Securit
41 CONFIG_SECURITY_INFINIBAND | kconfig | y | ELISA_security | Linux Securit
42 CONFIG_LSM_MMAP_MIN_ADDR | kconfig | y | ELISA_security | Linux Securit
43 CONFIG_HAVE_HARDENED_USERCOPY_ALLOCATOR | kconfig | y | ELISA_security | Linux Securit
44 CONFIG_STATIC_USERMODEHELPER | kconfig | y | ELISA_security | Linux Securit
45 CONFIG_STATIC_USERMODEHELPER_PATH | kconfig | y | ELISA_security | Linux Securit
46 CONFIG_DEFAULT_SECURITY_DAC | kconfig | y | ELISA_security | Linux Securit
47
48 [+] Config check is finished: 'OK' - 16 (suppressed in output) / 'FAIL' - 37

```


7. config-4.15.0-177-generic-ubuntu18

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.15.0-177-generic
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.15.0-177-generic-ubuntu18
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.15.0
6 4.15.0

```

=====					
	option name	type	desired val	decision	reason
=====					
10	CONFIG_REFCOUNT_FULL	kconfig	y	ELISA_safety	Kernel Memory r
11	CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety	GCC, plugins, S
12	CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety	GCC, plugins, S
13	CONFIG_PAGE_POISONING	kconfig	y	ELISA_safety	Stack memory:St
14	CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety	Stack memory:St
15	CONFIG_DEBUG_LIST	kconfig	y	ELISA_safety, Intel	Heap mem
16	CONFIG_DEBUG_SG	kconfig	y	ELISA_safety	Driver: Heap ov
17	CONFIG_BUG_ON_DATA_CORRUPTION	kconfig	y	ELISA_safety	Kernel Memory:K
18	CONFIG_KMEM	kconfig	n	Intel	Kernel Memory:Ker
19	CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel	Kernel M
20	CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel	Kernel M
21	CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety	Kernel Memory:K
22	CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety	Kernel Memory:K
23	CONFIG_HIBERNATION	kconfig	n	ELISA_safety	Kernel Memory:K
24	CONFIG_KEXEC	kconfig	n	ELISA_safety	Kernel Memory:K
25	CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety	Kernel Memory:K
26	CONFIG_SECURITY_DMESG_RESTRICT	kconfig	y	ELISA_safety	Kernel Memory:D
27	CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety	Heap memory:R/W
28	CONFIG_USERFAULTFD	kconfig	n	ELISA_safety	Heap memory:R/W
29	CONFIG_KPROBES	kconfig	n	ELISA_safety	Stack memory:En
30	CONFIG_PROC_KCORE	kconfig	n	ELISA_safety	Stack memory:En
31	CONFIG_KALLSYMS	kconfig	n	ELISA_safety	Stack memory:En
32	CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety	Debug:Kernel mo
33	CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety	Debug:Kernel mo
34	CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
35	CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety	Debug:Notificat
36	CONFIG_LOCK_STAT	kconfig	y	ELISA_safety	Debug:Notificat
37	CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety	Debug:RT mutex
38	CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
39	CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety	Debug:RT mutex
40	CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety	Debug:RT mutex
41	CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety	Debug:RT mutex
42	CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
43	CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety	Debug:RT mutex
44	CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
45	CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety	Debug:RT mutex
46	CONFIG_LIVEPATCH	kconfig	n	ELISA_safety	Live Patch
47	CONFIG_DEVMEM	kconfig	y	ELISA_safety	Kernel Memory:K
48	CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security	Linux Securit
49	CONFIG_LSM_MMAP_MIN_ADDR	kconfig	y	ELISA_security	Linux Securit
50	CONFIG_STATIC_USERMODEHELPER	kconfig	y	ELISA_security	Linux Securit
51	CONFIG_STATIC_USERMODEHELPER_PATH	kconfig	y	ELISA_security	Linux Securit

```
52 CONFIG_DEFAULT_SECURITY_DAC |kconfig| y |ELISA_security|Linux Securit
53
54 [+] Config check is finished: 'OK' - 31 (suppressed in output) / 'FAIL' - 43
```

8. config-5.4.0-110-generic-ubuntu20

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-5.4.0-110-generic-
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-5.4.0-110-generic-ubuntu20
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 5.4.0
6 5.4.0

```

=====				
option name	type	desired val	decision	reason
=====				
CONFIG_INIT_ON_FREE_DEFAULT_ON	kconfig	y	ELISA_safety	Memory manageme
CONFIG_REFCOUNT_FULL	kconfig	y	ELISA_safety	Kernel Memory r
CONFIG_GCC_PLUGIN_STRUCTLEAK	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_INIT_STACK_ALL	kconfig	y	ELISA_safety	Stack memory:Un
CONFIG_GCC_PLUGIN_STACKLEAK	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety	Stack memory:St
CONFIG_DEBUG_LIST	kconfig	y	ELISA_safety, Intel	Heap mem
CONFIG_DEBUG_SG	kconfig	y	ELISA_safety	Driver: Heap ov
CONFIG_BUG_ON_DATA_CORRUPTION	kconfig	y	ELISA_safety	Kernel Memory:K
CONFIG_KMEM	kconfig	n	Intel	Kernel Memory:Ker
CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HIBERNATION	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_KEXEC	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_SECURITY_DMESG_RESTRICT	kconfig	y	ELISA_safety	Kernel Memory:D
CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_USERFAULTFD	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_KPROBES	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_PROC_KCORE	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_KALLSYMS	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_LOCK_STAT	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LIVEPATCH	kconfig	n	ELISA_safety	Live Patch
CONFIG_DEVMEM	kconfig	y	ELISA_safety	Kernel Memory:K
CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security	Linux Securit

```
52 CONFIG_LSM_MMAP_MIN_ADDR          |kconfig|      y      |ELISA_security|Linux Securit
53 CONFIG_STATIC_USERMODEHELPER       |kconfig|      y      |ELISA_security|Linux Securit
54 CONFIG_STATIC_USERMODEHELPER_PATH  |kconfig|      y      |ELISA_security|Linux Securit
55 CONFIG_DEFAULT_SECURITY_DAC         |kconfig|      y      |ELISA_security|Linux Securit
56
57 [+] Config check is finished: 'OK' - 36 (suppressed in output) / 'FAIL' - 46
```

9. config-3.16.0-7-amd64-debian8

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-3.16.0-7-amd64-deb
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-3.16.0-7-amd64-debian8
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 3.16.59
6 3.16.59
7 =====
8          option name          | type | desired val | decision |          reason
9 =====
10 CONFIG_SLUB_DEBUG             | kconfig | y          | ELISA_safety | Memory manageme
11 CONFIG_DEBUG_LIST             | kconfig | y          | ELISA_safety, Intel | Heap mem
12 CONFIG_DEBUG_SG               | kconfig | y          | ELISA_safety | Driver: Heap ov
13 CONFIG_KMEM                   | kconfig | n          | Intel | Kernel Memory:Ker
14 CONFIG_DEVPORT                | kconfig | n          | ELISA_safety, Intel | Kernel M
15 CONFIG_ACPI_CUSTOM_METHOD     | kconfig | n          | ELISA_safety | Kernel Memory:K
16 CONFIG_LEGACY_PTYS            | kconfig | n          | ELISA_safety | Kernel Memory:K
17 CONFIG_HIBERNATION            | kconfig | n          | ELISA_safety | Kernel Memory:K
18 CONFIG_KEXEC                  | kconfig | n          | ELISA_safety | Kernel Memory:K
19 CONFIG_SECURITY_DMESG_RESTRICT | kconfig | y          | ELISA_safety | Kernel Memory:D
20 CONFIG_COMPAT_BRK             | kconfig | n          | ELISA_safety | Heap memory:R/W
21 CONFIG_KPROBES                | kconfig | n          | ELISA_safety | Stack memory:En
22 CONFIG_PROC_KCORE             | kconfig | n          | ELISA_safety | Stack memory:En
23 CONFIG_KALLSYMS               | kconfig | n          | ELISA_safety | Stack memory:En
24 CONFIG_PROVE_LOCKING          | kconfig | y          | ELISA_safety | Debug:Kernel mo
25 CONFIG_DEBUG_RT_MUTEXES       | kconfig | y          | ELISA_safety | Debug:RT mutex
26 CONFIG_DEBUG_NOTIFIERS        | kconfig | y          | ELISA_safety | Debug:Notificat
27 CONFIG_LOCK_STAT              | kconfig | y          | ELISA_safety | Debug:Notificat
28 CONFIG_DEBUG_SPINLOCK         | kconfig | y          | ELISA_safety | Debug:RT mutex
29 CONFIG_DEBUG_MUTEXES          | kconfig | y          | ELISA_safety | Debug:RT mutex
30 CONFIG_DEBUG_WW_MUTEX_SLOWPATH | kconfig | y          | ELISA_safety | Debug:RT mutex
31 CONFIG_DEBUG_LOCK_ALLOC        | kconfig | y          | ELISA_safety | Debug:RT mutex
32 CONFIG_DEBUG_LOCKING_API_SELFTESTS | kconfig | y          | ELISA_safety | Debug:RT mutex
33 CONFIG_LOCK_TORTURE_TEST       | kconfig | y          | ELISA_safety | Debug:RT mutex
34 CONFIG_RCU_TORTURE_TEST        | kconfig | y          | ELISA_safety | Debug:RT mutex
35 CONFIG_DEBUG_ATOMIC_SLEEP      | kconfig | y          | ELISA_safety | Debug:RT mutex
36 CONFIG_SECURITY_WRITABLE_HOOKS | kconfig | n          | ELISA_security | Linux Securit
37 CONFIG_SECURITY_INFINIBAND     | kconfig | y          | ELISA_security | Linux Securit
38 CONFIG_INTEL_TXT               | kconfig | y          | ELISA_security | Linux Securit
39 CONFIG_LSM_MMAP_MIN_ADDR       | kconfig | y          | ELISA_security | Linux Securit
40 CONFIG_HAVE_HARDENED_USERCOPY_ALLOCATOR | kconfig | y          | ELISA_security | Linux Securit
41 CONFIG_STATIC_USERMODEHELPER   | kconfig | y          | ELISA_security | Linux Securit
42 CONFIG_STATIC_USERMODEHELPER_PATH | kconfig | y          | ELISA_security | Linux Securit
43
44 [+] Config check is finished: 'OK' - 14 (suppressed in output) / 'FAIL' - 33

```

10. config-4.9.0-18-amd64-debian9

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.9.0-18-amd64-deb
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.9.0-18-amd64-debian9
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.9.303
6 4.9.303
7 =====
8          option name          | type | desired val | decision |          reason
9 =====
10 CONFIG_SLUB_DEBUG             | kconfig | y          | ELISA_safety | Memory manageme
11 CONFIG_PAGE_POISONING_NO_SANITY | kconfig | n          | ELISA_safety | Stack memory:St
12 CONFIG_DEBUG_SG               | kconfig | y          | ELISA_safety | Driver: Heap ov
13 CONFIG_KMEM                   | kconfig | n          | Intel      | Kernel Memory:Ker
14 CONFIG_DEVMEM                 | kconfig | n          | ELISA_safety, Intel | Kernel M
15 CONFIG_DEVPORT                | kconfig | n          | ELISA_safety, Intel | Kernel M
16 CONFIG_ACPI_CUSTOM_METHOD     | kconfig | n          | ELISA_safety | Kernel Memory:K
17 CONFIG_LEGACY_PTYS            | kconfig | n          | ELISA_safety | Kernel Memory:K
18 CONFIG_HIBERNATION            | kconfig | n          | ELISA_safety | Kernel Memory:K
19 CONFIG_KEXEC                  | kconfig | n          | ELISA_safety | Kernel Memory:K
20 CONFIG_HARDENED_USERCOPY_PAGESPAN | kconfig | n          | ELISA_safety | Kernel Memory:K
21 CONFIG_COMPAT_BRK             | kconfig | n          | ELISA_safety | Heap memory:R/W
22 CONFIG_USERFAULTFD            | kconfig | n          | ELISA_safety | Heap memory:R/W
23 CONFIG_KPROBES                | kconfig | n          | ELISA_safety | Stack memory:En
24 CONFIG_PROC_KCORE             | kconfig | n          | ELISA_safety | Stack memory:En
25 CONFIG_KALLSYMS               | kconfig | n          | ELISA_safety | Stack memory:En
26 CONFIG_WQ_WATCHDOG            | kconfig | y          | ELISA_safety | Debug:Kernel mo
27 CONFIG_PROVE_LOCKING          | kconfig | y          | ELISA_safety | Debug:Kernel mo
28 CONFIG_DEBUG_RT_MUTEXES       | kconfig | y          | ELISA_safety | Debug:RT mutex
29 CONFIG_DEBUG_NOTIFIERS        | kconfig | y          | ELISA_safety | Debug:Notificat
30 CONFIG_LOCK_STAT              | kconfig | y          | ELISA_safety | Debug:Notificat
31 CONFIG_DEBUG_SPINLOCK         | kconfig | y          | ELISA_safety | Debug:RT mutex
32 CONFIG_DEBUG_MUTEXES          | kconfig | y          | ELISA_safety | Debug:RT mutex
33 CONFIG_DEBUG_WW_MUTEX_SLOWPATH | kconfig | y          | ELISA_safety | Debug:RT mutex
34 CONFIG_DEBUG_LOCK_ALLOC       | kconfig | y          | ELISA_safety | Debug:RT mutex
35 CONFIG_DEBUG_LOCKING_API_SELFTESTS | kconfig | y          | ELISA_safety | Debug:RT mutex
36 CONFIG_LOCK_TORTURE_TEST      | kconfig | y          | ELISA_safety | Debug:RT mutex
37 CONFIG_RCU_TORTURE_TEST       | kconfig | y          | ELISA_safety | Debug:RT mutex
38 CONFIG_DEBUG_ATOMIC_SLEEP     | kconfig | y          | ELISA_safety | Debug:RT mutex
39 CONFIG_LIVEPATCH              | kconfig | n          | ELISA_safety | Live Patch
40 CONFIG_DEVMEM                 | kconfig | y          | ELISA_safety | Kernel Memory:K
41 CONFIG_SECURITY_WRITABLE_HOOKS | kconfig | n          | ELISA_security | Linux Securit
42 CONFIG_SECURITY_INFINIBAND     | kconfig | y          | ELISA_security | Linux Securit
43 CONFIG_INTEL_TXT               | kconfig | y          | ELISA_security | Linux Securit
44 CONFIG_LSM_MMAP_MIN_ADDR      | kconfig | y          | ELISA_security | Linux Securit
45 CONFIG_STATIC_USERMODEHELPER   | kconfig | y          | ELISA_security | Linux Securit
46 CONFIG_STATIC_USERMODEHELPER_PATH | kconfig | y          | ELISA_security | Linux Securit
47
48 [+] Config check is finished: 'OK' - 24 (suppressed in output) / 'FAIL' - 37

```


11. config-4.19.0-16-amd64-debian10

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.19.0-16-amd64-d
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.19.0-16-amd64-debian10
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.19.181
6 4.19.181

```

=====				
option name	type	desired val	decision	reason
=====				
CONFIG_GCC_PLUGIN_STRUCTLEAK	kconfig	y	ELISA_safety GCC, plugins, S	
CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety GCC, plugins, S	
CONFIG_BPF_JIT_ALWAYS_ON	kconfig	y	ELISA_safety Kernel Memory:I	
CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety Stack memory:St	
CONFIG_DEBUG_SG	kconfig	y	ELISA_safety Driver: Heap ov	
CONFIG_KMEM	kconfig	n	Intel Kernel Memory:Ker	
CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel Kernel M	
CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel Kernel M	
CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_HIBERNATION	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_KEXEC	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety Heap memory:R/W	
CONFIG_USERFAULTFD	kconfig	n	ELISA_safety Heap memory:R/W	
CONFIG_KPROBES	kconfig	n	ELISA_safety Stack memory:En	
CONFIG_PROC_KCORE	kconfig	n	ELISA_safety Stack memory:En	
CONFIG_KALLSYMS	kconfig	n	ELISA_safety Stack memory:En	
CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety Debug:Kernel mo	
CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety Debug:Kernel mo	
CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety Debug:Notificat	
CONFIG_LOCK_STAT	kconfig	y	ELISA_safety Debug:Notificat	
CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_LIVEPATCH	kconfig	n	ELISA_safety Live Patch	
CONFIG_DEVMEM	kconfig	y	ELISA_safety Kernel Memory:K	
CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security Linux Securit	
CONFIG_SECURITY_INFINIBAND	kconfig	y	ELISA_security Linux Securit	
CONFIG_INTEL_TXT	kconfig	y	ELISA_security Linux Securit	
CONFIG_LSM_MMAP_MIN_ADDR	kconfig	y	ELISA_security Linux Securit	
CONFIG_STATIC_USERMODEHELPER	kconfig	y	ELISA_security Linux Securit	
CONFIG_STATIC_USERMODEHELPER_PATH	kconfig	y	ELISA_security Linux Securit	
CONFIG_DEFAULT_SECURITY_DAC	kconfig	y	ELISA_security Linux Securit	

52

53 [+] Config check is finished: 'OK' - 35 (suppressed in output) / 'FAIL' - 42

12. config-5.10.0-11-amd64-amd64-debian11

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-5.10.0-11-amd64-am
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-5.10.0-11-amd64-amd64-debian11
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 5.10.92
6 5.10.92

```

=====				
option name	type	desired val	decision	reason
=====				
CONFIG_INIT_ON_FREE_DEFAULT_ON	kconfig	y	ELISA_safety	Memory manageme
CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_BPF_JIT_ALWAYS_ON	kconfig	y	ELISA_safety	Kernel Memory:I
CONFIG_GCC_PLUGIN_STACKLEAK	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_DEBUG_SG	kconfig	y	ELISA_safety	Driver: Heap ov
CONFIG_KMEM	kconfig	n	Intel	Kernel Memory:Ker
CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HIBERNATION	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_KEXEC	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_USERFAULTFD	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_KPROBES	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_PROC_KCORE	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_KALLSYMS	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_KCSAN	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_LOCK_STAT	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LIVEPATCH	kconfig	n	ELISA_safety	Live Patch
CONFIG_DEVMEM	kconfig	y	ELISA_safety	Kernel Memory:K
CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security	Linux Securit
CONFIG_SECURITY_INFINIBAND	kconfig	y	ELISA_security	Linux Securit
CONFIG_LSM_MMAP_MIN_ADDR	kconfig	y	ELISA_security	Linux Securit
CONFIG_STATIC_USERMODEHELPER	kconfig	y	ELISA_security	Linux Securit
CONFIG_STATIC_USERMODEHELPER_PATH	kconfig	y	ELISA_security	Linux Securit

```
52 CONFIG_DEFAULT_SECURITY_DAC |kconfig| y |ELISA_security|Linux Securit
53
54 [+] Config check is finished: 'OK' - 37 (suppressed in output) / 'FAIL' - 43
```

13. config-4.19.91-25.8.al7.x86_64-AlibabaCloudLinux2

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-4.19.91-25.8.al7.x
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-4.19.91-25.8.al7.x86_64-AlibabaCl
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 4.19.91
6 4.19.91

```

=====					
	option name	type	desired val	decision	reason
=====					
10	CONFIG_SLAB_FREELIST_HARDENED	kconfig	y	ELISA_safety, Intel Memory m	
11	CONFIG_REFCOUNT_FULL	kconfig	y	ELISA_safety Kernel Memory r	
12	CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety GCC, plugins, S	
13	CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety GCC, plugins, S	
14	CONFIG_STACKPROTECTOR_STRONG	kconfig	y	ELISA_safety, Intel Stack me	
15	CONFIG_PAGE_POISONING	kconfig	y	ELISA_safety Stack memory:St	
16	CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety Stack memory:St	
17	CONFIG_DEBUG_SG	kconfig	y	ELISA_safety Driver: Heap ov	
18	CONFIG_BUG_ON_DATA_CORRUPTION	kconfig	y	ELISA_safety Kernel Memory:K	
19	CONFIG_KMEM	kconfig	n	Intel Kernel Memory:Ker	
20	CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel Kernel M	
21	CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel Kernel M	
22	CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety Kernel Memory:K	
23	CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety Kernel Memory:K	
24	CONFIG_HIBERNATION	kconfig	n	ELISA_safety Kernel Memory:K	
25	CONFIG_KEXEC	kconfig	n	ELISA_safety Kernel Memory:K	
26	CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety Kernel Memory:K	
27	CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety Kernel Memory:K	
28	CONFIG_SECURITY_DMESG_RESTRICT	kconfig	y	ELISA_safety Kernel Memory:D	
29	CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety Heap memory:R/W	
30	CONFIG_USERFAULTFD	kconfig	n	ELISA_safety Heap memory:R/W	
31	CONFIG_DEBUG_WX	kconfig	y	ELISA_safety Kernel Memory:W	
32	CONFIG_KPROBES	kconfig	n	ELISA_safety Stack memory:En	
33	CONFIG_PROC_KCORE	kconfig	n	ELISA_safety Stack memory:En	
34	CONFIG_KALLSYMS	kconfig	n	ELISA_safety Stack memory:En	
35	CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety Debug:Kernel mo	
36	CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety Debug:Kernel mo	
37	CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
38	CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety Debug:Notificat	
39	CONFIG_LOCK_STAT	kconfig	y	ELISA_safety Debug:Notificat	
40	CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety Debug:RT mutex	
41	CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
42	CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety Debug:RT mutex	
43	CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety Debug:RT mutex	
44	CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety Debug:RT mutex	
45	CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
46	CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety Debug:RT mutex	
47	CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
48	CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety Debug:RT mutex	
49	CONFIG_LIVEPATCH	kconfig	n	ELISA_safety Live Patch	
50	CONFIG_DEVMEM	kconfig	y	ELISA_safety Kernel Memory:K	
51	CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security Linux Securit	

```
52 CONFIG_LSM_MMAP_MIN_ADDR |kconfig| y |ELISA_security|Linux Securit
53 CONFIG_STATIC_USERMODEHELPER |kconfig| y |ELISA_security|Linux Securit
54 CONFIG_STATIC_USERMODEHELPER_PATH |kconfig| y |ELISA_security|Linux Securit
55 CONFIG_DEFAULT_SECURITY_DAC |kconfig| y |ELISA_security|Linux Securit
56
57 [+] Config check is finished: 'OK' - 31 (suppressed in output) / 'FAIL' - 46
```

14. config-5.10.84-10.4.al8.x86_64-AlibabaCloudLinux3


```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-5.10.84-10.4.al8.x
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-5.10.84-10.4.al8.x86_64-AlibabaCl
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 5.10.84
6 5.10.84

```

=====				
option name	type	desired val	decision	reason
=====				
CONFIG_SLAB_FREELIST_HARDENED	kconfig	y	ELISA_safety, Intel Memory m	
CONFIG_INIT_ON_FREE_DEFAULT_ON	kconfig	y	ELISA_safety Memory manageme	
CONFIG_INIT_ON_ALLOC_DEFAULT_ON	kconfig	y	ELISA_safety Memory manageme	
CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety GCC, plugins, S	
CONFIG_GCC_PLUGIN_STRUCTKLEAK_BYREF_ALL	kconfig	y	ELISA_safety GCC, plugins, S	
CONFIG_STACKPROTECTOR_STRONG	kconfig	y	ELISA_safety, Intel Stack me	
CONFIG_SCHED_STACK_END_CHECK	kconfig	y	ELISA_safety, Intel Stack me	
CONFIG_GCC_PLUGIN_STACKLEAK	kconfig	y	ELISA_safety Stack memory:St	
CONFIG_PAGE_POISONING	kconfig	y	ELISA_safety Stack memory:St	
CONFIG_DEBUG_SG	kconfig	y	ELISA_safety Driver: Heap ov	
CONFIG_KMEM	kconfig	n	Intel Kernel Memory:Ker	
CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel Kernel M	
CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel Kernel M	
CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_HIBERNATION	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_KEXEC	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety Kernel Memory:K	
CONFIG_SECURITY_DMESG_RESTRICT	kconfig	y	ELISA_safety Kernel Memory:D	
CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety Heap memory:R/W	
CONFIG_USERFAULTFD	kconfig	n	ELISA_safety Heap memory:R/W	
CONFIG_DEBUG_WX	kconfig	y	ELISA_safety Kernel Memory:W	
CONFIG_KPROBES	kconfig	n	ELISA_safety Stack memory:En	
CONFIG_PROC_KCORE	kconfig	n	ELISA_safety Stack memory:En	
CONFIG_KALLSYMS	kconfig	n	ELISA_safety Stack memory:En	
CONFIG_WQ_WATCHDOG	kconfig	y	ELISA_safety Debug:Kernel mo	
CONFIG_KCSAN	kconfig	y	ELISA_safety Debug:Kernel mo	
CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety Debug:Kernel mo	
CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety Debug:Notificat	
CONFIG_LOCK_STAT	kconfig	y	ELISA_safety Debug:Notificat	
CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety Debug:RT mutex	
CONFIG_LIVEPATCH	kconfig	n	ELISA_safety Live Patch	

```
52 CONFIG_DEVMEM |kconfig| y |ELISA_safety|Kernel Memory:K
53 CONFIG_SECURITY_WRITABLE_HOOKS |kconfig| n |ELISA_security|Linux Securit
54 CONFIG_LSM_MMAP_MIN_ADDR |kconfig| y |ELISA_security|Linux Securit
55 CONFIG_STATIC_USERMODEHELPER |kconfig| y |ELISA_security|Linux Securit
56 CONFIG_STATIC_USERMODEHELPER_PATH |kconfig| y |ELISA_security|Linux Securit
57 CONFIG_DEFAULT_SECURITY_DAC |kconfig| y |ELISA_security|Linux Securit
58
59 [+] Config check is finished: 'OK' - 32 (suppressed in output) / 'FAIL' - 48
```

15. config-5.3.18-24.83-default-suse15-sp2

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-5.3.18-24.83-defau
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-5.3.18-24.83-default-suse15-sp2
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 5.3.18
6 5.3.18

```

=====				
option name	type	desired val	decision	reason
=====				
CONFIG_INIT_ON_FREE_DEFAULT_ON	kconfig	y	ELISA_safety	Memory manageme
CONFIG_INIT_ON_ALLOC_DEFAULT_ON	kconfig	y	ELISA_safety	Memory manageme
CONFIG_REFCOUNT_FULL	kconfig	y	ELISA_safety	Kernel Memory r
CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_GCC_PLUGIN_STRUCTLEAK_BYREF_ALL	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_INIT_STACK_ALL	kconfig	y	ELISA_safety	Stack memory:Un
CONFIG_FORTIFY_SOURCE	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_GCC_PLUGIN_STACKLEAK	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_PAGE_POISONING	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety	Stack memory:St
CONFIG_DEBUG_LIST	kconfig	y	ELISA_safety, Intel	Heap mem
CONFIG_DEBUG_SG	kconfig	y	ELISA_safety	Driver: Heap ov
CONFIG_BUG_ON_DATA_CORRUPTION	kconfig	y	ELISA_safety	Kernel Memory:K
CONFIG_KMEM	kconfig	n	Intel	Kernel Memory:Ker
CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HIBERNATION	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_KEXEC	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY	kconfig	y	ELISA_safety, Intel	Kernel M
CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_USERFAULTFD	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_DEBUG_WX	kconfig	y	ELISA_safety	Kernel Memory:W
CONFIG_KPROBES	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_PROC_KCORE	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_KALLSYMS	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_LOCK_STAT	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety	Debug:RT mutex

52	CONFIG_LIVEPATCH	kconfig	n	ELISA_safety	Live Patch
53	CONFIG_DEVMEM	kconfig	y	ELISA_safety	Kernel Memory:K
54	CONFIG_SECURITY_WRITABLE_HOOKS	kconfig	n	ELISA_security	Linux Securit
55	CONFIG_LSM_MMAP_MIN_ADDR	kconfig	y	ELISA_security	Linux Securit
56	CONFIG_STATIC_USERMODEHELPER	kconfig	y	ELISA_security	Linux Securit
57	CONFIG_STATIC_USERMODEHELPER_PATH	kconfig	y	ELISA_security	Linux Securit
58	CONFIG_DEFAULT_SECURITY_DAC	kconfig	y	ELISA_security	Linux Securit
59					
60	[+] Config check is finished: 'OK' - 33 (suppressed in output) / 'FAIL' - 49				

16. config-5.3.18-150300.59.63-default-suse15-sp3

```

1 % ./bin/kconfig-safety-check -p X86_64 -c ./config_files/alibaba/config-5.3.18-150300.59.
2 [+] Special report mode: show_fail
3 [+] Kconfig file to check: ./config_files/alibaba/config-5.3.18-150300.59.63-default-suse1
4 [+] Detected architecture: X86_64
5 [+] Detected kernel version: 5.3.18
6 5.3.18

```

=====				
option name	type	desired val	decision	reason
=====				
CONFIG_INIT_ON_FREE_DEFAULT_ON	kconfig	y	ELISA_safety	Memory manageme
CONFIG_INIT_ON_ALLOC_DEFAULT_ON	kconfig	y	ELISA_safety	Memory manageme
CONFIG_REFCOUNT_FULL	kconfig	y	ELISA_safety	Kernel Memory r
CONFIG_GCC_PLUGIN_STRUCTKLEAK	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_GCC_PLUGIN_STRUCTKLEAK_BYREF_ALL	kconfig	y	ELISA_safety	GCC, plugins, S
CONFIG_INIT_STACK_ALL	kconfig	y	ELISA_safety	Stack memory:Un
CONFIG_GCC_PLUGIN_STACKLEAK	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_PAGE_POISONING	kconfig	y	ELISA_safety	Stack memory:St
CONFIG_PAGE_POISONING_NO_SANITY	kconfig	n	ELISA_safety	Stack memory:St
CONFIG_DEBUG_LIST	kconfig	y	ELISA_safety, Intel	Heap mem
CONFIG_DEBUG_SG	kconfig	y	ELISA_safety	Driver: Heap ov
CONFIG_BUG_ON_DATA_CORRUPTION	kconfig	y	ELISA_safety	Kernel Memory:K
CONFIG_KMEM	kconfig	n	Intel	Kernel Memory:Ker
CONFIG_DEVMEM	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_DEVPORT	kconfig	n	ELISA_safety, Intel	Kernel M
CONFIG_ACPI_CUSTOM_METHOD	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_LEGACY_PTYS	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HIBERNATION	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_KEXEC	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY	kconfig	y	ELISA_safety, Intel	Kernel M
CONFIG_HARDENED_USERCOPY_FALLBACK	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_HARDENED_USERCOPY_PAGESPAN	kconfig	n	ELISA_safety	Kernel Memory:K
CONFIG_COMPAT_BRK	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_USERFAULTFD	kconfig	n	ELISA_safety	Heap memory:R/W
CONFIG_DEBUG_WX	kconfig	y	ELISA_safety	Kernel Memory:W
CONFIG_KPROBES	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_PROC_KCORE	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_KALLSYMS	kconfig	n	ELISA_safety	Stack memory:En
CONFIG_PROVE_LOCKING	kconfig	y	ELISA_safety	Debug:Kernel mo
CONFIG_DEBUG_RT_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_NOTIFIERS	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_LOCK_STAT	kconfig	y	ELISA_safety	Debug:Notificat
CONFIG_DEBUG_SPINLOCK	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_MUTEXES	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_WW_MUTEX_SLOWPATH	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCK_ALLOC	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_LOCKING_API_SELFTESTS	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LOCK_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_WW_MUTEX_SELFTEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_RCU_TORTURE_TEST	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_DEBUG_ATOMIC_SLEEP	kconfig	y	ELISA_safety	Debug:RT mutex
CONFIG_LIVEPATCH	kconfig	n	ELISA_safety	Live Patch

```
52 CONFIG_DEVMEM |kconfig| y |ELISA_safety|Kernel Memory:K
53 CONFIG_SECURITY_WRITABLE_HOOKS |kconfig| n |ELISA_security|Linux Securit
54 CONFIG_LSM_MMAP_MIN_ADDR |kconfig| y |ELISA_security|Linux Securit
55 CONFIG_STATIC_USERMODEHELPER |kconfig| y |ELISA_security|Linux Securit
56 CONFIG_STATIC_USERMODEHELPER_PATH |kconfig| y |ELISA_security|Linux Securit
57 CONFIG_DEFAULT_SECURITY_DAC |kconfig| y |ELISA_security|Linux Securit
58
59 [+] Config check is finished: 'OK' - 34 (suppressed in output) / 'FAIL' - 48
```