

Linux Kernel Safety RuleDB - Feature #2747

110: Correct initialization of spin_lock

04/13/2012 01:42 PM - Vadim Mutilin

Status: Open	Start date: 04/13/2012
Priority: Normal	Due date:
Assignee: Marina Makienko	% Done: 100%
Category:	Estimated time: 0.00 hour
Target version:	
Published in build:	
Description spin_lock structure must be initialized with spin_lock_init or DEFINE_SPINLOCK before usage	
Links Sample bugfixes 90a4845 , 63771f4 , 9ec4f65	
Related issues: Related to C Instrumentation Framework - Feature #3890: Deal with Linux kerne... Closed 01/29/2013	

History

#1 - 04/13/2012 01:43 PM - Vadim Mutilin

- Tracker changed from Task to Feature

#2 - 04/13/2012 03:17 PM - Vadim Mutilin

- Status changed from New to Open

rule model 110_1a

90a4845 - UNSAFE находится до, после timelimit=1800

63771f4 - до и после UNKNOWN (ошибка с большими целыми)

9ec4f65 - не исследовался, требуется правило на __SPIN_LOCK_UNLOCKED

#3 - 04/13/2012 07:36 PM - Vadim Mutilin

Time limit increase leads to out of mem

commit 90a4845 - after fix: Memory Limit Exceeded Time Limit: 7000 Memory Limit: 3500000

#4 - 04/17/2012 01:33 PM - Vadim Mutilin

- Subject changed from Correct initialization of spin_lock (110_1) to Correct initialization of spin_lock (110_1a)

#5 - 04/25/2012 10:33 AM - Alexey Khoroshilov

- Subject changed from Correct initialization of spin_lock (110_1a) to 110: Correct initialization of spin_lock

#6 - 04/27/2012 11:46 AM - Evgeny Novikov

- Assignee set to Vadim Mutilin

- Priority changed from Normal to High

There isn't any model comment in 110_1a. It's bad style, since it requires too much time to analyze error traces.

#7 - 04/27/2012 12:05 PM - Evgeny Novikov

Vadim Mutilin wrote:

Time limit increase leads to out of mem

commit 90a4845 - after fix: Memory Limit Exceeded Time Limit: 7000 Memory Limit: 3500000

RCV_MEMLIMIT=6000000 RCV_TIMELIMIT=7000 leads to Time_limit.

#8 - 04/27/2012 12:06 PM - Evgeny Novikov

Evgeny Novikov wrote:

Vadim Mutilin wrote:

Time limit increase leads to out of mem

commit 90a4845 - after fix: Memory Limit Exceeded Time Limit: 7000 Memory Limit: 3500000

RCV_MEMLIMIT=6000000 RCV_TIMELIMIT=7000 leads to Time_limit.

May be some challenge for verifiers, try CPAchecker.

#9 - 05/12/2012 05:14 PM - Evgeny Novikov

Some work (model development, writing model comments, big launches, etc.) is done with this model now or we should reduce its priority also?

#10 - 05/12/2012 05:18 PM - Vadim Mutilin

- Priority changed from High to Normal

#11 - 07/20/2012 11:19 AM - Vadim Mutilin

- Assignee changed from Vadim Mutilin to Marina Makienko

#12 - 07/23/2012 04:24 PM - Marina Makienko

- Status changed from Open to Resolved

- % Done changed from 0 to 100

#13 - 09/04/2012 05:34 PM - Evgeny Novikov

- Status changed from Resolved to Open

Commit 2f5dc79 "Add functions in 110" to kernel-rules has duplicated aspect file content. Although it works, it isn't a good style.

#14 - 09/05/2012 12:27 PM - Marina Makienko

Evgeny Novikov wrote:

Commit 2f5dc79 "Add functions in 110" to kernel-rules has duplicated aspect file content. Although it works, it isn't a good style.

Fix it.

#15 - 09/05/2012 12:27 PM - Marina Makienko

- Status changed from Open to Resolved

#16 - 02/12/2013 07:44 PM - Evgeny Novikov

- Status changed from Resolved to Open

Please, use ability to process actual arguments of macrofunctions substituted at the global scope like in 148_7a model (implemented in [#3890](#)).

#17 - 10/21/2014 04:09 PM - Vadim Mutilin

- Description updated