L-SAP Differencing

Instance 1

v3.17: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.17-rc1/spin/PAIRED@@@cbd1ff@@@[1606+38+@linux-3.17-rc1@drivers@usb@mon@mon_main.c]@@@lock/index.htmlv3.18: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.18-rc1/spin/PAIRED@@@29c675d@@@[1606+38+@linux-3.18-rc1@drivers@usb@mon@mon_main.c]@@@lock/index.html

Decision: UNCHANGED

Differencing Checks: (check if the specified measure is the same)

- Status PAIRED
- Name lock
- MPG Comparison 3 nodes 2 edges
- CFG Comparison
 - mon_reader_del 4 nodes 3 edges
- EFG Comparison
 - mon_reader_del 8 nodes 8 edges

Notes:

Instance 2

v3.17: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.17-rc1/mutex/DEADLOCK@@@10d3280@@@[42298+48+@linux-3.17-rc1@drivers@media@usb@gspca@gspca.c]@@@queue_lock/index.html v3.18: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.18-rc1/mutex/DEADLOCK@@@26de19@@@[42299+48+@linux-3.18-rc1@drivers@media@usb@gspca@gspca.c]@@@queue_lock/index.html

Decision: UNCHANGED

Differencing Checks: (check if the specified measure is the same)

- Status DEADLOCK
- Name queue_lock
- MPG Comparison 4 nodes 3 edges
- CFG Comparison

- vidioc_dqbuf same graph
- EFG Comparison
 - vidioc_dqbuf same graph

Notes:

 The graph images flipped between versions, so while they were the same, the images were not

Instance 3

v3.17: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.17-rc1/mutex/DEADLOCK@@@1620092@@@[12405+36+@linux-3.17-rc1@drivers@staging@lustre@lustre@llite@dir.c]@@@d_readdir_mutex/index.html v3.18: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.18-rc1/mutex/PAIRED@@@c347ee@@@[12409+36+@linux-3.18-rc1@drivers@staging@lustre@lustre@llite@dir.c]@@@d_readdir_mutex/index.html

Decision: CHANGED

Diff	ferencing Checks: (check if the specified measure is the same)
\bigcirc	Status - DEADLOCK -> PAIRED
•	Name - d_readdir_mutex
•	MPG Comparison - 3 nodes - 2 edges
	CFG Comparison
_	Il_get_dir_page - complex — didn't check but I'm assuming it's different
\bigcirc	EFG Comparison
_	Il_get_dir_page - mutex_unlock call got added directly after mutex_lock to pair

Notes:

it

- This was a complex CFG/EFG Pair that shows a bug was fixed

Instance 4

v3.17: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.17-rc1/mutex/DEADLOCK@@@1773558@@@[68806+32+@linux-3.17-rc1@drivers@scsi@mpt2sas@mpt2sas_scsih.c]@@@mutex/index.html v3.18: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.18-rc1/mutex/DEADLOCK@@@27da49f@@@[68832+32+@linux-3.18-rc1@drivers@scsi@mpt2sas@mpt2sas_scsih.c]@@@mutex/index.html

Decision: UNCHANGED

Differencing Checks: (check if the specified measure is the same)

- Status DEADLOCK
- Name mutex
- MPG Comparison 10 nodes 12 edges
- CFG Comparison
 - All CFGs are the same
- EFG Comparison
- All EFGs are the same

Notes:

- Again this was a complex set of graphs
- the EFG/CFG pairs were all the same images
- the MPG graph was the same, but a different image

Instance 5

v3.17: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.17-rc1/mutex/DEADLOCK@@@1f85e7@@@[23212+27+@linux-3.17-rc1@drivers@tty@moxa.c]@@@moxa_openlock/index.html v3.18: file:///Users/dhanwada/cpre491/sdmay18-09/linux-kernel-3.18-rc1/mutex/DEADLOCK@@@fbd8b4@@@[23212+27+@linux-3.18-rc1@drivers@tty@moxa.c]@@@moxa_openlock/index.html

Decision: CHANGED

Differencing Checks: (check if the specified measure is the same)

- Status DEADLOCK
- Name moxa_openlock
- 😶 MPG Comparison 3 nodes 2 edges
- CFG Comparison
 - Different graphs but the EFG is unchanged
- EFG Comparison
 - Same graphs

Notes:

- This shows a reimplementation of the function (changed CFG), but the parts related to the lock (EFG) are unchanged
- Perhaps an attempt to fix it? although not likely