

The red box (DOT218) is where the different behavior between RHEL5 and RHEL6 is occurring. In particular, SCALS is uninitialized in RHEL5 but is somehow grabbing previous state in RHEL6. Based on my exploration of the code, the former is consistent with how the code is written. Whether or not that is what was intended is another question, I guess.

This diagram is intended to track the use of SCALS through the various DOT subroutines, including name changes via argument lists. A “y” label on an arrow means a value is passed, “n” means no value is passed, and “ni” means an uninitialized value is passed. Based on DOT200, it appears that even though the state of SCALS is preserved in the WK array, that preserved state is not used in all cases, including the path that leads to the problematic DOT218.

