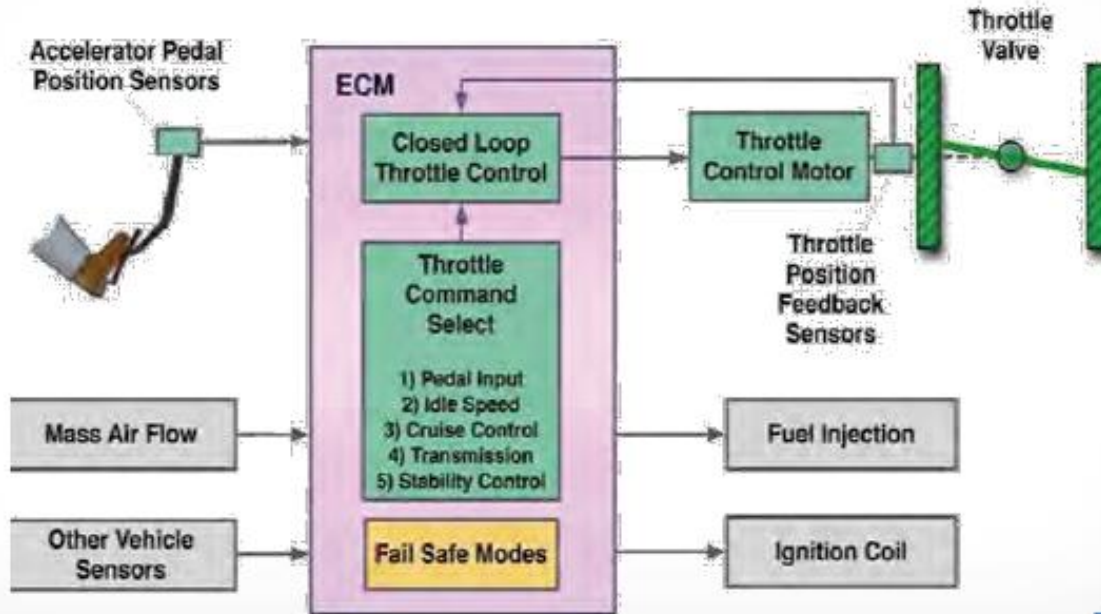


ELECTRONIC THROTTLE CONTROL (ETCS)

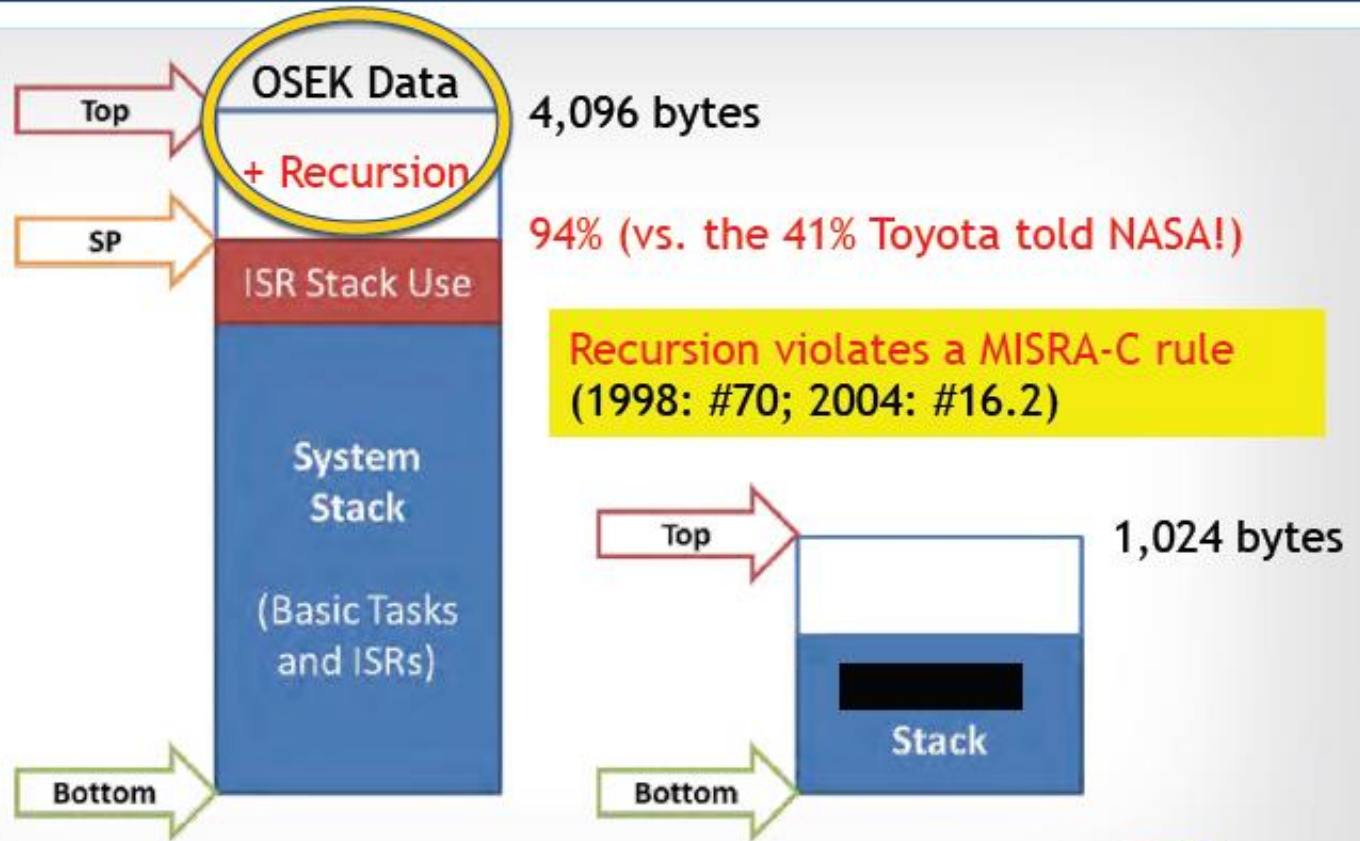
“Toyota ETCS-i is an example of a safety-critical hard real-time system.”
- NASA, Appendix A, p. 118



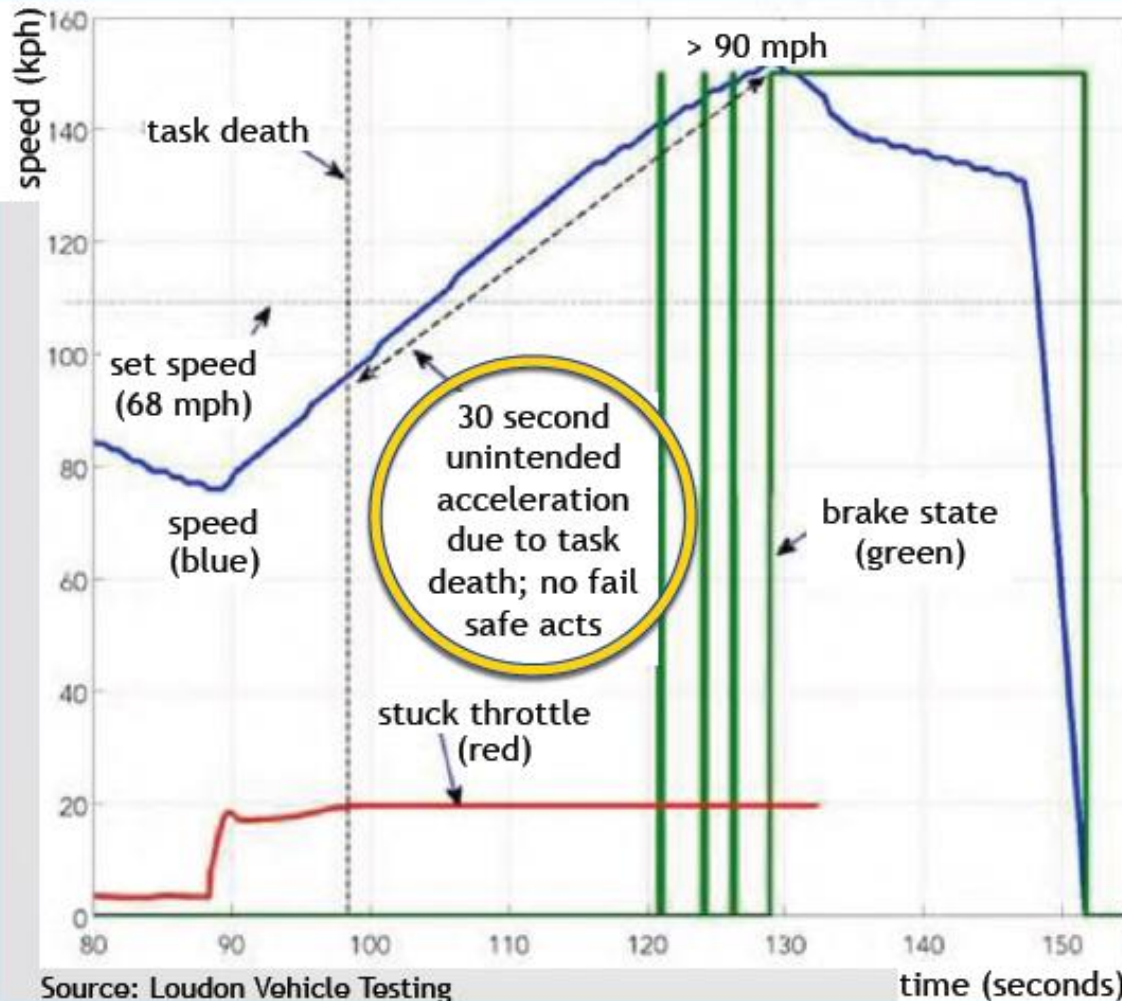
NASA, p. 13



STACK ANALYSIS FOR 2005 CAMRY L4



EXAMPLE OF UNINTENDED ACCELERATION



- Representative of task death in real-world
- Dead task also monitors accelerator pedal, so **loss of throttle control**
 - ✓ Confirmed in tests
- When this task's death begins with brake press (any amount), **driver must fully remove foot from brake to end UA**
 - ✓ Confirmed in tests

