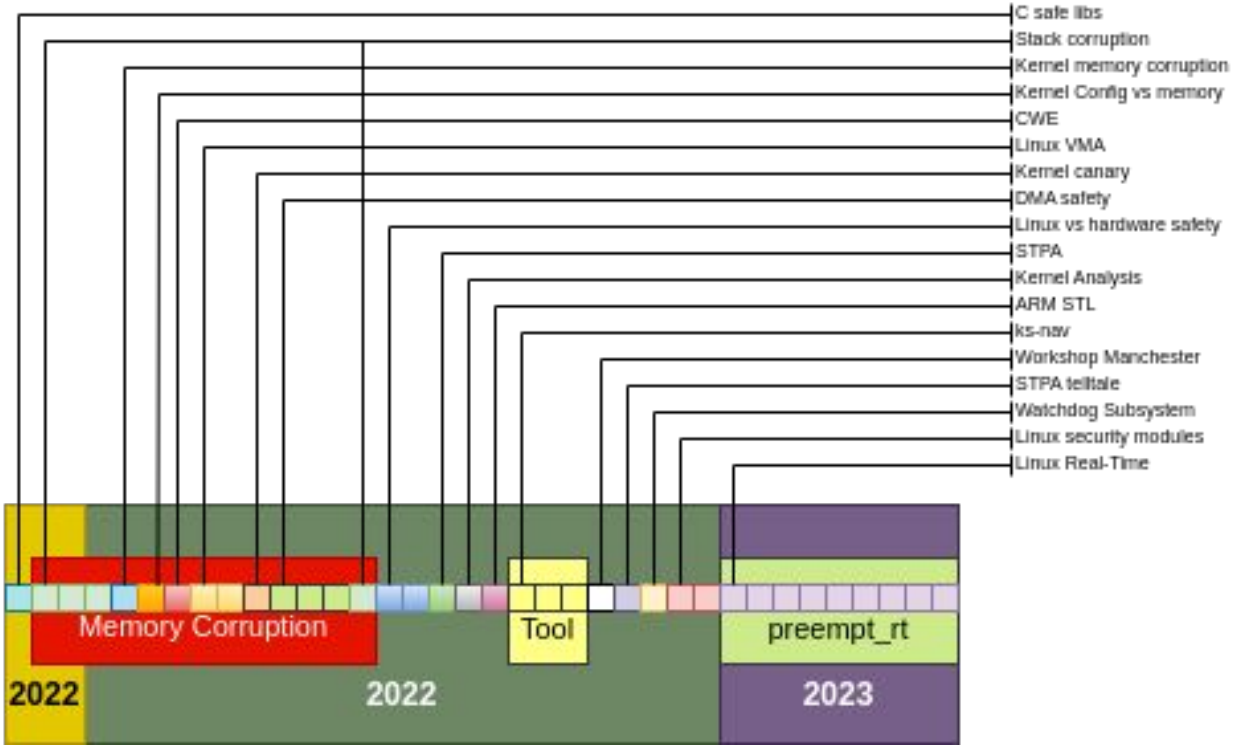
LFSCS WG - Activities summary



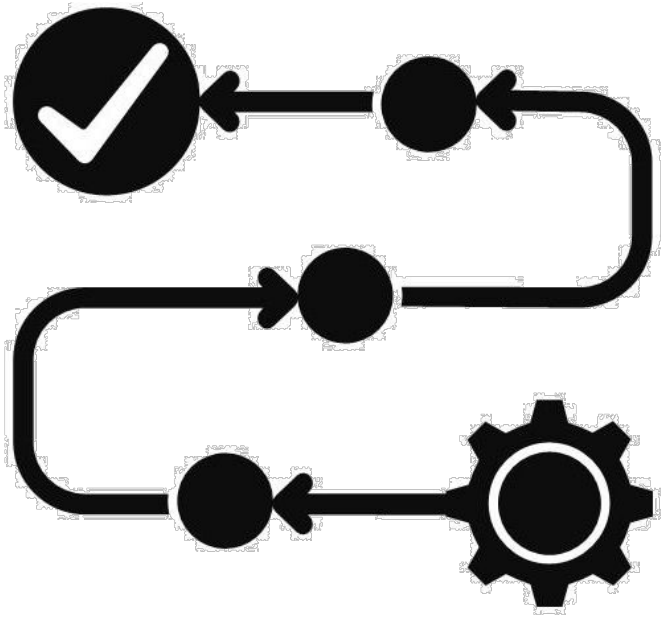
ELISA WORKSHOPS

LFSCS - Proposal - Scope

- Understanding and documenting the roles and capabilities of Kernel features and subsystems in supporting safety claims
- Determine the best set of configuration and calibration parameters
- Propose improvements that are compatible with the upstream community

LFSCS - Proposal - Methodology

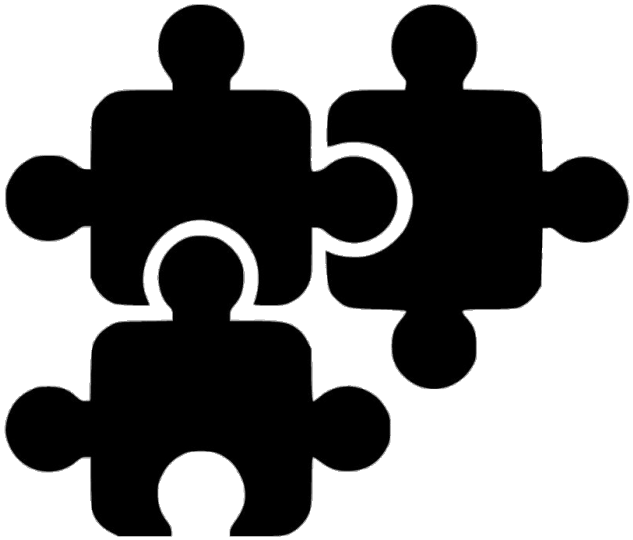
1) Define a set of high level safety claims: e.g. memory allocation, process creation, process scheduling, etc…
2) Identify and propose a set of Kernel subsystems and features that could play a role according to different safety claims: e.g. mm, VFS, scheduler, etc…
3) For each component/subsystem:
    a) Component analysis against safety claims
    b) Identify tunables in components
    c) Identify critical parts
    d) Propose improvement (if any)



LFSCS - Proposal - Components

Components the WG needs to investigate

- Scheduler
- Kernel address space integrity
- Memory management
- Security
- File system
- Hardware access
- Networking
- Clock timers
- Boot



LFSCS - Proposal - Road map

Component priority

1. Boot
2. Scheduler
3. Memory allocators
4. Kernel address space integrity
5. Clock timers
6. Hardware access
7. Security
8. File system
9. Networking

LFSCS - Proposal - Feedback

- TBD
- TBD