



#### NASA Goddard 2024

#### SGL Interest Survey Results

#### WHAT WE LEARNED

Work in Progress - License: CC-BY-4.0

#### Areas of Interest

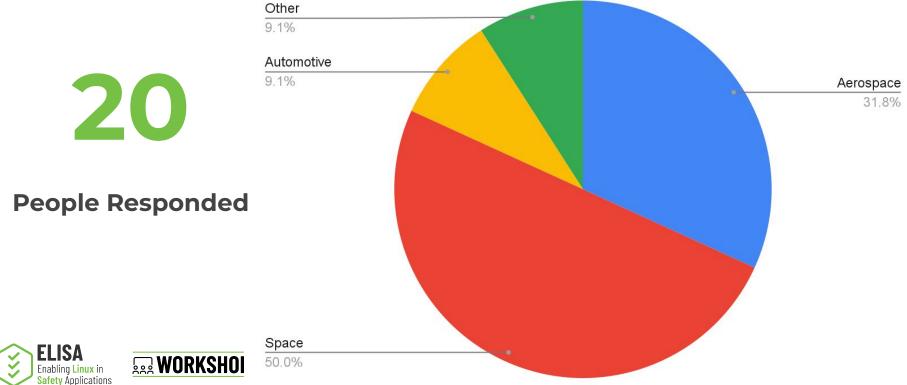
- **Configuration**: predefined starting point
- **Bootloader / Updates**: Take into account the safety implications.
- User Space: support the most common apps/workflows



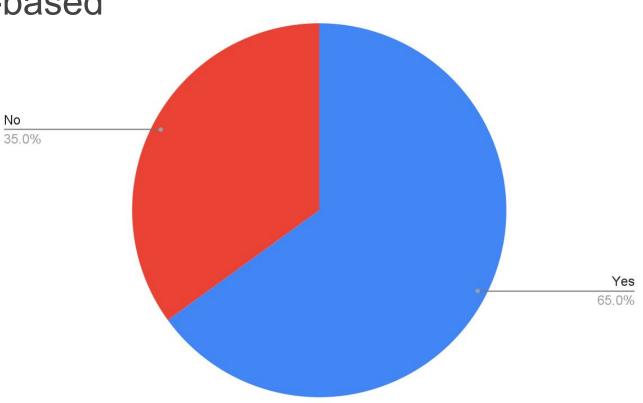


Work in Progress - License: CC-BY-4.0

### Number of total answers



Are you currently using Linux for space-based projects?



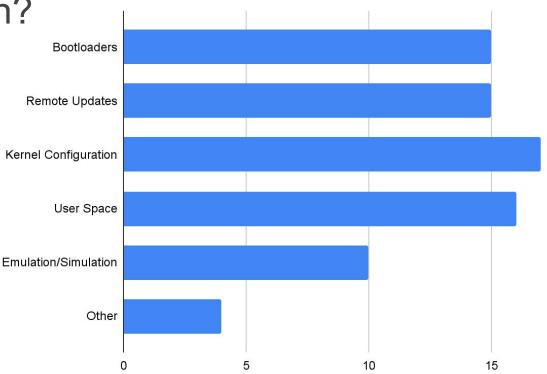




#### Which areas are you most interested in?

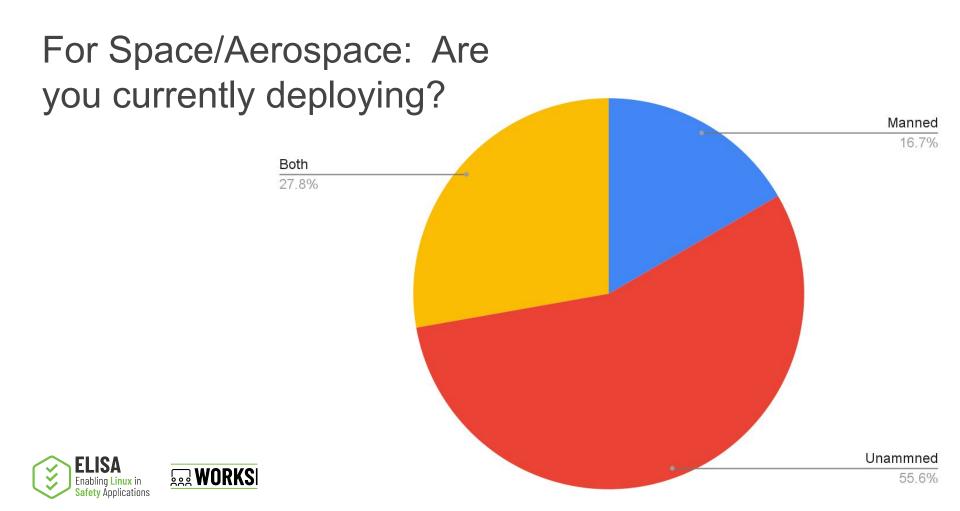
Other:

- Qualification & Certification
- Build Systems

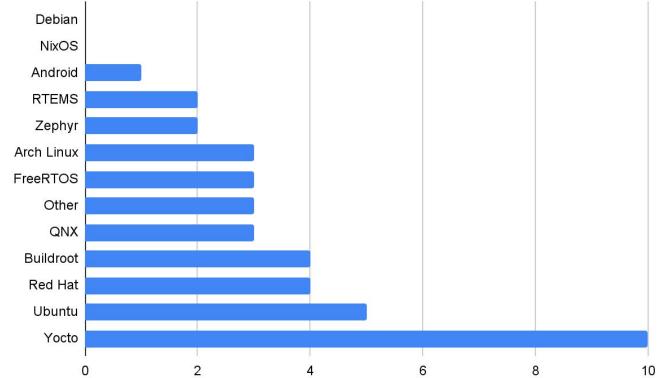








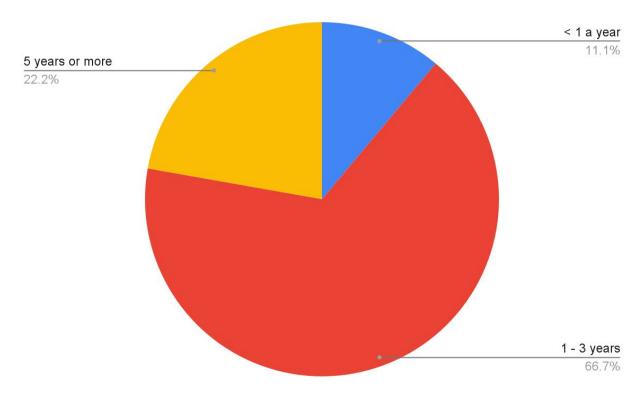
#### Which of the following distributions are you currently using on target







For Space/Aerospace: What is the expected development life cycle of the system/mission?

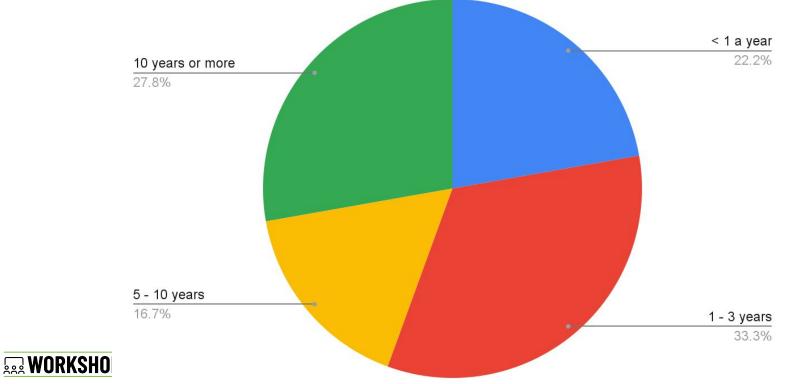




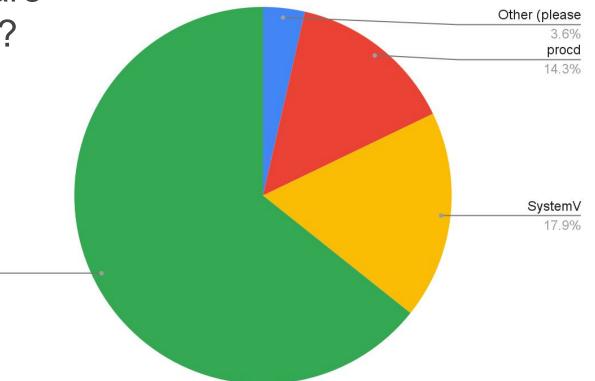


For Space/Aerospace: What is the expected operational life cycle of the system/mission?

Enabling Linux in Safety Applications



Which of the following System Daemons are you currently using?

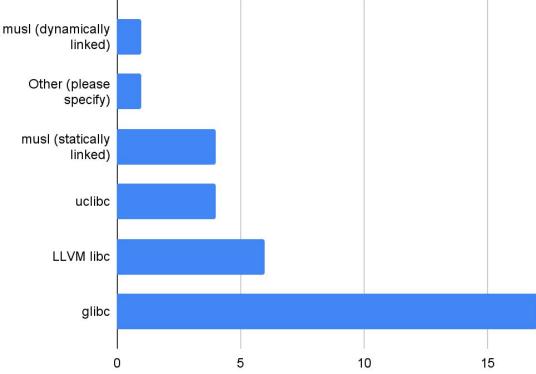






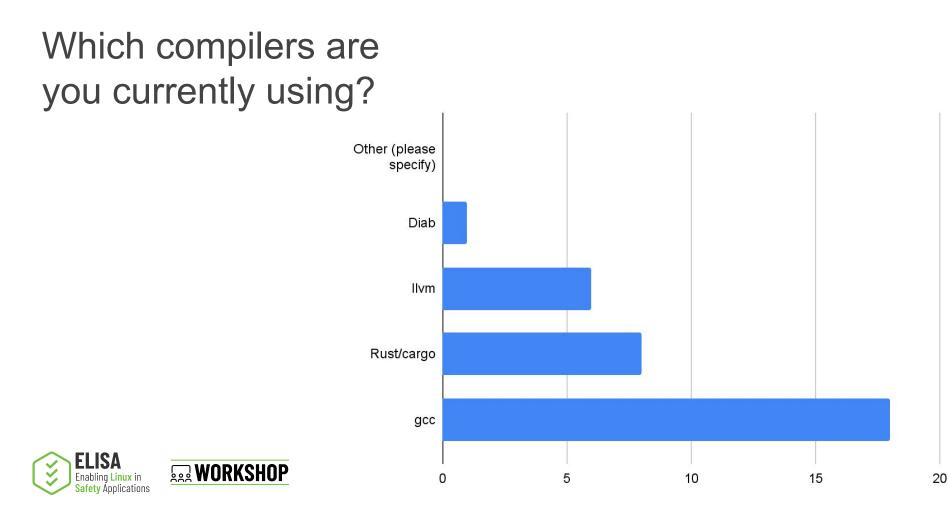
systemd 64.3%

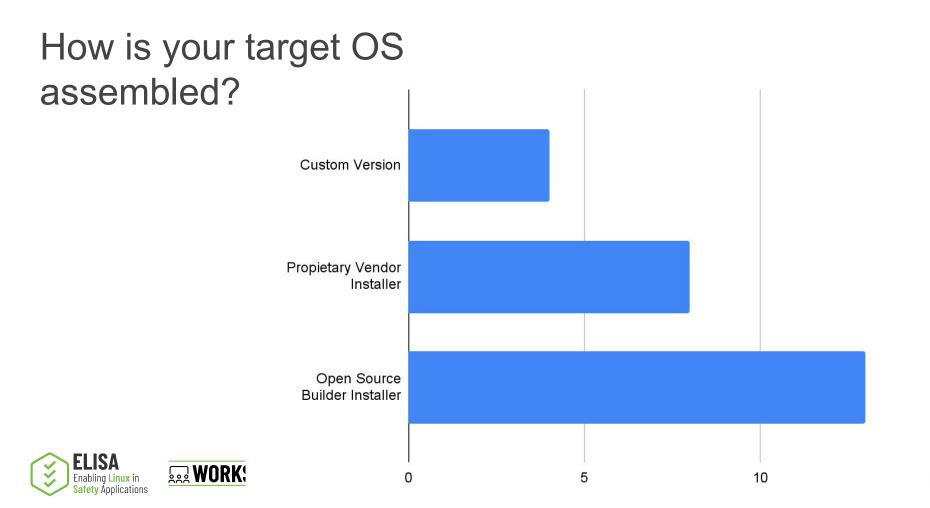
# Which of the following Standard Libraries are you currently using?









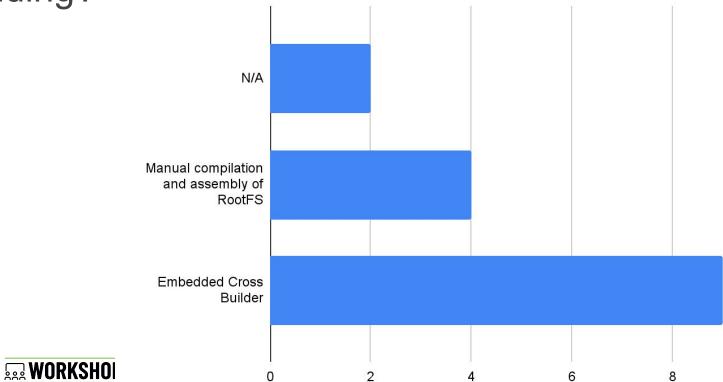


# IF Custom: How are you building?

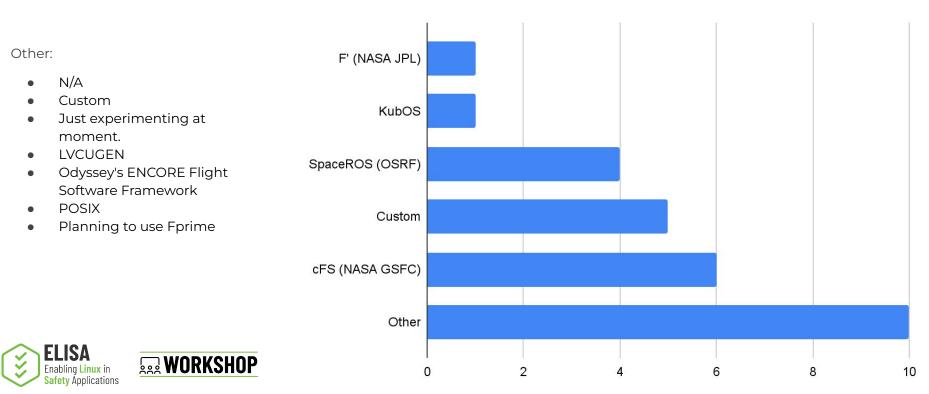
**ELISA** 

Enabling Linux in

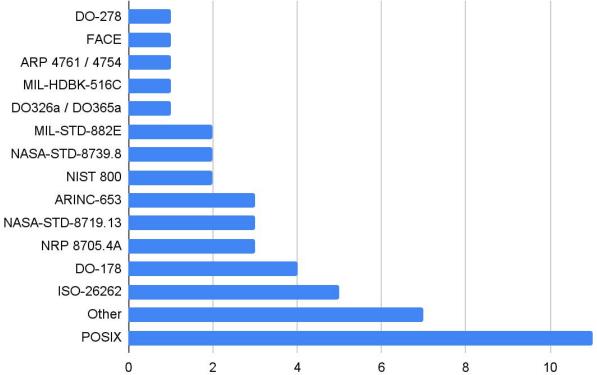
Safety Ápplications



#### Are you currently using any of the following Flight software stacks?



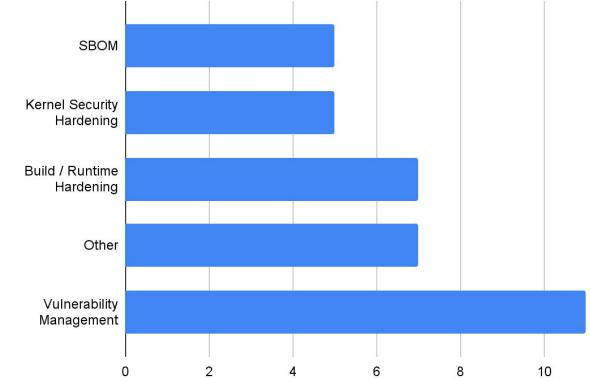
#### Which of the safety/security standards do you need to conform with?



12



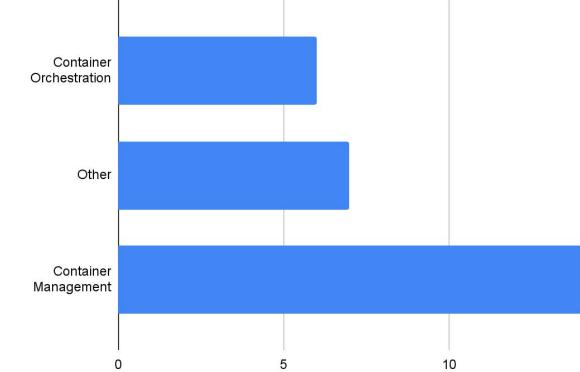
### Are you currently using any of the following security practices?



12



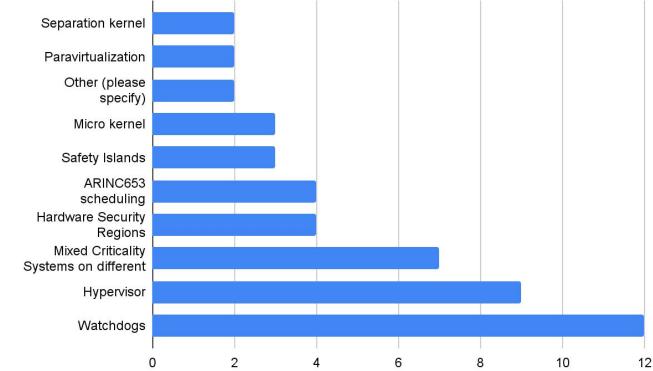
### Are you managing orchestration with any of the following tools?







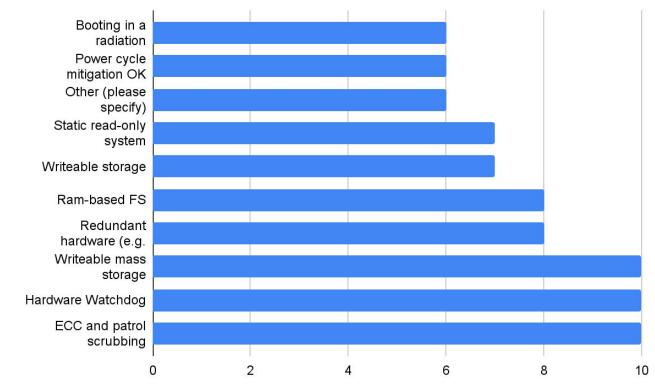
# What system design elements are you currently using?





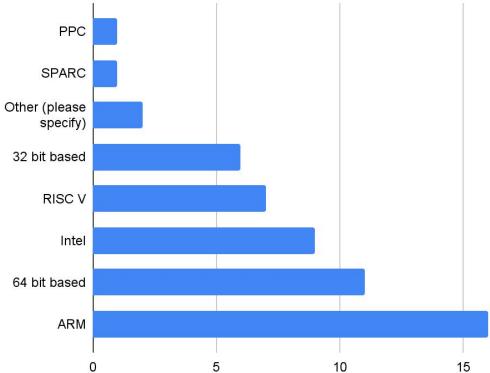


#### When it comes to Radiation Hardening, which of the following is important to you?





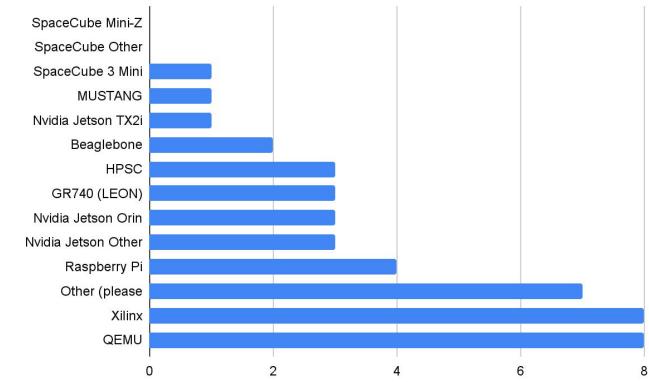
### Which of the following hardware architectures do you need to support?







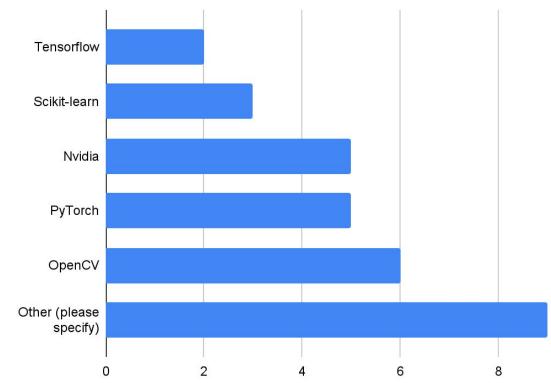
#### Please mark the hardware platforms you are planning or currently using







#### Are you planning or currently supporting any of the following AI/ML libs?







#### Are there any other libraries that you need to support in a linux distribution?

In no specific order:

- N/A
- Confidential, cannot share
- glibc (incl. math lib), pcap
- gpio support, com support libs
- libcsp (Cubesat Space Protocol)
- musl
- Our customers' demands vary.
- Spacewire
- too many to list
- yocto, embedded telemetry agent
- ZMQ



