

Exception Handling

Microkernel-based Operating Systems—Exercise

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WiSe 26/27

Automating the Last Exercise

Streamlining the Boot Configuration



- Building GRUB images manually is cumbersome
- Solution: L4Re module management:
 - Link l4 to fiasco:
 - ▶ Copy `src/l4/conf/Makeconf.boot.example` to `src/l4/conf/Makeconf.boot`
 - ▶ Fill in `FIASCO_PATH-amd64` with absolute path to `obj/fiasco/amd64`
 - Start QEMU with `make qemu` in `obj/l4/amd64`



- We can have multi-directory projects
 - See: `src/l4/pkg/exception/Makefile`
- We can manage configurations as assets
 - See: `src/l4/pkg/exception/configs/Makefile`
`SRC_ASSETS_MODLIST = modules.list`
`SRC_ASSETS_NED = executor.lua faulty.lua`

- `modules.list` specifies boot configurations with modules (similar to `grub.cfg`)
entry faulty
roottask moe rom/faulty.lua
module l4re
module ned
module ned/exception/faulty.lua
module faulty
- Booting using a package-local `modules.list`:
make qemu MODULES_LIST=exception/modules.list

Today's Exercise