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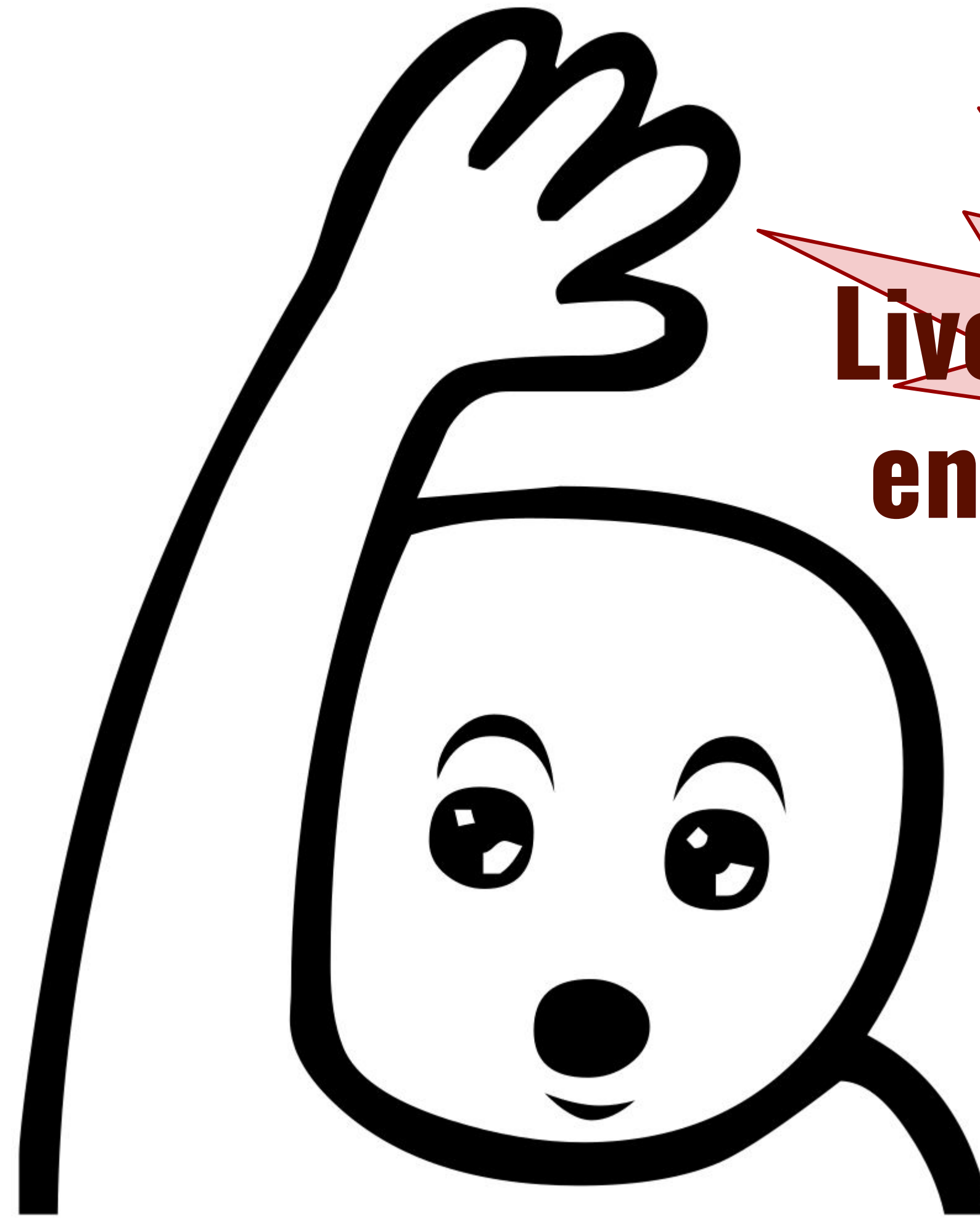
# Shipping Sched-Ext: Linux distributions roundtable

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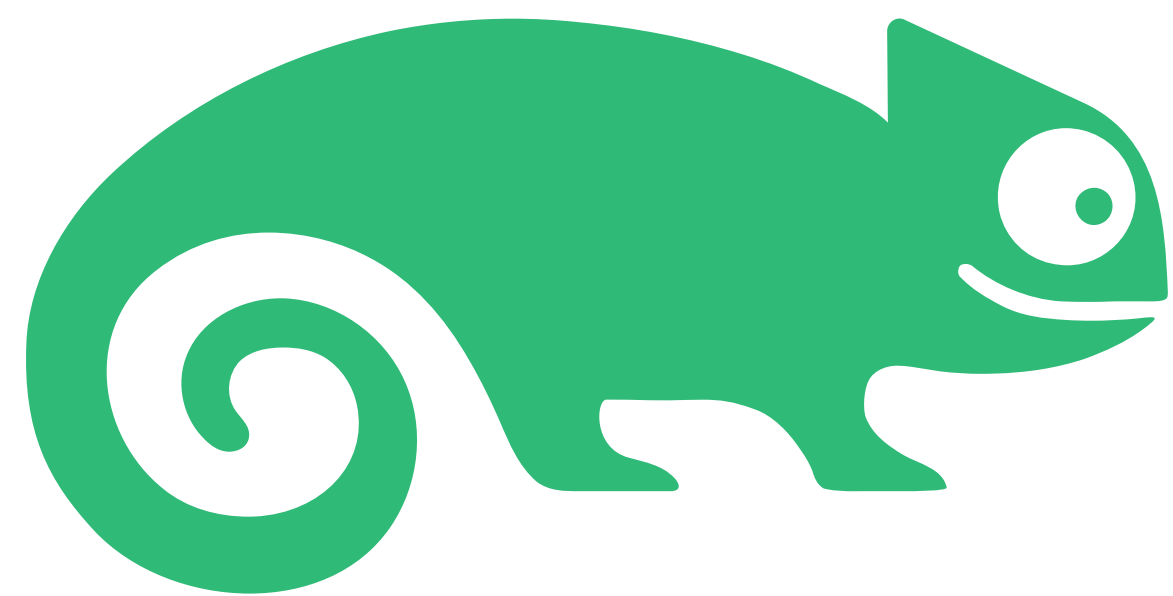
**LINUX  
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# Take the mic, speak



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**SUSE**

## Disclaimer

**Enterprise distro:** undecided, evaluating costs & benefits

**Community distro:** work in progress

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# Explainers

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## Sched-Ext v. Fair

1. Deadline
2. Realtime
3. Fair
4. Extensible

- Extensible is the last class searched
- Takes over Fair tasks if requested

## Sched-Ext v. Cgroups

- Can do weight based scheduling
- One day, may have separate scheduler per cgroup

## Sched-Ext v. Rust

- Framework for user-space scheduling is in Rust
- BPF only for exporting data





# The road ahead

- **Quality** Evaluate custom schedulers, QoS test suite
- **Support** Assistance to user running 3rd party scheduler
- **Provenance** Do I know this scheduler?
- **Toolchain** Packaging libbpf, Rust programs



# Quality

Evaluate custom schedulers, QoS test suite

- Fairness
- Work conservation
- Scheduling latency
- Throughput
- Energy efficiency
- ...

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# Support

Assistance to user running 3rd party scheduler

Bug report, negotiation:

our problem or their problem?

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# Provenance

Do I know this scheduler?

Some schedulers may be covered by support

some others may not

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# Toolchain

Packaging libbpf, Rust

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- Schedulers are BPF CO-RE programs
- Userspace Rust framework



THANK

YOU



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