LinuxCon Europe 2012 most interesting IMHO

Maksim Melnikau (max_posedon)

Linux Mobile hobbyist
World of Tanks developer

November 24, 2012

Common

- Linux is very important in Intel. http://01.org
- We work for different companies but we have the same spirit - we are one big Linux family (c) Rafl Flaxa, SUSE
- OSHW: 3d Printers printing pieces for make 3d printers awesome!! They make himselfs
- Linus Torvalds Focuses His Keynote On Community Participation. Literally. http://bit.ly/SB2uzj

System

- FreeIPA integrated with Microsoft Active Directory "out-of-the box"
- Challenges for Linux networking http://lwn.net/Articles/523058/
- Volunteer participation going down, enterprise participation up (c) Jon Corbet, http://LWN.net
- V4L2 supports TV tuners, webcams, video capture, output devices
- Tracing: General Open Issues: KABI, Scalability, Code Injection, Embedded community
- There is no any reason to write fbdev drivers nowadays, DRM have full superset of features now
- The economics of cloud computing - run many tasks on single server - memory becomes a bottleneck
- Rygel - UPnP Rendereer and AV-server

Resource Management

- The failure of operating systems and how we can fix it
  http://lwn.net/Articles/524952/
- Systemd two years on http://lwn.net/Articles/523113/
- Checkpoint/restore in user space: are we there yet?
  http://lwn.net/Articles/525675/
- cgroups - the hearth of all Linux container virtualization techs
- HP: resource isolation on 160 threads, 4TB RAM, dozen of
  disks

Cloud

- In very short term, a common version of Linux will be avail on any class of device (c) Mark Shuttleworth
- Evernote do calculations, going to private saves them about 75% of costs (c) Dave Engberg
- Linux Application Stacks: Security from SELINUX, QoS from CGROUPS, LXC
- People goes to private clouds from public clouds and data-center
- OpenStack: Compute, Networkoing, Storage, Dashboard
- oVirt - focused on KVM, management tool with Web UI
- OpenStack 4 opens: Source, Design, Devloment, Community
- Shared FS - Normal business for Linux: network NFS/CIFS; shared disk OCFS2, GFS2; parallel/distributed: Ceph/GlusterFS

Bonus

- ▶ Realtime, present and future
  https://lwn.net/Articles/524329/
- ▶ Don't play dice with random numbers
  http://lwn.net/Articles/525459/

Questions and Answers

- email: maxposedon@gmail.com