Catalyst BoF
Features, use, complaints and requests
Features

- Catalyst is the releng building tool
- It's used to build official releases
- Is being used to build weekly releases for > 2 years
- Supports many arches
  - amd64, arm, hppa, ppc, ppc64, sparc, x86, etc
Features

It can be used to create:

- Installation mediums
  - CD / DVD / netboot
- Stages
  - stage1 / stage2 / stage3
  - stage4
Use

- Build official gentoo media / stages
- Testing new features / changes (jmbsvicetto)
  - Catalyst
  - Releng configuration
  - New / updated packages & profiles in the tree
- Build pentoo releases (zero_chaos)
Complaints

Bugs:
- Catalyst (33)
  https://bugs.gentoo.org/buglist.cgi?cmdtype=runnamed&namedcmd=catalyst&list_id=1338402
- Release (50)
  https://bugs.gentoo.org/buglist.cgi?cmdtype=runnamed&namedcmd=release&list_id=1338404
Complaints

- Hardcoded / absolute paths
  - portage_confdir
  - livecd/iso (livecd-stage2)
  - boot/kernel/<name>/config (livecd-stage2)
- Unflexible spec files
- Old code
  - Update to python3
  - Modularize / redesign the code
Discussion

Rick Farina (zero_chaos)

- Stop dropping .a files for livecd-stage targets
  breaks pentoo install
- Modularize spec files
  Provide a way for catalyst to take several spec files
- Add gpg sign support to catalyst
- Allow adding a 64bits kernel to a 32bits CD
- LiveDVD multilib
Credits:

Fernando Orucu (likewhoa) for the backgrounds

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