



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](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](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



Discussion



Credits:

Fernando Orucu (likewhoa) for the backgrounds

Thanks

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