move non-systemd packages to [nonsystemd]

2019-11-15 03:41 PM - bill-auger

Status: in progress
Priority: bug
Assignee: Megver83
Category:

Description
the critical problem:

```
# pacstrap /mnt base
....
 resolving dependencies...
:: There are 2 providers available for libsystemd:
:: Repository libre
  1) systemd-libs
:: Repository pcr
  2) systemd-libs-dummy
Enter a number (default=1):
:: There are 2 providers available for libudev:
:: Repository libre
  1) systemd-libudev
:: Repository pcr
  2) eudev-libudev
Enter a number (default=1):
:: There are 3 providers available for udev:
:: Repository libre
  1) notsystemd-udev    2) systemd-udev
:: Repository pcr
  3) eudev
Enter a number (default=1):
looking for conflicting packages...
:: notsystemd-common and systemd-common are in conflict
```

there is an analogous but more subtle problem with 'pacstrap base-openrc', where the install succeeds; but most of systemd gets installed along with openrc, instead of the nonsystemd providers - that happens regardless of whether the [nonsystemd] repo is enabled or disabled; because 'systemd-libs' and 'systemd-libudev' in [libre] take precedence over the corresponding nonsystemd providers: 'systemd-libs-dummy' and 'eudev-libudev' in [pcr]

one can specify: 'pacstrap base-openrc systemd-libs-dummy'; but then still 'systemd', 'systemd-common', and 'systemd-libsystemd', get installed unless the [nonsystemd] repo is enabled - it is most likely that no one wants either of those situations, and they are likely to lead to problems; so it would make most sense if all of the packages in the 'base-openrc' 'openrc-desktop' groups/meta-packages would be invisible unless the [nonsystemd] repo is enabled - in that case, 'pacstrap base-openrc' would simply fail; and for the right reason, that the system-sans-systemd is not satisfyable or would be insane in that state - 'pacstrap base' would still be troublesome while the [nonsystemd] repo is enabled; but megver suggested renaming 'base-openrc' to 'base' after moving everything related to alternative initsystems into [nonsystemd] to make that situation sane also

in order to make the pacstrap process free of conflicts, this ticket is building upon the following IRC discussion:

<bill-auger> megver83: would it cause any problems to move all nonsystemd, notsystemd, systemd-dummy, elogind, eudev, and such all into the [nonsystemd] repo? - i would very much like to do that this week
<bill-auger> right now it is not possible to pacstrap 'base' or 'base-openrc' as people expect should work - it is because those non-system packages are in [libre], and pkgnames starting with 'non' which provide some systemd replacement take precedence over the systemd provider, with pkgnames starting with 'systemd'
<bill-auger> to pacstrap base now, one must specify 'pacstrap /mnt base systemd-libs-dummy linux-libre'
<bill-auger> to pacstrap base-openrc now, one must specify 'pacstrap /mnt base-openrc systemd-libs-dummy linux-libre'

2021-08-05
so, at the very least the wiki guide needs to change - but i think that entire caveat and confusion would go away if everything related to alternative init systems were moved into [nonsystemd]

for the sake of semantics, it would make more sense to people that way too - is there any reason someone running systemd would want to install elogind, systemd-dummy, systemd-libs-dummy, eudev, notsystemd-udev?

megver83: bill-auger: i’ll remove base-openrc - it will be replaced by nonsystemd/base

megver83: bill-auger: makes sense to move those things to [nonsystemd]. i’ll check that later because it would also mean to move opencm, sysvinit and runit

bill-auger: yes there are a bunch of them - i started a list but im sure i havent found them all yet

bill-auger: i like the idea of nonsystemd/base - that makes the process transparent - simply having [nonsystemd] enabled and everything "just works" as expected

megver83: i think i’ll put the openrc init scripts immediately in the corresponding [nonsystemd] package so we don’t have too many openrc packages

bill-auger: good point - deally we would not have any -openrc packages - they could have the same name as the related systemd package if kept in [nonsystemd]

bill-auger: it would be nice if it were as simple as enabling or disabling [nonsystemd] then running pacman -Syyuu, in order to migrate from systemd to opencm or the other direction at any time

bill-auger: and finally close the openrc documentation ticket, once it makes sense to us and is fairly simple to explain to anyone new

megver83: the thing is that there are *many* packages that should go to [nonsystemd] and i cannot maintain all of them by myself

bill-auger: you dont need to maintain them all - but you know better than anyone which ones they are - just move them

megver83: so i prioritize packages that need to go there yes or yes

megver83: i’m not referring to the packages from [pcr]

megver83: i mean all the packages from Arch that i’m rebuilding in [nonsystemd]

megver83: which i basically take from Artix, not difficult but takes time

bill-auger: some of the non-systemd packages are in [pcr]

megver83: bill-auger: i know, they are not the problem in fact

megver83: but the first step is to get most of the thing working in [nonsystemd]

bill-auger: yea agreed - just focus on making the system as free of conflicts as possible

megver83: exactly, maybe planning a roadmap would be a good idea

Subtasks:

Bug # 2556: Conflict updating openrc - libelogind and systemd-libs systemd are in conflict confirmed

Bug # 2559: conflict installing openrc-desktop - /mnt/etc/init.d/NetworkManager exists ... confirmed

Bug # 2575: [avahi-openrc] Dependency errors when trying to upgrade with pacman fixed

Bug # 2576: [openrc-desktop] rearrange openrc groups confirmed

History

#1 - 2020-01-03 04:38 PM - bill-auger

in order to allow `pacstrap /mnt libre/base` to work as people expect, i deleted ‘libre/notsystemd-udev’ for now - it was out-dated anyways - im not sure if we want to keep any of the ‘notsystemd’- packages; but i left ‘notsystemd’ and ‘notsystemd-common’ in place

noting the title of this ticket, i suppose i could have just moved them all to [nonsystemd] - i dont think openrc has any conflict with these

#2 - 2020-01-03 05:01 PM - bill-auger

‘notsystemd’ and ‘notsystemd-common’ are in [nonsystemd] now - we can add ‘notsystemd-udev’ back in if/when it gets updated

#3 - 2020-04-27 01:27 AM - bill-auger

- Assignee set to Megver83

#4 - 2020-09-01 03:02 AM - bill-auger

megver -

i just went over all of the *-openrc packages thoroughly - this is all coming together nicely now - i think most of these linked issues about notsystemd and the base meta-packages, can be closed soon - i have a couple questions though

notsystemd/dbus provides and replaces ‘dbus-openrc’; so pcr/dbus-openrc is not needed anymore?

have you mostly absorbed the *-openrc packages from [pcr] into their main packages in [nonsystemd]? - and the remaining ones will stay as individual packages, in these split packages?

openrc-accessible/ openrc-desktop/ openrc-misc/ openrc-security/
openrc-base/ openrc-devel/ openrc-net/ openrc-video/

megver -