Packages - Housekeeping #2549

Packaging Request # 2506 (in progress): arch introduced a base metapackage to replace the meta group

move non-systemd packages to [nonsystemd]

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

Status:	in progress	**% Done:**	20%
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 [nonsyetmd] 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 [nonsyetmd] 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 [nonsyetmd] 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

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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 [nonststemd] 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 pactrap base now, one must specify `pacstrap /mnt base systemd-udev linux-libre`
<bill-auger> to pactrap base-openrc now, one must specify `pacstrap /mnt base-openrc systemd-libs-dummy linux-libre`

<bill-auger> 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 initsystems were moved into [nonsystemd]

<bill-auger> 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 openrc, 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 pointi - deally we wuold 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 openec or the other direction at any time

<bill-auger> and finally close the openrc dcumentation ticket, once it makes sense to us and is fairly simple to explain to anyonw 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-libsystemd 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**
Bug # 2886: systemd and openrc are in conflict (systemd-tools)	**confirmed**
Bug # 2884: your-initfreedom and systemd-nss-myhostname are in conflict	**confirmed**
Housekeeping # 3290: [nonsystemd] OpenRC init scripts repackaging	**in progress**

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 nonsystemd and the base meta-packages, can be closed soon - i have a couple questions though

nonsystemd/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/
```