Packages - Bug #3334

Make aarch64-linux-gnu-gcc work again on armv7h

2022-08-28 10:28 AM - GNUtoo

Status:	confirmed	% Done:	0%
Priority:	bug		
Assignee:			
Category:			

Description
Before we had an aarch64-linux-gnu-gcc package on armv7h, but it was removed accidentally. And if we build the PKGBUILD it fails, so we need to fix the build and to upload a new package. NOTE: the main reason we want this, is to compile the aarch64 kernel and bootloaders in a armv7h librechroot

Subtasks:	
Packaging Request # 3304: linux-libre-64 5.18.5	**open**
Packaging Request # 3309: [uboot-pinebookpro]: build recipe	**open**
Packaging Request # 3450: [uboot4extlinux-sunxi]: olimex teres build recipe	**in progress**

History

#1 - 2022-08-28 10:29 AM - GNUtoo

- Parent task set to #3309

#2 - 2022-08-28 04:11 PM - bill-auger

most of the cross-compiler toolchain packages are in armv7h/libre-testing now - 'aarch64-linux-gnu-gcc' was the only problematic package

```
aarch64-linux-gnu-gcc-initial          9.3.0-1parabola1
aarch64-linux-gnu-binutils             2.38-1
aarch64-linux-gnu-glibc                2.35-1
aarch64-linux-gnu-linux-libre-api-headers 5.18_gnu-1
```

we were able to package linux-libre-64 for armv7h, by cross-compiling from x86_64, either with `export CARCH=armv7h ; makepkg -s ;` or by putting "CARCH=armv7h" in the PKGBUILD - its not a great general solution, but that is perhaps a good path to bootstrapping 'aarch64-linux-gnu-gcc' for armv7h

#3 - 2022-08-28 06:51 PM - bill-auger

- Parent task deleted (#3309)

#4 - 2022-08-28 06:54 PM - bill-auger

i re-parented these tickets to group them with 'linux-libre-64', which is also blocked, depending on the cross-compiler

#5 - 2023-02-28 11:01 PM - bill-auger

- Description updated

#6 - 2023-02-28 11:20 PM - bill-auger

could any of these be helpful?

https://aur.archlinux.org/packages/aarch64-gcc-bootstrap
The GNU Compiler Collection - cross compiler for ARM64 target - bootstrap compiler

or maybe these to cross-compile the cross-compiler?

https://aur.archlinux.org/packages/arm-linux-gnueabihf-gcc-stage1
The GNU Compiler Collection. Stage 1 for toolchain building (arm-linux-gnueabihf)
https://aur.archlinux.org/packages/arm-linux-gnueabihf-gcc-stage2
The GNU Compiler Collection. Stage 2 for toolchain building (arm-linux-gnueabihf)
https://aur.archlinux.org/packages/arm-linux-gnueabihf-gcc
The GNU Compiler Collection (arm-linux-gnueabihf)