

Slackware on ARM - HOWTO guides

This section contains information about how to install Slackware on to a range of ARM hardware.

The wiki pages on this site are intended for the community to help broaden the architecture support and collaboratively create and share the knowledge base.

Slackware ARM Installation guides

Click [here for the installation guides](#) for the officially supported [Hardware Models](#).



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Overview of ARM Hardware HOWTOS

Within the Linux Kernel and wider OS ecosystems, the ARM platform has fragmented support.

The following table provides some documentation around a variety of devices that the community has created. Some of it relates to unsupported versions of Slackware ARM and has not been updated, but it may still be a useful repository.

Page	Description	Tags
The ARM Machine Architecture Numbers	The ARM Machine Architecture Numbers If you want to know what is the correct Machine Architecture Number for your device you might want to have a look here. There is also a good primer on ARM boot-loader basic operation here Sources howtos arm author louigi600	howtos , arm , author , louigi600
Automatically Set System Time On ARM Devices	Automatically Set System Time On ARM Devices Most users know how unforgiving the Slackware operating system is when the date and time is not set relatively accurate, and rightly so. Inaccurate time can give rise to all kinds of problems, and is often the bane of a system administrator's life. Particularly on ARM devices, where this can be a continual annoyance when the system time has no way of setting itself correctly and/or those responsible [often] forget to do it.	howtos , slackware , arm , system , time , rtc , rc.local , network , ntp , server , author exaga
Slackware ARM GCC aarch64-linux cross-compiler for the Raspberry Pi	Slackware ARM GCC aarch64-linux cross-compiler for the Raspberry Pi Preface I was thinking about the Cortex-A53 64-bit CPU on my Raspberry Pi 3 and why I'm mainly using Slackware ARM 32 bit operating system on it. Then I started to wonder if it would be possible to build an arm64 kernel and modules to run with Slackware ARM. After reading about how this could be achieved it seemed clear that some cross-compiling would be required. Although I have some experience in building Linux kernels, espe...	howtos , hardware , aarch64 , cross-compile , author exaga
Slackware ARM gcc-9.2.x armv8 arm64 aarch64 cross-compiler for the Raspberry Pi 4	Slackware ARM gcc-9.2.x armv8 arm64 aarch64 cross-compiler for the Raspberry Pi 4 Preface With the recent congruous updates to Slackware ARM [~24 June 2019 - "A MILLION THANKS to MoZes!"] and the surprise arrival of the Raspberry Pi 4, this just had to be done. Creating a 64-bit gcc-9.2.0 arm64 aarch64 cross-compiler with the intention of building aarch64-linux binaries from source code and turning them into Slackware packages.	howtos , slackware , raspberrypi , pi , arm , aarch64 , arm64 , armv8 , cross-compile , author exaga

Slackware ARM current gcc-10.3.x armv8 arm64 aarch64 cross-compiler for the Raspberry Pi 4	<p>Slackware ARM current gcc-10.3.x armv8 arm64 aarch64 cross-compiler for the Raspberry Pi 4 Preface With the recent updates on Slackware ARM (December 2020) to gcc-10.x this is an ARMv8 aarch64 cross-compiler bash script that's intended for building binaries from source code and turning them into Slackware packages. Or whatever use you may find for this script.</p>	howtos, slackware, raspberry, pi, arm, aarch64, arm64, armv8, cross-compile, author exaga
Slackware ARM current ARMv8 AArch64 cross-compiler build script (gcc-12.1.0) for the Raspberry Pi 3/4	<p>Slackware ARM current ARMv8 AArch64 cross-compiler build script (gcc-12.1.0) for the Raspberry Pi 3/4 Preface With the updates of Slackware AArch64 to gcc-12.1.0, this is an ARMv8 AArch64 cross-compiler bash script that's intended for building binaries from source code and turning them into Slackware packages. Or whatever use you may find for this script.</p>	howtos, slackware, raspberry, pi, arm, aarch64, arm64, armv8, cross-compile, author exaga
Slackware ARM current ARMv8 AArch64 cross-compiler build script (gcc-12.2.0) for the Raspberry Pi 3/4	<p>Slackware ARM current ARMv8 AArch64 cross-compiler build script (gcc-12.2.0) for the Raspberry Pi 3/4 Preface With the updates of Slackware AArch64 to gcc-12.2.0, this is an ARMv8 AArch64 cross-compiler bash script that's intended for building binaries from source code and turning them into Slackware packages. Or whatever use you may find for this script.</p>	howtos, slackware, raspberry, pi, arm, aarch64, arm64, armv8, cross-compile, author exaga
Slackware ARM 15.0 ARMv8 AArch64 cross-compiler build script (gcc-13.2.0) for the Raspberry Pi 3/4/5	<p>Slackware ARM 15.0 ARMv8 AArch64 cross-compiler build script (gcc-13.2.0) for the Raspberry Pi 3/4/5 Preface With the updates of Slackware AArch64 to gcc-13.2.0, this is an ARMv8 AArch64 cross-compiler bash script that's intended for building binaries from source code and turning them into Slackware packages on 32-bit Slackware systems. Or whatever other purpose(s) you may find for this script and its possibilities.</p>	howtos, slackware, raspberry, pi, arm, aarch64, arm64, armv8, cross-compile, author exaga
Hacking information from the XZPAD700	<p>Hacking information from the XZPAD700 This refers to the XZPAD700 (aka zeligpad) ARM based tablet (AL-A13-RT713 pcb) based on an Allwinner A13 SOC but is technically applicable to all Axx SOC's as to my understanding the all boot in the same manner.</p>	howtos, hardware, arm, louigi600
Slackware ARM on the Hummingboard	<p>Slackware ARM on the Hummingboard There are many ARM devices on the market at the moment, with even more appearing regularly, and it's not possible to provide support for them all in the main Slackware tree. The Hummingboard, by Solidrun, is supported outside of the official Slackware tree by the Slackware community.</p>	howtos, hardware, arm, author exaga
Interfacing I2C Devices To Your System	<p>Interfacing I2C Devices To Your System Inter-Integrated Circuit (I²C or more often written as I2C) is a multimaster serial single-ended computer bus invented by the Philips semiconductor division (see the wikipedia article for more information on I2C) and commonly used in many modern electronic devices including</p>	howtos, hardware, arm, author louigi600
Slackware Package naming convention	<p>Slackware Package naming convention * Author: Stuart Winter <mozes at slackware.com> * Date....: 18-Mar-2020 * Version : 1.00 * Purpose : Provide a best practice for naming packages for Slackware ARM. ARM package naming convention Exposition of the package name format:</p>	howtos, arm, author, mozes
nginx on Slackware ARM	<p>nginx on Slackware ARM Nginx in brief Created by Igor Sysoev and first publicly released in 2004, Nginx is a high-performance, highly scalable, highly available web server, reverse proxy server, and web accelerator (combining the features of an HTTP load balancer, content cache, and more). Nginx offers a highly scalable architecture that is very different from that of Apache (and many other open source and commercial products in the same category). Nginx has a modular, event-driven, asynchrono...</p>	howtos, slackware, arm, nginx, php, fpm, fastcgi, web, server, goaccess, slackbuild, author exaga
Setting up Slackware ARM 14.0 on the OLinuXino A10S Micro from scratch	<p>Setting up Slackware ARM 14.0 on the OLinuXino A10S Micro from scratch This document can also be found at <http://www.malaya-digital.org/setting-up-slackware-arm-14-0-on-the-olinuxino-a10s-from-scratch/> NOTE: The documentation below needs updating. I recommend that you use the link I've just given above as it leads to updated documentation. I'll have the text below updated when time permits.</p>	howtos, hardware, arm, author michael balcos
Qemu Support in Slackware ARM	<p>Qemu Support in Slackware ARM This document describes the process of installing Slackware ARM inside of QEMU. * QEMU is a full system emulator that can emulate a range of real hardware architectures. In this case we will use QEMU to emulate the ARM Ltd.</p>	howtos, hardware, arm, user mralk3
Slackware ARM on the Raspberry Pi 1	<p>Slackware ARM on the Raspberry Pi 1 Since there are so many ARM devices coming on to the market, it is not possible to provide support for them all in the main tree. The Raspberry Pi is supported outside of the official Slackware ARM tree by the Slackware community.</p>	howtos, hardware, arm, author mozes

Slackware ARM on the Raspberry Pi 2	Slackware ARM on the Raspberry Pi 2 The Raspberry Pi 2 has a quad-core ARMv7 (Cortex-A7) 900MHz CPU and 1GB 450MHz LPDDR2 SDRAM. This revised and upgraded ARM single board computer supplants it's predecessor, the Raspberry Pi (1), and is considerably more powerful. Which is great for running Slackware ARM because every thing happens so much quicker and running/executing/compiling times are slashed dramatically in comparison.	howtos , hardware , arm , author exaga
Slackware Network Install on Raspberry Pi 3	Slackware Network Install on Raspberry Pi 3 Introduction This is an abridged version of the SARPi (< http://sarpi.co.uk/ >) installation guide dealing with the 'headless' install case for installing Slackware 14.2. There is nothing wrong with the original guide, it is very	howtos , rpi , raspberrypi , arm , author bifferos
Wireless Access Point With a Raspberry Pi 3	Wireless Access Point With a Raspberry Pi 3 Introduction This HOWTO shows you how to replace the WiFi element of your home network setup with a Raspberry Pi running Slackware. Other HOWTOs explain how to setup DHCP and so on for your wireless devices, but this tries to keep things really simple and just give you an ethernet	howtos , ethernet , wifi , wap , raspberrypi , arm , author bifferos
Slackware on a Raspberry Pi 4	Slackware on a Raspberry Pi 4 The Raspberry Pi 4 was released on 24 June 2019. The device features a Broadcom BCM2711B0 SoC incorporating a Quad-core ARMv8 Cortex-A72 [64 bit] CPU @ 1.5GHz, VideoCore VI GPU @ 500MHz, and comes in four different variations with 1GB, 2GB, 4GB, and 8GB LPDDR4 SDRAM @ 2400MHz installed. This revised and upgraded ARM single-board computer succeeds the	howtos , hardware , arm , author exaga
Slackware ARM local mirror repository - SAREPO	Slackware ARM local mirror repository - SAREPO It is acknowledged that there are more complete and distinguished Slackware repository solutions readily available. Such as, alienBOB's gen_repos_files.sh and mirror-slackware-current.sh scripts, and Dave Spencer's slackrepo. These are renowned, highly automated, tools for managing Slackware package repositories and mirrors.	howtos , slackware , arm , local , mirror , repository , cron , logrotate , httpd , slackpkg , author exaga
Making it easy for u-boot to find ulmage and uinitrd	Making it easy for u-boot to find ulmage and uinitrd I often fiddle with testing root images, kernels and initrd on my kirkwood based systems by using usb flash sticks. I found that although Jeff did a brilliant job on uboot, at the time I started fiddling with custom boot images on my dosckstar, his default environment was unable to directly boot all my testing images that were rapidly changing in layout. To work around this I started making canges to his environment.	howtos , arm , author , louigi600
Getting Slackware ARM on the Toshiba AC100 (also know as the Dynabook AZ)	Getting Slackware ARM on the Toshiba AC100 (also know as the Dynabook AZ) When all this started off I was using ARMedslack 13.37 but as of version 14 the official Slackware ARM port changed name to Slackware ARM. Any reference to ARMedslack in this short tutorial refers to the	howtos , hardware , arm , author louigi600

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