1.3. Changelog Linux From Scratch - Version 6.4 Chapter 1. Introduction Prev What's new since the last release Next Resources Up Home 1.3. Changelog This is version 6.4 of the Linux From Scratch book, dated November 23, 2008. If this book is more than six months old, a newer and better version is probably already available. To find out, please check one of the mirrors via http://www.linuxfromscratch.org/mirrors.html. Below is a list of changes made since the previous release of the book. Changelog Entries: 2008-11-23 [bdubbs] - Released LFS-6.4. 2008-11-05 [bdubbs] - Changed wording introducing test suites in Chapter 5. 2008-10-31 [dj] - Updated to lfs-bootscripts-20081031. 2008-10-30 [bdubbs] - Added explanation for --disable-libssp to GCC in Chapter 5. Also expanded/added explanation on language selection for GCC in Chapters 5 and 6. [bdubbs] - Wording changes to several text sections of Chapter 5. Thanks to Chris Staub for the patch. [bdubbs] - Added a consolidated patch to perl to address security and other issues. Changed the configure options for perl to define a vendor library location. 2008-10-29 [bdubbs] - Updated symbolic link creation loop for vi.1 man pages. Thanks to Bryan Kadzban for the construct. 2008-10-28 [bdubbs] - Updated to Tcl-8.5.5. [bdubbs] - Updated to latest stable kernel 2.6.27.4. [bdubbs] - Changed location of man pages in Module-Init-Tools. Thanks to Trent Shea for pointing out the fix. [bdubbs] - Updated to M4-1.4.12. 2008-10-27 [bdubbs] - Added chmod instructions to e2fsprogs and tcl to ensure all libraries are writable by root for stripping. [bdubbs] - Added a brief explanation of the Linux API Headers instructions. [bdubbs] - Added i386, linux32, and linux64 as symbolic links to setarch in util-linux contents. [bdubbs] - Moved gawk ahead of findutils in Chapter 6 to avoid a test suite failure in findutils. 2008-10-26 [bdubbs] - Added a General Compilation Instructions section immediatley before binutils. Essentially reordered the presentation that was in the Chapter 5 Introduction. [bdubbs] - Remove unnecessary mandir patch. Updated vim package contents. 2008-10-25 [dj] - Updated the text on the Man-DB page to accout for recent changes in Man-DB. Thanks to Alexander Patrakov for providing most of the included text, explanations, and examples. 2008-10-23 [dj] - Updated to lfs-bootscritps-20081023 to account for changes in the console page. [dj] - Updated text in console page to match current situation regarding linux kernel changes. Thanks to Alexander Patrakov for the text and explanations. [dj] - Updated Man-DB instructions and text covering manual pages and related i18n issues. 2008-10-22 [dj] - Corrected chown command for coreutils testsuite. [dj] - Updated to coreutils-6.12-i18n-2.patch. Thanks to Bryan Kadzban for the suggested fix. 2008-10-21 [matthew] - Added dependency information for GMP and MPFR packages. Thanks to Chris Staub for the patch. Also, removed dependency information for Mktemp. Thanks to William Immendorf for the report. Fixes #2218. [dj] - Updated list of minimum installed locales for testsuite coverage in Chapter 6 GLibc instructions. [bdubbs] - Added ac_cv_func_working_mktime=yes to the configure commands in gawk and bash to bypass the search for mktime. This works around a change in gcc. [bdubbs] - Added a note to the ifcfg script description in iproute2 that it requires external programs. [dj] - Added '--without-included-regex' to grep instrcutions in order to force the use of glibc's regex library. This fixes the -i switch for grep. [dj] - Reintroduced the command to supress installation of the vi_VN.TCVN locale as bash is still broken with it. [dj] - Put Coreutils-i18n patch back into place. 2008-10-20 [jhuntwork] - GCC 4.3.2 uses a new directory for fixed includes. Fixed the adjust toolchain scripts to point to the new location. 2008-10-19 [bdubbs] - Added a note to the Host System Requirements that the Linux host must be a 32-bit system and that the book only supports a 32-bit build. [randy] - Updated the book to use 4.13a as the Texinfo version, even though the tarball is exactly the same as the previous 4.13 version. [randy] - Removed an unnecessary command from the Chapter 5 Perl instructions. [bdubbs] - Updated the discussion in Chapter 1 explaining that the LiveCD is out of date. [bdubbs] - Added a paragraph to the note in the packages page explaining that bandwidth can be saved when making multiple updates within a minor kernel release by downloading a base version and patches. 2008-10-18 [jhuntwork] - Fixed build locations of m4 so that it links against the glibc built in /tools and so that no packages in chapter 6 hard-code references to the temporary location. Also made m4 a host requirement. 2008-10-15 [bdubbs] - Added --disable-libssp to glibc Pass 1 in Chapter 5 to eliminate a build failure on some systems. [dj] - Updated to udev-config-20081015. [dj] - Modified udev instructions following upstream recommendations. 2008-10-13 [randy] - Modified the Chapter 5 instructions so that instead of building the GMP and MPFR packages separately for GCC Pass2, they are built by GCC internally. [randy] - Added a configure option to the Chapter 6 Gettext instructions so that the documentation is installed in a versioned directory. 2008-10-12 [dj] - Updated to E2fsprogs-1.41.2. [dj] - Corrected installation prefixes of Iproute2 package with DESTDIR and MANDIR paths. Thanks to Steffen Pankratz for the fix. [randy] - Modified the Chapter 6 GMP instructions to include a method for determining all the tests in the test suite passed. [randy] - Modified the GCC search for correct headers command to account for the new include-fixed directory. [randy] - Added a patch to the Chapter 6 Binutils instructions to correct some errors in the test suite. [dj] - Corrected installation of udev rule files. [randy] - Moved the Chapter 6 M4 installation into alphabetical order as it is installed in Chapter 5 now and therefore doesn't need to precede the Bison installation. [randy] - Moved the Chapter 5 M4 installation to before GCC Pass1 so that the internal GCC build of GMP will not fail in case M4 doesn't exist on the host. Also updated GCC's dependencies to reflect GMP and MPFR. [dj] - Changed Chapter 5 GCC Pass 1 build to static. Thanks to Jeremy Huntwork for the suggestion and supporting text. [dj] - Added note to Chapter 6 GCC about the new include-fixed directory and changed the sample output to match. [dj] - Added instruction to keep Chapter 5 Glibc from honoring /etc/ld.so.preload. Thanks to Alexander Patrakov for the fix. [randy] - Added descriptions of the configure options used in the GMP instructions and updated the installed library descriptions. 2008-10-11 [dj] - Removed the Chapter 5 Glibc test suite information as it requires a working C++ compiler to run. [randy] - Added three configure parameters to the Chapter 6 Util-linux-ng instructions so that additional programs are installed. Also updated the installed programs list. [randy] - Added a sed command to the Sysvinit instructions to suppress the installation of the wall program and its man page as a maintained version

of this program is installed by Util-linux-ng. [randy] - Added commands to the Chapter 6 Binutils instructions to suppress the installation of standards.info. Thanks to Greg Schafer for contributing the fix. [randy] - Added a patch to the Procps instructions to fix a unicode related issue in the watch program. [randy] - Added documentation installation commands to the Chapter 6 Kbd instructions. [randy] - Modified the IPRoute2 installation command so that the docs are installed in a versioned directory. [randy] - Modified the Groff installation command so that the docs are installed in a standardized versioned directory. [randy] - Added documentation installation commands to the Chapter 6 Gawk instructions. [randy] - Added commands to the Chapter 6 Flex instructions to install a .pdf doc file. [randy] - Added a parameter to the configure command in the Automake instructions so that docs are installed in a versioned directory. [randy] - Updated Module-Init-Tools to 3.4.1. [randy] - Added documentation installation commands to the Chapter 6 Readline instructions. [randy] - Added documentation installation commands to the Chapter 6 Ncurses instructions. 2008-10-10 [randy] - Added documentation enhancements to the E2fsprogs package. [randy] - Removed an unnecessary parameter from the Util-linux-ng Chapter 6 make command. Thanks to Greg Schafer for pointing it out. [randy] - Updated the Perl instructions. Thanks to Greg Schafer for pointing out the issues. This change also required that the Zlib package is built right before the Perl package in Chapter 6. [randy] - Updated Vim to 7.2. [randy] - Updated Udev to 130. 2008-10-09 [randy] - Updated File to 4.26 [randy] - Updated Shadow to 4.1.2.1. [randy] - Updated Man-DB to 2.5.2. [randy] - Updated Iproute to 2.6.26. [randy] - Added a command to the Inetutils instructions to correct an issue with GCC-4.3.2. 2008-10-07 [randy] - Updated Autoconf to 2.63. [randy] - Updated Libtool to 2.2.6a. [randy] - Corrected the instruction to untar the E2fsprogs tarball in Section 2.3. Thanks to William Immendorf for pointing out the error. [randy] - Updated Berkeley DB to 4.7.25. [randy] - Updated Man-pages to 3.11. [randy] - Updated Util-linux-ng to 2.14.1. [randy] - Updated Texinfo to 4.13. 2008-10-06 [robert] - Added -v to the cp command in the Chapter 5 Expect instructions. [randy] - Updated Tar to 1.20. [randy] - Updated Perl to 5.10.0. [randy] - Updated M4 to 1.4.11 and added it to the Chapter 5 build as it is required by the GMP package in Chapter 6. [randy] - Updated Findutils to 4.4.0. 2008-10-05 [randy] - Updated E2fsprogs to 1.41.1. [randy] - Added the Mktemp-1.5 package to the list of removed items in the Chapter3 'What's new ...' page. [randy] - Updated Coreutils to 6.12. Thanks to William Immendorf for contributing a patch to add the mktemp program information to the Coreutils page. [randy] - Updated the Bash Fixes patch to the -8 version. [randy] - Added a patch to the Expect instructions to fix an issue with recent Tcl versions. [randy] - Updated Tcl to 8.5.4. [randy] - Updated the Linux kernel to 2.6.26.5. [randy] - Updated Glibc to a 2.8 snapshot taken on 9/29/2008. The tarball of this snapshot includes the libidn data that previously was separately packaged. [randy] - Added the GMP and MPFR packages to the list of packages in Chapter 3. Thanks to Lefteris Dimitroulakis for pointing out the omission. 2008-10-03 [bdubbs] - Added version check for Perl in Host System Requirements. [randy] - Updated GCC to 4.3.2 which includes adding the GMP-4.2.4 and MPFR-2.3.2 packages. This new version of GCC requires the added packages. Thanks to DJ Lucas for the stimulus and initial work resulting in this and all of the other package updates coming up. 2008-07-11 [ken] - Belatedly fixed known vulnerabilities in perl. 2008-06-03 [bdubbs] - Added udev-config scripts to appendices. [bdubbs] - Added lfs-bootscripts to appendices. [bdubbs] - Updated license to Creative Commons with extracted code under the MIT license. 2008-05-23 [bryan] - Install a few extra rules from the etc/udev/packages directory in udev. Thanks to Dan Nicholson for noticing the issue. 2008-05-22 [bryan] - Updated Udev to 122, udev-config to 20080522, and lfs-bootscripts to 20080522. Also made persistent-net rules able to be pre-generated, using udevadm test. Fixes #2057, #2079 (I think), #2170, and #2186. 2008-04-23 [jhuntwork] - Use -mtune=native for glibc. We don't want our libc optimized for 486. It should be optimized for the local machine. [jhuntwork] - Updated Autoconf to 2.62. [jhuntwork] - Updated E2fsprogs to 1.40.8. Fixes #2173. [jhuntwork] - Fixed behavior in kbd where man pages for optional programs that aren't built are installed. Thanks Greg Schafer for spotting this. [jhuntwork] - Fixed kbd to install getkeycodes, setkeycodes and resizecons. Also moved loadkeys to /bin from /usr/bin. Thanks, Greg Schafer. 2008-04-22 [jhuntwork] - Updated Kbd to 1.14.1. Fixes #2162. [jhuntwork] - Updated Flex to 2.5.35. Fixes #2179. 2008-04-11 [bdubbs] - Updated host requirments to check for symbolic links from sh, awk, and yacc. 2008-04-03 [jhuntwork] - Suppress installation of uptime in coreutils. Thanks to Randy McMurchy. Fixes #2133. [jhuntwork] - Upgraded to iana-etc-2.30. Fixes #2174. [jhuntwork] - Added patch for 256-byte inode support in GRUB. Fixes #2161. 2008-04-02 [jhuntwork] - Updated to linux-2.6.24.4, fixes #2157. [jhuntwork] - Added an upstream patch for db-4.6.21, thanks Randy McMurchy for the report. Fixes #2164. 2008-03-30 [dnicholson] - Added --sysconfdir parameter to Man-db's configure command so that man_db.conf is installed in /etc. 2008-03-27 [ken] - Updated bzip2 to 1.0.5, fixes CVE-2008-1372. 2008-02-26 [ken] - Corrected typo in name of ru-ms keymap. [ken] - Updated Kbd to 1.13. 2008-02-24 [matthew] - Add --libexecdir parameter to Man-db's configure command so that globbing and manconv are installed into /usr/libexec/man-db. Fixes #2153. Also, remove the --enable-mb-groff parameter, as this is now detected automatically. 2008-02-19 [ken] - Updated Grep to 2.5.3, thanks to Matthew for the fix for automated builds. [ken] - Updated Flex to 2.5.34. [ken] - Updated Module-Init-Tools to 3.4. 2008-02-17 [matthew] - Upgraded to latest upstream Vim patches. [matthew] - Upgraded to Tcl-8.4.18. Fixes #2146. [matthew] - Upgraded to Man-pages-2.78. Fixes #2152. [matthew] - Upgraded to Man-DB-2.5.1. Fixes #2148. [matthew] - Upgraded to Linux-2.6.24.2. Fixes #2147. [matthew] - Now that mktemp is installed by Coreutils in chapter 5, there is no need to fix up GCC's gccbug in chapter 6. Thanks to Greg Schafer for the report. [matthew] - Upgraded to Findutils-4.2.33. Fixes #2151. [matthew] - Upgraded to E2fsprogs-1.40.6. Fixes #2149. 2008-02-07 [matthew] - Added a patch to fix a known issue in the Automake test suite. Fixes #2143. [matthew] - Upgraded to Man-pages-2.77. Fixes #2142. [matthew] - Upgraded to Libtool-1.5.26. Fixes #2141. [matthew] - Upgraded to GCC-4.2.3. Fixes #2140. [matthew] - Upgraded to Coreutils-6.10.

Removed Mktemp-1.5 as Coreutils provides its own implementation now. Removed the coreutils binary suppression patch as the configure script can now be given a list of programs not to install. Fixes #2133. [matthew] - Upgraded to E2fsprogs-1.40.5. Fixes #2138. 2008-01-29 [matthew] - Upgraded to Linux-2.6.24. Fixes #2137. [matthew] - Upgraded to Findutils-4.2.32. Fixes #2136. [matthew] - Upgraded to Automake-1.10.1. Fixes #2132. 2008-01-22 [matthew] - Replaced Util-Linux-2.12r, with Util-Linux-NG-2.13.1. Fixes #2077. [matthew] - Upgraded to Tcl-8.4.17. Fixes #2131. [matthew] - Upgraded to Man-Pages-2.76. Fixes #2129. [matthew] - Upgraded to Linux-2.6.23.14. Fixes #2128. 2008-01-19 [matthew] - Add Perl to the list of host requirements, as it is required by Glibc. Thanks to Ben Collver for the report. Fixes #2112. [matthew] - Mention strace as another means of logging installed files, and correct the URL of the Linux Standard Base specifications. Fixes #2073 and #2130. 2008-01-04 [matthew] - Upgraded to latest upstream fixes for Vim. [matthew] - Upgraded to Less-418. Fixes #2124. [matthew] - Upgraded to File-4.23. Fixes #2125. [matthew] - Upgraded to E2fsprogs-1.40.4. Fixes #2123. 2007-12-23 [matthew] - Upgraded to latest upstream fixes for Readline. Fixes #2122. [matthew] - Upgraded to Man-Pages-2.74. Fixes #2119. [matthew] - Upgraded to Linux-2.6.23.12. Fixes #2118. [matthew] - Upgraded to latest upstream fixes for Bash. Fixes #2121. 2007-12-08 [matthew] - Upgraded to latest upstream fixes for Vim. Fixes #2108. [matthew] - Upgraded to Texinfo-4.11. Fixes #2074. [matthew] - Upgraded to Psmisc-22.6. Fixes #2104. [matthew] - Upgraded to Man-Pages-2.70. Fixes #2110. [matthew] - Upgraded to Man-DB-2.5.0. Fixes #2109. [matthew] - Upgraded to Linux-2.6.23.9. Fixes #2106. [matthew] - Upgraded to Less-416. Fixes #2105. [matthew] - Upgraded to Gettext-0.17. Fixes #2103. [matthew] - Removed the modifications to Gawk's config.h as Gawk-3.1.6 fixes the bug that they were working around. Fixes #2107. Thanks to Erik-Jan for the report. [matthew] - Removed the modifications to Gawk's config.h as Gawk-3.1.6 fixes the bug that they were working around. Fixes #2107. Thanks to Erik-Jan for the report. [matthew] - Upgraded to E2fsprogs-1.40.3. Fixes #2116. 2007-11-25 [bdubbs] - Fixed test for Debian binutils. 2007-10-29 [bdubbs] - Removed obsolete note from Creating Symlinks section about continuation lines in udev rules. Changed dailout group to uucp for udev rule compatability. [matthew] - Upgrade to the latest upstream patches for Vim. [matthew] - Add a patch to fix a segfault in usb_id. [matthew] - Upgrade to Tcl-8.4.16. Fixes #2084. [matthew] - Upgrade to Tar-1.19. Fixes #2090. [matthew] - Upgrade to Man-Pages-2.67. Fixes #2078. [matthew] - Upgrade to Linux-2.6.23.1. Fixes #2088. [matthew] - Upgrade to Less-409. Fixes #2087. [matthew] - Upgrade to IPRoute2-2.6.23. Fixes #2091. [matthew] - Upgrade to Glibc-2.7. Fixes #2095. [matthew] - Upgrade to GCC-4.2.2. Fixes #2089. [matthew] - Upgrade to Gawk-3.1.6. Fixes #2098. [matthew] - Upgrade to DB-4.6.21. Fixes #2086. 2007-09-25 [manuel] - More updates in dependencies list. Thanks to Chris Staub for the patch. 2007-09-23 [manuel] - Updated dependencies list. Thanks to Chris Staub for the patch. 2007-09-21 [manuel] - Fixed glibc-libidn tarball extension. 2007-09-18 [manuel] - Added remap attributes to userinput tags in packages pages to help adding package manager support and other extensions into jhalfs. Made all testsuite commands screen blocks for consistency. 2007-09-16 [manuel] - Updated Ncurses contents list and fixes some typos. Thanks to Chris Staub for the patch. 2007-09-15 [matthew] - Add latest upstream patches for Vim. [matthew] - Upgrade to Sysklogd-1.5. Fixes #2055. [matthew] - Add latest upstream patches for Readline. Fixes #2068. [matthew] - Upgrade to Man-pages 2.64. Fixes #2061. [matthew] - Upgrade to Linux-2.6.22.6. Fixes #2070. [jhuntwork] - Upgrade to Glibc-2.6.1. Fixes #2018. Thanks to Matthew Burgess for preparing a discrete patch, Robert Connolly and Dan Nicholson for investigating how best to adjust CFLAGS, and Greg Schafer for showing the technical benefits of using CFLAGS with Glibc. [jhuntwork] - Upgrade to GCC-4.2.1. Fixes #2002. Thanks to Matthew Burgess for preparing a discrete patch. [matthew] - Upgrade to DB-4.6.19. Fixes #2051. [matthew] - Upgrade to Binutils-2.18. Fixes #2069. [matthew] - Add latest upstream patches for Bash. Fixes #2067. 2007-09-07 [manuel] - Added sect1info metainformation blocks to packages pages to help adding package manager support into jhalfs. LFS 6.3 released August 28, 2007. Prev What's new since the last release Next Resources Up Home