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MA-E3xx シリーズ

共通仕様

CPU		Texas Instruments Sitara AM3352 1GHz (ARM Cortex-A8)
RAM		512MiBytes (option: 1GiBytes)
Flash ROM		NAND 256MiBytes (option: 512MiBytes), SPI NOR 2MiB(boot)
Interface	Ethernet	10BASE-T/100BASE-TX/100BASE-TX x 2port (RJ-45, Auto Negotiation, Full/Half Duplex, Auto MDI/MDIX)
	WAN	USBデータ通信アダプタ
	Serial	RS-232(DTE) DB9 Max460.8kbps x 1 or RS-485 x 1 (ModelName: MA-E325)
	USB	USB2.0 High-Speed Host x 1 (Type-A)
SD Card		SDHC対応 x 1
Console		Linux Console用シリアル (RJ-45)
LED		System: Power x 1, Status x 3 (bi-color)
		Ethernet: Link/Active x 2, Speed x 2

導入済みパッケージ一覧

2014/07/18現在の導入済みパッケージ一覧です。

要望=(U)不明/(I)インストール/(R)削除/(P)完全削除/(H)保持			
状態=(N)無/(I)インストール済/(C)設定/(U)展開/(F)設定失敗/(H)半インストール/(W)トリガ待ち/(T)トリガ保留			
/ エラー?=(空欄)無/(R) 要再インストール (状態,エラーの大文字=異常)			
/ 名前 バージョン アーキテクチャ 説明			
+++-----			

=====			
===			
ii	adduser	3.113+nmu3ubuntu3	all
add and remove users and groups			
ii	apcupsd	3.14.10-2build1	armhf
APC UPS Power Management (daemon)			
ii	apt	1.0.1ubuntu2.1	armhf
commandline package manager			
ii	apt-utils	1.0.1ubuntu2.1	armhf
package management related utility programs			
ii	aufs-tools	1:3.2+20130722-1.1	armhf
Tools to manage aufs filesystems			
ii	base-files	7.2ubuntu5	armhf
Debian base system miscellaneous files			
ii	base-passwd	3.5.33	armhf
Debian base system master password and group files			
ii	bash	4.3-7ubuntu1	armhf

GNU Bourne Again SHell

ii	bash-completion	1:2.1-4	all
	programmable completion for the bash shell		
ii	bridge-utils	1.5-6ubuntu2	armhf
	Utilities for configuring the Linux Ethernet bridge		
ii	bsdutils	1:2.20.1-5.1ubuntu20.1	armhf
	Basic utilities from 4.4BSD-Lite		
ii	busybox	1:1.21.0-1ubuntu1	armhf
	Tiny utilities for small and embedded systems		
ii	busybox-initramfs	1:1.21.0-1ubuntu1	armhf
	Standalone shell setup for initramfs		
ii	bzip2	1.0.6-5	armhf
	high-quality block-sorting file compressor - utilities		
ii	ca-certificates	20130906ubuntu2	all
	Common CA certificates		
ii	coreutils	8.21-1ubuntu5	armhf
	GNU core utilities		
ii	cpio	2.11+dfsg-1ubuntu1	armhf
	GNU cpio -- a program to manage archives of files		
ii	cpufrequtils	008-1	armhf
	utilities to deal with the cpufreq Linux kernel feature		
ii	cron	3.0pl1-124ubuntu2	armhf
	process scheduling daemon		
ii	dash	0.5.7-4ubuntu1	armhf
	POSIX-compliant shell		
ii	dbus	1.6.18-0ubuntu4.1	armhf
	simple interprocess messaging system (daemon and utilities)		
hi	ddclient	3.8.1-1ubuntu2	all
	address updating utility for dynamic DNS services		
ii	debconf	1.5.51ubuntu2	all
	Debian configuration management system		
ii	debconf-i18n	1.5.51ubuntu2	all
	full internationalization support for debconf		
ii	debianutils	4.4	armhf
	Miscellaneous utilities specific to Debian		
ii	dh-python	1.20140128-1ubuntu8	all
	Debian helper tools for packaging Python libraries and applications		
ii	dhcpcd	1:3.2.3-11	armhf
	DHCP client for automatically configuring IPv4 networking		
ii	diffutils	1:3.3-1	armhf
	File comparison utilities		
ii	dmsetup	2:1.02.77-6ubuntu2	armhf
	Linux Kernel Device Mapper userspace library		
ii	dnsmasq	2.68-1	all
	Small caching DNS proxy and DHCP/TFTP server		
ii	dnsmasq-base	2.68-1	armhf
	Small caching DNS proxy and DHCP/TFTP server		
ii	dosfstools	3.0.26-1	armhf
	utilities for making and checking MS-DOS FAT filesystems		
ii	dpkg	1.17.5ubuntu5.3	armhf
	Debian package management system		

ii	e2fslibs:armhf	1.42.9-3ubuntu1	armhf
	ext2/ext3/ext4 file system libraries		
ii	e2fsprogs	1.42.9-3ubuntu1	armhf
	ext2/ext3/ext4 file system utilities		
ii	easy-rsa	2.2.2-1	all
	Simple shell based CA utility		
ii	ebtables	2.0.10.4-3ubuntu1	armhf
	Ethernet bridge frame table administration		
ii	eject	2.1.5+deb1+cvs20081104-13.1	armhf
	ejects CDs and operates CD-Changers under Linux		
ii	etherwake	1.09-4	armhf
	tool to send magic Wake-on-LAN packets		
ii	ethtool	1:3.13-1	armhf
	display or change Ethernet device settings		
ii	file	1:5.14-2ubuntu3.1	armhf
	Determines file type using "magic" numbers		
ii	findutils	4.4.2-7	armhf
	utilities for finding files--find, xargs		
ii	fuse-zip	0.2.13-0ubuntu2	armhf
	ZIP archive mounter based on FUSE		
ii	gcc-4.8-base:armhf	4.8.2-19ubuntu1	armhf
	GCC, the GNU Compiler Collection (base package)		
ii	gcc-4.9-base:armhf	4.9-20140406-0ubuntu1	armhf
	GCC, the GNU Compiler Collection (base package)		
ii	gir1.2-glib-2.0	1.40.0-1ubuntu0.1	armhf
	Introspection data for GLib, GObject, Gio and GModule		
ii	gnupg	1.4.16-1ubuntu2.1	armhf
	GNU privacy guard - a free PGP replacement		
ii	gpgv	1.4.16-1ubuntu2.1	armhf
	GNU privacy guard - signature verification tool		
ii	grep	2.16-1	armhf
	GNU grep, egrep and fgrep		
ii	gzip	1.6-3ubuntu1	armhf
	GNU compression utilities		
ii	hostname	3.15ubuntu1	armhf
	utility to set/show the host name or domain name		
ii	ifupdown	0.7.47.2ubuntu4.1	armhf
	high level tools to configure network interfaces		
ii	init-system-helpers	1.14	all
	helper tools for all init systems		
hi	initramfs-tools	0.103ubuntu4	all
	tools for generating an initramfs		
hi	initramfs-tools-bin	0.103ubuntu4	armhf
	binaries used by initramfs-tools		
ii	initscripts	2.88dsf-41ubuntu6	armhf
	scripts for initializing and shutting down the system		
ii	insserv	1.14.0-5ubuntu2	armhf
	boot sequence organizer using LSB init.d script dependency information		
ii	iperf	2.0.5-3	armhf
	Internet Protocol bandwidth measuring tool		
ii	iproute2	3.12.0-2	armhf

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networking and traffic control tools
ii  iptables                                1.4.21-1ubuntu1      armhf
administration tools for packet filtering and NAT
ii  iputils-ping                           3:20121221-4ubuntu1.1 armhf
Tools to test the reachability of network hosts
ii  ipython3                               1.2.1-2              all
enhanced interactive Python 3 shell
ii  iso-codes                              3.52-1               all
ISO language, territory, currency, script codes and their translations
ii  keyboard-configuration                 1.70ubuntu8          all
system-wide keyboard preferences
ii  klibc-utils                            2.0.3-0ubuntu1       armhf
small utilities built with klibc for early boot
ii  kmod                                   15-0ubuntu6          armhf
tools for managing Linux kernel modules
ii  krb5-locales                           1.12+dfsg-2ubuntu4   all
Internationalization support for MIT Kerberos
ii  less                                  458-2                armhf
pager program similar to more
ii  libacl1:armhf                          2.2.52-1             armhf
Access control list shared library
ii  libapparmor1:armhf                     2.8.95~2430-0ubuntu5 armhf
changehat AppArmor library
ii  libapt-inst1.5:armhf                    1.0.1ubuntu2.1       armhf
deb package format runtime library
ii  libapt-pkg4.12:armhf                     1.0.1ubuntu2.1       armhf
package management runtime library
ii  libasn1-8-heimdal:armhf                 1.6~git20131207+dfsg-1ubuntu1 armhf
Heimdal Kerberos - ASN.1 library
ii  libattr1:armhf                          1:2.4.47-1ubuntu1    armhf
Extended attribute shared library
ii  libaudit-common                         1:2.3.2-2ubuntu1     all
Dynamic library for security auditing - common files
ii  libaudit1:armhf                         1:2.3.2-2ubuntu1     armhf
Dynamic library for security auditing
ii  libblkid1:armhf                         2.20.1-5.1ubuntu20.1 armhf
block device id library
ii  libbsd0:armhf                           0.6.0-2ubuntu1       armhf
utility functions from BSD systems - shared library
ii  libbz2-1.0:armhf                        1.0.6-5              armhf
high-quality block-sorting file compressor library - runtime
ii  libc-ares2:armhf                         1.10.0-2             armhf
asynchronous name resolver
ii  libc-bin                                2.19-0ubuntu6        armhf
Embedded GNU C Library: Binaries
ii  libc6:armhf                              2.19-0ubuntu6        armhf
Embedded GNU C Library: Shared libraries
ii  libcap2:armhf                            1:2.24-0ubuntu2      armhf
support for getting/setting POSIX.1e capabilities
ii  libcgmanager0:armhf                      0.24-0ubuntu7        armhf
Central cgroup manager daemon (client library)

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ii libck-connector0:armhf	0.4.5-3.1ubuntu2	armhf
ConsoleKit libraries		
ii libcomerr2:armhf	1.42.9-3ubuntu1	armhf
common error description library		
ii libcpufreq0	008-1	armhf
shared library to deal with the cpufreq Linux kernel feature		
ii libcurl3-gnutls:armhf	7.35.0-1ubuntu2	armhf
easy-to-use client-side URL transfer library (GnuTLS flavour)		
ii libdb5.1:armhf	5.1.29-7ubuntu1	armhf
Berkeley v5.1 Database Libraries [runtime]		
ii libdb5.3:armhf	5.3.28-3ubuntu3	armhf
Berkeley v5.3 Database Libraries [runtime]		
ii libdbus-1-3:armhf	1.6.18-0ubuntu4.1	armhf
simple interprocess messaging system (library)		
ii libdbus-glib-1-2:armhf	0.100.2-1	armhf
simple interprocess messaging system (GLib-based shared library)		
ii libdebconfclient0:armhf	0.187ubuntu1	armhf
Debian Configuration Management System (C-implementation library)		
ii libdevmapper1.02.1:armhf	2:1.02.77-6ubuntu2	armhf
Linux Kernel Device Mapper userspace library		
ii libdrm2:armhf	2.4.52-1	armhf
Userspace interface to kernel DRM services -- runtime		
ii libedit2:armhf	3.1-20130712-2	armhf
BSD editline and history libraries		
ii libelf1:armhf	0.158-0ubuntu5.1	armhf
library to read and write ELF files		
ii libencode-locale-perl	1.03-1	all
utility to determine the locale encoding		
ii libestr0	0.1.9-0ubuntu2	armhf
Helper functions for handling strings (lib)		
ii libevent-2.0-5:armhf	2.0.21-stable-1ubuntu1	armhf
Asynchronous event notification library		
ii libexpat1:armhf	2.1.0-4ubuntu1	armhf
XML parsing C library - runtime library		
ii libffi6:armhf	3.1~rc1+r3.0.13-12	armhf
Foreign Function Interface library runtime		
ii libfile-listing-perl	6.04-1	all
module to parse directory listings		
ii libfribidi0:armhf	0.19.6-1	armhf
Free Implementation of the Unicode BiDi algorithm		
ii libfuse2:armhf	2.9.2-4ubuntu4	armhf
Filesystem in Userspace (library)		
ii libgcc1:armhf	1:4.9-20140406-0ubuntu1	armhf
GCC support library		
ii libgcrypt11:armhf	1.5.3-2ubuntu4	armhf
LGPL Crypto library - runtime library		
ii libgdbm3:armhf	1.8.3-12build1	armhf
GNU dbm database routines (runtime version)		
ii libgirepository-1.0-1	1.40.0-1ubuntu0.1	armhf
Library for handling GObject introspection data (runtime library)		
ii libglib2.0-0:armhf	2.40.0-2	armhf

GLib library of C routines		
ii libglib2.0-data	2.40.0-2	all
Common files for GLib library		
ii libgnutls-openssl27:armhf	2.12.23-12ubuntu2.1	armhf
GNU TLS library - OpenSSL wrapper		
ii libgnutls26:armhf	2.12.23-12ubuntu2.1	armhf
GNU TLS library - runtime library		
ii libgpg-error0:armhf	1.12-0.2ubuntu1	armhf
library for common error values and messages in GnuPG components		
ii libgssapi-krb5-2:armhf	1.12+dfsg-2ubuntu4	armhf
MIT Kerberos runtime libraries - krb5 GSS-API Mechanism		
ii libgssapi3-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - GSSAPI support library		
ii libgssglue1:armhf	0.4-2ubuntu1	armhf
mechanism-switch gssapi library		
ii libhcrypto4-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - crypto library		
ii libheimbase1-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - Base library		
ii libheimntlm0-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - NTLM support library		
ii libhtml-parser-perl	3.71-1build1	armhf
collection of modules that parse HTML text documents		
ii libhtml-tagset-perl	3.20-2	all
Data tables pertaining to HTML		
ii libhtml-tree-perl	5.03-1	all
Perl module to represent and create HTML syntax trees		
ii libhttp-cookies-perl	6.00-2	all
HTTP cookie jars		
ii libhttp-date-perl	6.02-1	all
module of date conversion routines		
ii libhttp-message-perl	6.06-1	all
perl interface to HTTP style messages		
ii libhttp-negotiate-perl	6.00-2	all
implementation of content negotiation		
ii libhx509-5-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - X509 support library		
ii libidn11:armhf	1.28-1ubuntu2	armhf
GNU Libidn library, implementation of IETF IDN specifications		
ii libio-html-perl	1.00-1	all
open an HTML file with automatic charset detection		
ii libio-socket-ssl-perl	1.965-1ubuntu1	all
Perl module implementing object oriented interface to SSL sockets		
ii libjson-c2:armhf	0.11-3ubuntu1.2	armhf
JSON manipulation library - shared library		
ii libjson0:armhf	0.11-3ubuntu1.2	armhf
JSON manipulation library (transitional package)		
ii libk5crypto3:armhf	1.12+dfsg-2ubuntu4	armhf
MIT Kerberos runtime libraries - Crypto Library		
ii libkeyutils1:armhf	1.5.6-1	armhf
Linux Key Management Utilities (library)		

ii libklibc	2.0.3-0ubuntu1	armhf
minimal libc subset for use with initramfs		
ii libkmod2:armhf	15-0ubuntu6	armhf
libkmod shared library		
ii libkrb5-26-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - libraries		
ii libkrb5-3:armhf	1.12+dfsg-2ubuntu4	armhf
MIT Kerberos runtime libraries		
ii libkrb5support0:armhf	1.12+dfsg-2ubuntu4	armhf
MIT Kerberos runtime libraries - Support library		
ii libldap-2.4-2:armhf	2.4.31-1+nmu2ubuntu8	armhf
OpenLDAP libraries		
ii liblocale-gettext-perl	1.05-7build3	armhf
module using libc functions for internationalization in Perl		
ii liblockfile-bin	1.09-6ubuntu1	armhf
support binaries for and cli utilities based on liblockfile		
ii liblockfile1:armhf	1.09-6ubuntu1	armhf
NFS-safe locking library		
ii libluajit-5.1-common	2.0.2+dfsg-1	all
Just in time compiler for Lua - common files		
ii liblwp-mediatypes-perl	6.02-1	all
module to guess media type for a file or a URL		
ii liblwp-protocol-https-perl	6.04-2ubuntu0.1	all
HTTPS driver for LWP::UserAgent		
ii liblzma5:armhf	5.1.1alpha+20120614-2ubuntu2	armhf
XZ-format compression library		
ii liblzo2-2:armhf	2.06-1.2ubuntu1	armhf
data compression library		
ii libmagic1:armhf	1:5.14-2ubuntu3.1	armhf
File type determination library using "magic" numbers		
ii libmnl0:armhf	1.0.3-3ubuntu1	armhf
minimalistic Netlink communication library		
ii libmount1:armhf	2.20.1-5.1ubuntu20.1	armhf
block device id library		
ii libmpdec2:armhf	2.4.0-6	armhf
library for decimal floating point arithmetic (runtime library)		
ii libncurses5:armhf	5.9+20140118-1ubuntu1	armhf
shared libraries for terminal handling		
ii libncursesw5:armhf	5.9+20140118-1ubuntu1	armhf
shared libraries for terminal handling (wide character support)		
ii libnet-http-perl	6.06-1	all
module providing low-level HTTP connection client		
ii libnet-ssleay-perl	1.58-1	armhf
Perl module for Secure Sockets Layer (SSL)		
ii libnetfilter-contrack3:armhf	1.0.4-1	armhf
Netfilter netlink-contrack library		
ii libnewt0.52:armhf	0.52.15-2ubuntu5	armhf
Not Erik's Windowing Toolkit - text mode windowing with slang		
ii libnfnetwork0:armhf	1.0.1-2	armhf
Netfilter netlink library		
ii libnfsidmap2:armhf	0.25-5	armhf

NFS idmapping library		
ii libnih-dbus1:armhf	1.0.3-4ubuntu25	armhf
NIH D-Bus Bindings Library		
ii libnih1:armhf	1.0.3-4ubuntu25	armhf
NIH Utility Library		
ii libopts25:armhf	1:5.18-2ubuntu2	armhf
automated option processing library based on autogen		
ii libp11-kit0:armhf	0.20.2-2ubuntu2	armhf
Library for loading and coordinating access to PKCS#11 modules - runtime		
ii libpam-modules:armhf	1.1.8-1ubuntu2	armhf
Pluggable Authentication Modules for PAM		
ii libpam-modules-bin	1.1.8-1ubuntu2	armhf
Pluggable Authentication Modules for PAM - helper binaries		
ii libpam-runtime	1.1.8-1ubuntu2	all
Runtime support for the PAM library		
ii libpam0g:armhf	1.1.8-1ubuntu2	armhf
Pluggable Authentication Modules library		
ii libpcap0.8:armhf	1.5.3-2	armhf
system interface for user-level packet capture		
ii libpcre3:armhf	1:8.31-2ubuntu2	armhf
Perl 5 Compatible Regular Expression Library - runtime files		
ii libpcsc-lite1:armhf	1.8.10-1ubuntu1	armhf
Middleware to access a smart card using PC/SC (library)		
ii libpipeline1:armhf	1.3.0-1	armhf
pipeline manipulation library		
ii libplymouth2:armhf	0.8.8-0ubuntu17	armhf
graphical boot animation and logger - shared libraries		
ii libpng12-0:armhf	1.2.50-1ubuntu2	armhf
PNG library - runtime		
ii libpopt0:armhf	1.16-8ubuntu1	armhf
lib for parsing cmdline parameters		
ii libprocps0:armhf	1:3.3.3-2ubuntu9	armhf
library for accessing process information from /proc		
ii libprocps3:armhf	1:3.3.9-1ubuntu2	armhf
library for accessing process information from /proc		
ii libpython3-stdlib:armhf	3.4.0-0ubuntu2	armhf
interactive high-level object-oriented language (default python3 version)		
ii libpython3.4-minimal:armhf	3.4.0-2ubuntu1	armhf
Minimal subset of the Python language (version 3.4)		
ii libpython3.4-stdlib:armhf	3.4.0-2ubuntu1	armhf
Interactive high-level object-oriented language (standard library, version 3.4)		
ii libreadline6:armhf	6.3-4ubuntu2	armhf
GNU readline and history libraries, run-time libraries		
ii libroken18-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - roken support library		
ii librtmp0:armhf	2.4+20121230.gitdf6c518-1	armhf
toolkit for RTMP streams (shared library)		
ii libssl2-2:armhf	2.1.25.dfsg1-17build1	armhf
Cyrus SASL - authentication abstraction library		
ii libssl2-modules:armhf	2.1.25.dfsg1-17build1	armhf

Cyrus SASL - pluggable authentication modules		
ii	libsasl2-modules-db:armhf	2.1.25.dfsg1-17build1 armhf
Cyrus SASL - pluggable authentication modules (DB)		
ii	libselinux1:armhf	2.2.2-1ubuntu0.1 armhf
SELinux runtime shared libraries		
ii	libsemanage-common	2.2-1 all
Common files for SELinux policy management libraries		
ii	libsemanage1:armhf	2.2-1 armhf
SELinux policy management library		
ii	libsepol1:armhf	2.2-1 armhf
SELinux library for manipulating binary security policies		
ii	libslang2:armhf	2.2.4-15ubuntu1 armhf
S-Lang programming library - runtime version		
ii	libsqlite3-0:armhf	3.8.2-1ubuntu2 armhf
SQLite 3 shared library		
ii	libss2:armhf	1.42.9-3ubuntu1 armhf
command-line interface parsing library		
ii	libssl1.0.0:armhf	1.0.1f-1ubuntu2.4 armhf
Secure Sockets Layer toolkit - shared libraries		
ii	libstdc++6:armhf	4.8.2-19ubuntu1 armhf
GNU Standard C++ Library v3		
ii	libsystemd-login0:armhf	204-5ubuntu20.3 armhf
systemd login utility library		
ii	libtasn1-3:armhf	2.14-3ubuntu1 armhf
Manage ASN.1 structures (runtime)		
ii	libtasn1-6:armhf	3.4-3 armhf
Manage ASN.1 structures (runtime)		
ii	libterm-readkey-perl	2.31-1 armhf
perl module for simple terminal control		
ii	libtext-charwidth-perl	0.04-7build3 armhf
get display widths of characters on the terminal		
ii	libtext-iconv-perl	1.7-5build2 armhf
converts between character sets in Perl		
ii	libtext-wrap18n-perl	0.06-7 all
internationalized substitute of Text::Wrap		
ii	libtimedate-perl	2.3000-1 all
collection of modules to manipulate date/time information		
ii	libtinfo5:armhf	5.9+20140118-1ubuntu1 armhf
shared low-level terminfo library for terminal handling		
ii	libtirpc1:armhf	0.2.2-5ubuntu2 armhf
transport-independent RPC library		
ii	libudev1:armhf	204-5ubuntu20.3 armhf
libudev shared library		
ii	libuniconf4.6	4.6.1-7 armhf
C++ network libraries for rapid application development		
ii	liburi-perl	1.60-1 all
module to manipulate and access URI strings		
ii	libusb-0.1-4:armhf	2:0.1.12-23.3ubuntu1 armhf
userspace USB programming library		
ii	libusb-1.0-0:armhf	2:1.0.17-1ubuntu2 armhf
userspace USB programming library		

ii libustr-1.0-1:armhf	1.0.4-3ubuntu2	armhf
Micro string library: shared library		
ii libuuid1:armhf	2.20.1-5.1ubuntu20.1	armhf
Universally Unique ID library		
ii libv8-3.14.5	3.14.5.8-5ubuntu2	armhf
V8 JavaScript engine - runtime library		
ii libwind0-heimdal:armhf	1.6~git20131207+dfsg-1ubuntu1	armhf
Heimdal Kerberos - stringprep implementation		
ii libwrap0:armhf	7.6.q-25	armhf
Wietse Venema's TCP wrappers library		
ii libwvstreams4.6-base	4.6.1-7	armhf
C++ network libraries for rapid application development		
ii libwvstreams4.6-extras	4.6.1-7	armhf
C++ network libraries for rapid application development		
ii libwww-perl	6.05-2	all
simple and consistent interface to the world-wide web		
ii libwww-robotrules-perl	6.01-1	all
database of robots.txt-derived permissions		
ii libxml2:armhf	2.9.1+dfsg1-3ubuntu4.3	armhf
GNOME XML library		
ii libxtables10	1.4.21-1ubuntu1	armhf
netfilter xtables library		
ii libzip2	0.10.1-1.2	armhf
library for reading, creating, and modifying zip archives (runtime)		
ii localepurge	0.7.3.2	all
reclaim disk space by removing unneeded localizations		
ii locales	2.13+git20120306-12.1	all
common files for locale support		
ii lockfile-progs	0.1.17	armhf
Programs for locking and unlocking files and mailboxes		
ii login	1:4.1.5.1-1ubuntu9	armhf
system login tools		
ii logrotate	3.8.7-1ubuntu1	armhf
Log rotation utility		
ii lrzsz	0.12.21-7	armhf
Tools for zmodem/xmodem/ymodem file transfer		
ii lsb-base	4.1+Debian11ubuntu6	all
Linux Standard Base 4.1 init script functionality		
ii lsb-release	4.1+Debian11ubuntu6	all
Linux Standard Base version reporting utility		
ii ltrace	0.7.3-4ubuntu5.1	armhf
Tracks runtime library calls in dynamically linked programs		
ii luajit	2.0.2+dfsg-1	armhf
Just in time compiler for Lua programming language version 5.1		
ii makedev	2.3.1-93ubuntu1	all
creates device files in /dev		
ii mawk	1.3.3-17ubuntu2	armhf
a pattern scanning and text processing language		
ii mgetty	1.1.36-2ubuntu1	armhf
Smart Modem getty replacement		
ii mime-support	3.54ubuntu1	all

MIME files 'mime.types' & 'mailcap', and support programs		
ii minicom	2.7-1	armhf
friendly menu driven serial communication program		
ii module-init-tools	15-0ubuntu6	all
transitional dummy package (module-init-tools to kmod)		
ii mount	2.20.1-5.1ubuntu20.1	armhf
Tools for mounting and manipulating filesystems		
ii mountall	2.53	armhf
filesystem mounting tool		
ii mtd-utils	1:1.5.0-1	armhf
Memory Technology Device Utilities		
ii multiarch-support	2.19-0ubuntu6	armhf
Transitional package to ensure multiarch compatibility		
ii nano	2.2.6-1ubuntu1	armhf
small, friendly text editor inspired by Pico		
ii ncurses-base	5.9+20140118-1ubuntu1	all
basic terminal type definitions		
ii ncurses-bin	5.9+20140118-1ubuntu1	armhf
terminal-related programs and man pages		
ii ncurses-term	5.9+20140118-1ubuntu1	all
additional terminal type definitions		
ii net-tools	1.60-25ubuntu2	armhf
The NET-3 networking toolkit		
ii netbase	5.2	all
Basic TCP/IP networking system		
ii netcat-openbsd	1.105-7ubuntu1	armhf
TCP/IP swiss army knife		
ii nfs-common	1:1.2.8-6ubuntu1	armhf
NFS support files common to client and server		
ii nginx-common	1.4.6-1ubuntu3	all
small, powerful, scalable web/proxy server - common files		
ii nginx-light	1.4.6-1ubuntu3	armhf
nginx web/proxy server (basic version)		
ii nkf	2.13-1	armhf
Network Kanji code conversion Filter		
ii nodejs	0.10.25~dfsg2-2ubuntu1	armhf
evented I/O for V8 javascript		
ii nodejs-legacy	0.10.25~dfsg2-2ubuntu1	all
evented I/O for V8 javascript (legacy symlink)		
ii ntp	1:4.2.6.p5+dfsg-3ubuntu2	armhf
Network Time Protocol daemon and utility programs		
ii ntpdate	1:4.2.6.p5+dfsg-3ubuntu2	armhf
client for setting system time from NTP servers		
ii openresolv	3.5.2-1	all
management framework for resolv.conf		
ii openssh-client	1:6.6p1-2ubuntu2	armhf
secure shell (SSH) client, for secure access to remote machines		
ii openssh-server	1:6.6p1-2ubuntu2	armhf
secure shell (SSH) server, for secure access from remote machines		
ii openssh-sftp-server	1:6.6p1-2ubuntu2	armhf
secure shell (SSH) sftp server module, for SFTP access from remote machines		

ii	openssl	1.0.1f-1ubuntu2.4	armhf
	Secure Sockets Layer toolkit - cryptographic utility		
ii	pandorafms-agent	4.1-1	all
	Pandora FMS - The Flexible Monitoring System (agent)		
ii	passwd	1:4.1.5.1-1ubuntu9	armhf
	change and administer password and group data		
ii	perl	5.18.2-2ubuntu1	armhf
	Larry Wall's Practical Extraction and Report Language		
ii	perl-base	5.18.2-2ubuntu1	armhf
	minimal Perl system		
ii	perl-modules	5.18.2-2ubuntu1	all
	Core Perl modules		
ii	plymouth	0.8.8-0ubuntu17	armhf
	graphical boot animation and logger - main package		
ii	ppp	2.4.5-5.1ubuntu2	armhf
	Point-to-Point Protocol (PPP) - daemon		
ii	pppconfig	2.3.19ubuntu1	all
	A text menu based utility for configuring ppp		
ii	procps	1:3.3.9-1ubuntu2	armhf
	/proc file system utilities		
ii	python-apt-common	0.9.3.5	all
	Python interface to libapt-pkg (locales)		
ii	python3	3.4.0-0ubuntu2	armhf
	interactive high-level object-oriented language (default python3 version)		
ii	python3-apt	0.9.3.5	armhf
	Python 3 interface to libapt-pkg		
ii	python3-bottle	0.12.0-1	all
	fast and simple WSGI-framework for Python3		
ii	python3-dbus	1.2.0-2build2	armhf
	simple interprocess messaging system (Python 3 interface)		
ii	python3-decorator	3.4.0-2build1	all
	simplify usage of Python decorators by programmers		
ii	python3-gi	3.12.0-1	armhf
	Python 3 bindings for GObject introspection libraries		
ii	python3-ipy	1:0.81-1	all
	Python3 module for handling IPv4 and IPv6 addresses and networks		
ii	python3-minimal	3.4.0-0ubuntu2	armhf
	minimal subset of the Python language (default python3 version)		
ii	python3-openssl	0.13-2ubuntu6	armhf
	Python 3 wrapper around the OpenSSL library		
ii	python3-pexpect	3.1-1ubuntu0.1	all
	Python 3 module for automating interactive applications		
ii	python3-pkg-resources	3.3-1ubuntu1	all
	Package Discovery and Resource Access using pkg_resources		
ii	python3-pycurl	7.19.3-0ubuntu3	armhf
	Python 3 bindings to libcurl		
ii	python3-serial	2.6-1build1	all
	pyserial - module encapsulating access for the serial port		
ii	python3-simplegeneric	0.8.1-1	all
	simple generic functions for Python3		
ii	python3-six	1.5.2-1	all

Python 2 and 3 compatibility library (Python 3 interface)		
ii	python3-software-properties	0.92.37.1 all
manage the repositories that you install software from		
ii	python3-tornado	3.1.1-1ubuntu2 all
scalable, non-blocking web server and tools - Python 3 package		
ii	python3.4	3.4.0-2ubuntu1 armhf
Interactive high-level object-oriented language (version 3.4)		
ii	python3.4-minimal	3.4.0-2ubuntu1 armhf
Minimal subset of the Python language (version 3.4)		
ii	readline-common	6.3-4ubuntu2 all
GNU readline and history libraries, common files		
ii	rpcbind	0.2.1-2ubuntu1 armhf
converts RPC program numbers into universal addresses		
ii	rsyslog	7.4.4-1ubuntu2 armhf
reliable system and kernel logging daemon		
ii	screen	4.1.0~20120320gitdb59704-9 armhf
terminal multiplexer with VT100/ANSI terminal emulation		
ii	sed	4.2.2-4ubuntu1 armhf
The GNU sed stream editor		
ii	sensible-utils	0.0.9 all
Utilities for sensible alternative selection		
ii	ser2net	2.9.1-1 armhf
Serial port to network proxy		
ii	sgml-base	1.26+nmu4ubuntu1 all
SGML infrastructure and SGML catalog file support		
ii	shared-mime-info	1.2-0ubuntu3 armhf
FreeDesktop.org shared MIME database and spec		
ii	software-properties-common	0.92.37.1 all
manage the repositories that you install software from (common)		
ii	sqlite3	3.8.2-1ubuntu2 armhf
Command line interface for SQLite 3		
ii	squashfs-tools	1:4.2+20130409-2 armhf
Tool to create and append to squashfs filesystems		
ii	ssmtp	2.64-7 armhf
extremely simple MTA to get mail off the system to a mail hub		
ii	stone	2.3.e-2build1 armhf
TCP/IP packet repeater in the application layer		
ii	strace	4.8-1ubuntu5 armhf
A system call tracer		
ii	sudo	1.8.9p5-1ubuntu1 armhf
Provide limited super user privileges to specific users		
ii	sysv-rc	2.88dsf-41ubuntu6 all
System-V-like runlevel change mechanism		
ii	sysvinit-utils	2.88dsf-41ubuntu6 armhf
System-V-like utilities		
ii	tar	1.27.1-1 armhf
GNU version of the tar archiving utility		
ii	tcpd	7.6.q-25 armhf
Wietse Venema's TCP wrapper utilities		
ii	tcpdump	4.5.1-2ubuntu1 armhf
command-line network traffic analyzer		

ii	tzdata	2014e-0ubuntu0.14.04	all
	time zone and daylight-saving time data		
ii	ubuntu-keyring	2012.05.19	all
	GnuPG keys of the Ubuntu archive		
ii	ucf	3.0027+nmu1	all
	Update Configuration File(s): preserve user changes to config files		
ii	udev	204-5ubuntu20.3	armhf
	/dev/ and hotplug management daemon		
ii	ufw	0.34~rc-0ubuntu2	all
	program for managing a Netfilter firewall		
ii	unattended-upgrades	0.82.1ubuntu2	all
	automatic installation of security upgrades		
ii	unzip	6.0-9ubuntu1	armhf
	De-archiver for .zip files		
ii	upstart	1.12.1-0ubuntu4	armhf
	event-based init daemon		
ii	upstart-monitor	1.12.1-0ubuntu4	all
	event monitor for upstart		
ii	ureadahead	0.100.0-16	armhf
	Read required files in advance		
ii	usb-modeswitch	2.1.1+repack0-1ubuntu1	armhf
	mode switching tool for controlling "flip flop" USB devices		
ii	usb-modeswitch-data	20140327-1	all
	mode switching data for usb-modeswitch		
ii	util-linux	2.20.1-5.1ubuntu20.1	armhf
	Miscellaneous system utilities		
ii	vim-common	2:7.4.052-1ubuntu3	armhf
	Vi IMproved - Common files		
ii	vim-tiny	2:7.4.052-1ubuntu3	armhf
	Vi IMproved - enhanced vi editor - compact version		
ii	wakeonlan	0.41-11	all
	Sends 'magic packets' to wake-on-LAN enabled ethernet adapters		
ii	wget	1.15-1ubuntu1	armhf
	retrieves files from the web		
ii	whiptail	0.52.15-2ubuntu5	armhf
	Displays user-friendly dialog boxes from shell scripts		
ii	wvdial	1.61-4.1	armhf
	intelligent Point-to-Point Protocol dialer		
ii	xml-core	0.13+nmu2	all
	XML infrastructure and XML catalog file support		
ii	xz-utils	5.1.1alpha+20120614-2ubuntu2	armhf
	XZ-format compression utilities		
ii	zabbix-agent	1:2.2.2+dfsg-1ubuntu1	armhf
	network monitoring solution - agent		
ii	zip	3.0-8	armhf
	Archiver for .zip files		
ii	zlib1g:armhf	1:1.2.8.dfsg-1ubuntu1	armhf
	compression library - runtime		
ii	zram-config	0.1	all
	Upstart job to enable zram support		

Benchmarks

OpenSSL

AES-128-CBC

```
# openssl speed -evp aes-128-cbc -elapsed
You have chosen to measure elapsed time instead of user CPU time.
Doing aes-128-cbc for 3s on 16 size blocks: 6216106 aes-128-cbc's in 3.00s
Doing aes-128-cbc for 3s on 64 size blocks: 1894804 aes-128-cbc's in 3.00s
Doing aes-128-cbc for 3s on 256 size blocks: 506045 aes-128-cbc's in 3.00s
Doing aes-128-cbc for 3s on 1024 size blocks: 128668 aes-128-cbc's in 3.00s
Doing aes-128-cbc for 3s on 8192 size blocks: 16163 aes-128-cbc's in 3.00s
OpenSSL 1.0.1e 11 Feb 2013
built on: Mon Jul 15 13:05:30 UTC 2013
options:bn(64,32) rc4(ptr,char) des(idx,cisc,16,long) aes(partial)
blowfish(ptr)
compiler: cc -fPIC -DOPENSSL_PIC -DZLIB -DOPENSSL_THREADS -D_REENTRANT -
DDSO_DLFCN -DHAVE_DLFCN_H -DL_ENDIAN -DTERMIO -g -O2 -fstack-protector --
param=ssp-buffer-size=4 -Wformat -Werror=format-security -D_FORTIFY_SOURCE=2
-Wl,-Bsymbolic-functions -Wl,-z,relro -Wa,--noexecstack -Wall -
DOPENSSL_NO_TLS1_2_CLIENT -DOPENSSL_MAX_TLS1_2_CIPHER_LENGTH=50 -
DOPENSSL_BN_ASM_MONT -DOPENSSL_BN_ASM_GF2m -DSHA1_ASM -DSHA256_ASM -
DSHA512_ASM -DAES_ASM -DGHASH_ASM
The 'numbers' are in 1000s of bytes per second processed.
type          16 bytes      64 bytes      256 bytes    1024 bytes    8192
bytes
aes-128-cbc    33152.57k    40422.49k    43182.51k    43918.68k
44135.77k
```

AES-256-CBC

```
# openssl speed -evp aes-256-cbc -elapsed
You have chosen to measure elapsed time instead of user CPU time.
Doing aes-256-cbc for 3s on 16 size blocks: 4613267 aes-256-cbc's in 3.00s
Doing aes-256-cbc for 3s on 64 size blocks: 1428683 aes-256-cbc's in 3.00s
Doing aes-256-cbc for 3s on 256 size blocks: 375094 aes-256-cbc's in 3.00s
Doing aes-256-cbc for 3s on 1024 size blocks: 94932 aes-256-cbc's in 3.00s
Doing aes-256-cbc for 3s on 8192 size blocks: 11912 aes-256-cbc's in 3.00s
OpenSSL 1.0.1e 11 Feb 2013
built on: Mon Jul 15 13:05:30 UTC 2013
options:bn(64,32) rc4(ptr,char) des(idx,cisc,16,long) aes(partial)
blowfish(ptr)
compiler: cc -fPIC -DOPENSSL_PIC -DZLIB -DOPENSSL_THREADS -D_REENTRANT -
DDSO_DLFCN -DHAVE_DLFCN_H -DL_ENDIAN -DTERMIO -g -O2 -fstack-protector --
param=ssp-buffer-size=4 -Wformat -Werror=format-security -D_FORTIFY_SOURCE=2
-Wl,-Bsymbolic-functions -Wl,-z,relro -Wa,--noexecstack -Wall -
```

```
DOPENSSL_NO_TLS1_2_CLIENT -DOPENSSL_MAX_TLS1_2_CIPHER_LENGTH=50 -
DOPENSSL_BN_ASM_MONT -DOPENSSL_BN_ASM_GF2m -DSHA1_ASM -DSHA256_ASM -
DSHA512_ASM -DAES_ASM -DGHASH_ASM
The 'numbers' are in 1000s of bytes per second processed.
type          16 bytes      64 bytes      256 bytes      1024 bytes      8192
bytes
aes-256-cbc    24604.09k     30478.57k     32008.02k     32403.46k
32527.70k
```

MD5

```
# openssl speed -evp md5 -elapsed
You have chosen to measure elapsed time instead of user CPU time.
Doing md5 for 3s on 16 size blocks: 1388032 md5's in 3.00s
Doing md5 for 3s on 64 size blocks: 1237077 md5's in 3.00s
Doing md5 for 3s on 256 size blocks: 794289 md5's in 3.00s
Doing md5 for 3s on 1024 size blocks: 329102 md5's in 3.00s
Doing md5 for 3s on 8192 size blocks: 51296 md5's in 3.00s
OpenSSL 1.0.1e 11 Feb 2013
built on: Mon Jul 15 13:05:30 UTC 2013
options:bn(64,32) rc4(ptr,char) des(idx,cisc,16,long) aes(partial)
blowfish(ptr)
compiler: cc -fPIC -DOPENSSL_PIC -DZLIB -DOPENSSL_THREADS -D_REENTRANT -
DDSO_DLFCN -DHAVE_DLFCN_H -DL_ENDIAN -DTERMIO -g -O2 -fstack-protector --
param=ssp-buffer-size=4 -Wformat -Werror=format-security -D_FORTIFY_SOURCE=2
-Wl,-Bsymbolic-functions -Wl,-z,relro -Wa,--noexecstack -Wall -
DOPENSSL_NO_TLS1_2_CLIENT -DOPENSSL_MAX_TLS1_2_CIPHER_LENGTH=50 -
DOPENSSL_BN_ASM_MONT -DOPENSSL_BN_ASM_GF2m -DSHA1_ASM -DSHA256_ASM -
DSHA512_ASM -DAES_ASM -DGHASH_ASM
The 'numbers' are in 1000s of bytes per second processed.
type          16 bytes      64 bytes      256 bytes      1024 bytes      8192
bytes
md5            7402.84k      26390.98k      67779.33k     112333.48k
140072.28k
```

SHA1

```
# openssl speed -evp sha1 -elapsed
You have chosen to measure elapsed time instead of user CPU time.
Doing sha1 for 3s on 16 size blocks: 1137035 sha1's in 3.00s
Doing sha1 for 3s on 64 size blocks: 946921 sha1's in 3.00s
Doing sha1 for 3s on 256 size blocks: 544780 sha1's in 3.00s
Doing sha1 for 3s on 1024 size blocks: 204955 sha1's in 3.00s
Doing sha1 for 3s on 8192 size blocks: 30018 sha1's in 3.01s
OpenSSL 1.0.1e 11 Feb 2013
built on: Mon Jul 15 13:05:30 UTC 2013
options:bn(64,32) rc4(ptr,char) des(idx,cisc,16,long) aes(partial)
blowfish(ptr)
```

```

compiler: cc -fPIC -DOPENSSL_PIC -DZLIB -DOPENSSL_THREADS -D_REENTRANT -
DDSO_DLFCN -DHAVE_DLFCN_H -DL_ENDIAN -DTERMIO -g -O2 -fstack-protector --
param=ssp-buffer-size=4 -Wformat -Werror=format-security -D_FORTIFY_SOURCE=2
-Wl,-Bsymbolic-functions -Wl,-z,relro -Wa,--noexecstack -Wall -
DOPENSSL_NO_TLS1_2_CLIENT -DOPENSSL_MAX_TLS1_2_CIPHER_LENGTH=50 -
DOPENSSL_BN_ASM_MONT -DOPENSSL_BN_ASM_GF2m -DSHA1_ASM -DSHA256_ASM -
DSHA512_ASM -DAES_ASM -DGHASH_ASM
The 'numbers' are in 1000s of bytes per second processed.
type          16 bytes      64 bytes      256 bytes    1024 bytes    8192
bytes
sha1           6064.19k      20200.98k      46487.89k      69957.97k
81696.83k

```

SHA256

```

# openssl speed -evp sha256 -elapsed
You have chosen to measure elapsed time instead of user CPU time.
Doing sha256 for 3s on 16 size blocks: 1007514 sha256's in 3.00s
Doing sha256 for 3s on 64 size blocks: 794061 sha256's in 3.00s
Doing sha256 for 3s on 256 size blocks: 428046 sha256's in 3.00s
Doing sha256 for 3s on 1024 size blocks: 151483 sha256's in 3.00s
Doing sha256 for 3s on 8192 size blocks: 21541 sha256's in 3.00s
OpenSSL 1.0.1e 11 Feb 2013
built on: Mon Jul 15 13:05:30 UTC 2013
options:bn(64,32) rc4(ptr,char) des(idx,cisc,16,long) aes(partial)
blowfish(ptr)
compiler: cc -fPIC -DOPENSSL_PIC -DZLIB -DOPENSSL_THREADS -D_REENTRANT -
DDSO_DLFCN -DHAVE_DLFCN_H -DL_ENDIAN -DTERMIO -g -O2 -fstack-protector --
param=ssp-buffer-size=4 -Wformat -Werror=format-security -D_FORTIFY_SOURCE=2
-Wl,-Bsymbolic-functions -Wl,-z,relro -Wa,--noexecstack -Wall -
DOPENSSL_NO_TLS1_2_CLIENT -DOPENSSL_MAX_TLS1_2_CIPHER_LENGTH=50 -
DOPENSSL_BN_ASM_MONT -DOPENSSL_BN_ASM_GF2m -DSHA1_ASM -DSHA256_ASM -
DSHA512_ASM -DAES_ASM -DGHASH_ASM
The 'numbers' are in 1000s of bytes per second processed.
type          16 bytes      64 bytes      256 bytes    1024 bytes    8192
bytes
sha256         5373.41k      16939.97k      36526.59k      51706.20k
58821.29k

```

UnixBench

```

=====
BYTE UNIX Benchmarks (Version 5.1.3)

System: plum: GNU/Linux
OS: GNU/Linux -- 3.14.0-rc5+ -- #51 PREEMPT Fri Mar 7 13:20:11 JST 2014
Machine: armv7l (armv7l)
Language: en_US.utf8 (charmap="ANSI_X3.4-1968", collate="ANSI_X3.4-1968")

```

CPU 0: ARMv7 Processor rev 2 (v7l) (0.0 bogomips)

18:13:29 up 28 min, 2 users, load average: 0.19, 0.56, 0.71; runlevel 2

Benchmark Run: Fri Mar 07 2014 18:13:29 - 18:42:07

1 CPU in system; running 1 parallel copy of tests

Dhrystone 2 using register variables samples)	3447658.5 lps	(10.0 s, 7
Double-Precision Whetstone samples)	180.6 MWIPS	(10.0 s, 7
Execl Throughput samples)	454.7 lps	(29.8 s, 2
File Copy 1024 bufsize 2000 maxblocks samples)	53865.3 KBps	(30.0 s, 2
File Copy 256 bufsize 500 maxblocks samples)	16607.5 KBps	(30.0 s, 2
File Copy 4096 bufsize 8000 maxblocks samples)	127785.8 KBps	(30.0 s, 2
Pipe Throughput samples)	301700.1 lps	(10.0 s, 7
Pipe-based Context Switching samples)	51919.4 lps	(10.0 s, 7
Process Creation samples)	2147.7 lps	(30.0 s, 2
Shell Scripts (1 concurrent) samples)	828.3 lpm	(60.1 s, 2
Shell Scripts (8 concurrent) samples)	104.1 lpm	(60.5 s, 2
System Call Overhead samples)	644842.1 lps	(10.0 s, 7

System Benchmarks Index Values	BASELINE	RESULT	INDEX
Dhrystone 2 using register variables	116700.0	3447658.5	295.4
Double-Precision Whetstone	55.0	180.6	32.8
Execl Throughput	43.0	454.7	105.7
File Copy 1024 bufsize 2000 maxblocks	3960.0	53865.3	136.0
File Copy 256 bufsize 500 maxblocks	1655.0	16607.5	100.3
File Copy 4096 bufsize 8000 maxblocks	5800.0	127785.8	220.3
Pipe Throughput	12440.0	301700.1	242.5
Pipe-based Context Switching	4000.0	51919.4	129.8
Process Creation	126.0	2147.7	170.5
Shell Scripts (1 concurrent)	42.4	828.3	195.4
Shell Scripts (8 concurrent)	6.0	104.1	173.5
System Call Overhead	15000.0	644842.1	429.9
			=====
System Benchmarks Index Score			158.0

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