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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 libpcsclite1: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 libsasl2-2:armhf	2.1.25.dfsg1-17build1	armhf
Cyrus SASL - authentication abstraction library		
ii libsasl2-modules:armhf	2.1.25.dfsg1-17build1	armhf

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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  libsepoll: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-wrapi18n-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

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

Table with 4 columns: Test Name, BASELINE, RESULT, INDEX. Rows include Dhrystone 2, Double-Precision Whetstone, Execl Throughput, File Copy (3 variants), Pipe Throughput, Pipe-based Context Switching, Process Creation, Shell Scripts (2 variants), System Call Overhead, and System Benchmarks Index Score.

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