

## Release Notes (8.3 – December 2007)

### 1 Package list

#### Packages included in release 8.3:

GraphicsMagick-1.1.10	ImageMagick-6.3.5	OpenSP-1.5.1	Pyrex-0.9.4.1
R-2.1.1	SciPy-0.5.2	SilverCity-0.9.7	TeXmacs-1.0.5
Twisted-2.5.0	Xaw3d-1.5e	Xdialog-2.3.1	a2ps-4.13
abiword-2.4.6	aiksaurus-1.2.1	am-utils-6.1.5	ant-1.6.5
ant-1.7.0	apr-1.2.11	apr-util-1.2.10	aspell-0.60.5
atk-1.18.0	atlas-3.6.0	audiofile-0.2.6	autoconf-2.13
autoconf-2.59	autoconf-2.61	autocutsel-0.8.1	autogen-5.8.3
automake-1.4	automake-1.5	automake-1.6.3	automake-1.7.9
automake-1.8.5	automake-1.9.5	automake-1.10	barcode-0.98
bash-3.2	bc-1.06	bind-server-9.4.2	bind-utils-9.4.2
bison-1.35	bison-2.3	boost-1.33.1	bvi-1.3.1
bzip2-1.0.2	cacti-0.8.6j	cadaver-0.23.0	cairo-1.4.10
cairomm-1.4.4	cdrdao-1.2.0	cdrtools-2.01	cfengine-2.2.1
cgilib-0.5	clearsilver-0.10.5	cmake-2.4.7	conserver-8.1.16
cook-2.25	coreutils-5.93	cpio-2.6	cppunit-1.10.2
cscope-15.5	ctags-5.6	cups-1.2.12	curl-7.16.4
cvs-1.11.20	cvs2svn-1.5.1	cyrus-sasl-2.1.22	db-2.7.7
db-4.0.14	db-4.2.52	dbus-1.0.2	ddd-3.3.11
dejagnu-1.4.4	dhcp-3.0.1rc14	dhcping-1.2	diffutils-2.8.1
distcc-2.17	docbook-utils-1.0	docutils-0.4	doxygen-1.5.2
dsh-0.25.7	emacs-21.4	enchant-1.1.6	enscript-1.6.1
eric-3.9.5	esound-0.2.34	exmh-2.6.3	expat-2.0.1
expect-5.43	fcpackage-2.4	fetchmail-6.3.8	fftw-2.1.3
fftw-3.0.1	file-4.21	findutils-4.2.27	flex-2.5.31
flex-2.5.4a	fltk-1.1.7	fonts-1.0	fping-2.4
freetype-2.3.5	fribidi-0.10.4	fvwm-2.4.19	calculator-1.2.5.2
ganglia-3.0.4	gawk-3.1.4	gc-6.8	gcal-3.01
gcc-3.4.3	gcc64-3.4.3	gconfmm-2.16.0	gd-2.0.35

## Packages included in release 8.3 (continued):

gdb-6.6	gdbm-1.8.2	geany-0.11	getopt-1.1.4
gettext-0.14.1	ghostscript-8.57	gimp-2.2.17	gimp-print-4.2.7
glib-1.2.10	glib-2.12.13	glibmm-2.12.10	global-4.6.1
gmp-4.2.1	gnats-4.1.0	gnome-2.18	gnome-vfsmm-2.16.1
gnumeric-1.6.3	gnupg-1.4.7	gnupg-2.0.7	gnuplot-4.2.2
gnutls-1.6.2	gperf-3.0	gpgme-1.0.3	gpp-2.24
grace-5.1.19	grap-1.36	graphviz-2.12	grep-2.5.1
groff-1.19.2	grpn-1.1.2	gsl-1.8	gtk+-1.2.10
gtk+-2.10.14	gtk-doc-1.8	gtk-themes-1.2	gtk-themes-2.6
gtkmm-2.10.10	gtkspell-2.0.11	gtkwave-3.0.14	guile-1.6.7
gv-3.6.3	gwenview-1.4.2	gzip-1.3.5	hdf-4.2.1
hdf5-1.6.6	help2man-1.29	htmldoc-1.8.27	httpd-2.2.6
imap-2006k	imlib-1.9.15	indent-2.2.9	inkscape-0.45.1
ipython-0.8.1	irssi-0.8.10	ispell-3.2.06	itcl-3.2.1
joe-3.3	jpeg-6b	junit-3.8.1	k3b-0.12.10
kbiff-3.8	kde-3.5.8	kile-1.9.3	kpl-3.3
krb5-1.6.2	lasi-1.0.6	lcms-1.17	less-381
lftp-3.5.11	libDL-0.8.8	libart_lgpl-2.3.19	libassuan-1.0.2
libexif-0.6.12	libgcrypt-1.2.4	libglade-2.6.2	libglademm-2.6.3
libgnomecanvasmm-2.16.0	libgnomemm-2.16.0	libgnomeuimm-2.16.0	libgpg-error-1.5
libiconv-1.9.2	libidn-1.0	libmng-1.0.9	libpcap-0.9.4
libpng-1.2.18	librep-0.17	librsync-0.9.7	libsic++-2.0.17
libsoup-2.2.6.1	libssh2-0.16	libtasn1-0.3.9	libtool-1.4.2
libtool-1.5	libungif-4.1.1	libwmf-0.2.8	libxklavier-3.3
libxml++-2.18.2	libxml-2.6.29	libxslt-1.1.21	logrotate-3.6.6
logwatch-4.3.2	lsof-4.77	lxml-1.0.3	lynx-2.8.5
lyx-1.4.5.1	m4-1.4.8	mailman-2.1.8	make-3.79.1
make-3.80	matplotlib-0.87	mc-4.6.1	metamail-2.7
mgv-3.1.5	mimedefang-2.54	mktemp-1.5	mod_jk-1.2.18
mod_perl-2.0.3	mod_python-3.3.1	mpfr-2.2.0	mrtg-2.12.2
mscgen-0.7	multitail-4.2.0	mutt-1.4.1i	mysql-5.0.45
nano-1.2.1	nc-1.84	ncftp-3.2.1	ncurses-5.6
nedit-5.5	net-snmp-5.4.1	netcdf-3.6.2	netpbm-10.35
nmap-4.20	nmh-1.0.4	ntp-4.1.2	numpy-1.0.4
ocaml-3.08.4	octave-2.1.71	opencdk-0.5.13	openjade-1.3.2
openldap-2.3.37	openssh-4.7	openssl-0.9.8e	pango-1.16.4
pari-2.1.6	patch-2.5.8	patchutils-0.2.31	pcre-7.4
pdftk-1.12	pdftohtml-0.36	perl-5.8.6	php-5.2.5
pidgin-2.2.2	pine-4.64	pinfo-0.6.8	pkgconfig-0.21
plotutils-2.5	plplot-5.6.1	poppler-0.5.4	popt-1.7

## Packages included in release 8.3 (continued):

postfix-2.4.6	postgresql-8.2.5	prngd-0.9.25	procmail-3.22
proftpd-1.3.1	ps2eps-1.61	psutils-p17	pth-2.0.7
puppet-0.23.2	pvm-3.4.5	python-2.4.2	python-2.5.1
qcad-2.0.4.0	qhull-2003.1	qscintilla-1.71	qt-3.3.8
rails-1.2.2	razor-agents-2.84	rcs-5.7	rdesktop-1.5.0
rdiff-backup-1.0.5	rdist-6.1.5	readline-5.2	recode-3.6
rman-3.2	rpm-4.2	rrdtool-1.2.10	rsync-2.6.9
ruby-1.8.5	samba-3.0.24	sawfish-2.0	screen-4.0.2
scribus-1.3.3.9	sed-4.0.9	sendmail-8.14.2	setuptools-0.6
sharutils-4.6.3	shtool-2.0.2	silos-4.5.1	slang-1.4.9
slrn-0.9.8.1	smake-1.2a22	sourcenv-5.1.4	spamassassin-3.2.3
sqlite-3.3.13	squid-2.5.13	squidGuard-1.2.0	subversion-1.4.5
sudo-1.6.8p9	sunifdef-2.1.2	sunstudio-runtime-1.0	swatch-3.1.1
swig-1.3.29	swish-e-2.4.3	sylpheed-2.4.7	syslog-ng-2.0.6
t1lib-5.1.0	tar-1.15.1	tcl-8.4.16	tcp_wrappers-7.6
tcpdump-3.9.4	tcsh-6.14	tetex-3.0	texinfo-4.8
tiff-3.8.2	tightvnc-1.3.9	time-1.7	tin-1.8.2
tix-8.1.4	tk-8.4.16	tkcvs-8.0.4	tkdvi-0.4
tkinfo-2.8	tkman-2.2	tmake-1.8	top-3.5
trac-0.10.4	transfig-3.2.3d	trio-1.11	ttw-firefox-2.0.0.11
ttw-seamonkey-1.1.7	ttw-thunderbird-2.0.0.9	ucarp-1.2	unison-2.3.16
unzip-5.52	urlview-0.9	utok-2.0.2	uudeview-0.5.20
valgrind-3.3.0	valkyrie-1.2.0	vim-7.1	vnc-4.1.2
w3m-0.5.2	wdb-3.1.5	wdb-5.5	wget-1.10.2
wireshark-0.99.7	wv-1.0.3	wxGTK-2.8.7	x11-ssh-askpass-1.2.4.1
xalan-c-1.10.0	xbae-4.60.0	xchat-2.8.4	xcircuit-3.4.10
xdgdata-1.1	xdgutils-1.1	xemacs-21.4.17	xerces-c-2.7.0
xfce-4.2.3.2	xfce-3.2.3d	xmcd-3.3.1	xmlcatalog-1.1
xpdf-3.00	xpm-3.4k	xscreensaver-4.16	xterm-186
xxdiff-3.1	yum-2.4.2	zip-2.3	zlib-1.2.3

### Packages updated since release 8.2:

GraphicsMagick-1.1.10	ImageMagick-6.3.5	Twisted-2.5.0	Xdialog-2.3.1
abiword-2.4.6	ant-1.7.0	apr-1.2.11	apr-util-1.2.10
aspell-0.60.5	atk-1.18.0	bash-3.2	bind-server-9.4.2
bind-utils-9.4.2	cadaver-0.23.0	cairo-1.4.10	cfengine-2.2.1
clearsilver-0.10.5	conserver-8.1.16	ctags-5.6	cups-1.2.12
curl-7.16.4	cyrus-sasl-2.1.22	doxygen-1.5.2	eric-3.9.5
expat-2.0.1	fcpackage-2.4	fetchmail-6.3.8	file-4.21
freetype-2.3.5	gconfmm-2.16.0	gd-2.0.35	ghostscript-8.57
gimp-2.2.17	glib-2.12.13	glibmm-2.12.10	gnome-2.18
gnome-vfsmm-2.16.1	gnupg-1.4.7	gnupg-2.0.7	gnuplot-4.2.2
gnutls-1.6.2	gtk+-2.10.14	gtk-doc-1.8	gtkmm-2.10.10
gv-3.6.3	gwenview-1.4.2	hdf5-1.6.6	httpd-2.2.6
imap-2006k	imlib-1.9.15	inkscape-0.45.1	ipython-0.8.1
kde-3.5.8	kile-1.9.3	krb5-1.6.2	lasi-1.0.6
lcms-1.17	lftp-3.5.11	libIDL-0.8.8	libart_lgpl-2.3.19
libcrypt-1.2.4	libglade-2.6.2	libglademm-2.6.3	libgnomecanvasmm-2.16.0
libgnomemm-2.16.0	libgpg-error-1.5	libidn-1.0	libmng-1.0.9
libpng-1.2.18	libsigc++-2.0.17	libtasn1-0.3.9	libxklavier-3.3
libxml++-2.18.2	libxml-2.6.29	libxslt-1.1.21	lyx-1.4.5.1
mod_perl-2.0.3	mysql-5.0.45	ncftp-3.2.1	ncurses-5.6
net-snmp-5.4.1	netpbm-10.35	nmap-4.20	numpy-1.0.4
opencdk-0.5.13	openldap-2.3.37	openssh-4.7	openssl-0.9.8e
pango-1.16.4	pcre-7.4	php-5.2.5	pidgin-2.2.2
pkgconfig-0.21	plotutils-2.5	postfix-2.4.6	postgresql-8.2.5
proftpd-1.3.1	pth-2.0.7	python-2.5.1	qscintilla-1.71
qt-3.3.8	razor-agents-2.84	rdesktop-1.5.0	rdiff-backup-1.0.5
readline-5.2	rsync-2.6.9	sendmail-8.14.2	spamassassin-3.2.3
subversion-1.4.5	sylpheed-2.4.7	syslog-ng-2.0.6	tcl-8.4.16
tightvnc-1.3.9	tk-8.4.16	tkcvs-8.0.4	trac-0.10.4
twm-firefox-2.0.0.11	twm-seamoney-1.1.7	twm-thunderbird-2.0.0.9	unison-2.3.16
valgrind-3.3.0	vim-7.1	w3m-0.5.2	wireshark-0.99.7
xchat-2.8.4	xdgdata-1.1	xdgutils-1.1	

### New packages in release 8.3:

cairomm-1.4.4	cmake-2.4.7	dbus-1.0.2	ganglia-3.0.4
geany-0.11	getopt-1.1.4	gnnumeric-1.6.3	libassuan-1.0.2
libgnomeuimm-2.16.0	libssh2-0.16	mscgen-0.7	multitail-4.2.0
libnet-1.1.2.1	nc-1.84	netcdf-3.6.2	patchutils-0.2.31
poppler-0.5.4	puppet-0.23.2	qhull-2003.1	scribus-1.3.3.9
silob-4.5.1	vnc-4.1.2	wxGTK-2.8.7	

### 3rd-party modules installed with Perl 5.8.6:

AppConfig 1.63, Array-Compare 1.03, Array-Unique 0.03, Authen-SASL 2.02, Bit-Vector 6.3, CGI.pm 3.23, Carp-Assert 0.17, Chart 2.3, Class-Accessor 0.18, Class-DBI 0.96, Class-Data-Inheritable 0.02, Class-ErrorHandler 0.01, Class-Fields 0.14, Class-Loader 2.03, Class-Trigger 0.08, Class-WhiteHole 0.04, Compress-Zlib 1.42, Convert-ASCII-Armour 1.4, Convert-ASN1 0.16, Convert-PEM 0.07, Crypt-Blowfish 2.09, Crypt-CBC 2.14, Crypt-DES 2.03, Crypt-DES\_EDE3 0.01, Crypt-DH 0.03, Crypt-DSA 0.12, Crypt-OpenSSL-RSA 0.25, Crypt-OpenSSL-Random 0.04, Crypt-Primes 0.50, Crypt-Random 1.25, Crypt-RSA 1.55, Crypt-SSLeay 0.57, Curses 1.08, Data-UUID 1.148, DBD-CSV 0.2002, DBI 1.59, DBIx-ContextualFetch 1.02, Data-Buffer 0.04, Data-ShowTable 3.3, Data-Table 1.36, Date-Calc 5.3, Date-Simple 3.00, DateManip 5.40, Devel-Symdump 2.03, Devel-ptkdb 1.1091, Digest-BubbleBabble 0.01, Digest-HMAC 1.01, Digest-MD2 2.03, Digest-Nilsimsa 0.06, Digest-SHA 5.45, Digest-SHA-PurePerl 5.45, Digest-SHA1 2.11, Digest-SHA2 1.1.1, DIME-Tools 0.03, Error 0.17009, Expect 1.15, ExtUtils-CBuilder 0.18, ExtUtils-Depends 0.205, ExtUtils-ParseXS 2.18, ExtUtils-PkgConfig 1.07, File-HomeDir 0.60\_2, File-Remote 1.14, File-Scan 0.69, File-Tail 0.98, Filter 1.28, Font-AFM 1.18, GD 2.21, GD-Graph3d 0.63, GDGraph 1.43, GDTextUtil 0.86, Geography-Countries 1.4, Graph 0.65, Graph-ReadWrite 2.00, GraphViz 2.02, GraphViz-DBI 0.02, GraphViz-Data-Structure 0.15, GraphViz-ISA 0.01, HTML-DynamicTemplate 0.94, HTML-FillInForm 1.05, HTML-Format 2.03, HTML-Parser 3.56, HTML-Scrubber 0.08, HTML-Table 2.02, HTML-Tagset 3.03, HTML-Template 2.7, HTML-Tree 3.18, HTTP-DAV 0.24, Heap 0.71, IO-Socket-SSL 0.95, Ima-DBI 0.33, Image-Info 1.16, Image-Size 2.992, IO-Tty 1.07, IO-stringy 2.110, IPC-Run 0.79, Jcode 2.06, List-Compare 0.18, List-MoreUtils 0.21, MIME-Base64 3.07, MIME-Lite 3.01, MIME-Types 1.15, MIME-tools 5.418, MLDBM 2.01, Mail-Audit 2.1, Mail-IMAPClient 2.2.9, MailTools 1.67, Mail-Box 2.061, Mail-Box-Parser-C 3.006, Math-Bezier 0.01, Math-BigInt 1.81, Math-BigRat 0.17, Module-Build 0.2805, Module-Signature 0.50, Net-DNS 0.58, Net-DNS-Resolver-Programmable 0.003, Net-Daemon 0.43, Net-Daemon-SSL 1.0, Net-IP 1.23, Net-Ident 1.20, Net-Jabber 2.0, Net-Ping 2.31, Net-SFTP 0.09, Net-SSH-Perl 1.28, Net-SSLeay 1.32, Net-Telnet 3.03, Net-XMPP 1.02, NetAddr-IP 4.007, Object-Realize-Later 0.15, OLE-Storage-Lite 0.14, PAR-Dist 0.07, PDL 2.4.2, PadWalker 1.5, Parse-RecDescent 1.94, PatchReader 0.9.5, PathTools 3.21, PIRPC 0.2020, Pod-Coverage 0.18, Pod-Escapes 1.04, Pod-POM 0.15, Pod-Simple 3.02, Proc-Background 1.08, Proc-Daemon 0.02, Proc-ProcessTable 0.39, Quota 1.4.10, readonly 1.03, RPC-XML 0.59, SNMP\_Session 0.93, SOAP-Lite 0.69, SQL-Statement 1.15, Scalar-List-Utils 1.19, Schedule-Cron 0.9, Shell-Source 0.01, Sort-Versions 1.5, Spreadsheet-ParseExcel 0.28, Spreadsheet-WriteExcel 2.18, Storable 2.18, String-CRC32 1.3, String-Ediff 0.05, Sub-Exporter 0.978, Sub-Install 0.924, Sub-Uplevel 0.16, Syslog 0.97, Task-Weaken 1.02, Template-Toolkit 2.15, TermReadKey 2.21, Test-Builder-Tester 1.01, Test-Class 0.24, Test-ClassAPI 1.04, Test-Deep 0.099, Test-Differences 0.47, Test-Exception 0.25, Test-Inline 0.16, Test-Manifest 1.17, Test-MockModule 0.05, Test-MockObject 1.08, Test-NoWarnings 0.084, Test-Number-Delta 1.03, Test-Object 0.07, Test-Output 0.10, Test-Pod 1.20, Test-Pod-Coverage 1.08, Test-Simple 0.74, Test-Tester 0.106, Test-Warn 0.10, Text-Autoformat 1.12, Text-Balanced 1.89, Text-CSV\_XS 0.23, Text-Diff 0.35, Text-Iconv 1.4, Text-Reform 1.11, Tie-EncryptedHash 1.21, Tie-IxHash 1.21, Time-Piece 1.08, Time-modules 2003.1126, TimeDate 1.16, Tk 800.025, Tk-FileDialog 1.3, Tk-JPEG 2.014, Tk-PNG 2.005, UNIVERSAL-can-1.12, UNIVERSAL-isa 0.06, UNIVERSAL-moniker 0.06, URI 1.34, Unicode-Map8 0.12, Unicode-String 2.09, User-Identity 0.90, X11-GUITest 0.20, XML-DOM 1.44, XML-LibXML

1.63, XML-LibXML-Common 0.13, XML-NamespaceSupport 1.09, XML-Parser 2.35, XML-RSS 1.10, XML-RegExp 0.03, XML-SAX 0.16, XML-Simple 2.14, XML-SimpleObject 0.53, XML-SimpleObject-LibXML 0.60, XML-Stream 1.22, XML-TreeBuilder 3.09, XML-Twig 3.26, XML-Writer 0.600, XML-XPath 1.13, YAML 0.62, bignum 0.19, interface 0.02, libnet 1.16, libxml-perl 0.08, libwww-perl 5.805, perl-ldap 0.33, version 0.74

**3rd-party modules installed with Python 2.4.2:**

4Suite 1.0a4, ElementTree 1.2.6, Imaging 1.1.6, Numeric 24.2, PyXML 0.8.4, ReportLab 1.17, ScientificPython 2.4.9, ZopeInterface 3.0.1, cElementTree 1.0.5, egenix-mx-base 2.0.6, f2py 2.45, gadfly 1.0.0, numarray 1.5.2, optik 1.5, py-xmlrpc 0.8.8.3, python-fchksum 1.7, python-dateutil 1.1, pytz 2006p, urlgrabber 2.9.7

**3rd-party modules installed with Python 2.5.1:**

4Suite 1.0b3, Imaging 1.1.6, Numeric 24.2, PyXML 0.8.4, egenix-mx-base 3.0.0, numarray 1.5.2, pexpect 2.1, python-fchksum 1.7, python-dateutil 1.1, pytz 2006p

**3rd-party modules installed with Tcl 8.4.16:**

itcl 3.2.1, tcllib 1.10, tclx 8.4

**3rd-party modules installed with Tk 8.4.16:**

BWidget 1.8.0, Tktable 2.9, tix 8.1.4, tkcon 2.4

## 2 Special package notes

1. The following packages had security updates since the 8.2 release: `bind-client`, `bind-server`, `cairo`, `cups`, `cyrus-sasl`, `fetchmail`, `file`, `freetype`, `httpd`, `krb5`, `libpng`, `mod_perl`, `mutt`, `openssl`, `pcre`, `pdftohtml`, `perl`, `php`, `postgresql`, `qt`, `rsync`, `samba`, `t1lib`, `tcpdump`, `tetex`, `twm-firefox`, `twm-seamonkey`, `twm-thunderbird`, `vim`, `wireshark`, `xpdf`. Please upgrade to the latest version of these packages.
2. The following new packages are available:
  - The `caiomm` C++ wrapper for the `cairo` graphics library.
  - The `cmake` cross-platform make system.
  - The `d-bus` message bus system, a library/daemon used for interprocess communication.
  - The `ganglia` scalable distributed monitoring system for high-performance computing systems such as clusters and grids.
  - The `geany` small and lightweight integrated development environment.
  - The `getopt` command-line parser capable of understanding GNU long options.
  - The `gnnumeric` GNOME spreadsheet.
  - The `libassuan` GnuPG IPC library.
  - The `libgnomeuimm` C++ wrapper for the `libgnomeui` graphics library.
  - The `libnet` library provides a simple API for commonly used low-level network functions (mainly packet injection).
  - The `libssh2` library implementing the SSH2 protocol.
  - The `mscgen` message sequence chart parser.
  - The `multitail` program allowing you to view one or multiple files like the original `tail` program.
  - The `nc` (`netcat`) program, a simple utility for reading and writing data across network connections, using the TCP or UDP protocols.
  - The `netcdf` library provides an implementation of the `netCDF` (network Common Data Form) format and is an interface for array-oriented data access.
  - The `patchutils` suite contains a collection of tools for manipulating patch files.
  - The `poppler` PDF rendering library.
  - The `puppet` server automation system, similar to `cfengine`.
  - The `qhull` library which computes the convex hull, Delaunay triangulation, Voronoi diagram, halfspace intersection about a point, furthest-site Delaunay triangulation, and furthest-site Voronoi diagram.
  - The `scribus` program is a professional page layout tool.
  - The `silol` library for storing rectilinear, curvilinear, unstructured, or point meshes in 2D and 3D.
  - The `vnc` program is the original VNC (Virtual Network Computing) client/server.
  - The `wxGTK` GTK+ port of the C++ cross-platform `wxWindows` GUI library.

3. The following changes have occurred with the Perl 5.8.6 package:

- (a) Update expat dependency in XML-Parser from 1.95.8 to 2.0.1
- (b) Update libpng dependency in Tk-PNG from 1.2.4 to 1.2.18
- (c) Update libxml dependency in XML-LibXML from 2.6.22 to 2.6.29
- (d) Update openssl dependency in Crypt-OpenSSL-RSA-0.25, Crypt-OpenSSL-Random-0.04, Crypt-SSLeay-0.57, and Net-SSLeay from 0.9.7b to 0.9.8e
- (e) Update zlib dependency in Compress-Zlib from 1.1.4 to 1.2.3
- (f) Added the following modules: Algorithm-Diff 1.1902, CSS-Tiny 1.15, Class-Inspector 1.18, Clone 0.28, Config-Tiny 2.12, Crypt-OpenSSL-RSA 0.25, Crypt-OpenSSL-Random 0.04, Crypt-SSLeay 0.57, Data-OptList 0.103, Data-UUID 1.148, Devel-Cover 0.63, Digest-SHA 5.45, DIME-Tools 0.03, Error 0.17009, HTML-Scrubber 0.08, IO 1.2301, IO-String 1.08, Net-DNS-Resolver-Programmable 0.003, Net-Jabber 2.0, Net-XMPP 1.02, NetAddr-IP 4.007, PPI 1.201, PPI-HTML 1.07, Params-Util 0.31, Perl-Tidy 20070801, SOAP-Lite 0.69, Scalar-List-Utills 1.19, Storable 2.18, Sub-Exporter 0.978, Sub-Install 0.924, Sub-Uplevel 0.16, Task-Weaken 1.02, Test-Class 0.24, Test-ClassAPI 1.04, Test-Deep 0.099, Test-Differences 0.47, Test-Exception 0.25, Test-MockModule 0.05, Test-MockObject 1.08, Test-NoWarnings 0.084, Test-Number-Delta 1.03, Test-Object 0.07, Test-Output 0.10, Test-Simple 0.74, Test-Tester 0.106, Test-Warn 0.10, Text-Diff 0.35, UNIVERSAL-can 1.12, UNIVERSAL-isa 0.06, XML-Stream 1.22, version 0.74
- (g) Upgraded the following modules: Digest-SHA-PurePerl from 5.32 to 5.45; Digest-SHA1 from 2.04 to 2.11; Digest-SHA2 from 1.0.0 to 1.1.1; HTML-Parser from 3.36 to 3.56; IO-stringy from 2.108 to 2.110; Net-Daemon from 0.38 to 0.43; Net-SSLeay from 1.25 to 1.32; P1RPC from 0.2018 to 0.2020; RPC-XML from 0.54 to 0.59; XML-LibXML from 1.62001 to 1.63; XML-Parser from 2.34 to 2.35; XML-SAX from 0.15 to 0.16
- (h) Restore `Net::Domain` that was accidentally removed
- (i) On AIX, explicitly list symbol exports when creating a shared library. The previous use of `-bexpall` did not export symbols with a leading underscore, a problem for the Glib and Gtk2 modules.
- (j) In addition to adding paths in `/opt/TWWfsw/perl586/etc/include.paths` to the module search path, files in `/opt/TWWfsw/perl586/etc/include.paths.d` are parsed in a similar manner.

4. The following changes have occurred with the Python 2.4.2 package:

- (a) Update openssl dependency from 0.9.7b to 0.9.8e
- (b) Upgraded the following modules: Imaging from 1.1.5 to 1.1.6

- (c) In addition to adding paths in `/opt/TWWfsw/python242/etc/include.paths` to the module search path, files in `/opt/TWWfsw/python242/etc/include.paths.d` are parsed in a similar manner.
5. TWW Thunderbird has been upgraded from the 1.5.0.x release to the latest 2.0.0.x release. TWW Thunderbird 2.0 has the following new features:
- **Advanced Folder Views:** Thunderbird 2 offers a variety of ways for you to organize and display your folders, whether by favorites, recently viewed or folders containing unread messages. As always, you can also set up RSS and newsgroup folders to stay on top of news and your interests. Thunderbird 2 also allows you to maximize your message view pane by opting for a folder drop down menu instead of the traditional sidebar.
  - **Message Tagging:** Thunderbird 2 allows you to “tag” messages with descriptors such as “To Do” or “Done” or even create your own tags that are specific to your needs. Tags can be combined with saved searches and mail views to make it easier to organize email.
  - **Message History Navigation:** Thunderbird 2 offers message history navigation that allows you to click “forward” and “back” much like in your Web browser. You can now quickly toggle between messages and folder views.
  - **Improved Search:** Thunderbird 2 features a find as you type pane that speeds up searches within displayed messages. Thunderbird also offers quick search, which starts showing search results as soon as you start typing in search terms.
  - **Saved Searches:** Do you find yourself searching for the same subject or message content over and over? Thunderbird 2 saves you time by allowing you to store this search as a folder. Rerunning the search is just a matter of clicking on the saved search folder in the folder pane.
  - **Stay Informed:** Thunderbird 2 has been updated to provide more informative and relevant message alerts containing sender, subject and message text for newly arrived messages. Folders provide a pop up summarizing new messages in that folder.
  - **Secure and Protect Your Mail:** Mozilla has bolstered Thunderbird’s acclaimed security and privacy measures to ensure that your communications and identity remain safe. It’s like having your own security guard online.
  - **Phishing Protection:** Thunderbird protects you from email scams which try to trick users into handing over personal and confidential information by indicating when a message is a potential phishing attempt. As a second line of defense, Thunderbird warns you when you click on a link which appears to be taking you to a different Web site than the one indicated by the URL in the message.
  - **Robust Privacy:** Thunderbird 2 offers improved support for user privacy and remote image protection. To ensure a user’s privacy, Thunderbird 2 automatically blocks remote images in email messages.
  - **Cutting Out the Junk:** Mozilla has updated Thunderbird’s popular junk mail folders to stay ahead of spam. Each email you receive passes through Thunderbird’s leading-edge junk mail filters. Each time you mark messages as spam, Thunderbird “learns” and improves its filtering so you can spend more time reading the mail that matters. Thunderbird can also use your mail provider’s spam filters to keep junk mail out of your inbox.

- Message Templates: Thunderbird 2 allows you to easily set up message templates to save you time - especially if you have to send the same mail message repeatedly.
6. Ruby and Tcl have been updated to search `/opt/TWfsw/ruby185/etc/include.paths`, `/opt/TWfsw/ruby185/etc/include.paths.d` and `/opt/TWfsw/tcl84/etc/include.paths`, `/opt/TWfsw/tcl84/etc/include.paths.d` respectively for additional paths to add to the default module search path, in a similar manner to the same paths under Perl and Python. Package postinstall scripts now update the `../include.paths.d` directory and only update the `../include.paths` configuration file when the newer directory mechanism is not available.
  7. Because some core libraries such as `expat`, `fcpackage`, `freetype`, `ncurses`, `readline`, `tiff`, `zlib` were upgraded to new major releases, all dependent programs have been recompiled and/or updated. The 120 programs updated in this release is partially due to this core library update.
  8. `curl` has been updated to 7.16.4 from 7.15.1. Among the improvements is support for SFTP and SSH file transfers. Support for this was done under contract with Daniel Stenberg and Simon Josefsson, with the code being released back into the `curl` and `libssh2` projects.
  9. This release is the first to be built with our new chroot build system. All programs on all platforms are now built within a chrooted environment. This makes it easy to snapshot a release and allow simultaneous development for multiple releases. Previously, updating a core library would require a rebuild of all dependent libraries, hindering forward progress with newer releases of core libraries because a security fix in a previous distribution release would require a recompile with the dependencies in place when the distribution was created. Because of this, libraries such as `tiff`, and `zlib` were not updated to their newer versions.
  10. The update to GTK+ introduced a requirement on `cairo`, a multi-platform 2D graphics library. Unfortunately, it does not work with 8-bit X visuals. Therefore, all GTK+ programs require an X server with more than 8-bit visuals.
  11. The fonts package has been updated to the 1.1 release and the IBM Courier and Ghostscript fonts have been added to this package. The IBM Courier font works around a display issue with the AIX system Courier font. In addition, the `/usr/lib/X11/fonts/Type1` path is ignored when searching for fonts by `fontconfig`, due to display errors with some of the fonts. The Ghostscript fonts serve as a replacement for these fonts.
  12. `Fontconfig` no longer reads per-directory font cache files. Rather, a local directory is used to cache the system-wide fonts (`/var/opt/TWfsw/fcpackage24/cache`), in addition to a per-user `/.fontconfig` cache directory. The cache entries are specific to the hardware architecture (i.e. `'parisc'`, `'sparc'`, `'x86-64'`, etc.). Unfortunately, the cache entries are not specific to the operating system. Therefore, it is important that all systems have access to the same fonts.
  13. The GAIM IM client has been renamed to Pidgin.
  14. Python 2.5.1 is new in this release and, while Python 2.4.2 is still available, Python 2.5.1 is the new production release. This is the last release to ship Python 2.4.2.

15. Qt has been upgraded to the 3.3.8 release and, on Solaris 7+, requires the installation of the OpenGL libraries.
16. This release is the last to support Tru64 UNIX 4.0D.

### 3 Incomplete distribution CDs

Due to the size of the GCC, GNOME, KDE, Perl, Python, Qt, and teTeX packages, they might be available on only one CD. Therefore, if a package on another CD contains a dependency for any of these packages, they must be installed first.

### 4 Platforms requiring DVD drives

DVD's are shipped exclusively for the following platforms: AIX 5.3, HP-UX 11.23/PA, 11.23/IA, IRIX 6.5, Solaris 10/SPARC and 10/Intel.

### 5 Perl 5.8.6 module search path

Perl has been updated to read a configuration file containing a list of module search paths, `/opt/TWWfsw/perl586/etc/include.paths`, and to read a directory of configuration files, `/opt/TWWfsw/perl586/etc/include.paths.d`, containing a list of module search paths. The module search path is augmented by prepending the paths to the default Perl search path. In taint mode, usage of this file is disabled.

The default search path is:

```
$ /opt/TWWfsw/perl586/bin/perl -V
...
@INC:
  /opt/TWWfsw/perl586p/lib/5.8.6/PA-RISC1.1-thread-multi
  /opt/TWWfsw/perl586p/lib/5.8.6
  /opt/TWWfsw/perl586p/lib
  /opt/TWWfsw/perl586/lib/5.8.6/PA-RISC1.1-thread-multi
  /opt/TWWfsw/perl586/lib/5.8.6
  /opt/TWWfsw/perl586p/vendor/lib/5.8.6/PA-RISC1.1-thread-multi
  /opt/TWWfsw/perl586p/vendor/lib/5.8.6
  /opt/TWWfsw/perl586p/vendor/lib
  .
```

To prepend additional site-specific paths to this list, update `/opt/TWWfsw/perl586/etc/include.paths.d` with the list of additional paths to search:

```
$ ls /opt/TWWfsw/perl586/etc/include.paths.d
01-modules
02-modules
$ cat /opt/TWWfsw/perl586/etc/include.paths.d/01-modules
/opt/site/perl586/modules
$ cat /opt/TWWfsw/perl586/etc/include.paths.d/02-modules
/opt/site/perl586/user.modules
```

```

$ /opt/TWWfsw/perl586/bin/perl -V
...
@INC:
  /opt/site/perl586/modules
  /opt/site/perl586/user.modules
  /opt/TWWfsw/perl586p/lib/5.8.6/PA-RISC1.1-thread-multi
  /opt/TWWfsw/perl586p/lib/5.8.6
  /opt/TWWfsw/perl586p/lib
  /opt/TWWfsw/perl586/lib/5.8.6/PA-RISC1.1-thread-multi
  /opt/TWWfsw/perl586/lib/5.8.6
  /opt/TWWfsw/perl586p/vendor/lib/5.8.6/PA-RISC1.1-thread-multi
  /opt/TWWfsw/perl586p/vendor/lib/5.8.6
  /opt/TWWfsw/perl586p/vendor/lib
.

```

## 6 Python 2.4.2 module search path

Python has been updated to read a configuration file containing a list of module search paths, `/opt/TWWfsw/python242/etc/include.paths`, and to read a directory of configuration files, `/opt/TWWfsw/python242/etc/include.paths.d`, containing a list of module search paths. The module search path is augmented by prepending the paths to the default Python search path.

As an example, the default search path is:

```

$ /opt/TWWfsw/python242/bin/python
>>> import sys
>>> for p in sys.path:
>>>     print p
/opt/TWWfsw/python242/lib/python2.4
/opt/TWWfsw/python242/lib/python2.4/plat-sunos5
/opt/TWWfsw/python242/lib/python2.4/lib-tk
/opt/TWWfsw/python242/lib/python2.4/lib-dynload
/opt/TWWfsw/python242/lib/python2.4/site-packages
/opt/TWWfsw/python242p/lib/python2.4/site-packages
/opt/TWWfsw/python242p/lib/site-python

```

To prepend additional site-specific paths to this list, update `/opt/TWWfsw/python242/etc/include.paths.d` with the list of additional paths to search:

```

$ ls /opt/TWWfsw/python242/etc/include.paths.d
01-modules
02-modules
$ cat /opt/TWWfsw/python242/etc/include.paths.d/01-modules
/opt/site/python242/modules
$ cat /opt/TWWfsw/python242/etc/include.paths.d/02-modules
/opt/site/python242/user.modules
$ /opt/TWWfsw/python242/bin/python
>>> import sys
>>> for p in sys.path:
>>>     print p
/opt/site/python242/modules
/opt/site/python242/user.modules
/opt/TWWfsw/python242/lib/python2.4
/opt/TWWfsw/python242/lib/python2.4/plat-sunos5
/opt/TWWfsw/python242/lib/python2.4/lib-tk

```

```
/opt/TWWfsw/python242/lib/python2.4/lib-dynload
/opt/TWWfsw/python242/lib/python2.4/site-packages
/opt/TWWfsw/python242p/lib/python2.4/site-packages
/opt/TWWfsw/python242p/lib/site-python
```

## 7 Python 2.5.1 module search path

Python has been updated to read a configuration file containing a list of module search paths, `/opt/TWWfsw/python25/etc/include.paths`, and to read a directory of configuration files, `/opt/TWWfsw/python25/etc/include.paths.d`, containing a list of module search paths. The module search path is augmented by prepending the paths to the default Python search path.

As an example, the default search path is:

```
$ /opt/TWWfsw/python25/bin/python
>>> import sys
>>> for p in sys.path:
>>>     print p
/opt/TWWfsw/python25/lib/python2.5
/opt/TWWfsw/python25/lib/python2.5/plat-sunos5
/opt/TWWfsw/python25/lib/python2.5/lib-tk
/opt/TWWfsw/python25/lib/python2.5/lib-dynload
/opt/TWWfsw/python25/lib/python2.5/site-packages
/opt/TWWfsw/python25p/lib/python2.5/site-packages
/opt/TWWfsw/python25p/lib/site-python
```

To prepend additional site-specific paths to this list, update

`/opt/TWWfsw/python25/etc/include.paths.d` with the list of additional paths to search:

```
$ ls /opt/TWWfsw/python25/etc/include.paths.d
01-modules
02-modules
$ cat /opt/TWWfsw/python25/etc/include.paths.d/01-modules
/opt/site/python25/modules
$ cat /opt/TWWfsw/python25/etc/include.paths.d/02-modules
/opt/site/python25/user.modules
$ /opt/TWWfsw/python25/bin/python
>>> import sys
>>> for p in sys.path:
>>>     print p
/opt/site/python25/modules
/opt/site/python25/user.modules
/opt/TWWfsw/python25/lib/python2.5
/opt/TWWfsw/python25/lib/python2.5/plat-sunos5
/opt/TWWfsw/python25/lib/python2.5/lib-tk
/opt/TWWfsw/python25/lib/python2.5/lib-dynload
/opt/TWWfsw/python25/lib/python2.5/site-packages
/opt/TWWfsw/python25p/lib/python2.5/site-packages
/opt/TWWfsw/python25p/lib/site-python
```

## 8 GPG Public Key for The Written Word, Inc.

Our GPG key is available at <https://support.thewrittenword.com/resources/gpg> and in the support directory of the distribution CD under the name “public-key.gpg”. It can be used to check the signature of packages available at <http://updates.thewrittenword.com> with the `--check-sig` option to `pkg-inst`. All packages in the remote repository, <http://updates.thewrittenword.com>, are signed with our key.

## 9 Installation instructions

Installation instructions are available from the online support site, “<https://support.thewrittenword.com/resources/start/>”. Please review this carefully before attempting installation of the packages.

The `pkgutils` suite contains tools to assist in configuring, installing, managing, and upgrading an installation. It is located in the `support` directory on the CD and should be installed first. The `pkg-inst` tool, part of the `pkgutils` suite, can then be used to install the remaining packages. The installation documentation covers each tool in detail. Briefly,

<code>chk-pkg-updates</code> :	Check for new releases relative to what is installed.
<code>pkg-config</code> :	Install and remove links to common bin, info, and man directories after installation of a package. Similar to the HP-UX “ <code>swconfig</code> ” command.
<code>pkg-info</code> :	List installed packages, packages from a repository, package information, and what packages have common links associated with them.
<code>pkg-inst</code> :	Installs and upgrades packages available in a local or remote repository. <code>pkg-inst</code> is the preferred method of installing packages, regardless of the package management system being used.
<code>pkg-rm</code> :	Removes packages installed with the <code>pkg-inst</code> tool, regardless of the package management system being used.

## 10 Acknowledgements

1. This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).
2. Gnuplot is copyright 1986-1993, 1998, 2004 Thomas Williams, Colin Kelley
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16. This product includes software developed by Ian F. Darwin and others.
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