

# **e-STUDIO7527AC/6525AC Series**

# **e-STUDIO9029A/6528A Series**

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## **Information**

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acl, adduser, agg, alsa-lib, alsa-utils, at, attr, audit, base-files, bash, bc, beecrypt, binutils, bison, Boost, Buildroot, BusyBox, ccs-tools, cluster-agents, cluster-glue, coreboot, cpio, cracklib, cryptsetup, cups, dbus, dcfldd, debianutils, dibbler, dmapi, dpkg, e2fsprogs, eglibc, ElectricFence, elfutils, encryptionSetup, ethtool, fam, fbshot, flashrom, FreeType, ftplib, ftplib++, ftpserver, fuse, gawk, gcc, gdb, gdbm, gettext, glib2, gnash, gnutls, grub, gstreamer, gzip, hdparm, heartbeat, htop, hwdata, ifenslave, ifupdown, iotop, iproute, IPRTTools, ipsec-tools, iptables, iputils, kbd, kexec-tools, krb5, libcap, libftdi, libgcrypt, libgpg-error, libidn, libjpeg, libpng, libselinux, libtool, libxml diff, libxslt, Linux kernel, lm-sensors, logrotate, lrzsz, lsb, lsof, ltrace, lttnng-tools, lttnng-ust, LVM2, LZO, lzop, make-dfsg, makedevs, mcstrans, mhash, mingetty, minicom, mm, module-init-tools, multipath-tools, ncpfs, neon, netatalk, netbase, net-tools, nfs-utils, Nimbus Sans L font, nspr, nss, ntp, openDHCP Server, OpenIPMI, opkg, oprofile, Linux-PAM, parted, paxctl,	Exhibit 2

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at, bash, bind, binutils, bison, Buildroot, cluster-agents, coreutils, cpio, diffutils, ed, elfutils, exfat-fuse, findutils, gawk, gcc, gdb, gettext, gmp, gnash, gnutls, grep, grub, gstreamer, httpd, inetutils, less, libidn, libtasn1, lttng-tools, lttng-ust, ntp, opkg, parted, readline, rsyslog, samba, SambaSendService sed, SFML, syslog-ng, tar, userspace-rcu, util-linux, avahi, cairo, flac, x11proto-composite, pcsc-lite, DNSMasq	Exhibit 3
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### Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.



You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (a program to direct compilers to make passes at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

That's all there is to it!

## [Exhibit-2]

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To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.  
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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies

the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.  
Copyright (C) yyyy name of author

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This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details  
type `show w'. This is free software, and you are welcome  
to redistribute it under certain conditions; type `show c'  
for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright  
interest in the program 'Gnomovision'  
(which makes passes at compilers) written  
by James Hacker.

signature of Ty Coon, 1 April 1989  
Ty Coon, President of Vice

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For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of

the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

## TERMS AND CONDITIONS

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“Copyright” also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

“The Program” refers to any copyrightable work licensed under this License. Each licensee is addressed as “you”. “Licensees” and “recipients” may be individuals or organizations.

To “modify” a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a “modified version” of the earlier work or a work “based on” the earlier work.

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To “convey” a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays “Appropriate Legal Notices” to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

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The “source code” for a work means the preferred form of the work for making modifications to it. “Object code” means any non-source form of a work.

A “Standard Interface” means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The “System Libraries” of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A “Major Component”, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The “Corresponding Source” for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes

interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

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You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

## 5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- \* a) The work must carry prominent notices stating that you modified it, and giving a relevant date.
- \* b) The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- \* c) You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.
- \* d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program

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A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an “aggregate” if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

## 6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- \* a) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

- \* b) Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

- \* c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

- \* d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

- \* e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A “User Product” is either (1) a “consumer product”, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, “normally used” refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

“Installation Information” for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects



the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

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one line to give the library's name and an idea of what it does.  
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That's all there is to it!

## [Exhibit-5]

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Version 3, 29 June 2007

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  - 1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.

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## [Exhibit-7]

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`enable_if` ([http://www.boost.org/doc/libs/1\\_39\\_0/libs/utility/enable\\_if.html](http://www.boost.org/doc/libs/1_39_0/libs/utility/enable_if.html))

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 */
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

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Michael Campanella (campanella@stevms.enet.dec.com)

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Originally written by Tony Finch <fanf@demon.net> <dot@dotat.at>.

Implementation ideas were taken from mod\_alias.c. The overall  
concept is derived from the OVERRIDE\_DOC\_ROOT/OVERRIDE\_CGIDIR  
patch to Apache 1.3b3 and a similar feature in Demon's httpd,  
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- lib/gssapi/generic/gssapi\_err\_generic.et
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- lib/gssapi/mechglue/g\_acquire\_cred.c
- lib/gssapi/mechglue/g\_canon\_name.c
- lib/gssapi/mechglue/g\_compare\_name.c
- lib/gssapi/mechglue/g\_context\_time.c
- lib/gssapi/mechglue/g\_delete\_sec\_context.c
- lib/gssapi/mechglue/g\_dsp\_name.c
- lib/gssapi/mechglue/g\_dsp\_status.c
- lib/gssapi/mechglue/g\_dup\_name.c
- lib/gssapi/mechglue/g\_exp\_sec\_context.c
- lib/gssapi/mechglue/g\_export\_name.c
- lib/gssapi/mechglue/g\_glue.c
- lib/gssapi/mechglue/g\_imp\_name.c
- lib/gssapi/mechglue/g\_imp\_sec\_context.c
- lib/gssapi/mechglue/g\_init\_sec\_context.c
- lib/gssapi/mechglue/g\_initialize.c
- lib/gssapi/mechglue/g\_inquire\_context.c
- lib/gssapi/mechglue/g\_inquire\_cred.c
- lib/gssapi/mechglue/g\_inquire\_names.c
- lib/gssapi/mechglue/g\_process\_context.c
- lib/gssapi/mechglue/g\_rel\_buffer.c
- lib/gssapi/mechglue/g\_rel\_cred.c
- lib/gssapi/mechglue/g\_rel\_name.c
- lib/gssapi/mechglue/g\_rel\_oid\_set.c
- lib/gssapi/mechglue/g\_seal.c
- lib/gssapi/mechglue/g\_sign.c
- lib/gssapi/mechglue/g\_store\_cred.c
- lib/gssapi/mechglue/g\_unseal.c
- lib/gssapi/mechglue/g\_userok.c
- lib/gssapi/mechglue/g\_utils.c
- lib/gssapi/mechglue/g\_verify.c
- lib/gssapi/mechglue/gssd\_pname\_to\_uid.c
- lib/gssapi/mechglue/mglueP.h
- lib/gssapi/mechglue/oid\_ops.c
- lib/gssapi/spnego/gssapiP\_spnego.h
- lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

- include/iprop\_hdr.h
- kadmin/server/ipropd\_svc.c
- lib/kdb/iprop.x
- lib/kdb/kdb\_convert.c
- lib/kdb/kdb\_log.c
- lib/kdb/kdb\_log.h
- lib/krb5/error\_tables/kdb5\_err.et
- slave/kpropd\_rpc.c
- slave/kproplog.c

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Subject: Re: LGPL for the windows entropy gatherer  
To: wk@gnupg.org  
Date: Wed, 22 Aug 2007 03:05:42 +1200

Hi,

>As of now libgrypt is GPL under Windows due to that module and some people  
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>under GPL, so the change would be pretty easy and backwar compatible.

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Modifications:      Added PACKET\_MMAP support

Paolo Abeni <paolo.abeni@email.it>

based on previous works of:  
Simon Patarin <patarin@cs.unibo.it>  
Phil Wood <cpw@lanl.gov>

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OpenVMS configure procedure for libtiff

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Calling this script install-sh is preferred over install.sh, to prevent 'make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch.

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The source for the has is derived CommonCrypto files CommonDigest.h, md32\_common.h, md5\_locl.h, md5\_locl.h, and openssl/md5.h.

The following changes have been made to the original sources:

- replaced CC\_LONG w/ mDNSu32
- replaced CC\_MD5\* with MD5\*
- replaced CC\_LONG w/ mDNSu32, removed conditional #defines from md5.h
- removed extern decls for MD5\_Init/Update/Final from CommonDigest.h
- removed APPLE\_COMMON\_DIGEST specific #defines from md5\_locl.h

Note: machine archetecure specific conditionals from the original sources are turned off, but are left in the code to aid in platform-specific optimizations and debugging.

Sources originally distributed under the following license headers:

CommonDigest.c - APSL

md32\_Common.h

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md5\_dgst.c, md5\_locl.h

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39. <mailto:%20moeller@gwdgv1.dnet.gwdg.de>  
40. <mailto:%20mogul@pa.dec.com>  
41. <mailto:%20tmoore@fievel.daytonoh.ncr.com>  
42. <mailto:%20kamal@whence.com>  
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Email local part: ph10  
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Written by: Philip Hazel <ph10@cam.ac.uk>

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Contributors:

Wind River Systems - initial API and implementation  
Michael Sills-Lavoie (École Polytechnique de Montréal) - ZeroCopy support  
\* \* - splice\_block

Philippe Proulx - initial plugins system  
Michael Sills-Lavoie - deterministic plugins loading order  
Michael Sills-Lavoie - plugin's shared functions

Xilinx - initial API and implementation

Stanislav Yakovlev - initial API and implementation  
Emmanuel Touron (Wind River) - initial ARM stepping emulation  
Stanislav Yakovlev - [404627] Add support for ARM VFP registers

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This started out as a very simple program, but the incremental decoding (into the BE structure) complicated things.

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This is an original implementation of the DES and the crypt(3) interfaces by David Burren <davidb@werj.com.au>.

An excellent reference on the underlying algorithm (and related algorithms) is:

B. Schneier, Applied Cryptography: protocols, algorithms,  
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Julian Seward, Cambridge, UK.  
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bzip2/libbzip2 version 1.0 of 21 March 2000

This program is based on (at least) the work of:

Mike Burrows  
David Wheeler  
Peter Fenwick  
Alistair Moffat  
Radford Neal  
Ian H. Witten  
Robert Sedgewick  
Jon L. Bentley

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Changes have been made by Tony Andrews, Olaf 'Rhialto' Seibert, Robert Webb, Ciaran McCreesh and Bram Moolenaar.  
Named character class support added by Walter Briscoe (1998 Jul 01)

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---

This file implements some helper functions for the array assignment routines. The actual assignment routines are in `array_assign_*.c`

Written by Mark Wiebe ([mwwiebe@gmail.com](mailto:mwwiebe@gmail.com))

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Provide multidimensional arrays as a basic object type in python.

Based on Original Numeric implementation

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with contributions from many Numeric Python developers 1995-2004

Heavily modified in 2005 with inspiration from Numarray

by

Travis Oliphant, [oliphant@ee.byu.edu](mailto:oliphant@ee.byu.edu)

Brigham Young University

maintainer email: [oliphant.travis@ieee.org](mailto:oliphant.travis@ieee.org)

Numarray design (which provided guidance) by

Space Science Telescope Institute

(J. Todd Miller, Perry Greenfield, Rick White)

---

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---

This file contains low-level loops for data type transfers. In particular the function `PyArray_GetDTypeTransferFunction` is implemented here.

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Python Multiarray Module -- A useful collection of functions for creating and using ndarrays

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Copyright (c) 1995, 1996, 1997 Jim Hugunin, [hugunin@mit.edu](mailto:hugunin@mit.edu)

Modified for numpy in 2005

Travis E. Oliphant  
[oliphant@ee.byu.edu](mailto:oliphant@ee.byu.edu)  
Brigham Young University

---

This file implements most of the main API functions of NumPy's `nditer`. This excludes functions specialized using the templating system.

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In 2006, the package was completely rewritten by Pierre Gerard-Marchant  
(University of Georgia) to make the MaskedArray class a subclass of ndarray,  
and to improve support of structured arrays.

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(pgmdevlist\_AT\_gmail\_DOT\_com)  
Improvements suggested by Reggie Dugard (reggie\_AT\_merfinllc\_DOT\_com)

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<https://gist.github.com/inneme/f1f7821f07cf76504a97f6537c818083>

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The pyCMS.py module provides a "clean" interface between Python/PIL and  
pyCMSdll, taking care of some of the more complex handling of the direct  
pyCMSdll functions, as well as error-checking and making sure that all  
relevant data is kept together.

While it is possible to call pyCMSdll functions directly, it's not highly  
recommended.

---

```
# The algo for the MSP decoder is from
# http://www.fileformat.info/format/mspaint/egff.htm
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# Encyclopedia of Graphics File Formats and is licensed by
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#
# For RLE encoded files, the 32byte header is followed by a scan
# line map, encoded as one 16bit word of encoded byte length per
# line.
```

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```
printf("%s", png_get_copyright(NULL));
```

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This test was originally created to test `_cairo_fixed_from_double`. `cairo_pattern_create_radial` was selected as the entry point into `cairo` as it makes several calls to `_cairo_fixed_from_double` and presents a somewhat realistic use-case (although the `RADIALS_COUNT` isn't very realistic).

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cairo - a vector graphics library with display and print output

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A hacky replacement for backtrace\_symbols in glibc

backtrace\_symbols in glibc looks up symbols using dladdr which is limited in the symbols that it sees. libbacktracesymbols opens the executable and shared libraries using libbfd and will look up backtrace information using the symbol table and the dwarf line information.

It may make more sense for this program to use libelf instead of libbfd. However, I have not investigated that yet.

Derived from addr2line.c from GNU Binutils by Jeff Muizelaar

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cairo - a vector graphics library with display and print output

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This file contains a fast, not so accurate integer implementation of the forward DCT (Discrete Cosine Transform).

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by Mike Melanson (melanson@pcisys.net)  
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Acoustic Echo Cancellation NLMS-pw algorithm

Version 0.3 filter created with [www.dsptutor.freeuk.com](http://www.dsptutor.freeuk.com)  
Version 0.3.1 Allow change of stability parameter delta  
Version 0.4 Leaky Normalized LMS - pre whitening algorithm

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