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```
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1.7 audit 2.2 :2.el6

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1.8 audit-libs 2.2 :2.el6 (with real source)

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1.9 authconfig 6.1.12 :13.el6

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1.10 b43-openfwwf 5.2 :4.el6

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1.11 bash 4.1.2 :14.el6

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1.13 binutils 2.20.51.0.2 :5.36.el6

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iconv (Charset Conversion Library) v2.0

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* long as the form of the shared library is such that it is possible for
* the end user to modify and rebuild the library and use it in
* conjunction with the program executable.
*/
From gsf@research.att.com  Wed Mar  1 20:30:54 2006
Return-Path: <gsf@research.att.com>
X-Original-To: mps@bridge.intra
```

Delivered-To: mps@bridge.intra
Received: from localhost (localhost [127.0.0.1])
 by localhost (Postfix) with ESMTP id B8C814E4F
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:53 +0100 (CET)
Received: from mail.bridge.intra ([127.0.0.1])
by localhost (lnx.bridge.intra [127.0.0.1]) (amavisd-new, port 10024)
with LMTP id 05987-03 for <mps@bridge.intra>;
Wed, 1 Mar 2006 20:30:42 +0100 (CET)
Received: from pop.gmx.net (localhost [127.0.0.1])
 by mail.bridge.intra (Postfix) with ESMTP id C8C73794D
 for <mps@bridge.intra>; Wed, 1 Mar 2006 20:30:38 +0100 (CET)
X-Flags: 0000
Delivered-To: GMX delivery to ps.m@gmx.net
Received: (qmail invoked by alias); 01 Mar 2006 19:23:46 -0000
Received: from mail-red.research.att.com (EHLO mail-white.research.att.com) [192.20.225.110]
 by mx0.gmx.net (mx085) with SMTP; 01 Mar 2006 20:23:46 +0100
Received: from raptor.research.att.com (raptor.research.att.com [135.207.23.32])
 by mail-blue.research.att.com (Postfix) with ESMTP id B7929147CBB
 for <ps.m@gmx.net>; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Received: (from gsf@localhost)
 by raptor.research.att.com (SGI-8.9.3p2/8.8.7) id OAA86112
 for ps.m@gmx.net; Wed, 1 Mar 2006 14:23:45 -0500 (EST)
Date: Wed, 1 Mar 2006 14:23:45 -0500 (EST)
From: Glenn Fowler <gsf@research.att.com>
Message-Id: <200603011923.OAA86112@raptor.research.att.com>
Organization: AT&T Research
X-Mailer: mailx (AT&T/BSD) 9.9 2005-04-21
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
References: <Pine.LNX.4.44.0603012011250.6386-100000@lnx.bridge.intra>
To: mps@bridge.intra
Subject: Re: testregex licensing question
X-GMX-Antivirus: -1 (not scanned, may not use virus scanner)
X-GMX-Antispam: 0 (Mail was not recognized as spam)
X-GMX-UID: lJF3ZO9DeSEkJ2TcbHQhaXN1IGRvb0Ca
X-Virus-Scanned: by amavisd-new at localhost
Status: RO
X-Status:
X-Keywords:
X-UID: 44736

you may include it directly
retain the testregex.c header comment
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using # comment style to be complete

let me know how it works with your libc
also pass on any new tests you cook up

On Wed, 1 Mar 2006 20:15:02 +0100 (CET) Peter S. Mazinger wrote:
> Hello Glenn!

> I would want to add testregex.c and the related *.dat files to the uClibc
> testsuite. uClibc is licensed under LGPL v2.1. I haven't found any
> licensing related info on testregex.

> Is it allowed to use the code there, or should I accomodate the testsuite
> to download the needed files from the original site each time it is ran?

> Thanks, Peter

> --
> Peter S. Mazinger <ps dot m at gmx dot net> ID: 0xA5F059F2
> Key fingerprint = 92A4 31E1 56BC 3D5A 2D08 BB6E C389 975E A5F0 59F2

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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006

1.15 bzip2 1.0.5 :7.el6_0

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.16 c-ares19 1.9.1 :(18 Jun 2012)

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# This comes from X11R5 (mit/util/scripts/install.sh).
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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. It can only install one file at a time, a restriction
shared with many OS's install programs.
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1.17 ca-certificates 2010.63 :3.el6_1.5

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1.18 cassandra 2.1.2

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If you develop a new program, and you want it to be of the greatest

possible use to the public, 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
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(at your option) any later version.

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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) 19yy 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

This General Public License does not permit incorporating your program into
proprietary programs. If your program is a subroutine library, you may
consider it more useful to permit linking proprietary applications with the
library. If this is what you want to do, use the GNU Library General
Public License instead of this License.

1.22 coreutils 8.4 :19.el6

1.22.1 Available under license :

```
diff -urNp coreutils-8.4/lib/acl-internal.h coreutils-8.4-orig/lib/acl-internal.h
--- coreutils-8.4/lib/acl-internal.h 2010-01-04 17:19:05.000000000 +0100
+++ coreutils-8.4-orig/lib/acl-internal.h 2011-10-04 15:47:02.195436033 +0200
@@ -112,6 +112,12 @@ rpl_acl_set_fd (int fd, acl_t acl)
#  endif

/* Linux-specific */
+#  ifndef HAVE_ACL_EXTENDED_FILE_NOFOLLOW
+#   define HAVE_ACL_EXTENDED_FILE_NOFOLLOW false
+#   define acl_extended_file_nofollow(name) (-1)
+#  endif
+
+/* Linux-specific */
#  ifndef HAVE_ACL_FROM_MODE
#   define HAVE_ACL_FROM_MODE false
#   define acl_from_mode(mode) (NULL)
diff -urNp coreutils-8.4/lib/file-has-acl.c coreutils-8.4-orig/lib/file-has-acl.c
--- coreutils-8.4/lib/file-has-acl.c 2010-01-04 17:19:05.000000000 +0100
+++ coreutils-8.4-orig/lib/file-has-acl.c 2011-10-04 15:47:02.195436033 +0200
@@ -23,6 +23,33 @@ acl_nontrivial (struct acl *a)

#include "acl-internal.h"

+/* acl_extended_file() tests whether a file has an ACL.  But it can trigger
+   unnecessary autofs mounts.  In newer versions of libacl, a function
+   acl_extended_file_nofollow() is available that uses lgetxattr() and
+   therefore does not have this problem.  It is equivalent to
+   acl_extended_file(), except on symbolic links.  */
+
+static int
+acl_extended_file_wrap (char const *name)
+{
+  if ( ! HAVE_ACL_EXTENDED_FILE)
+    return -1;
+
+  if (HAVE_ACL_EXTENDED_FILE_NOFOLLOW)
```

```
+   {
+     struct stat sb;
+     if (! lstat (name, &sb) && ! S_ISLNK (sb.st_mode))
+       /* acl_extended_file_nofollow() uses lgetxattr() in order to
+          prevent unnecessary mounts.  It returns the same result as
+          acl_extended_file() since we already know that NAME is not a
+          symbolic link at this point (modulo the TOCTTOU race condition).  */
+       return acl_extended_file_nofollow (name);
+   }
+
+  /* fallback for symlinks and old versions of libacl */
+  return acl_extended_file (name);
+}
+

#if USE_ACL && HAVE_ACL_GET_FILE

@@ -315,10 +342,7 @@ file_has_acl (char const *name, struct s

     if (HAVE_ACL_EXTENDED_FILE) /* Linux */
       {
-        /* On Linux, acl_extended_file is an optimized function: It only
-           makes two calls to getxattr(), one for ACL_TYPE_ACCESS, one for
-           ACL_TYPE_DEFAULT.  */
-        ret = acl_extended_file (name);
+        ret = acl_extended_file_wrap (name);
       }
     else /* FreeBSD, MacOS X, IRIX, Tru64 */
       {
diff -urNp coreutils-8.4/m4/acl.m4 coreutils-8.4-orig/m4/acl.m4
--- coreutils-8.4/m4/acl.m4 2010-01-04 17:19:05.000000000 +0100
+++ coreutils-8.4-orig/m4/acl.m4 2011-10-04 15:47:02.196438425 +0200
@@ -33,7 +33,7 @@ AC_DEFUN([gl_FUNC_ACL],
         AC_CHECK_FUNCS(
           [acl_get_file acl_get_fd acl_set_file acl_set_fd \
           acl_free acl_from_mode acl_from_text \
-           acl_delete_def_file acl_extended_file \
+           acl_delete_def_file acl_extended_file acl_extended_file_nofollow \
           acl_delete_fd_np acl_delete_file_np \
           acl_copy_ext_native acl_create_entry_np \
           acl_to_short_text acl_free_text])
diff -urNp coreutils-8.4-orig/tests/ls/slink-acl coreutils-8.4/tests/ls/slink-acl
--- coreutils-8.4-orig/tests/ls/slink-acl 1970-01-01 01:00:00.000000000 +0100
+++ coreutils-8.4/tests/ls/slink-acl 2011-10-04 15:50:09.338551867 +0200
@@ -0,0 +1,36 @@
+#!/bin/sh
+# verify that ls -lL works when applied to a symlink to an ACL'd file
+
```

```
+# Copyright (C) 2011 Free Software Foundation, Inc.
+
+# 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 3 of the License, or
+# (at your option) any later version.
+
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+# 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, see <http://www.gnu.org/licenses/>.
+
+if test "$VERBOSE" = yes; then
+  set -x
+  ls --version
+fi
+
+. $srcdir/test-lib.sh
+require_setacl_
+
+touch k || framework_failure_
+setfacl -m user:${USER}:r k || framework_failure_
+ln -s k s || framework_failure_
+
+set _ $(ls -Log s); shift; link=$1
+set _ $(ls -og k);  shift; reg=$1
+
+test "$link" = "$reg" || fail=1
+
+Exit $fail
diff -urNp coreutils-8.4-orig/tests/Makefile.am coreutils-8.4/tests/Makefile.am
--- coreutils-8.4-orig/tests/Makefile.am 2011-10-04 15:47:02.077561647 +0200
+++ coreutils-8.4/tests/Makefile.am 2011-10-04 15:48:23.127014791 +0200
@@ -385,6 +385,7 @@ TESTS =      \
  ls/readdir-mountpoint-inode   \
  ls/recursive     \
  ls/rt-1     \
+  ls/slink-acl     \
  ls/stat-dtype     \
  ls/stat-failed    \
  ls/stat-free-symlinks    \
diff -urNp coreutils-8.4-orig/tests/test-lib.sh coreutils-8.4/tests/test-lib.sh
--- coreutils-8.4-orig/tests/test-lib.sh 2011-10-04 15:47:02.235439128 +0200
+++ coreutils-8.4/tests/test-lib.sh 2011-10-04 15:47:54.067560983 +0200
@@ -79,6 +79,12 @@ require_selinux_enforcing_()
```

```
   || skip_test_ "This test is useful only with SELinux in Enforcing mode."
}

+require_setfacl_()
+{
+  setfacl -m user::rwx . \
+    || skip_ "setfacl does not work on the current file system"
+}
+
require_openat_support_()
{
  # Skip this test if your system has neither the openat-style functions
```

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Version 3, 29 June 2007

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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

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Corresponding Source along with the object code. If the place to
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that supports equivalent copying facilities, provided you maintain
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Corresponding Source. Regardless of what server hosts the
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available for as long as needed to satisfy these requirements.

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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).

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1.25 cracklib 2.8.16 :4.el6

1.25.1 Available under license :

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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file

that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq <jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt <martin@piware.de> was the package's maintainer up to version 2.7.19-1. The current maintainer is Jan Dittberner <jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

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Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively
involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro

maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
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> > it was enough to just get it consistent and documented as to what
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> GPL-2 ... it was a modified artistic license ... i didnt notice the
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>=20
> unlike the old license, GPL-2 prevents people from using cracklib
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> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
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Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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In any case, I thank you both for working on sorting this out.

Cheers,

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From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

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-mike

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> the change now ?

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-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
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Nathan Neulinger is the only one who can actually make said change ...
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CrackLib was originally licensed with a variant of the Artistic license. In the
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the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM

> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
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GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
I understand that, and you're welcome to bring it up with Alec directly and see if he wants to relicense his code as LGPL... but at this point, it was enough to just get it consistent and documented as to what it was released under. This wasn't actually a license change, just a clarification of the licensing that was already in place.=20

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...

University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
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unlike the old license, GPL-2 prevents people from using cracklib unless th=
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library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

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From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
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additional code, so whatever licensing y'all come up with is fine by me.

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Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
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Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
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 Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
 by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
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X-Originating-Rutherford-IP: [82.68.43.14]
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X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

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> From: Neulinger, Nathan <nneul@umr.edu>
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> Subject: RE: cracklib license
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The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.26 cracklib-dicts 2.8.16 :4.el6

1.26.1 Available under license :

GNU LESSER GENERAL PUBLIC LICENSE
Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts
as the successor of the GNU Library Public License, version 2, hence
the version number 2.1.]

Preamble

The licenses for most software are designed to take away your
freedom to share and change it. By contrast, the GNU General Public
Licenses are intended to guarantee your freedom to share and change
free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some
specially designated software packages--typically libraries--of the
Free Software Foundation and other authors who decide to use it. You
can use it too, but we suggest you first think carefully about whether
this license or the ordinary General Public License is the better
strategy to use in any particular case, based on the explanations
below.

When we speak of free software, we are referring to freedom of use,

not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

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

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.
^L
Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.
^L

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TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, 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 library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, 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 Library, 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 Library.

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

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in

these notices.
^L
Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be 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.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.
^L
7. You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

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^L

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To apply these terms, attach the following notices to the library. 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 library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This library 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 Lesser General Public License for more details.

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

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20
> > looks like 2.8.11 is out and marked as "GPL-2" ... releasing

> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 ... it was a modified artistic license ... i didnt notice the license=
=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

Nathan Neulinger EMail: nneul@um...
University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

> -----Original Message-----
> From: cracklib-devel-bounces@li...

> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
> directly
> > and see if he wants to relicense his code as LGPL... but at this
> point,
> > it was enough to just get it consistent and documented as to what
> it was
> > released under. This wasn't actually a license change, just a
> > clarification of the licensing that was already in place.
>=20
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> not
> GPL-2 ... it was a modified artistic license ... i didnt notice the
> license
> change until it was mentioned in the latest notes.
>=20
> unlike the old license, GPL-2 prevents people from using cracklib
> unless their
> applications are also GPL-2 which imo is just wrong. it isnt the
> place of a
> library to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone's
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

I like GPL, I use it when I can, but I don't think that it's the correct
license in this situation.

Devin
--
If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
> > additional code, so whatever licensing y'all come up with is fine
> > by me.
>
> I am sympathetic. Guys, what do you reckon?
>
> What I am hearing so far is that LGPL makes sense, since it can be
> linked with any code, not just GPL...

My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
GPLv2 with the option of using the library under a later version of the
GPL would permit applications which were released under version 3 of the
GPL to use the library, too, which would be sufficient for the packages
which are included in Fedora. FWIW, I'd personally lean toward LGPL.

In any case, I thank you both for working on sorting this out.

Cheers,

Nalin

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-05 21:27

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL...
>
> My apologies for not chiming in in anything resembling a reasonable
> timeframe.
>
> I'd also suggest the LGPL, for the reason you noted above. Alternately,
> GPLv2 with the option of using the library under a later version of the
> GPL would permit applications which were released under version 3 of the
> GPL to use the library, too, which would be sufficient for the packages
> which are included in Fedora. FWIW, I'd personally lean toward LGPL.
>
> In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now ?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
>
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...
-mike

BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.

CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000

Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
 by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
 for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
 by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
 for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
 by rutherford.zen.co.uk with esmtp (Exim 4.50)
 id 1IcOcX-0004Qt-6L
 for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length: 585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk
>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a

1.27 cronie 1.4.4 :7.el6

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```
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1.28 crontabs 1.10 :33.el6

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1.32 db4 4.7.25 :17.el6

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1.33 dbus 1.2.24 :7.el6_3

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dhclient-script for Linux. Dan Halbert, March, 1997.
Updated for Linux 2.[12] by Brian J. Murrell, January 1999.
Modified by David Cantrell <dcantrell@redhat.com> for Fedora and RHEL

1.40 diffutils 2.8.1 :28.el6

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Theodore Ts'o
23-June-2007

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1.46 ethtool 3.5 :1.el6

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1.48 file 5.04 :15.el6

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 #                         vasprintf                                          #
 #                                                                            #
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==========

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==========

1.49 findutils 4.4.2 :6.el6

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#

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#
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c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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That's all there is to it!

1.55 gdb 7.2 :60.el6

1.55.1 Available under license :

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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.

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, 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 library.

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be 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.

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Appendix: How to Apply These Terms to Your New Programs

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<one line to give the program's name and a brief idea of what it does.>
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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

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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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#
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#
As a special exception to the GNU General Public License, if you
distribute this file as part of a program that contains a
configuration script generated by Autoconf, you may include it under
the same distribution terms that you use for the rest of that program.

This program was configured as follows,
on host `(hostname || uname -n) 2>/dev/null | sed 1q`:

```
#
# CC="$old_CC" CFLAGS="$old_CFLAGS" CPPFLAGS="$old_CPPFLAGS" \\
# LD="$old_LD" NM="$old_NM" RANLIB="$old_RANLIB" LN_S="$old_LN_S" \\
#   $0$ltconfig_args
#
# Compiler and other test output produced by $progname, useful for
# debugging $progname, is in ./config.log if it exists.
install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
#
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# without express or implied warranty.
#
# 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.  It can only install one file at a time, a restriction
# shared with many OS's install programs
```

1.57 glib2 2.22.5 :7.el6

1.57.1 Available under license :

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

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The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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PCRE LICENCE

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End
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1.59 glibc 2.12 :1.149.el6_6.5

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THE GNU MP LIBRARY

GNU MP is a library for arbitrary precision arithmetic, operating on signed integers, rational numbers, and floating point numbers. It has a rich set of functions, and the functions have a regular interface.

GNU MP is designed to be as fast as possible, both for small operands and huge operands. The speed is achieved by using fullwords as the basic arithmetic type, by using fast algorithms, with carefully optimized assembly code for the most common inner loops for lots of CPUs, and by a general emphasis on speed (instead of simplicity or elegance).

GNU MP is believed to be faster than any other similar library. Its advantage increases with operand sizes for certain operations, since GNU MP in many cases has asymptotically faster algorithms.

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OVERVIEW OF GNU MP

There are five classes of functions in GNU MP.

1. Signed integer arithmetic functions (mpz). These functions are intended
   to be easy to use, with their regular interface. The associated type is
   'mpz_t'.

2. Rational arithmetic functions (mpq). For now, just a small set of
   functions necessary for basic rational arithmetics. The associated type
   is 'mpq_t'.

3. Floating-point arithmetic functions (mpf). If the C type 'double'
   doesn't give enough precision for your application, declare your
   variables as 'mpf_t' instead, set the precision to any number desired,
   and call the functions in the mpf class for the arithmetic operations.

4. Positive-integer, hard-to-use, very low overhead functions are in the
   mpn class. No memory management is performed. The caller must ensure
   enough space is available for the results. The set of functions is not
   regular, nor is the calling interface. These functions accept input
   arguments in the form of pairs consisting of a pointer to the least
   significant word, and an integral size telling how many limbs (= words)
   the pointer points to.

   Almost all calculations, in the entire package, are made by calling these
   low-level functions.

5. Berkeley MP compatible functions.

   To use these functions, include the file "mp.h". You can test if you are
   using the GNU version by testing if the symbol __GNU_MP__ is defined.

For more information on how to use GNU MP, please refer to the documentation.
It is composed from the file doc/gmp.texi, and can be displayed on the screen
or printed. How to do that, as well how to build the library, is described in
the INSTALL file in this directory.

   REPORTING BUGS

If you find a bug in the library, please make sure to tell us about it!

You should first check the GNU MP web pages at http://gmplib.org/, under
"Status of the current release". There will be patches for all known serious
bugs there.

Report bugs to gmp-bugs@gmplib.org. What information is needed in a useful bug
report is described in the manual. The same address can be used for suggesting
modifications and enhancements.

Local variables:
mode: text
fill-column: 78
End:

1.66 gnupg2 2.0.14 :4.el6

1.66.1 Available under license :

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1.72 gzip 1.3.12 :18.el6

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* "Khronos applauds this move by SGI to adopt a new licensing model that will benefit the entire OpenGL community," said Neil Trevett,president of The Khronos Group, a member-funded industry consortium creating and evolving open standard APIs ? including OpenGL. "It takes truly open standards to enable the authoring and playback of rich media on a wide variety of platforms and devices, and today's announcement shows real support for developers who rely on OpenGL, the planet's most widely deployed 2D and 3D graphics API." (www.khronos.org)

Additional information:

* Details on Version 2.0 of the SGI Free Software License B are available at: http://oss.sgi.com/projects/FreeB/

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1.78 iptables 1.4.7 :9.el6

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1.79 iputils 20071127 :16.el6

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*
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1.81 kernel 2.6.32 :358.el6

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*

```
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
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*/

1.82 keyutils 1.4 :4.el6

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1.83 krb5-libs 1.10.3 :10.el6

1.83.1 Available under license :

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cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c

lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
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lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/mechglue/g_accept_sec_context.c
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
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lib/gssapi/mechglue/g_dup_name.c
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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
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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
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@smallexample
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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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
`src/lib/gssapi', including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
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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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be 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.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

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1.89 libdrm 2.4.39 :1.el6

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1.90 libedit 2.11 :4.20080712cvs.1.el6

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot

use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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1.102 libSM 1.2.1 :Jan 11 2012 Matt Dew

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1.103 libssh2 1.4.2 :1.el6

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1.104 libusb 0.1.12 :23.el6

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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 Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.107 libuuid 2.17.2 :12.9.el6

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```
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* BSD/OSF partition parsing code
*
* Copyright (C) 2009 Karel Zak <kzak@redhat.com>
*
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*
* Inspired by fdisk, partx, Linux kernel, libparted and openbsd header files.
*/
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <stdint.h>

#include "partitions.h"

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /* # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
```

```
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /* track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */
```

```
 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;      /* starting sector */
  uint32_t p_fsize;       /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed)) d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* Returns 'blkid_idmag' in 512-sectors */
#define BLKID_MAG_SECTOR(_mag)  (((_mag)->kboff * 2)  + ((_mag)->sboff >> 9))

/* Returns 'blkid_idmag' in bytes */
#define BLKID_MAG_OFFSET(_mag)  ((_mag)->kboff >> 10) + ((_mag)->sboff)

/* Returns 'blkid_idmag' offset in bytes within the last sector */
#define BLKID_MAG_LASTOFFSET(_mag) \
   (BLKID_MAG_OFFSET(_mag) - (BLKID_MAG_SECTOR(_mag) << 9))

static int probe_bsd_pt(blkid_probe pr, const struct blkid_idmag *mag)
{
 struct bsd_disklabel *l;
 struct bsd_partition *p;
 const char *name = "bsd" ;
 blkid_parttable tab = NULL;
 blkid_partition parent;
 blkid_partlist ls;
 int i, nparts = BSD_MAXPARTITIONS;
 unsigned char *data;

 if (blkid_partitions_need_typeonly(pr))
  /* caller does not ask for details about partitions */
  return 0;

 data = blkid_probe_get_sector(pr, BLKID_MAG_SECTOR(mag));
 if (!data)
  goto nothing;

 l = (struct bsd_disklabel *) data + BLKID_MAG_LASTOFFSET(mag);

 ls = blkid_probe_get_partlist(pr);
 if (!ls)
  goto err;

 /* try to determine the real type of BSD system according to
  * (parental) primary partition */
```

```
parent = blkid_partlist_get_parent(ls);
if (parent) {
 switch(blkid_partition_get_type(parent)) {
 case BLKID_FREEBSD_PARTITION:
  name = "freebsd";
  break;
 case BLKID_NETBSD_PARTITION:
  name = "netbsd";
  break;
 case BLKID_OPENBSD_PARTITION:
  name = "openbsd";
  break;
 default:
  DBG(DEBUG_LOWPROBE, printf(
   "WARNING: BSD label detected on unknown (0x%x) "
   "primary partition\n",
   blkid_partition_get_type(parent)));
  break;
 }
}

tab = blkid_partlist_new_parttable(ls, name, BLKID_MAG_OFFSET(mag));
if (!tab)
 goto err;

if (le16_to_cpu(l->d_npartitions) < BSD_MAXPARTITIONS)
 nparts = le16_to_cpu(l->d_npartitions);

else if (le16_to_cpu(l->d_npartitions) > BSD_MAXPARTITIONS)
 DBG(DEBUG_LOWPROBE, printf(
  "WARNING: ignore %d more BSD partitions\n",
  le16_to_cpu(l->d_npartitions) - BSD_MAXPARTITIONS));

for (i = 0, p = l->d_partitions; i < nparts; i++, p++) {
 uint32_t start, size;

 /* TODO: in fdisk-mode returns all non-zero (p_size) partitions */
 if (p->p_fstype == BSD_FS_UNUSED)
  continue;

 start = le32_to_cpu(p->p_offset);
 size = le32_to_cpu(p->p_size);

 if (parent && !blkid_is_nested_dimension(parent, start, size)) {
  DBG(DEBUG_LOWPROBE, printf(
   "WARNING: BSD partition (%d) overflow "
   "detected, ignore\n", i));
  continue;
```

```
  }

  if (!blkid_partlist_add_partition(ls, tab, p->p_fstype, start, size))
   goto err;
  }

  return 0;

nothing:
  return 1;
err:
  return -1;
}


/*
* All BSD variants use the same magic string (little-endian),
* and the same disklabel.
*
* The difference between {Free,Open,...}BSD is in the (parental)
* primary partition type.
*
* See also: http://en.wikipedia.org/wiki/BSD_disklabel
*
* The location of BSD disk label is architecture specific and in defined by
* LABELSECTOR and LABELOFFSET macros in the disklabel.h file. The location
* also depends on BSD variant, FreeBSD uses only one location, NetBSD and
* OpenBSD are more creative...
*
* The basic overview:
*
* arch                    | LABELSECTOR | LABELOFFSET
* ------------------------+-------------+------------
* amd64 arm hppa hppa64   |             |
* i386, macppc, mvmeppc   |      1      |      0
* sgi, aviion, sh, socppc |             |
* ------------------------+-------------+------------
* alpha luna88k mac68k    |      0      |     64
* sparc(OpenBSD) vax      |             |
* ------------------------+-------------+------------
* spark64 sparc(NetBSD)   |      0      |    128
* ------------------------+-------------+------------
*
* ...and more (see http://fxr.watson.org/fxr/ident?v=NETBSD;i=LABELSECTOR)
*
*/
const struct blkid_idinfo bsd_pt_idinfo =
{
```

```
 .name  = "bsd",
 .probefunc = probe_bsd_pt,
 .magics  =
 {
  { .magic = "\x57\x45\x56\x82", .len = 4, .sboff = 512 },
  { .magic = "\x57\x45\x56\x82", .len = 4, .sboff = 64 },
  { .magic = "\x57\x45\x56\x82", .len = 4, .sboff = 128 },
  { NULL }
 }
};
#include <stdio.h>
#include "partx.h"

#define BSD_DISKMAGIC (0x82564557UL) /* The disk magic number */
#define XBSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

struct bsd_disklabel {
 unsigned int d_magic; /* the magic number */
 short int d_type;  /* drive type */
 short int d_subtype; /* controller/d_type specific */
 char d_typename[16];  /* type name, e.g. "eagle" */
 char d_packname[16];  /* pack identifier */
 unsigned int d_secsize; /* # of bytes per sector */
 unsigned int d_nsectors; /* # of data sectors per track */
 unsigned int d_ntracks; /* # of tracks per cylinder */
 unsigned int d_ncylinders; /* # of data cylinders per unit */
 unsigned int d_secpercyl; /* # of data sectors per cylinder */
 unsigned int d_secperunit; /* # of data sectors per unit */
 unsigned short d_sparespertrack;/* # of spare sectors per track */
 unsigned short d_sparespercyl; /* # of spare sectors per cylinder */
 unsigned int d_acylinders; /* # of alt. cylinders per unit */
 unsigned short d_rpm;  /* rotational speed */
 unsigned short d_interleave; /* hardware sector interleave */
 unsigned short d_trackskew; /* sector 0 skew, per track */
 unsigned short d_cylskew; /* sector 0 skew, per cylinder */
 unsigned int d_headswitch; /* head switch time, usec */
 unsigned int d_trkseek; /* track-to-track seek, usec */
 unsigned int d_flags; /* generic flags */
 unsigned int d_drivedata[5]; /* drive-type specific information */
 unsigned int d_spare[5]; /* reserved for future use */
 unsigned int d_magic2; /* the magic number (again) */
 unsigned short d_checksum; /* xor of data incl. partitions */

   /* filesystem and partition information: */
 unsigned short d_npartitions; /* number of partitions in following */
 unsigned int d_bbsize; /* size of boot area at sn0, bytes */
 unsigned int d_sbsize; /* max size of fs superblock, bytes */
```

```
 struct bsd_partition {  /* the partition table */
  unsigned int p_size;   /* number of sectors in partition */
  unsigned int p_offset; /* starting sector */
  unsigned int p_fsize;  /* filesystem basic fragment size */
  unsigned char p_fstype; /* filesystem type, see below */
  unsigned char p_frag;   /* filesystem fragments per block */
  unsigned short p_cpg;   /* filesystem cylinders per group */
 } d_partitions[XBSD_MAXPARTITIONS];/* actually may be more */
};

int
read_bsd_pt(int fd, struct slice all, struct slice *sp, int ns) {
 struct bsd_disklabel *l;
 struct bsd_partition *p;
 unsigned int offset = all.start;
 int max_partitions;
 unsigned char *bp;
 int n = 0;

 bp = getblock(fd, offset+1);  /* 1 sector suffices */
 if (bp == NULL)
  return -1;

 l = (struct bsd_disklabel *) bp;
 if (l->d_magic != BSD_DISKMAGIC)
  return -1;

 max_partitions = 16;
 if (l->d_npartitions < max_partitions)
  max_partitions = l->d_npartitions;
 for (p = l->d_partitions; p - l->d_partitions <  max_partitions; p++) {
  if (p->p_fstype == BSD_FS_UNUSED)
   /* nothing */;
  else if (n < ns) {
   sp[n].start = p->p_offset;
   sp[n].size = p->p_size;
   n++;
  } else {
   fprintf(stderr,
    "bsd_partition: too many slices\n");
   break;
  }
 }
 return n;
}
/*
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*
```

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1.111 libxcb 1.8.1 :1.el6

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1.112 libXext 1.3.1 :Sep 28 2011 Alan Coopersmith

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1.113 libXft 2.3.1 :2.el6

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1.114 libxml2 2.7.6 :20.el6

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1.115 libxml2 2.7.6 :8.el6_3.4

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1.118 libXrender 0.9.7 :Jan 2 2012 Emanuele Giaquinta

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[This is the first released version of the library GPL. It is
numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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Thus, it is not the intent of this section to claim rights or contest

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1.125 man 1.6f :32.el6

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1.126 mdadm 3.2.5 :4.el6

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1.127 mingetty 1.08 :5.el6

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*/

/**
*  System dependent filesystem methods.
*
*  @author Jan-Henrik Haukeland, <hauk@tildeslash.com>
*  @author Martin Pala, <martinp@tildeslash.com>
*
*  @file
```

```
*/

#include <config.h>

#ifdef HAVE_STDIO_H
#include <stdio.h>
#endif

#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif

#ifdef HAVE_STRING_H
#include <string.h>
#endif

#ifdef HAVE_SYS_PARAM_H
#include <sys/param.h>
#endif

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif

#include "monitor.h"
#include "device_sysdep.h"

/**
* FreeBSD special block device mountpoint method. Filesystem must be mounted.
* In the case of success, mountpoint is stored in filesystem information
* structure for later use.
*
* @param inf  Information structure where resulting data will be stored
* @param blockdev Identifies block special device
* @return         NULL in the case of failure otherwise mountpoint
*/
char *device_mountpoint_sysdep(Info_T inf, char *blockdev) {

 struct statfs usage;

 ASSERT(inf);
 ASSERT(blockdev);

 if(statfs(blockdev, &usage) != 0) {
   LogError("%s: Error getting mountpoint for filesystem '%s' -- %s\n",
      prog, blockdev, STRERROR);
   return NULL;
 }
```

```
 inf->mntpath[sizeof(inf->mntpath) - 1] = 0;
 return strncpy(inf->mntpath, usage.f_mntonname, sizeof(inf->mntpath) - 1);

}


/**
* FreeBSD filesystem usage statistics. In the case of success result is stored in
* given information structure.
*
* @param inf Information structure where resulting data will be stored
* @return        TRUE if informations were succesfully read otherwise FALSE
*/
int filesystem_usage_sysdep(Info_T inf) {

 struct statfs usage;

 ASSERT(inf);

 if(statfs(inf->mntpath, &usage) != 0) {
   LogError("%s: Error getting usage statistics for filesystem '%s' -- %s\n",
      prog, inf->mntpath, STRERROR);
   return FALSE;
 }

 inf->f_bsize=           usage.f_bsize;
 inf->f_blocks=          usage.f_blocks;
 inf->f_blocksfree=      usage.f_bavail;
 inf->f_blocksfreetotal= usage.f_bfree;
 inf->f_files=           usage.f_files;
 inf->f_filesfree=       usage.f_ffree;
 inf->flags=             usage.f_flags;

 return TRUE;

}
/*
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*
```

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* including the two.
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* file(s) with this exception, you may extend this exception to your
* version of the file(s), but you are not obligated to do so.  If you
* do not wish to do so, delete this exception statement from your
* version.  If you delete this exception statement from all source
* files in the program, then also delete it here.
*/

/**
*  System dependent filesystem methods.
*
*  @author Martin Pala, <martinp@tildeslash.com>
*
*  @file
*/

#include <config.h>

#ifdef HAVE_STDIO_H
#include <stdio.h>
#endif

#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif

#ifdef HAVE_STRING_H
#include <string.h>
#endif

#ifdef HAVE_SYS_PARAM_H
#include <sys/param.h>
#endif

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
```

```
#ifdef HAVE_SYS_STATVFS_H
#include <sys/statvfs.h>
#endif

#include "monitor.h"
#include "device_sysdep.h"

/**
* NetBSD special block device mountpoint method. Filesystem must be mounted.
* In the case of success, mountpoint is stored in filesystem information
* structure for later use.
*
* @param inf  Information structure where resulting data will be stored
* @param blockdev Identifies block special device
* @return         NULL in the case of failure otherwise mountpoint
*/
char *device_mountpoint_sysdep(Info_T inf, char *blockdev) {

#if(__NetBSD_Version__ >= 300000000)
 struct statvfs usage;
#else
 struct statfs usage;
#endif

 ASSERT(inf);
 ASSERT(blockdev);

#if(__NetBSD_Version__ >= 300000000)
 if(statvfs(blockdev, &usage) != 0) {
#else
 if(statfs(blockdev, &usage) != 0) {
#endif
   LogError("%s: Error getting mountpoint for filesystem '%s' -- %s\n",
      prog, blockdev, STRERROR);
   return NULL;
 }

 inf->mntpath[sizeof(inf->mntpath) - 1] = 0;
 return strncpy(inf->mntpath, usage.f_mntonname, sizeof(inf->mntpath) - 1);

}


/**
* NetBSD filesystem usage statistics. In the case of success result is stored in
* given information structure.
*
* @param inf Information structure where resulting data will be stored
```

```
* @return        TRUE if informations were succesfully read otherwise FALSE
*/
int filesystem_usage_sysdep(Info_T inf) {

#if(__NetBSD_Version__ >= 300000000)
 struct statvfs usage;
#else
 struct statfs usage;
#endif

 ASSERT(inf);

#if(__NetBSD_Version__ >= 300000000)
 if(statvfs(inf->mntpath, &usage) != 0) {
#else
 if(statfs(inf->mntpath, &usage) != 0) {
#endif
   LogError("%s: Error getting usage statistics for filesystem '%s' -- %s\n",
       prog, inf->mntpath, STRERROR);
   return FALSE;
 }

 inf->f_bsize=           usage.f_bsize;
 inf->f_blocks=          usage.f_blocks;
 inf->f_blocksfree=      usage.f_bavail;
 inf->f_blocksfreetotal= usage.f_bfree;
 inf->f_files=           usage.f_files;
 inf->f_filesfree=       usage.f_ffree;
#if(__NetBSD_Version__ >= 300000000)
 inf->flags=             usage.f_flag;
#else
 inf->flags=             usage.f_flags;
#endif

 return TRUE;

}
/*
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*
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* MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the
* GNU General Public License for more details.
*
```

```
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* along with this program.  If not, see <http://www.gnu.org/licenses/>.
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* permission to link the code of portions of this program with the
* OpenSSL library under certain conditions as described in each
* individual source file, and distribute linked combinations
* including the two.
*
* You must obey the GNU General Public License in all respects
* for all of the code used other than OpenSSL.  If you modify
* file(s) with this exception, you may extend this exception to your
* version of the file(s), but you are not obligated to do so.  If you
* do not wish to do so, delete this exception statement from your
* version.  If you delete this exception statement from all source
* files in the program, then also delete it here.
*/

/**
*  System dependent filesystem methods.
*
*  @author Jan-Henrik Haukeland, <hauk@tildeslash.com>
*  @author Martin Pala, <martinp@tildeslash.com>
*
*  @file
*/

#include <config.h>

#ifdef HAVE_STDIO_H
#include <stdio.h>
#endif

#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif

#ifdef HAVE_STRING_H
#include <string.h>
#endif

#ifdef HAVE_SYS_PARAM_H
#include <sys/param.h>
#endif

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
```

```
#include "monitor.h"
#include "device_sysdep.h"

/**
* OpenBSD special block device mountpoint method. Filesystem must be mounted.
* In the case of success, mountpoint is stored in filesystem information
* structure for later use.
*
* @param inf  Information structure where resulting data will be stored
* @param blockdev Identifies block special device
* @return         NULL in the case of failure otherwise mountpoint
*/
char *device_mountpoint_sysdep(Info_T inf, char *blockdev) {

 struct statfs usage;

 ASSERT(inf);
 ASSERT(blockdev);

 if(statfs(blockdev, &usage) != 0) {
   LogError("%s: Error getting mountpoint for filesystem '%s' -- %s\n",
      prog, blockdev, STRERROR);
   return NULL;
 }

 inf->mntpath[sizeof(inf->mntpath) - 1] = 0;
 return strncpy(inf->mntpath, usage.f_mntonname, sizeof(inf->mntpath) - 1);

}


/**
* OpenBSD filesystem usage statistics. In the case of success result is stored in
* given information structure.
*
* @param inf Information structure where resulting data will be stored
* @return        TRUE if informations were succesfully read otherwise FALSE
*/
int filesystem_usage_sysdep(Info_T inf) {

 struct statfs usage;

 ASSERT(inf);

 if(statfs(inf->mntpath, &usage) != 0) {
   LogError("%s: Error getting usage statistics for filesystem '%s' -- %s\n",
      prog, inf->mntpath, STRERROR);
```

```
  return FALSE;
 }

 inf->f_bsize=           usage.f_bsize;
 inf->f_blocks=          usage.f_blocks;
 inf->f_blocksfree=      usage.f_bavail;
 inf->f_blocksfreetotal= usage.f_bfree;
 inf->f_files=           usage.f_files;
 inf->f_filesfree=       usage.f_ffree;
 inf->flags=             usage.f_flags;

 return TRUE;

}
/*
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*
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* permission to link the code of portions of this program with the
* OpenSSL library under certain conditions as described in each
* individual source file, and distribute linked combinations
* including the two.
*
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* version of the file(s), but you are not obligated to do so.  If you
* do not wish to do so, delete this exception statement from your
* version.  If you delete this exception statement from all source
* files in the program, then also delete it here.
*/


#include <config.h>

#ifdef HAVE_ERRNO_H
#include <errno.h>
```

```
#endif

#ifdef HAVE_STRING_H
#include <string.h>
#endif

#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef HAVE_KVM_H
#include <kvm.h>
#endif

#ifdef HAVE_PATHS_H
#include <paths.h>
#endif

#ifdef HAVE_SYS_PARAM_H
#include <sys/param.h>
#endif

#ifdef HAVE_SYS_PROC_H
#include <sys/proc.h>
#endif

#ifdef HAVE_SYS_USER_H
#include <sys/user.h>
#endif

#ifdef HAVE_SYS_VMMETER_H
#include <sys/vmmeter.h>
#endif

#ifdef HAVE_SYS_SYSCTL_H
#include <sys/sysctl.h>
#endif

#ifdef HAVE_SYS_DKSTAT_H
#include <sys/dkstat.h>
#endif

#include "monitor.h"
#include "process.h"
#include "process_sysdep.h"

/**
*  System dependent resource gathering code for FreeBSD.
```

```
*
*  @author Jan-Henrik Haukeland, <hauk@tildeslash.com>
*  @author Christian Hopp <chopp@iei.tu-clausthal.de>
*  @author Rory Toma <rory@digeo.com>
*  @author Martin Pala <martinp@tildeslash.com>
*
*  @file
*/


/* ------------------------------------------------------------------ Private */


static int  hz;
static int  pagesize_kbyte;
static long total_old    = 0;
static long cpu_user_old = 0;
static long cpu_syst_old = 0;


/* ------------------------------------------------------------------- Public */


int init_process_info_sysdep(void) {
 int              mib[2];
 size_t           len;
 struct clockinfo clock;

 mib[0] = CTL_KERN;
 mib[1] = KERN_CLOCKRATE;
 len    = sizeof(clock);
 if (sysctl(mib, 2, &clock, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get clock rate: %s\n", STRERROR);
  return FALSE;
 }
 hz     = clock.hz;

 mib[0] = CTL_HW;
 mib[1] = HW_NCPU;
 len    = sizeof(systeminfo.cpus);
 if (sysctl(mib, 2, &systeminfo.cpus, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get cpu count: %s\n", STRERROR);
  return FALSE;
 }

 mib[1] = HW_PHYSMEM;
 len    = sizeof(systeminfo.mem_kbyte_max);
 if (sysctl(mib, 2, &systeminfo.mem_kbyte_max, &len, NULL, 0) == -1) {
```

```
  DEBUG("system statistic error -- cannot get real memory amount: %s\n", STRERROR);
  return FALSE;
 }
 systeminfo.mem_kbyte_max /= 1024;

 mib[1] = HW_PAGESIZE;
 len    = sizeof(pagesize_kbyte);
 if (sysctl(mib, 2, &pagesize_kbyte, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get memory page size: %s\n", STRERROR);
  return FALSE;
 }
 pagesize_kbyte /= 1024;

 return TRUE;
}


/**
* Read all processes to initialize the information tree.
* @param reference  reference of ProcessTree
* @return treesize>0 if succeeded otherwise =0.
*/
int initprocesstree_sysdep(ProcessTree_T **reference) {
 int              i;
 int              treesize;
 static kvm_t     *kvm_handle;
 ProcessTree_T    *pt;
 struct kinfo_proc *pinfo;

 if (!(kvm_handle = kvm_open(NULL, _PATH_DEVNULL, NULL, O_RDONLY, prog))) {
  LogError("system statistic error -- cannot initialize kvm interface\n");
  return FALSE;
 }

 pinfo = kvm_getprocs(kvm_handle, KERN_PROC_ALL, 0, &treesize);
 if (!pinfo || (treesize < 1)) {
  LogError("system statistic error -- cannot get process tree\n");
  kvm_close(kvm_handle);
  return FALSE;
 }

 pt = xcalloc(sizeof(ProcessTree_T), treesize);

 for (i = 0; i < treesize; i++) {
  #if (__FreeBSD_version > 500000)
  pt[i].pid       = pinfo[i].ki_pid;
  pt[i].ppid      = pinfo[i].ki_ppid;
  pt[i].cputime   = (long)(pinfo[i].ki_runtime / 100000);
```

```
  pt[i].mem_kbyte = (unsigned long)(pinfo[i].ki_rssize * pagesize_kbyte);
  if (pinfo[i].ki_stat == SZOMB)
 #else
  pt[i].pid       = pinfo[i].kp_proc.p_pid;
  pt[i].ppid      = pinfo[i].kp_eproc.e_ppid;
  pt[i].cputime   = (long)(pinfo[i].kp_proc.p_runtime / 100000);
  pt[i].mem_kbyte = (unsigned long)(pinfo[i].kp_eproc.e_vm.vm_rssize * pagesize_kbyte);
  if (pinfo[i].kp_proc.p_stat == SZOMB)
 #endif
    pt[i].status_flag |= PROCESS_ZOMBIE;
  pt[i].cpu_percent = 0;
  pt[i].time = get_float_time();
 }

 *reference = pt;
 kvm_close(kvm_handle);

 return treesize;
}


/**
* This routine returns 'nelem' double precision floats containing
* the load averages in 'loadv'; at most 3 values will be returned.
* @param loadv destination of the load averages
* @param nelem number of averages
* @return: 0 if successful, -1 if failed (and all load averages are 0).
*/
int getloadavg_sysdep(double *loadv, int nelem) {
 return getloadavg(loadv, nelem);
}


/**
* This routine returns kbyte of real memory in use.
* @return: TRUE if successful, FALSE if failed (or not available)
*/
int used_system_memory_sysdep(SystemInfo_T *si) {
 int           mib[] = {CTL_VM, VM_METER};
 size_t        len   = sizeof(struct vmtotal);
 struct vmtotal vm;

 if (sysctl(mib, 2, &vm, &len, NULL, 0) == -1) {
  LogError("system statistic error -- cannot get real memory usage: %s\n", STRERROR);
  return FALSE;
 }

 si->total_mem_kbyte = (unsigned long)(vm.t_arm * pagesize_kbyte);
```

```
 return TRUE;
}


/**
* This routine returns system/user CPU time in use.
* @return: TRUE if successful, FALSE if failed
*/
int used_system_cpu_sysdep(SystemInfo_T *si) {
 int    i;
 int    mib[2];
 long   cp_time[CPUSTATES];
 long   total_new = 0;
 long   total;
 size_t len;

 len = sizeof(mib);
 if (sysctlnametomib("kern.cp_time", mib, &len) == -1) {
  LogError("system statistic error -- cannot get cpu time handler: %s\n", STRERROR);
  return FALSE;
 }

 len = sizeof(cp_time);
 if (sysctl(mib, 2, &cp_time, &len, NULL, 0) == -1) {
  LogError("system statistic error -- cannot get cpu time: %s\n", STRERROR);
  return FALSE;
 }

 for (i = 0; i < CPUSTATES; i++)
  total_new += cp_time[i];

 total     = total_new - total_old;
 total_old = total_new;

 si->total_cpu_user_percent = (total > 0) ? (int)(1000 * (double)(cp_time[CP_USER] - cpu_user_old) / total) : -10;
 si->total_cpu_syst_percent = (total > 0) ? (int)(1000 * (double)(cp_time[CP_SYS] - cpu_syst_old) / total) : -10;
 si->total_cpu_wait_percent = 0; /* there is no wait statistic available */

 cpu_user_old = cp_time[CP_USER];
 cpu_syst_old = cp_time[CP_SYS];

 return TRUE;
}
/*
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```

```
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* do not wish to do so, delete this exception statement from your
* version.  If you delete this exception statement from all source
* files in the program, then also delete it here.
*/


#include <config.h>

#ifdef HAVE_STRING_H
#include <string.h>
#endif

#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif

#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef HAVE_SYS_PARAM_H
#include <sys/param.h>
#endif

#ifdef HAVE_SYS_PROC_H
#include <sys/proc.h>
#endif

#ifdef HAVE_UVM_UVM_H
```

```
#include <uvm/uvm.h>
#endif

#ifdef HAVE_SYS_SYSCTL_H
#include <sys/sysctl.h>
#endif

#ifdef HAVE_SYS_DKSTAT_H
#include <sys/dkstat.h>
#endif

#include "monitor.h"
#include "process.h"
#include "process_sysdep.h"

/**
*  System dependent resource gathering code for NetBSD.
*
*  @author Margarida Sequeira <margarida@openbsd.org>
*  @author Jan-Henrik Haukeland, <hauk@tildeslash.com>
*  @author Christian Hopp <chopp@iei.tu-clausthal.de>
*  @author Rory Toma <rory@digeo.com>
*  @author Martin Pala <martinp@tildeslash.com>
*
*  @file
*/


/* ---------------------------------------------------------------------- Private */


static int      hz;
static int      pagesize_kbyte;
static long     total_old    = 0;
static long     cpu_user_old = 0;
static long     cpu_syst_old = 0;
static unsigned maxslp;


/* ---------------------------------------------------------------------- Public */


int init_process_info_sysdep(void) {
 int             mib[2];
 size_t          len;
 struct clockinfo clock;

 mib[0] = CTL_KERN;
```

```
 mib[1] = KERN_CLOCKRATE;
 len    = sizeof(clock);
 if (sysctl(mib, 2, &clock, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get clock rate: %s\n", STRERROR);
  return FALSE;
 }
 hz     = clock.hz;

 mib[0] = CTL_HW;

 mib[1] = HW_NCPU;
 len    = sizeof(systeminfo.cpus);
 if (sysctl(mib, 2, &systeminfo.cpus, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get cpu count: %s\n", STRERROR);
  return FALSE;
 }

 mib[1] = HW_PHYSMEM;
 len    = sizeof(systeminfo.mem_kbyte_max);
 if (sysctl(mib, 2, &systeminfo.mem_kbyte_max, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get real memory amount: %s\n", STRERROR);
  return FALSE;
 }
 systeminfo.mem_kbyte_max /= 1024;

 mib[1] = HW_PAGESIZE;
 len    = sizeof(pagesize_kbyte);
 if (sysctl(mib, 2, &pagesize_kbyte, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get memory page size: %s\n", STRERROR);
  return FALSE;
 }
 pagesize_kbyte /= 1024;

 return TRUE;
}


/**
* Read all processes to initialize the information tree.
* @param reference  reference of ProcessTree
* @return treesize>0 if succeeded otherwise =0.
*/
int initprocesstree_sysdep(ProcessTree_T ** reference) {
 int                 i;
 int                 treesize;
 size_t                size = sizeof(maxslp);
 int                 mib_proc2[6] = {CTL_KERN, KERN_PROC2, KERN_PROC_ALL, 0, sizeof(struct
kinfo_proc2), 0};
```

```
static int              mib_maxslp[] = {CTL_VM, VM_MAXSLP};
ProcessTree_T           *pt;
static struct kinfo_proc2 *pinfo;

if (sysctl(mib_maxslp, 2, &maxslp, &size, NULL, 0) < 0) {
  LogError("system statistic error -- vm.maxslp failed");
  return FALSE;
}

if (sysctl(mib_proc2, 6, NULL, &size, NULL, 0) == -1) {
  LogError("system statistic error -- kern.proc2 #1 failed");
  return FALSE;
}

size *= 2; // Add reserve for new processes which were created between calls of sysctl
pinfo = xcalloc(1, size);
mib_proc2[5] = (int)(size / sizeof(struct kinfo_proc2));
if (sysctl(mib_proc2, 6, pinfo, &size, NULL, 0) == -1) {
  FREE(pinfo);
  LogError("system statistic error -- kern.proc2 #2 failed");
  return FALSE;
}

treesize = (int)(size / sizeof(struct kinfo_proc2));

pt = xcalloc(sizeof(ProcessTree_T), treesize);

for (i = 0; i < treesize; i++) {
  pt[i].pid         = pinfo[i].p_pid;
  pt[i].ppid        = pinfo[i].p_ppid;
  pt[i].cputime     = (long)((pinfo[i].p_rtime_sec * 10) + (pinfo[i].p_rtime_usec / 100000));
  pt[i].cpu_percent = 0;
  pt[i].mem_kbyte   = (unsigned long)(pinfo[i].p_vm_rssize * pagesize_kbyte);
  if (pinfo[i].p_stat == SZOMB)
    pt[i].status_flag |= PROCESS_ZOMBIE;
  pt[i].time = get_float_time();
}
FREE(pinfo);

*reference = pt;

return treesize;
}


/**
* This routine returns 'nelem' double precision floats containing
* the load averages in 'loadv'; at most 3 values will be returned.
```

```
* @param loadv destination of the load averages
* @param nelem number of averages
* @return: 0 if successful, -1 if failed (and all load averages are 0).
*/
int getloadavg_sysdep (double *loadv, int nelem) {
 return getloadavg(loadv, nelem);
}


/**
* This routine returns kbyte of real memory in use.
* @return: TRUE if successful, FALSE if failed (or not available)
*/
int used_system_memory_sysdep(SystemInfo_T *si) {
 int           mib[] = {CTL_VM, VM_METER};
 size_t        len   = sizeof(struct vmtotal);
 struct vmtotal vm;

 if (sysctl(mib, 2, &vm, &len, NULL, 0) == -1) {
  LogError("system statistic error -- cannot get real memory usage: %s\n", STRERROR);
  return FALSE;
 }

 si->total_mem_kbyte = (unsigned long)(vm.t_arm * pagesize_kbyte);
 return TRUE;
}


/**
* This routine returns system/user CPU time in use.
* @return: TRUE if successful, FALSE if failed
*/
int used_system_cpu_sysdep(SystemInfo_T *si) {
 int       i;
 int       mib[] = {CTL_KERN, KERN_CP_TIME};
 long long cp_time[CPUSTATES];
 long      total_new = 0;
 long      total;
 size_t    len;

 len = sizeof(cp_time);
 if (sysctl(mib, 2, &cp_time, &len, NULL, 0) == -1) {
  LogError("system statistic error -- cannot get cpu time: %s\n", STRERROR);
  return FALSE;
 }

 for (i = 0; i < CPUSTATES; i++)
  total_new += cp_time[i];
```

```
 total     = total_new - total_old;
 total_old = total_new;

 si->total_cpu_user_percent = (total > 0)?(int)(1000 * (double)(cp_time[CP_USER] - cpu_user_old) / total):-10;
 si->total_cpu_syst_percent = (total > 0)?(int)(1000 * (double)(cp_time[CP_SYS] - cpu_syst_old) / total):-10;
 si->total_cpu_wait_percent = 0; /* there is no wait statistic available */

 cpu_user_old = cp_time[CP_USER];
 cpu_syst_old = cp_time[CP_SYS];

 return TRUE;
}
/*
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* files in the program, then also delete it here.
*/


#include <config.h>

#ifdef HAVE_STRING_H
#include <string.h>
#endif
```

```
#ifdef HAVE_ERRNO_H
#include <errno.h>
#endif

#ifdef HAVE_FCNTL_H
#include <fcntl.h>
#endif

#ifdef HAVE_SYS_PARAM_H
#include <sys/param.h>
#endif

#ifdef HAVE_SYS_PROC_H
#include <sys/proc.h>
#endif

#ifdef HAVE_UVM_UVM_H
#include <uvm/uvm.h>
#endif

#ifdef HAVE_SYS_SYSCTL_H
#include <sys/sysctl.h>
#endif

#ifdef HAVE_SYS_DKSTAT_H
#include <sys/dkstat.h>
#endif

#include "monitor.h"
#include "process.h"
#include "process_sysdep.h"

/**
*  System dependent resource gathering code for OpenBSD.
*
*  @author Margarida Sequeira <margarida@openbsd.org>
*  @author Jan-Henrik Haukeland, <hauk@tildeslash.com>
*  @author Christian Hopp <chopp@iei.tu-clausthal.de>
*  @author Rory Toma <rory@digeo.com>
*  @author Martin Pala <martinp@tildeslash.com>
*
*  @file
*/


/* ------------------------------------------------------------------ Private */
```

```
static int      hz;
static int      pagesize_kbyte;
static long     total_old    = 0;
static long     cpu_user_old = 0;
static long     cpu_syst_old = 0;
static unsigned maxslp;



/* ------------------------------------------------------------------ Public */


int init_process_info_sysdep(void) {
 int              mib[2];
 size_t           len;
 struct clockinfo clock;

 mib[0] = CTL_KERN;
 mib[1] = KERN_CLOCKRATE;
 len    = sizeof(clock);
 if (sysctl(mib, 2, &clock, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get clock rate: %s\n", STRERROR);
  return FALSE;
 }
 hz     = clock.hz;

 mib[0] = CTL_HW;
 mib[1] = HW_NCPU;
 len    = sizeof(systeminfo.cpus);
 if (sysctl(mib, 2, &systeminfo.cpus, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get cpu count: %s\n", STRERROR);
  return FALSE;
 }

 mib[1] = HW_PHYSMEM;
 len    = sizeof(systeminfo.mem_kbyte_max);
 if (sysctl(mib, 2, &systeminfo.mem_kbyte_max, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get real memory amount: %s\n", STRERROR);
  return FALSE;
 }
 systeminfo.mem_kbyte_max /= 1024;

 mib[1] = HW_PAGESIZE;
 len    = sizeof(pagesize_kbyte);
 if (sysctl(mib, 2, &pagesize_kbyte, &len, NULL, 0) == -1) {
  DEBUG("system statistic error -- cannot get memory page size: %s\n", STRERROR);
  return FALSE;
 }
```

```
 pagesize_kbyte /= 1024;

 return TRUE;
}


/**
* Read all processes to initialize the information tree.
* @param reference  reference of ProcessTree
* @return treesize > 0 if succeeded otherwise = 0.
*/
int initprocesstree_sysdep(ProcessTree_T **reference) {
 int                 i;
 int                 treesize;
 size_t                size = sizeof(maxslp);
 int                 mib_proc2[6] = {CTL_KERN, KERN_PROC2, KERN_PROC_KTHREAD, 0, sizeof(struct
kinfo_proc2), 0};
 static int             mib_maxslp[] = {CTL_VM, VM_MAXSLP};
 ProcessTree_T          *pt;
 static struct kinfo_proc2 *pinfo;

 if (sysctl(mib_maxslp, 2, &maxslp, &size, NULL, 0) < 0) {
  LogError("system statistic error -- vm.maxslp failed");
  return FALSE;
 }

 if (sysctl(mib_proc2, 6, NULL, &size, NULL, 0) == -1) {
  LogError("system statistic error -- kern.proc2 #1 failed");
  return FALSE;
 }

 size *= 2; // Add reserve for new processes which were created between calls of sysctl
 pinfo = xcalloc(1, size);
 mib_proc2[5] = (int)(size / sizeof(struct kinfo_proc2));
 if (sysctl(mib_proc2, 6, pinfo, &size, NULL, 0) == -1) {
  FREE(pinfo);
  LogError("system statistic error -- kern.proc2 #2 failed");
  return FALSE;
 }

 treesize = (int)(size / sizeof(struct kinfo_proc2));

 pt = xcalloc(sizeof(ProcessTree_T), treesize);

 for (i = 0; i < treesize; i++) {
  pt[i].pid         = pinfo[i].p_pid;
  pt[i].ppid        = pinfo[i].p_ppid;
  pt[i].cputime     = (long)((pinfo[i].p_rtime_sec * 10) + (pinfo[i].p_rtime_usec / 100000));
```

```
  pt[i].cpu_percent = 0;
  pt[i].mem_kbyte   = (unsigned long)(pinfo[i].p_vm_rssize * pagesize_kbyte);
  if (pinfo[i].p_stat == SZOMB)
    pt[i].status_flag |= PROCESS_ZOMBIE;
  pt[i].time = get_float_time();
 }
 FREE(pinfo);

 *reference = pt;

 return treesize;
}


/**
* This routine returns 'nelem' double precision floats containing
* the load averages in 'loadv'; at most 3 values will be returned.
* @param loadv destination of the load averages
* @param nelem number of averages
* @return: 0 if successful, -1 if failed (and all load averages are 0).
*/
int getloadavg_sysdep (double *loadv, int nelem) {
 return getloadavg(loadv, nelem);
}


/**
* This routine returns kbyte of real memory in use.
* @return: TRUE if successful, FALSE if failed (or not available)
*/
int used_system_memory_sysdep(SystemInfo_T *si) {
 int           mib[] = {CTL_VM, VM_METER};
 size_t        len   = sizeof(struct vmtotal);
 struct vmtotal vm;

 if (sysctl(mib, 2, &vm, &len, NULL, 0) == -1) {
  LogError("system statistic error -- cannot get real memory usage: %s\n", STRERROR);
  return FALSE;
 }

 si->total_mem_kbyte = (unsigned long)(vm.t_arm * pagesize_kbyte);
 return TRUE;
}


/**
* This routine returns system/user CPU time in use.
* @return: TRUE if successful, FALSE if failed
```

```
*/
int used_system_cpu_sysdep(SystemInfo_T *si) {
 int    i;
 int    mib[] = {CTL_KERN, KERN_CPTIME};
 long   cp_time[CPUSTATES];
 long   total_new = 0;
 long   total;
 size_t len;

 len = sizeof(cp_time);
 if (sysctl(mib, 2, &cp_time, &len, NULL, 0) == -1) {
  LogError("system statistic error -- cannot get cpu time: %s\n", STRERROR);
  return FALSE;
 }

 for (i = 0; i < CPUSTATES; i++)
  total_new += cp_time[i];
 total     = total_new - total_old;
 total_old = total_new;

 si->total_cpu_user_percent = (total > 0)?(int)(1000 * (double)(cp_time[CP_USER] - cpu_user_old) / total):-10;
 si->total_cpu_syst_percent = (total > 0)?(int)(1000 * (double)(cp_time[CP_SYS] - cpu_syst_old) / total):-10;
 si->total_cpu_wait_percent = 0; /* there is no wait statistic available */

 cpu_user_old = cp_time[CP_USER];
 cpu_syst_old = cp_time[CP_SYS];

 return TRUE;
}
```

1.130 mysql 5.1.66 :2.el6_3

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version 1.2.3, July 18th, 2005

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

```
*/
```

1.131 ncurses 5.7 :3.20090208.el6

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```

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Originally written by Per Bothner <per@bothner.com>.
Please send patches to <config-patches@gnu.org>. Submit a context
diff and a properly formatted ChangeLog entry.
#
This script attempts to guess a canonical system name similar to
config.sub. If it succeeds, it prints the system name on stdout, and
exits with 0. Otherwise, it exits with 1.
#
The plan is that this can be called by configure scripts if you
don't specify an explicit build system type.

1.132 net-snmp 5.5 :49.el6

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The reason we have a separate public license for some libraries is that
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derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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(For example, a function in a library to compute square roots has

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That's all there is to it!

1.135 newt-python 0.52.11 :3.el6

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1.136 nspr 4.9.2 :1.el6

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The data format used by the zlib library is described by RFCs (Request for
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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Whether this is true is especially significant if the work can be
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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
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work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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3. [3]Bernd Altmeier <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices
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45. [49]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo
46. [50]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
47. [51]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
48. [52]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
49. [53]Michael Shields <shields@tembel.org> USNO clock driver
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51. [55]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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1.143 openldap 2.4.23 :31.el6

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1.145 openssl 1.0.1e :30.el6

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1.146 openssl-1.0.1e-48.el6_8.1 1.0.1e-48 :el6_8.1

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1.150 pciutils 3.1.10 :2.el6

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1.151 pcre 7.8 :6.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.153 perl 5.10.1 :129.el6

1.153.1 Available under license :

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.154 perl-HTML-Parser 3.64 :2.el6

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1.155 perl-HTML-Tagset 3.20 :4.el6

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1.156 perl-JSON 2.15 :5.el6

1.156.1 Available under license :

From RPM File Metadata:GPL+ or Artistic

1.157 perl-libs 5.10.1 :141.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.158 perl-libs 5.10.1 :129.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.159 perl-libwww-perl 5.833 :2.el6

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1.160 perl-Module-Pluggable 3.9 :129.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.161 perl-Module-Pluggable 3.90 :141.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.162 perl-Pod-Simple 3.13 :141.el6

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.163 perl-Pod-Simple 3.13 :129.el6

1.163.1 Available under license :

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

1.164 perl-Time-HiRes 1.9721 :141.el6

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

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1.165 perl-URI 1.40 :2.el6

1.165.1 Available under license :

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form

under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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Most GNU software, including some libraries, is covered by the ordinary

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, 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 library.

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, 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 Library, 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 Library.

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

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. 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

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It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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1.169 plymouth 0.8.3 :27.el6.centos

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1.170 policycoreutils 2.0.83 :19.30.el6

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1.172 postfix 2.6.6 :2.2.el6_1

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Included for the use of the fix_strcasecmp.c module which works
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1.173 procps 3.2.8 :25.el6

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the

Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. 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.

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use both them and the Library together in an executable that you distribute.

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1.174 procps-libs 3.2.8 :25.el6

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, 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 Library, 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.

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not

compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be 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.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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1.178 python 2.6.6 :37.el6_4

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes

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A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
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2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes

2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
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We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, 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 library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, 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) The modified work must itself be a software library.

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

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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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 Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you 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.

If distribution of 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 satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be

linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is

interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
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which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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7. You may place library facilities that are a work based on the
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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

0. Definitions.

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

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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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1. Source Code.

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.

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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.

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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
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clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
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A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
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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
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<signature of Ty Coon>, 1 April 1990
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That's all there is to it!

1.185 rpm_lib 4.8.0 :32.el6

1.185.1 Available under license :

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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 Library.

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a

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b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. 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.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally

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1.188 selinux-policy 3.7.19 :195.el6

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1.189 shadow-utils 4.1.4.2 :13.el6

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1.190 shadow-utils_GPLv2 4.1.4.2 :13.el6

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```
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```
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1.193 SPL 0.6.5 :4

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1.199 tcp_wrappers 7.6 :57.el6

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iQCVAwUBOxo3X9yA8qbVMny5AQHT8wP9FZOtWxEM4SMj4Sj9QezMERz31n5fd0pC
jUDnyzmosOudM/iFlv6YfyR820aNvNNI+AdtgWYRPVHocVNOrZcmu7IADO8hlU//
v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfEbLDQWhi1JiXC
0JsaB8crR3M=
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1.200 tcpdump 4.0.0 :3.20090921gitdf3cb4.2.el6

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1.201 td-agent 2.3.2

1.202 telnet 0.17 :47.el6_3.1

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.\"
.Dd May 22, 1994
.Dt ISSUE.NET 5
.Os "Linux NetKit (0.17)"
.Sh NAME
.Nm issue.net
.Nd identification file for telnet sessions
.Sh DESCRIPTION
The file
.Pa /etc/issue.net
is a text file which contains a message or system identification to be
printed before the login prompt of a telnet session. It may contain
various '%-char' sequences. The following sequences are supported by
.Ic telnetd :
.Bl -tag -offset indent -compact -width "abcde"
.It %t
- show the current tty

.It %h
- show the system node name (FQDN)
.It %D
- show the name of the NIS domain
.It %d
- show the current time and date
.It %s
- show the name of the operating system
.It %m
- show the machine (hardware) type
.It %r
- show the operating system release
.It %v
- show the operating system version
.It %%
- display a single '%' character
.El
.Sh FILES
.Pa /etc/issue.net
.Sh "SEE ALSO"
.Xr telnetd 8
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* $OpenBSD: auth-proto.h,v 1.3 1998/03/12 04:48:43 art Exp $
* $NetBSD: auth-proto.h,v 1.5 1996/02/24 01:15:16 jtk Exp $
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#include <sys/cdefs.h>

#if defined(AUTHENTICATION)
Authenticator *findauthenticator __P((int, int));

void auth_init __P((char *, int));
```

```
int auth_cmd __P((int, char **));
void auth_request __P((void));
void auth_send __P((unsigned char *, int));
void auth_send_retry __P((void));
void auth_is __P((unsigned char *, int));
void auth_reply __P((unsigned char *, int));
void auth_finished __P((Authenticator *, int));
int auth_wait __P((char *));
void auth_disable_name __P((char *));
void auth_gen_printsub __P((unsigned char *, int, unsigned char *, int));

int getauthmask __P((char *, int *));
int auth_enable __P((char *));
int auth_disable __P((char *));
int auth_onoff __P((char *, int));
int auth_togdebug __P((int));
int auth_status __P((void));
void auth_name __P((unsigned char *, int));
int auth_sendname __P((unsigned char *, int));
void auth_debug __P((int));
void auth_printsub __P((unsigned char *, int, unsigned char *, int));

#ifdef KRB4
int kerberos4_init __P((Authenticator *, int));
int kerberos4_forward __P((Authenticator *));
int kerberos4_send_oneway __P((Authenticator *));
int kerberos4_send_mutual __P((Authenticator *));
void kerberos4_is __P((Authenticator *, unsigned char *, int));
void kerberos4_reply __P((Authenticator *, unsigned char *, int));
int kerberos4_status __P((Authenticator *, char *, int));
void kerberos4_printsub __P((unsigned char *, int, unsigned char *, int));
#endif

#ifdef KRB5
int kerberos5_init __P((Authenticator *, int));
int kerberos5_send_mutual __P((Authenticator *));
int kerberos5_send_oneway __P((Authenticator *));
void kerberos5_is __P((Authenticator *, unsigned char *, int));
void kerberos5_reply __P((Authenticator *, unsigned char *, int));
int kerberos5_status __P((Authenticator *, char *, int));
void kerberos5_printsub __P((unsigned char *, int, unsigned char *, int));
#endif
#endif
//
//  File:        array.h
//  Date:        16-Jul-95
// Description: array template
//
```

```
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* SUCH DAMAGE.
*/

#ifndef ARRAY_H
#define ARRAY_H

#ifndef assert
#include <assert.h>
#endif

#ifndef NULL
#define NULL 0
#endif

inline void *operator new(size_t, void *v) { return v; }

template <class T>
class array {
 protected:
   T *v;
   int n, max;
```

```
  void reallocto(int newsize) {
    while (max<newsize) max += 16;
    char *x = new char[max*sizeof(T)];
    memcpy(x,v,n*sizeof(T));
    delete [](char *)v);
    v = (T *) x;
  }
public:
  array() { v=NULL; n=max=0; }
  ~array() { setsize(0); delete [](char *)v); }

  int num() const { return n; }

  void setsize(int newsize) {
    if (newsize>max) reallocto(newsize);
    if (newsize>n) {
// call default constructors
for (int i=n; i<newsize; i++) (void) new(&v[i]) T;
    }
    else {
// call destructors
for (int i=newsize; i<n; i++) v[i].~T();
    }
    n = newsize;
  }

  T &operator [] (int ix) const {
    assert(ix>=0 && ix<n);
    return v[ix];
  }

  int add(const T &val) {
    int ix = n;
    setsize(n+1);
    v[ix] = val;
    return ix;
  }

  void push(const T &val) { add(val); }

  T pop() { T t = (*this)[n-1]; setsize(n-1); return t; }
};

#endif
```

1.203 tzdata 2012j :1.el6

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#
JDK 1.1.x compatible time zone IDs
#

Link Australia/Darwin ACT
Link Australia/Sydney AET

```
Link America/Argentina/Buenos_Aires AGT
Link Africa/Cairo ART
Link America/Anchorage AST
Link America/Sao_Paulo BET
Link Asia/Dhaka BST
Link Africa/Harare CAT
Link America/St_Johns CNT
Link America/Chicago CST
Link Asia/Shanghai CTT
Link Africa/Addis_Ababa EAT
Link Europe/Paris ECT
Link America/New_York EST
Link Pacific/Honolulu HST
Link America/Indianapolis IET
Link Asia/Calcutta IST
Link Asia/Tokyo JST
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Link Asia/Karachi PLT
Link America/Phoenix PNT
Link America/Puerto_Rico PRT
Link America/Los_Angeles PST
Link Pacific/Guadalcanal SST
Link Asia/Saigon VST

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule SystemV min 1973 - Apr lastSun 2:00 1:00 D
Rule SystemV min 1973 - Oct lastSun 2:00 0 S
Rule SystemV 1974 only - Jan 6 2:00 1:00 D
Rule SystemV 1974 only - Nov lastSun 2:00 0 S
Rule SystemV 1975 only - Feb 23 2:00 1:00 D
Rule SystemV 1975 only - Oct lastSun 2:00 0 S
Rule SystemV 1976 max - Apr lastSun 2:00 1:00 D
Rule SystemV 1976 max - Oct lastSun 2:00 0 S

# Zone NAME  GMTOFF RULES/SAVE FORMAT [UNTIL]
Zone SystemV/AST4ADT -4:00 SystemV  A%sT
Zone SystemV/EST5EDT -5:00 SystemV  E%sT
Zone SystemV/CST6CDT -6:00 SystemV  C%sT
Zone SystemV/MST7MDT -7:00 SystemV  M%sT
Zone SystemV/PST8PDT -8:00 SystemV  P%sT
Zone SystemV/YST9YDT -9:00 SystemV  Y%sT
Zone SystemV/AST4 -4:00 -  AST
Zone SystemV/EST5 -5:00 -  EST
Zone SystemV/CST6 -6:00 -  CST
Zone SystemV/MST7 -7:00 -  MST
```

```
Zone SystemV/PST8 -8:00 -  PST
Zone SystemV/YST9 -9:00 -  YST
Zone SystemV/HST10 -10:00 -  HST
# <pre>
# This file is in the public domain, so clarified as of
# 2009-05-17 by Arthur David Olson.

# This data is by no means authoritative; if you think you know better,
# go ahead and edit the file (and please send any changes to
# tz@iana.org for general use in the future).

# From Paul Eggert (2006-03-22):
#
# A good source for time zone historical data outside the U.S. is
# Thomas G. Shanks and Rique Pottenger, The International Atlas (6th edition),
# San Diego: ACS Publications, Inc. (2003).
#
# Gwillim Law writes that a good source
# for recent time zone data is the International Air Transport
# Association's Standard Schedules Information Manual (IATA SSIM),
# published semiannually.  Law sent in several helpful summaries
# of the IATA's data after 1990.
#
# Except where otherwise noted, Shanks & Pottenger is the source for
# entries through 1990, and IATA SSIM is the source for entries afterwards.
#
# Another source occasionally used is Edward W. Whitman, World Time Differences,
# Whitman Publishing Co, 2 Niagara Av, Ealing, London (undated), which
# I found in the UCLA library.
#
# A reliable and entertaining source about time zones is
# Derek Howse, Greenwich time and longitude, Philip Wilson Publishers (1997).
#
# Previous editions of this database used WAT, CAT, SAT, and EAT
# for +0:00 through +3:00, respectively,
# but Mark R V Murray reports that
# 'SAST' is the official abbreviation for +2:00 in the country of South Africa,
# 'CAT' is commonly used for +2:00 in countries north of South Africa, and
# 'WAT' is probably the best name for +1:00, as the common phrase for
# the area that includes Nigeria is "West Africa".
# He has heard of "Western Sahara Time" for +0:00 but can find no reference.
#
# To make things confusing, 'WAT' seems to have been used for -1:00 long ago;
# I'd guess that this was because people needed _some_ name for -1:00,
# and at the time, far west Africa was the only major land area in -1:00.
# This usage is now obsolete, as the last use of -1:00 on the African
# mainland seems to have been 1976 in Western Sahara.
#
```

```
# To summarize, the following abbreviations seem to have some currency:
# -1:00 WAT West Africa Time (no longer used)
#  0:00 GMT Greenwich Mean Time
#  2:00 CAT Central Africa Time
#  2:00 SAST South Africa Standard Time
# and Murray suggests the following abbreviation:
#  1:00 WAT West Africa Time
# I realize that this leads to 'WAT' being used for both -1:00 and 1:00
# for times before 1976, but this is the best I can think of
# until we get more information.
#
# I invented the following abbreviations; corrections are welcome!
#  2:00 WAST West Africa Summer Time
#  2:30 BEAT British East Africa Time (no longer used)
#  2:45 BEAUT British East Africa Unified Time (no longer used)
#  3:00 CAST Central Africa Summer Time (no longer used)
#  3:00 SAST South Africa Summer Time (no longer used)
#  3:00 EAT East Africa Time
#  4:00 EAST East Africa Summer Time (no longer used)

# Algeria
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Algeria 1916 only - Jun 14 23:00s 1:00 S
Rule Algeria 1916 1919 - Oct Sun>=1 23:00s 0 -
Rule Algeria 1917 only - Mar 24 23:00s 1:00 S
Rule Algeria 1918 only - Mar  9 23:00s 1:00 S
Rule Algeria 1919 only - Mar  1 23:00s 1:00 S
Rule Algeria 1920 only - Feb 14 23:00s 1:00 S
Rule Algeria 1920 only - Oct 23 23:00s 0 -
Rule Algeria 1921 only - Mar 14 23:00s 1:00 S
Rule Algeria 1921 only - Jun 21 23:00s 0 -
Rule Algeria 1939 only - Sep 11 23:00s 1:00 S
Rule Algeria 1939 only - Nov 19  1:00 0 -
Rule Algeria 1944 1945 - Apr Mon>=1  2:00 1:00 S
Rule Algeria 1944 only - Oct  8  2:00 0 -
Rule Algeria 1945 only - Sep 16  1:00 0 -
Rule Algeria 1971 only - Apr 25 23:00s 1:00 S
Rule Algeria 1971 only - Sep 26 23:00s 0 -
Rule Algeria 1977 only - May  6  0:00 1:00 S
Rule Algeria 1977 only - Oct 21  0:00 0 -
Rule Algeria 1978 only - Mar 24  1:00 1:00 S
Rule Algeria 1978 only - Sep 22  3:00 0 -
Rule Algeria 1980 only - Apr 25  0:00 1:00 S
Rule Algeria 1980 only - Oct 31  2:00 0 -
# Shanks & Pottenger give 0:09:20 for Paris Mean Time; go with Howse's
# more precise 0:09:21.
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Algiers 0:12:12 - LMT 1891 Mar 15 0:01
```

```
  0:09:21 - PMT 1911 Mar 11    # Paris Mean Time
  0:00 Algeria WE%sT 1940 Feb 25 2:00
  1:00 Algeria CE%sT 1946 Oct  7
  0:00 - WET 1956 Jan 29
  1:00 - CET 1963 Apr 14
  0:00 Algeria WE%sT 1977 Oct 21
  1:00 Algeria CE%sT 1979 Oct 26
  0:00 Algeria WE%sT 1981 May
  1:00 - CET

# Angola
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Luanda 0:52:56 - LMT 1892
  0:52:04 - AOT 1911 May 26 # Angola Time
  1:00 - WAT

# Benin
# Whitman says they switched to 1:00 in 1946, not 1934;
# go with Shanks & Pottenger.
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Porto-Novo 0:10:28 - LMT 1912
  0:00 - GMT 1934 Feb 26
  1:00 - WAT

# Botswana
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Gaborone 1:43:40 - LMT 1885
  2:00 - CAT 1943 Sep 19 2:00
  2:00 1:00 CAST 1944 Mar 19 2:00
  2:00 - CAT

# Burkina Faso
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Ouagadougou -0:06:04 - LMT 1912
   0:00 - GMT

# Burundi
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Bujumbura 1:57:28 - LMT 1890
  2:00 - CAT

# Cameroon
# Whitman says they switched to 1:00 in 1920; go with Shanks & Pottenger.
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Douala 0:38:48 - LMT 1912
  1:00 - WAT

# Cape Verde
```

```
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Atlantic/Cape_Verde -1:34:04 - LMT 1907   # Praia
  -2:00 - CVT 1942 Sep
  -2:00 1:00 CVST 1945 Oct 15
  -2:00 - CVT 1975 Nov 25 2:00
  -1:00 - CVT

# Central African Republic
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Bangui 1:14:20 - LMT 1912
  1:00 - WAT

# Chad
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Ndjamena 1:00:12 - LMT 1912
  1:00 - WAT 1979 Oct 14
  1:00 1:00 WAST 1980 Mar  8
  1:00 - WAT

# Comoros
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Comoro 2:53:04 - LMT 1911 Jul   # Moroni, Gran Comoro
  3:00 - EAT

# Democratic Republic of Congo
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Kinshasa 1:01:12 - LMT 1897 Nov 9
  1:00 - WAT
Zone Africa/Lubumbashi 1:49:52 - LMT 1897 Nov 9
  2:00 - CAT

# Republic of the Congo
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Brazzaville 1:01:08 - LMT 1912
  1:00 - WAT

# Cote D'Ivoire
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Abidjan -0:16:08 - LMT 1912
   0:00 - GMT

# Djibouti
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Djibouti 2:52:36 - LMT 1911 Jul
  3:00 - EAT

##############################################################################
```

```
# Egypt

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Egypt 1940 only - Jul 15 0:00 1:00 S
Rule Egypt 1940 only - Oct  1 0:00 0 -
Rule Egypt 1941 only - Apr 15 0:00 1:00 S
Rule Egypt 1941 only - Sep 16 0:00 0 -
Rule Egypt 1942 1944 - Apr  1 0:00 1:00 S
Rule Egypt 1942 only - Oct 27 0:00 0 -
Rule Egypt 1943 1945 - Nov  1 0:00 0 -
Rule Egypt 1945 only - Apr 16 0:00 1:00 S
Rule Egypt 1957 only - May 10 0:00 1:00 S
Rule Egypt 1957 1958 - Oct  1 0:00 0 -
Rule Egypt 1958 only - May  1 0:00 1:00 S
Rule Egypt 1959 1981 - May  1 1:00 1:00 S
Rule Egypt 1959 1965 - Sep 30 3:00 0 -
Rule Egypt 1966 1994 - Oct  1 3:00 0 -
Rule Egypt 1982 only - Jul 25 1:00 1:00 S
Rule Egypt 1983 only - Jul 12 1:00 1:00 S
Rule Egypt 1984 1988 - May  1 1:00 1:00 S
Rule Egypt 1989 only - May  6 1:00 1:00 S
Rule Egypt 1990 1994 - May  1 1:00 1:00 S
# IATA (after 1990) says transitions are at 0:00.
# Go with IATA starting in 1995, except correct 1995 entry from 09-30 to 09-29.

# From Alexander Krivenyshev (2011-04-20):
# "...Egypt's interim cabinet decided on Wednesday to cancel daylight
# saving time after a poll posted on its website showed the majority of
# Egyptians would approve the cancellation."
#
# Egypt to cancel daylight saving time
# <a href="http://www.almasryalyoum.com/en/node/407168">
# http://www.almasryalyoum.com/en/node/407168
# </a>
# or
# <a href="http://www.worldtimezone.com/dst_news/dst_news_egypt04.html">
# http://www.worldtimezone.com/dst_news/dst_news_egypt04.html
# </a>
Rule Egypt 1995 2010 - Apr lastFri  0:00s 1:00 S
Rule Egypt 1995 2005 - Sep lastThu 23:00s 0 -
# From Steffen Thorsen (2006-09-19):
# The Egyptian Gazette, issue 41,090 (2006-09-18), page 1, reports:
# Egypt will turn back clocks by one hour at the midnight of Thursday
# after observing the daylight saving time since May.
# http://news.gom.com.eg/gazette/pdf/2006/09/18/01.pdf
Rule Egypt 2006 only - Sep 21 23:00s 0 -
# From Dirk Losch (2007-08-14):
# I received a mail from an airline which says that the daylight
```

```
# saving time in Egypt will end in the night of 2007-09-06 to 2007-09-07.
# From Jesper Norgaard Welen (2007-08-15): [The following agree:]
# http://www.nentjes.info/Bill/bill5.htm
# http://www.timeanddate.com/worldclock/city.html?n=53
# From Steffen Thorsen (2007-09-04): The official information...:
# http://www.sis.gov.eg/En/EgyptOnline/Miscellaneous/000002/0207000000000000001580.htm
Rule Egypt 2007 only - Sep Thu>=1 23:00s 0 -
# From Abdelrahman Hassan (2007-09-06):
# Due to the Hijri (lunar Islamic calendar) year being 11 days shorter
# than the year of the Gregorian calendar, Ramadan shifts earlier each
# year. This year it will be observed September 13 (September is quite
# hot in Egypt), and the idea is to make fasting easier for workers by
# shifting business hours one hour out of daytime heat. Consequently,
# unless discontinued, next DST may end Thursday 28 August 2008.
# From Paul Eggert (2007-08-17):
# For lack of better info, assume the new rule is last Thursday in August.

# From Petr Machata (2009-04-06):
# The following appeared in Red Hat bugzilla[1] (edited):
#
# > $ zdump -v /usr/share/zoneinfo/Africa/Cairo | grep 2009
# > /usr/share/zoneinfo/Africa/Cairo  Thu Apr 23 21:59:59 2009 UTC = Thu =
# Apr 23
# > 23:59:59 2009 EET isdst=0 gmtoff=7200
# > /usr/share/zoneinfo/Africa/Cairo  Thu Apr 23 22:00:00 2009 UTC = Fri =
# Apr 24
# > 01:00:00 2009 EEST isdst=1 gmtoff=10800
# > /usr/share/zoneinfo/Africa/Cairo  Thu Aug 27 20:59:59 2009 UTC = Thu =
# Aug 27
# > 23:59:59 2009 EEST isdst=1 gmtoff=10800
# > /usr/share/zoneinfo/Africa/Cairo  Thu Aug 27 21:00:00 2009 UTC = Thu =
# Aug 27
# > 23:00:00 2009 EET isdst=0 gmtoff=7200
#
# > end date should be Thu Sep 24 2009 (Last Thursday in September at 23:59=
# :59)
# > http://support.microsoft.com/kb/958729/
#
# timeanddate[2] and another site I've found[3] also support that.
#
# [1] <a href="https://bugzilla.redhat.com/show_bug.cgi?id=492263">
# https://bugzilla.redhat.com/show_bug.cgi?id=492263
# </a>
# [2] <a href="http://www.timeanddate.com/worldclock/clockchange.html?n=53">
# http://www.timeanddate.com/worldclock/clockchange.html?n=53
# </a>
# [3] <a href="http://wwp.greenwichmeantime.com/time-zone/africa/egypt/">
# http://wwp.greenwichmeantime.com/time-zone/africa/egypt/
```

```
# </a>

# From Arthur David Olson (2009-04-20):
# In 2009 (and for the next several years), Ramadan ends before the fourth
# Thursday in September; Egypt is expected to revert to the last Thursday
# in September.

# From Steffen Thorsen (2009-08-11):
# We have been able to confirm the August change with the Egyptian Cabinet
# Information and Decision Support Center:
# <a href="http://www.timeanddate.com/news/time/egypt-dst-ends-2009.html">
# http://www.timeanddate.com/news/time/egypt-dst-ends-2009.html
# </a>
#
# The Middle East News Agency
# <a href="http://www.mena.org.eg/index.aspx">
# http://www.mena.org.eg/index.aspx
# </a>
# also reports "Egypt starts winter time on August 21"
# today in article numbered "71, 11/08/2009 12:25 GMT."
# Only the title above is available without a subscription to their service,
# and can be found by searching for "winter" in their search engine
# (at least today).

# From Alexander Krivenyshev (2010-07-20):
# According to News from Egypt -  Al-Masry Al-Youm Egypt's cabinet has
# decided that Daylight Saving Time will not be used in Egypt during
# Ramadan.
#
# Arabic translation:
# "Clocks to go back during Ramadan--and then forward again"
# <a href="http://www.almasryalyoum.com/en/news/clocks-go-back-during-ramadan-and-then-forward-again">
# http://www.almasryalyoum.com/en/news/clocks-go-back-during-ramadan-and-then-forward-again
# </a>
# or
# <a href="http://www.worldtimezone.com/dst_news/dst_news_egypt02.html">
# http://www.worldtimezone.com/dst_news/dst_news_egypt02.html
# </a>

Rule Egypt 2008 only - Aug lastThu 23:00s 0 -
Rule Egypt 2009 only - Aug 20 23:00s 0 -
Rule Egypt 2010 only - Aug 11 0:00 0 -
Rule Egypt 2010 only - Sep 10 0:00 1:00 S
Rule Egypt 2010 only - Sep lastThu 23:00s 0 -

# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Cairo 2:05:00 - LMT 1900 Oct
  2:00 Egypt EE%sT
```

```
# Equatorial Guinea
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Malabo 0:35:08 - LMT 1912
  0:00 - GMT 1963 Dec 15
  1:00 - WAT

# Eritrea
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Asmara 2:35:32 - LMT 1870
  2:35:32 - AMT 1890       # Asmara Mean Time
  2:35:20 - ADMT 1936 May 5    # Adis Dera MT
  3:00 - EAT

# Ethiopia
# From Paul Eggert (2006-03-22):
# Shanks & Pottenger write that Ethiopia had six narrowly-spaced time zones
# between 1870 and 1890, and that they merged to 38E50 (2:35:20) in 1890.
# We'll guess that 38E50 is for Adis Dera.
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Addis_Ababa 2:34:48 - LMT 1870
  2:35:20 - ADMT 1936 May 5    # Adis Dera MT
  3:00 - EAT

# Gabon
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Libreville 0:37:48 - LMT 1912
  1:00 - WAT

# Gambia
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Banjul -1:06:36 - LMT 1912
  -1:06:36 - BMT 1935 # Banjul Mean Time
  -1:00 - WAT 1964
   0:00 - GMT

# Ghana
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
# Whitman says DST was observed from 1931 to "the present";
# go with Shanks & Pottenger.
Rule Ghana 1936 1942 - Sep  1 0:00 0:20 GHST
Rule Ghana 1936 1942 - Dec 31 0:00 0 GMT
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Accra -0:00:52 - LMT 1918
   0:00 Ghana %s

# Guinea
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
```

```
Zone Africa/Conakry -0:54:52 - LMT 1912
    0:00 - GMT 1934 Feb 26
   -1:00 - WAT 1960
    0:00 - GMT

# Guinea-Bissau
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Bissau -1:02:20 - LMT 1911 May 26
   -1:00 - WAT 1975
    0:00 - GMT

# Kenya
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Nairobi 2:27:16 - LMT 1928 Jul
   3:00 - EAT 1930
   2:30 - BEAT 1940
   2:45 - BEAUT 1960
   3:00 - EAT

# Lesotho
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Maseru 1:50:00 - LMT 1903 Mar
   2:00 - SAST 1943 Sep 19 2:00
   2:00 1:00 SAST 1944 Mar 19 2:00
   2:00 - SAST

# Liberia
# From Paul Eggert (2006-03-22):
# In 1972 Liberia was the last country to switch
# from a UTC offset that was not a multiple of 15 or 20 minutes.
# Howse reports that it was in honor of their president's birthday.
# Shank & Pottenger report the date as May 1, whereas Howse reports Jan;
# go with Shanks & Pottenger.
# For Liberia before 1972, Shanks & Pottenger report -0:44, whereas Howse and
# Whitman each report -0:44:30; go with the more precise figure.
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Monrovia -0:43:08 - LMT 1882
   -0:43:08 - MMT 1919 Mar # Monrovia Mean Time
   -0:44:30 - LRT 1972 May # Liberia Time
    0:00 - GMT

################################################################################

# Libya

# From Even Scharning (2012-11-10):
# Libya set their time one hour back at 02:00 on Saturday November 10.
# http://www.libyaherald.com/2012/11/04/clocks-to-go-back-an-hour-on-saturday/
```

```
# Here is an official source [in Arabic]: http://ls.ly/fb6Yc
#
# Steffen Thorsen forwarded a translation (2012-11-10) in
# http://mm.icann.org/pipermail/tz/2012-November/018451.html
#
# From Tim Parenti (2012-11-11):
# Treat the 2012-11-10 change as a zone change from UTC+2 to UTC+1.
# The DST rules planned for 2013 and onward roughly mirror those of Europe
# (either two days before them or five days after them, so as to fall on
# lastFri instead of lastSun).

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Libya 1951 only - Oct 14 2:00 1:00 S
Rule Libya 1952 only - Jan  1 0:00 0 -
Rule Libya 1953 only - Oct  9 2:00 1:00 S
Rule Libya 1954 only - Jan  1 0:00 0 -
Rule Libya 1955 only - Sep 30 0:00 1:00 S
Rule Libya 1956 only - Jan  1 0:00 0 -
Rule Libya 1982 1984 - Apr  1 0:00 1:00 S
Rule Libya 1982 1985 - Oct  1 0:00 0 -
Rule Libya 1985 only - Apr  6 0:00 1:00 S
Rule Libya 1986 only - Apr  4 0:00 1:00 S
Rule Libya 1986 only - Oct  3 0:00 0 -
Rule Libya 1987 1989 - Apr  1 0:00 1:00 S
Rule Libya 1987 1989 - Oct  1 0:00 0 -
Rule Libya 1997 only - Apr  4 0:00 1:00 S
Rule Libya 1997 only - Oct  4 0:00 0 -
Rule Libya 2013 max - Mar lastFri 1:00 1:00 S
Rule Libya 2013 max - Oct lastFri 2:00 0 -
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Tripoli 0:52:44 - LMT 1920
  1:00 Libya CE%sT 1959
  2:00 - EET 1982
  1:00 Libya CE%sT 1990 May  4
# The 1996 and 1997 entries are from Shanks & Pottenger;
# the IATA SSIM data contain some obvious errors.
  2:00 - EET 1996 Sep 30
  1:00 Libya CE%sT 1997 Oct  4
  2:00 - EET 2012 Nov 10 2:00
  1:00 Libya CE%sT

# Madagascar
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Antananarivo 3:10:04 - LMT 1911 Jul
  3:00 - EAT 1954 Feb 27 23:00s
  3:00 1:00 EAST 1954 May 29 23:00s
  3:00 - EAT
```

```
# Malawi
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Blantyre 2:20:00 - LMT 1903 Mar
  2:00 - CAT

# Mali
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Bamako -0:32:00 - LMT 1912
   0:00 - GMT 1934 Feb 26
  -1:00 - WAT 1960 Jun 20
   0:00 - GMT

# Mauritania
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Nouakchott -1:03:48 - LMT 1912
   0:00 - GMT 1934 Feb 26
  -1:00 - WAT 1960 Nov 28
   0:00 - GMT

# Mauritius

# From Steffen Thorsen (2008-06-25):
# Mauritius plans to observe DST from 2008-11-01 to 2009-03-31 on a trial
# basis....
# It seems that Mauritius observed daylight saving time from 1982-10-10 to
# 1983-03-20 as well, but that was not successful....
# http://www.timeanddate.com/news/time/mauritius-daylight-saving-time.html

# From Alex Krivenyshev (2008-06-25):
#
http://economicdevelopment.gov.mu/portal/site/Mainhomepage/menuitem.a42b24128104d9845dabddd154508a0c/?
content_id=0a7cee8b5d69a110VgnVCM1000000a04a8c0RCRD

# From Arthur David Olson (2008-06-30):
# The www.timeanddate.com article cited by Steffen Thorsen notes that "A
# final decision has yet to be made on the times that daylight saving
# would begin and end on these dates." As a place holder, use midnight.

# From Paul Eggert (2008-06-30):
# Follow Thorsen on DST in 1982/1983, instead of Shanks & Pottenger.

# From Steffen Thorsen (2008-07-10):
# According to
# <a href="http://www.lexpress.mu/display_article.php?news_id=111216">
# http://www.lexpress.mu/display_article.php?news_id=111216
# </a>
# (in French), Mauritius will start and end their DST a few days earlier
# than previously announced (2008-11-01 to 2009-03-31).  The new start
```

date is 2008-10-26 at 02:00 and the new end date is 2009-03-27 (no time
given, but it is probably at either 2 or 3 wall clock time).
#
A little strange though, since the article says that they moved the date
to align itself with Europe and USA which also change time on that date,
but that means they have not paid attention to what happened in
USA/Canada last year (DST ends first Sunday in November). I also wonder
why that they end on a Friday, instead of aligning with Europe which
changes two days later.

From Alex Krivenyshev (2008-07-11):
Seems that English language article "The revival of daylight saving
time: Energy conservation?"-# No. 16578 (07/11/2008) was originally
published on Monday, June 30, 2008...
#
I guess that article in French "Le gouvernement avance l'introduction
de l'heure d'ete" stating that DST in Mauritius starting on October 26
and ending on March 27, 2009 is the most recent one.
...

http://www.worldtimezone.com/dst_news/dst_news_mauritius02.html

# From Riad M. Hossen Ally (2008-08-03):
# The Government of Mauritius weblink
# <a
href="http://www.gov.mu/portal/site/pmosite/menuitem.4ca0efdee47462e7440a600248a521ca/?content_id=4728ca68b2a5b110VgnVCM1000000a04a8c0RCRD">
#
http://www.gov.mu/portal/site/pmosite/menuitem.4ca0efdee47462e7440a600248a521ca/?content_id=4728ca68b2a5b110VgnVCM1000000a04a8c0RCRD

Cabinet Decision of July 18th, 2008 states as follows:
#
4. ...Cabinet has agreed to the introduction into the National Assembly
of the Time Bill which provides for the introduction of summer time in
Mauritius. The summer time period which will be of one hour ahead of
the standard time, will be aligned with that in Europe and the United
States of America. It will start at two o'clock in the morning on the
last Sunday of October and will end at two o'clock in the morning on
the last Sunday of March the following year. The summer time for the
year 2008 - 2009 will, therefore, be effective as from 26 October 2008
and end on 29 March 2009.

From Ed Maste (2008-10-07):
THE TIME BILL (No. XXVII of 2008) Explanatory Memorandum states the
beginning / ending of summer time is 2 o'clock standard time in the
morning of the last Sunday of October / last Sunday of March.

```
# <a href="http://www.gov.mu/portal/goc/assemblysite/file/bill2708.pdf">
# http://www.gov.mu/portal/goc/assemblysite/file/bill2708.pdf
# </a>

# From Steffen Thorsen (2009-06-05):
# According to several sources, Mauritius will not continue to observe
# DST the coming summer...
#
# Some sources, in French:
# <a href="http://www.defimedia.info/news/946/Rashid-Beebeejaun-:-%C2%AB-L%E2%80%99heure-
d%E2%80%99%C3%A9t%C3%A9-ne-sera-pas-appliqu%C3%A9e-cette-ann%C3%A9e-%C2%BB">
# http://www.defimedia.info/news/946/Rashid-Beebeejaun-:-%C2%AB-L%E2%80%99heure-
d%E2%80%99%C3%A9t%C3%A9-ne-sera-pas-appliqu%C3%A9e-cette-ann%C3%A9e-%C2%BB
# </a>
# <a href="http://lexpress.mu/Story/3398~Beebeejaun---Les-objectifs-d-%C3%A9conomie-d-%C3%A9nergie-de-l-
heure-d-%C3%A9t%C3%A9-ont-%C3%A9t%C3%A9-atteints-">
# http://lexpress.mu/Story/3398~Beebeejaun---Les-objectifs-d-%C3%A9conomie-d-%C3%A9nergie-de-l-heure-d-
%C3%A9t%C3%A9-ont-%C3%A9t%C3%A9-atteints-
# </a>
#
# Our wrap-up:
# <a href="http://www.timeanddate.com/news/time/mauritius-dst-will-not-repeat.html">
# http://www.timeanddate.com/news/time/mauritius-dst-will-not-repeat.html
# </a>

# From Arthur David Olson (2009-07-11):
# The "mauritius-dst-will-not-repeat" wrapup includes this:
# "The trial ended on March 29, 2009, when the clocks moved back by one hour
# at 2am (or 02:00) local time..."

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Mauritius 1982 only - Oct 10 0:00 1:00 S
Rule Mauritius 1983 only - Mar 21 0:00 0 -
Rule Mauritius 2008 only - Oct lastSun 2:00 1:00 S
Rule Mauritius 2009 only - Mar lastSun 2:00 0 -
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Mauritius 3:50:00 - LMT 1907  # Port Louis
  4:00 Mauritius MU%sT # Mauritius Time
# Agalega Is, Rodriguez
# no information; probably like Indian/Mauritius

# Mayotte
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Mayotte 3:00:56 - LMT 1911 Jul # Mamoutzou
  3:00 - EAT

# Morocco
# See the 'europe' file for Spanish Morocco (Africa/Ceuta).
```

```
# From Alex Krivenyshev (2008-05-09):
# Here is an article that Morocco plan to introduce Daylight Saving Time between
# 1 June, 2008 and 27 September, 2008.
#
# "... Morocco is to save energy by adjusting its clock during summer so it will
# be one hour ahead of GMT between 1 June and 27 September, according to
# Communication Minister and Gov ernment Spokesman, Khalid Naciri...."
#
# <a href="http://www.worldtimezone.net/dst_news/dst_news_morocco01.html">
# http://www.worldtimezone.net/dst_news/dst_news_morocco01.html
# </a>
# OR
# <a href="http://en.afrik.com/news11892.html">
# http://en.afrik.com/news11892.html
# </a>

# From Alex Krivenyshev (2008-05-09):
# The Morocco time change can be confirmed on Morocco web site Maghreb Arabe Presse:
# <a href="http://www.map.ma/eng/sections/box3/morocco_shifts_to_da/view">
# http://www.map.ma/eng/sections/box3/morocco_shifts_to_da/view
# </a>
#
# Morocco shifts to daylight time on June 1st through September 27, Govt.
# spokesman.

# From Patrice Scattolin (2008-05-09):
# According to this article:
# <a href="http://www.avmaroc.com/actualite/heure-dete-comment-a127896.html">
# http://www.avmaroc.com/actualite/heure-dete-comment-a127896.html
# </a>
# (and republished here:
# <a href="http://www.actu.ma/heure-dete-comment_i127896_0.html">
# http://www.actu.ma/heure-dete-comment_i127896_0.html
# </a>
# )
# the changes occurs at midnight:
#
# saturday night may 31st at midnight (which in french is to be
# intrepreted as the night between saturday and sunday)
# sunday night the 28th  at midnight
#
# Seeing that the 28th is monday, I am guessing that she intends to say
# the midnight of the 28th which is the midnight between sunday and
# monday, which jives with other sources that say that it's inclusive
# june1st to sept 27th.
#
# The decision was taken by decree *2-08-224 *but I can't find the decree
```

published on the web.
#
It's also confirmed here:

http://www.maroc.ma/NR/exeres/FACF141F-D910-44B0-B7FA-6E03733425D1.htm

on a government portal as being between june 1st and sept 27th (not yet
posted in english).
#
# The following google query will generate many relevant hits:
# <a
href="http://www.google.com/search?hl=en&q=Conseil+de+gouvernement+maroc+heure+avance&btnG=Search">
# http://www.google.com/search?hl=en&q=Conseil+de+gouvernement+maroc+heure+avance&btnG=Search
#

From Alex Krivenyshev (2008-05-09):
Is Western Sahara (part which administrated by Morocco) going to follow
Morocco DST changes? Any information? What about other part of
Western Sahara - under administration of POLISARIO Front (also named
SADR Saharawi Arab Democratic Republic)?

From Arthur David Olson (2008-05-09):
XXX--guess that it is only Morocco for now; guess only 2008 for now.

From Steffen Thorsen (2008-08-27):
Morocco will change the clocks back on the midnight between August 31
and September 1. They originally planned to observe DST to near the end
of September:
#
# One article about it (in French):
# <a
href="http://www.menara.ma/fr/Actualites/Maroc/Societe/ci.retour_a_l_heure_gmt_a_partir_du_dimanche_31_aout
_a_minuit_officiel_.default">
#
http://www.menara.ma/fr/Actualites/Maroc/Societe/ci.retour_a_l_heure_gmt_a_partir_du_dimanche_31_aout_a_mi
nuit_officiel_.default

#
We have some further details posted here:

http://www.timeanddate.com/news/time/morocco-ends-dst-early-2008.html

From Steffen Thorsen (2009-03-17):
Morocco will observe DST from 2009-06-01 00:00 to 2009-08-21 00:00 according
to many sources, such as

http://news.marweb.com/morocco/entertainment/morocco-daylight-saving.html

http://www.medi1sat.ma/fr/depeche.aspx?idp=2312

(French)
#
Our summary:

http://www.timeanddate.com/news/time/morocco-starts-dst-2009.html

From Alexander Krivenyshev (2009-03-17):
Here is a link to official document from Royaume du Maroc Premier Ministre,
Ministere de la Modernisation des Secteurs Publics
#
Under Article 1 of Royal Decree No. 455-67 of Act 23 safar 1387 (2 june 1967)
concerning the amendment of the legal time, the Ministry of Modernization of
Public Sectors announced that the official time in the Kingdom will be
advanced 60 minutes from Sunday 31 May 2009 at midnight.
#

http://www.mmsp.gov.ma/francais/Actualites_fr/PDF_Actualites_Fr/HeureEte_FR.pdf

#

http://www.worldtimezone.com/dst_news/dst_news_morocco03.html

From Steffen Thorsen (2010-04-13):
Several news media in Morocco report that the Ministry of Modernization
of Public Sectors has announced that Morocco will have DST from
2010-05-02 to 2010-08-08.
#
Example:

http://www.lavieeco.com/actualites/4099-le-maroc-passera-a-l-heure-d-ete-gmt1-le-2-mai.html

(French)
Our page:

http://www.timeanddate.com/news/time/morocco-starts-dst-2010.html

From Dan Abitol (2011-03-30):
...Rules for Africa/Casablanca are the following (24h format)
The 3rd april 2011 at 00:00:00, [it] will be 3rd april 1:00:00
The 31th july 2011 at 00:59:59, [it] will be 31th July 00:00:00
...Official links of change in morocco

```
# The change was broadcast on the FM Radio
# I ve called ANRT (telecom regulations in Morocco) at
# +212.537.71.84.00
# <a href="http://www.anrt.net.ma/fr/">
# http://www.anrt.net.ma/fr/
# </a>
# They said that
# <a href="http://www.map.ma/fr/sections/accueil/l_heure_legale_au_ma/view">
# http://www.map.ma/fr/sections/accueil/l_heure_legale_au_ma/view
# </a>
# is the official publication to look at.
# They said that the decision was already taken.
#
# More articles in the press
# <a href="http://www.yabiladi.com/articles/details/5058/secret-l-heure-d-ete-maroc-lev">
# http://www.yabiladi.com/articles/details/5058/secret-l-heure-d-ete-maroc-lev
# </a>
# e.html
# <a href="http://www.lematin.ma/Actualite/Express/Article.asp?id=148923">
# http://www.lematin.ma/Actualite/Express/Article.asp?id=148923
# </a>
# <a href="http://www.lavieeco.com/actualite/Le-Maroc-passe-sur-GMT%2B1-a-partir-de-dim">
# http://www.lavieeco.com/actualite/Le-Maroc-passe-sur-GMT%2B1-a-partir-de-dim
# anche-prochain-5538.html
# </a>

# From Petr Machata (2011-03-30):
# They have it written in English here:
# <a href="http://www.map.ma/eng/sections/home/morocco_to_spring_fo/view">
# http://www.map.ma/eng/sections/home/morocco_to_spring_fo/view
# </a>
#
# It says there that "Morocco will resume its standard time on July 31,
# 2011 at midnight." Now they don't say whether they mean midnight of
# wall clock time (i.e. 11pm UTC), but that's what I would assume. It has
# also been like that in the past.

# From Alexander Krivenyshev (2012-03-09):
# According to Infom&eacute;diaire web site from Morocco (infomediaire.ma),
# on March 9, 2012, (in French) Heure l&eacute;gale:
# Le Maroc adopte officiellement l'heure d'&eacute;t&eacute;
# <a href="http://www.infomediaire.ma/news/maroc/heure-l%C3%A9gale-le-maroc-adopte-officiellement-lheure-
d%C3%A9t%C3%A9">
# http://www.infomediaire.ma/news/maroc/heure-l%C3%A9gale-le-maroc-adopte-officiellement-lheure-
d%C3%A9t%C3%A9
# </a>
# Governing Council adopted draft decree, that Morocco DST starts on
# the last Sunday of March (March 25, 2012) and ends on
```

```
# last Sunday of September (September 30, 2012)
# except the month of Ramadan.
# or (brief)
# <a href="http://www.worldtimezone.com/dst_news/dst_news_morocco06.html">
# http://www.worldtimezone.com/dst_news/dst_news_morocco06.html
# </a>

# From Arthur David Olson (2012-03-10):
# The infomediaire.ma source indicates that the system is to be in
# effect every year. It gives 03H00 as the "fall back" time of day;
# it lacks a "spring forward" time of day; assume 2:00 XXX.
# Wait on specifying the Ramadan exception for details about
# start date, start time of day, end date, and end time of day XXX.

# From Christophe Tropamer (2012-03-16):
# Seen Morocco change again:
# <a href="http://www.le2uminutes.com/actualite.php">
# http://www.le2uminutes.com/actualite.php
# </a>
# "...&agrave; partir du dernier dimance d'avril et non fins mars,
# comme annonc&eacute; pr&eacute;c&eacute;demment."

# From Milamber Space Network (2012-07-17):
# The official return to GMT is announced by the Moroccan government:
# <a href="http://www.mmsp.gov.ma/fr/actualites.aspx?id=288">
# http://www.mmsp.gov.ma/fr/actualites.aspx?id=288 [in French]
# </a>
#
# Google translation, lightly edited:
# Back to the standard time of the Kingdom (GMT)
# Pursuant to Decree No. 2-12-126 issued on 26 Jumada (I) 1433 (April 18,
# 2012) and in accordance with the order of Mr. President of the
# Government No. 3-47-12 issued on 24 Sha'ban (11 July 2012), the Ministry
# of Public Service and Administration Modernization announces the return
# of the legal time of the Kingdom (GMT) from Friday, July 20, 2012 until
# Monday, August 20, 2012.  So the time will be delayed by 60 minutes from
# 3:00 am Friday, July 20, 2012 and will again be advanced by 60 minutes
# August 20, 2012 from 2:00 am.

# RULE NAME FROM TO TYPE IN ON AT SAVE LETTER/S

Rule Morocco 1939 only - Sep 12  0:00 1:00 S
Rule Morocco 1939 only - Nov 19  0:00 0 -
Rule Morocco 1940 only - Feb 25  0:00 1:00 S
Rule Morocco 1945 only - Nov 18  0:00 0 -
Rule Morocco 1950 only - Jun 11  0:00 1:00 S
Rule Morocco 1950 only - Oct 29  0:00 0 -
Rule Morocco 1967 only - Jun  3 12:00 1:00 S
```

```
Rule Morocco 1967 only - Oct  1  0:00 0 -
Rule Morocco 1974 only - Jun 24  0:00 1:00 S
Rule Morocco 1974 only - Sep  1  0:00 0 -
Rule Morocco 1976 1977 - May  1  0:00 1:00 S
Rule Morocco 1976 only - Aug  1  0:00 0 -
Rule Morocco 1977 only - Sep 28  0:00 0 -
Rule Morocco 1978 only - Jun  1  0:00 1:00 S
Rule Morocco 1978 only - Aug  4  0:00 0 -
Rule Morocco 2008 only - Jun  1  0:00 1:00 S
Rule Morocco 2008 only - Sep  1  0:00 0 -
Rule Morocco 2009 only - Jun  1  0:00 1:00 S
Rule Morocco 2009 only - Aug  21  0:00 0 -
Rule Morocco 2010 only - May  2  0:00 1:00 S
Rule Morocco 2010 only - Aug  8  0:00 0 -
Rule Morocco 2011 only - Apr  3  0:00 1:00 S
Rule Morocco 2011 only - Jul  31  0 0 -
Rule Morocco 2012 max - Apr  lastSun 2:00 1:00 S
Rule Morocco 2012 max - Sep  lastSun 3:00 0 -
Rule Morocco 2012 only - Jul  20  3:00 0 -
Rule Morocco 2012 only - Aug  20  2:00 1:00 S

# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Casablanca -0:30:20 - LMT 1913 Oct 26
    0:00 Morocco WE%sT 1984 Mar 16
    1:00 - CET 1986
    0:00 Morocco WE%sT
# Western Sahara
Zone Africa/El_Aaiun -0:52:48 - LMT 1934 Jan
   -1:00 - WAT 1976 Apr 14
    0:00 - WET

# Mozambique
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Maputo 2:10:20 - LMT 1903 Mar
   2:00 - CAT

# Namibia
# The 1994-04-03 transition is from Shanks & Pottenger.
# Shanks & Pottenger report no DST after 1998-04; go with IATA.

# From Petronella Sibeene (2007-03-30) in
# <http://allafrica.com/stories/200703300178.html>:
# While the entire country changes its time, Katima Mulilo and other
# settlements in Caprivi unofficially will not because the sun there
# rises and sets earlier compared to other regions.  Chief of
# Forecasting Riaan van Zyl explained that the far eastern parts of
# the country are close to 40 minutes earlier in sunrise than the rest
# of the country.
```

```
#
# From Paul Eggert (2007-03-31):
# Apparently the Caprivi Strip informally observes Botswana time, but
# we have no details.  In the meantime people there can use Africa/Gaborone.

# RULE NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Namibia 1994 max - Sep Sun>=1 2:00 1:00 S
Rule Namibia 1995 max - Apr Sun>=1 2:00 0 -
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Windhoek 1:08:24 - LMT 1892 Feb 8
  1:30 - SWAT 1903 Mar # SW Africa Time
  2:00 - SAST 1942 Sep 20 2:00
  2:00 1:00 SAST 1943 Mar 21 2:00
  2:00 - SAST 1990 Mar 21 # independence
  2:00 - CAT 1994 Apr  3
  1:00 Namibia WA%sT

# Niger
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Niamey  0:08:28 - LMT 1912
  -1:00 - WAT 1934 Feb 26
   0:00 - GMT 1960
   1:00 - WAT

# Nigeria
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Lagos 0:13:36 - LMT 1919 Sep
  1:00 - WAT

# Reunion
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Reunion 3:41:52 - LMT 1911 Jun # Saint-Denis
  4:00 - RET # Reunion Time
#
# Scattered Islands (Iles Eparses) administered from Reunion are as follows.
# The following information about them is taken from
# Iles Eparses (www.outre-mer.gouv.fr/domtom/ile.htm, 1997-07-22, in French;
# no longer available as of 1999-08-17).
# We have no info about their time zone histories.
#
# Bassas da India - uninhabited
# Europa Island - inhabited from 1905 to 1910 by two families
# Glorioso Is - inhabited until at least 1958
# Juan de Nova - uninhabited
# Tromelin - inhabited until at least 1958

# Rwanda
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
```

```
Zone Africa/Kigali 2:00:16 - LMT 1935 Jun
  2:00 - CAT

# St Helena
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Atlantic/St_Helena -0:22:48 - LMT 1890  # Jamestown
  -0:22:48 - JMT 1951 # Jamestown Mean Time
   0:00 - GMT
# The other parts of the St Helena territory are similar:
# Tristan da Cunha: on GMT, say Whitman and the CIA
# Ascension: on GMT, says usno1995 and the CIA
# Gough (scientific station since 1955; sealers wintered previously):
#  on GMT, says the CIA
# Inaccessible, Nightingale: no information, but probably GMT

# Sao Tome and Principe
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Sao_Tome  0:26:56 - LMT 1884
  -0:36:32 - LMT 1912 # Lisbon Mean Time
   0:00 - GMT

# Senegal
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Dakar -1:09:44 - LMT 1912
  -1:00 - WAT 1941 Jun
   0:00 - GMT

# Seychelles
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Indian/Mahe 3:41:48 - LMT 1906 Jun # Victoria
  4:00 - SCT # Seychelles Time
# From Paul Eggert (2001-05-30):
# Aldabra, Farquhar, and Desroches, originally dependencies of the
# Seychelles, were transferred to the British Indian Ocean Territory
# in 1965 and returned to Seychelles control in 1976.  We don't know
# whether this affected their time zone, so omit this for now.
# Possibly the islands were uninhabited.

# Sierra Leone
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
# Whitman gives Mar 31 - Aug 31 for 1931 on; go with Shanks & Pottenger.
Rule SL 1935 1942 - Jun  1 0:00 0:40 SLST
Rule SL 1935 1942 - Oct  1 0:00 0 WAT
Rule SL 1957 1962 - Jun  1 0:00 1:00 SLST
Rule SL 1957 1962 - Sep  1 0:00 0 GMT
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Freetown -0:53:00 - LMT 1882
  -0:53:00 - FMT 1913 Jun # Freetown Mean Time
```

```
  -1:00 SL %s 1957
   0:00 SL %s

# Somalia
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Mogadishu 3:01:28 - LMT 1893 Nov
  3:00 - EAT 1931
  2:30 - BEAT 1957
  3:00 - EAT

# South Africa
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule SA 1942 1943 - Sep Sun>=15 2:00 1:00 -
Rule SA 1943 1944 - Mar Sun>=15 2:00 0 -
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Johannesburg 1:52:00 - LMT 1892 Feb 8
  1:30 - SAST 1903 Mar
  2:00 SA SAST
# Marion and Prince Edward Is
# scientific station since 1947
# no information

# Sudan
#
# From <a href="http://www.sunanews.net/sn13jane.html">
# Sudan News Agency (2000-01-13)
# </a>, also reported by Michael De Beukelaer-Dossche via Steffen Thorsen:
# Clocks will be moved ahead for 60 minutes all over the Sudan as of noon
# Saturday....  This was announced Thursday by Caretaker State Minister for
# Manpower Abdul-Rahman Nur-Eddin.
#
# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Sudan 1970 only - May  1 0:00 1:00 S
Rule Sudan 1970 1985 - Oct 15 0:00 0 -
Rule Sudan 1971 only - Apr 30 0:00 1:00 S
Rule Sudan 1972 1985 - Apr lastSun 0:00 1:00 S
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Khartoum 2:10:08 - LMT 1931
  2:00 Sudan CA%sT 2000 Jan 15 12:00
  3:00 - EAT

# South Sudan
Zone Africa/Juba 2:06:24 - LMT 1931
  2:00 Sudan CA%sT 2000 Jan 15 12:00
  3:00 - EAT

# Swaziland
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
```

```
Zone Africa/Mbabane 2:04:24 - LMT 1903 Mar
  2:00 - SAST

# Tanzania
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Dar_es_Salaam 2:37:08 - LMT 1931
  3:00 - EAT 1948
  2:45 - BEAUT 1961
  3:00 - EAT

# Togo
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Lome 0:04:52 - LMT 1893
  0:00 - GMT

# Tunisia

# From Gwillim Law (2005-04-30):
# My correspondent, Risto Nykanen, has alerted me to another adoption of DST,
# this time in Tunisia.  According to Yahoo France News
# <http://fr.news.yahoo.com/050426/5/4dumk.html>, in a story attributed to AP
# and dated 2005-04-26, "Tunisia has decided to advance its official time by
# one hour, starting on Sunday, May 1.  Henceforth, Tunisian time will be
# UTC+2 instead of UTC+1.  The change will take place at 23:00 UTC next
# Saturday."  (My translation)
#
# From Oscar van Vlijmen (2005-05-02):
# LaPresse, the first national daily newspaper ...
# <http://www.lapresse.tn/archives/archives280405/actualites/lheure.html>
# ... DST for 2005: on: Sun May 1 0h standard time, off: Fri Sept. 30,
# 1h standard time.
#
# From Atef Loukil (2006-03-28):
# The daylight saving time will be the same each year:
# Beginning      : the last Sunday of March at 02:00
# Ending         : the last Sunday of October at 03:00 ...
# http://www.tap.info.tn/en/index.php?option=com_content&task=view&id=1188&Itemid=50

# From Steffen Thorsen (2009-03-16):
# According to several news sources, Tunisia will not observe DST this year.
# (Arabic)
# <a href="http://www.elbashayer.com/?page=viewn&nid=42546">
# http://www.elbashayer.com/?page=viewn&nid=42546
# </a>
# <a href="http://www.babnet.net/kiwidetail-15295.asp">
# http://www.babnet.net/kiwidetail-15295.asp
# </a>
#
```

```
# We have also confirmed this with the US embassy in Tunisia.
# We have a wrap-up about this on the following page:
# <a href="http://www.timeanddate.com/news/time/tunisia-cancels-dst-2009.html">
# http://www.timeanddate.com/news/time/tunisia-cancels-dst-2009.html
# </a>

# From Alexander Krivenyshev (2009-03-17):
# Here is a link to Tunis Afrique Presse News Agency
#
# Standard time to be kept the whole year long (tap.info.tn):
#
# (in English)
# <a href="http://www.tap.info.tn/en/index.php?option=com_content&task=view&id=26813&Itemid=157">
# http://www.tap.info.tn/en/index.php?option=com_content&task=view&id=26813&Itemid=157
# </a>
#
# (in Arabic)
# <a href="http://www.tap.info.tn/ar/index.php?option=com_content&task=view&id=61240&Itemid=1">
# http://www.tap.info.tn/ar/index.php?option=com_content&task=view&id=61240&Itemid=1
# </a>

# From Arthur David Olson (2009--3-18):
# The Tunis Afrique Presse News Agency notice contains this: "This measure is due to the fact
# that the fasting month of ramadan coincides with the period concerned by summer time.
# Therefore, the standard time will be kept unchanged the whole year long."
# So foregoing DST seems to be an exception (albeit one that may be repeated in the  future).

# From Alexander Krivenyshev (2010-03-27):
# According to some news reports Tunis confirmed not to use DST in 2010
#
# (translation):
# "The Tunisian government has decided to abandon DST, which was scheduled on
# Sunday...
# Tunisian authorities had suspended the DST for the first time last year also
# coincided with the month of Ramadan..."
#
# (in Arabic)
# <a href="http://www.moheet.com/show_news.aspx?nid=358861&pg=1">
# http://www.moheet.com/show_news.aspx?nid=358861&pg=1
# <a href="http://www.almadenahnews.com/newss/news.php?c=118&id=38036">
# http://www.almadenahnews.com/newss/news.php?c=118&id=38036
# or
# <a href="http://www.worldtimezone.com/dst_news/dst_news_tunis02.html">
# http://www.worldtimezone.com/dst_news/dst_news_tunis02.html

# Rule NAME FROM TO TYPE IN ON AT SAVE LETTER/S
Rule Tunisia 1939 only - Apr 15 23:00s 1:00 S
Rule Tunisia 1939 only - Nov 18 23:00s 0 -
```

```
Rule Tunisia 1940 only - Feb 25 23:00s 1:00 S
Rule Tunisia 1941 only - Oct  6  0:00 0 -
Rule Tunisia 1942 only - Mar  9  0:00 1:00 S
Rule Tunisia 1942 only - Nov  2  3:00 0 -
Rule Tunisia 1943 only - Mar 29  2:00 1:00 S
Rule Tunisia 1943 only - Apr 17  2:00 0 -
Rule Tunisia 1943 only - Apr 25  2:00 1:00 S
Rule Tunisia 1943 only - Oct  4  2:00 0 -
Rule Tunisia 1944 1945 - Apr Mon>=1  2:00 1:00 S
Rule Tunisia 1944 only - Oct  8  0:00 0 -
Rule Tunisia 1945 only - Sep 16  0:00 0 -
Rule Tunisia 1977 only - Apr 30  0:00s 1:00 S
Rule Tunisia 1977 only - Sep 24  0:00s 0 -
Rule Tunisia 1978 only - May  1  0:00s 1:00 S
Rule Tunisia 1978 only - Oct  1  0:00s 0 -
Rule Tunisia 1988 only - Jun  1  0:00s 1:00 S
Rule Tunisia 1988 1990 - Sep lastSun  0:00s 0 -
Rule Tunisia 1989 only - Mar 26  0:00s 1:00 S
Rule Tunisia 1990 only - May  1  0:00s 1:00 S
Rule Tunisia 2005 only - May  1  0:00s 1:00 S
Rule Tunisia 2005 only - Sep 30  1:00s 0 -
Rule Tunisia 2006 2008 - Mar lastSun  2:00s 1:00 S
Rule Tunisia 2006 2008 - Oct lastSun  2:00s 0 -

# Shanks & Pottenger give 0:09:20 for Paris Mean Time; go with Howse's
# more precise 0:09:21.
# Shanks & Pottenger say the 1911 switch was on Mar 9; go with Howse's Mar 11.
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Tunis 0:40:44 - LMT 1881 May 12
  0:09:21 - PMT 1911 Mar 11    # Paris Mean Time
  1:00 Tunisia CE%sT

# Uganda
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Kampala 2:09:40 - LMT 1928 Jul
  3:00 - EAT 1930
  2:30 - BEAT 1948
  2:45 - BEAUT 1957
  3:00 - EAT

# Zambia
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Lusaka 1:53:08 - LMT 1903 Mar
  2:00 - CAT

# Zimbabwe
# Zone NAME  GMTOFF RULES FORMAT [UNTIL]
Zone Africa/Harare 2:04:12 - LMT 1903 Mar
```

```
  2:00 - CAT
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.\"
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.\" HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT
.\" LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY
.\" OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
.\" SUCH DAMAGE.
.\"
.\"     from: @(#)strftime.3 5.12 (Berkeley) 6/29/91
.\" $Id: strftime.3,v 1.4 1993/12/15 20:33:00 jtc Exp $
.\"
.TH NEWSTRFTIME 3
.SH NAME
strftime \- format date and time
.SH SYNOPSIS
.nf
.B #include <sys/types.h>
.B #include <time.h>
.PP
```

.B size_t strftime(buf, maxsize, format, timeptr)
.B char *buf;
.B size_t maxsize;
.B const char *format;
.B const struct tm *timeptr
.PP
.B cc ... -ltz
.fi
.SH DESCRIPTION
The
.I strftime\^
function formats the information from
.I timeptr\^
into the buffer
.I buf\^
according to the string pointed to by
.IR format\^ .
.PP
The
.I format\^
string consists of zero or more conversion specifications and
ordinary characters.
All ordinary characters are copied directly into the buffer.
A conversion specification consists of a percent sign
.Ql %
and one other character.
.PP
No more than
.I maxsize\^
characters are be placed into the array.
If the total number of resulting characters, including the terminating
null character, is not more than
.IR maxsize\^ ,
.I strftime\^
returns the number of characters in the array, not counting the
terminating null.
Otherwise, zero is returned.
.PP
Each conversion specification is replaced by the characters as
follows which are then copied into the buffer.
.TP
%A
is replaced by the locale's full weekday name.
.TP
%a
is replaced by the locale's abbreviated weekday name.
.TP
%B

is replaced by the locale's full month name.
.TP
%b or %h
is replaced by the locale's abbreviated month name.
.TP
%C
is replaced by the century (a year divided by 100 and truncated to an integer)
as a decimal number (00-99).
.TP
%c
is replaced by the locale's appropriate date and time representation.
.TP
%D
is replaced by the date in the format %m/%d/%y.
.TP
%d
is replaced by the day of the month as a decimal number (01-31).
.TP
%e
is replaced by the day of month as a decimal number (1-31);
single digits are preceded by a blank.
.TP
%F
is replaced by the date in the format %Y-%m-%d.
.TP
%G
is replaced by the ISO 8601 year with century as a decimal number.
.TP
%g
is replaced by the ISO 8601 year without century as a decimal number (00-99).
.TP
%H
is replaced by the hour (24-hour clock) as a decimal number (00-23).
.TP
%I
is replaced by the hour (12-hour clock) as a decimal number (01-12).
.TP
%j
is replaced by the day of the year as a decimal number (001-366).
.TP
%k
is replaced by the hour (24-hour clock) as a decimal number (0-23);
single digits are preceded by a blank.
.TP
%l
is replaced by the hour (12-hour clock) as a decimal number (1-12);
single digits are preceded by a blank.
.TP

%M
is replaced by the minute as a decimal number (00-59).
.TP
%m
is replaced by the month as a decimal number (01-12).
.TP
%n
is replaced by a newline.
.TP
%p
is replaced by the locale's equivalent of either AM or PM.
.TP
%R
is replaced by the time in the format %H:%M.
.TP
%r
is replaced by the locale's representation of 12-hour clock time
using AM/PM notation.
.TP
%S
is replaced by the second as a decimal number (00-60).
.TP
%s
is replaced by the number of seconds since the Epoch, UTC (see mktime(3)).
.TP
%T
is replaced by the time in the format %H:%M:%S.
.TP
%t
is replaced by a tab.
.TP
%U
is replaced by the week number of the year (Sunday as the first day of
the week) as a decimal number (00-53).
.TP
%u
is replaced by the weekday (Monday as the first day of the week)
as a decimal number (1-7).
.TP
%V
is replaced by the week number of the year (Monday as the first day of
the week) as a decimal number (01-53). If the week containing January
1 has four or more days in the new year, then it is week 1; otherwise
it is week 53 of the previous year, and the next week is week 1.
.TP
%W
is replaced by the week number of the year (Monday as the first day of
the week) as a decimal number (00-53).

.TP
%w
is replaced by the weekday (Sunday as the first day of the week)
as a decimal number (0-6).
.TP
%X
is replaced by the locale's appropriate time representation.
.TP
%x
is replaced by the locale's appropriate date representation.
.TP
%Y
is replaced by the year with century as a decimal number.
.TP
%y
is replaced by the year without century as a decimal number (00-99).
.TP
%Z
is replaced by the time zone name,
or by the empty string if this is not determinable.
.TP
%z
is replaced by the offset from UTC in the format +HHMM or -HHMM as appropriate,
with positive values representing locations east of Greenwich,
or by the empty string if this is not determinable.
.TP
%%
is replaced by a single %.
.TP
%+
is replaced by the date and time in date(1) format.
.SH SEE ALSO
date(1),
getenv(3),
newctime(3),
newtzset(3),
time(2),
tzfile(5)

1.204 udev 147 :2.46.el6

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

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  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

This General Public License does not permit incorporating your program into
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Public License instead of this License.
==============================
Visual Studio - Vim Integration
==============================

Copyright (C) 1997 Heiko Erhardt

VisVim is a Visual Studio Add-In that allows Vim to be integrated
as the default text editor. It will be used instead of the Visual
Studio built-in editor when you double-click on a file or press F4
after compiling (it will go to the proper line in the Vim buffer).
The file can be loaded exclusively by Vim or additionally to the
builtin Visual Studio editor (this option can be set in the VisVim
configuration dialog inside Visual Studio).
Vim does not replace the Visual Studio editor, it still runs in its
own window.

VisVim is based upon VisEmacs by Christopher Payne
(Copyright (C) Christopher Payne 1997).

Author: Heiko Erhardt <Heiko.Erhardt@munich.netsurf.de>
Based upon: VisEmacs by Christopher Payne <payneca@sagian.com>

Version: 1.0
Created: 23 Oct 1997
Date: 23 Oct 1997

VisVim 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 2, or (at your option)
any later version.

VisVim 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.

Requirements

VisVim works with the *OLE-enabled* version of Vim version 5.0 and higher
only!!! You must download the extra archive containing the OLE-enabled
executable from your Vim download site. When building your own Vim
executable, use the if_ole_vc.mak makefile (Vim 5.1 and higher).
VisVim needs DevStudio 5.0 or higher. It does not work with DevStudio 4.2.

Installation
---

1) Close running instances of DevStudio.

2) Copy VisVim.dll into a convenient directory like \vim,
 \vim\lib, or \vim\addin

3) Register the DLL using regsvr32.exe ... (Skip this on Windows 95/98)
 Example:
 > cd \vim\addin
 > regsvr32 VisVim.dll
 On NT, you should do this from an administrator account.
 Before installing a new version of VisVim you should unregister
 the old one using
 > regsvr32 -unregister VisVim.dll
 The batch files register.bat and unregister.bat can do that for you.

3a) If you didn't do this yet: Register the OLE gvim:
 > gvim -register

4) Start Visual Studio and go to:
    Tools

Customize...
Add-Ins and Macro Files

5) Click on Browse, and point Visual Studio to your VisVim.dll file.

6) Click the checkbox to indicate that you want to use the Add-In, and
Close the Customize dialog box.

7) You should notice the VisVim Toolbar with the Vim Icon.
Click the first item of the toolbar to get to the options dialog.

Compiling VisVim

Two Options:

1) Load the VisVim.mak file as a Workspace in Visual Studio and compile

2) Use the MSVC command line compiler:
vcvars32
nmake -f VisVim.mak

Using VisVim

The VisVim DLL exposes several functions to the user. These functions are
accessible using the toolbar or by assigning hotkeys to them (see below).
The following functions are visible on the toolbar (from left to right):

1. VisVim settings dialog
The settings you adjust here will be saved in the registry and
will be reloaded on program startup.

2. Enable Vim
Enables Vim as Visual Studio editor. Control will be switched to Vim when:
- Clicking a file in the file view
- Clicking a compiler error message line
- Using the 'File-Open' Dialog
- Showing the current source line when encountering a debugger breakpoint.
- Using File-New

3. Disable Vim
The internal Visual Studio editor will be used to edit files.

4. Toggle enable state
Toggles the enable state of VisVim. Use this function if you want to have

one button only to activate/deactivate Vim.

5. Load current file in Vim
Loads the file shown in the internal editor into Vim. Use this function if
you want the internal editor to stay active and just edit one file in Vim.
This command works always whether Vim is enabled as default editor or not.

You cannot use DevStudio's debugger commands from inside Vim, so you should
disable Vim before running the debugger.

You can customize the Vim toolbar itself or add the Vim buttons to other
toolbars.
To have fast access to the VisVim options dialog I suggest to create keyboard
shortcuts:

1) Choose
Tools
Customize...
Keyboard
2) Choose Category:AddIns and Commands:VisVim.
3) Choose 'Main' as editor, enter each hotkey and press the Assign button.
I suggest:
VisVimDialogCmd Alt+Shift+V
VisVimEnableCmd Alt+Shift+E
VisVimDisableCmd Alt+Shift+D
VisVimToggleCmd Alt+Shift+T
VisVimLoadCmd Alt+Shift+G
4) Close the dialog

Now a typical debugging example:

Using "Alt+Shift+d" you turn off Vim before starting the debugger.
After hitting the breakpoint you single step through your application
using the internal source code editor and examine variables.
When you stumble across the line with the null pointer
assignment, just press "Alt+Shift+g", and correct the error in Vim.
Save the file, press Alt+Tab to return to DevStudio and press F7 to compile.
That's it.

Troubleshooting
---

1. When opening a file in DevStudio the file is opened in the DevStudio
editor and immediately vanishes. No Vim shows up.
Cause: Probably you don't have the OLE-enabled Vim or you didn't
register it.
Explanation: VisVim is notified by DevStudio if an 'open document' event

occurs. It then closes the document in the internal editor
and tries to start Vim. If Vim isn't properly OLE-registered,
this won't work.
Workaround: Download and install the OLE-enable version of Vim and
execute "gvim -register".

2. Sometimes when clicking on a file, the file won't be opened by Vim but
instead the Visual Studio editor comes up.
Cause: The file was already loaded by the DevStudio editor.
Explanation: VisVim works by hooks exposed by Visual Studio.
Most of the functionality works from the OpenDocument hook.
If a document is already loaded in the Visual Studio editor,
no 'open document' event will be generated when clicking the
file in the file list.
Workaround: Close the document in Visual Studio first.

3. I can't get VisVim to work. Either the Vim toolbar does not appear at all
or weird crashes happen.
Cause: The Visual Studio installation is messed up.
Explanation: I can't give you one. Ask M$.
Workaround: Reinstall DevStudio (I know this is brute, but in some cases
it helped). There was one case where the service pack 1 had
to be installed, too.

4. If an instance of Vim is already running, VisVim will use that instance
and not start a new one.
Cause: This is proper OLE behaviour
Explanation: Some call it a bug, some a feature. That's just the way OLE
works.

5. When being in insert mode in Vim and selecting a file in Visual Studio,
the Vim command :e ... is inserted as text instead of being executed.
Cause: You probably know...
Explanation: The Vim OLE automation interface interprets the VisVim
commands as if they were typed in by the user.
So if you're in insert mode Vim considers it to be text.
I decided against sending an ESC before the command because
it may cause a beep or at least a screen flash when noeb is
set.
Workaround: Get used to press ESC before switching to DevStudio.

6. I'm tired of VisVim but I can't get rid of it. I can't delete it in
Tools-Customize-Add-Ins.
Cause: You can't delete an item you once added to the add-ins
list box.
Explanation: M$ just didn't put a 'delete' button in the dialog box.
Unfortunately there is no DEL key accellerator as well...
Workaround: You can't kill it, but you can knock it out:

1. Uncheck the check box in front of 'Vim Developer Studio
   Add-in'.
2. Close Visual Studio.
3. Delete VisVim.dll or move it somewhere it can't be found.
4. Run Visual Studio.
5. Tools -> Cursomize ->Add-ins and Macro-Files.
6. A message appears:
   ".../VisVim.dll" "This add-in no longer exists. It will
   no longer be displayed."

That's it!

Change history

1.0a to 1.0

- All settings in the VisVim dialog are remembered between DevStudio sessions
 by keeping them in the registry (HKEY_CURRENT_USER\Software\Vim\VisVim).
- Added an option to do a :cd before opening the file (having a file opened
 by clicking it but finding out to be still in C:\Windows\system when trying to
 open another file by ":e" can be annoying). Change directory can be
 done to the source file's directory or it's parent directory.
- Added some explanations to the error message for the CO_E_CLASSSTRING error
 ("Use OLE Vim and make sure to register...").

1.0 to 1.1a

- The VisVim toolbar button now shows the new Vim icon instead of the old one.
- Made some changes to the documentation, added the troubleshooting chapter
 and ToDo list.
- File-New-* now invokes Vim instead of the builtin editor if enabled.

1.1 to 1.1b

- Extended the VisVim toolbar to have multiple buttons instead of one.
- Moved the enable/disable commands from the settings dialog to the toolbar.
- Added the toggle enable/disable command
- Added the 'load current file' command.

1.1b to 1.2

No new features, just some fine tuning:

- Changed the GUID of the VisVim OLE interface to avoid conflicts with a
 version of VisEmacs or VisVile on the same computer (Guy Gascoigne)
- Fixed a bug caused by a bug in the Developer Studio add-in code generator
 (Clark Morgan)
- Fixed a memory leak (Clark Morgan)
- Added an option in the VisVim dialog to prepend ESC before the first command
 that is sent to Vim. This will avoid inserting the command as text when Vim
 is still in insert mode.
- An :update command is sent to Vim before any other command to update the
 current file if it is modified, or else the following :cd or :e command will fail.

1.2 to 1.3a

- Fixed a bug caused by a missing EnableModeless() function call in VimLoad().
 This seems to reduce VisVim crashing DevStudio on some systems (it
 occasionally still seems to happen, but it's more stable now).
 (Vince Negri)
- Added support for the new CTRL-\ CTRL-N command of Vim 5.4a.
 This prevents Vim from beeping when a VisVim command is executed an Vim is
 not in insert mode.

ToDo List

P1 is highest priority, P10 lowest

P9 Switching to DevStudio using ALT-TAB may get annoying. Would be nice to
  have the option to map ActivateApplication("Visual Studio") in Vim.
  Vim DLLs would solve that problem.

P8 Execute :tag command in Vim for word under cursor in DevStudio

P7 Controlling the Visual Studio Debugger from inside Vim
  See message above. Also a 'Debug' highligh group and a
  command to highlight a certain line would be necessary.

P6 Provide an option to open the current file in VisVim in
  Visual Studio editor
  Same as above message. A kind of two way OLE automation would have to be
  established between VisVim and Vim. Also a 'Debug' highlight group and a
  command to highlight a certain line would be necessary.

Known Problems

- Occasional memory corruptions in DevStudio may appear on some systems.
 Reinstalling DevStudio helped in some cases.
 The cause of these crashes is unclear; there is no way to debug this.
 Recompiling VisVim with DevStudio SP3 didn't help.
 I assume it's a problem deep inside the DevStudio add-in OLE interfaces.
 This will hopefully be fixed with DevStudio 6.

Have fun!

Heiko Erhardt
Heiko.Erhardt@munich.netsurf.de

uganda.txt For Vim version 7.2. Last change: 2008 Jun 21

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are
encouraged to make a donation for needy children in Uganda. Please see |kcc|
below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for
features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see
|manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
  that they must include this license text. You can also distribute
  unmodified parts of Vim, likewise unrestricted except that they must
  include this license text. You are also allowed to include executables
  that you made from the unmodified Vim sources, plus your own usage
  examples and Vim scripts.

II) It is allowed to distribute a modified (or extended) version of Vim,

including executables and/or source code, when the following four
conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
  a) If you make changes to Vim yourself, you must clearly describe in
the distribution how to contact you. When the maintainer asks you
(in any way) for a copy of the modified Vim you distributed, you
must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to
include your changes in the official version of Vim. What the
maintainer will do with your changes and under what license they
will be distributed is negotiable. If there has been no negotiation
then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
changes it will be announced in appropriate places (most likely
vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.
  b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.
  c) Provide all the changes, including source code, with every copy of
the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict others from
making their own changes to the official version of Vim.
  d) When you have a modified Vim which includes changes as mentioned
under c), you can distribute it without the source code for the
changes if the following three conditions are met:
- The license that applies to the changes permits you to distribute
  the changes to the Vim maintainer without fee or restriction, and
  permits the Vim maintainer to include the changes in the official
  version of Vim without fee or restriction.
- You keep the changes for at least three years after last
  distributing the corresponding modified Vim. When the maintainer
  or someone who you distributed the modified Vim to asks you (in
  any way) for the changes within this period, you must make them
  available to him.
- You clearly describe in the distribution how to contact you. This
  contact information must remain valid for at least three years
  after last distributing the corresponding modified Vim, or as long
  as possible.
  e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.
3) A message must be added, at least in the output of the ":version"

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is able to see that it was modified. When distributing as mentioned
under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.
4) The contact information as required under 2)a) and 2)d) must not be
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maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

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with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
further distribution to the GNU GPL. Also when you didn't actually change
anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
contact information with the "--with-modified-by" configure argument or the
MODIFIED_BY define.

==
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps.

When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship the amounts are very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Further more, the centre is co-sponsored and inspected by World Vision, Save the Children Fund and International Child Care Fund. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself in 1996, 1998, 2000, 2001 and 2003. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
  Kibaale Children's Centre
  p.o. box 1658
  Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
  Sending a check to the Nehemiah Group Outreach Society (NGOS)
  is no longer possible, unfortunately. We are looking for
  another way to get you an IRS tax receipt.
  For sponsoring a child contact KCF in Canada (see below). US
  checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They
  take care of the Canadian sponsors for the children in
  Kibaale. KCF forwards 100% of the money to the project in
  Uganda. You can send them a one time donation directly.
  Please send me a note so that I know what has been donated
  because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353
If you make a donation to Kibaale Children's Fund (KCF) you
will receive a tax receipt which can be submitted with your
tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Venlo.
This will allow for tax deduction if you live in Holland.
Postbank, nr. 4548774

Germany: It is possible to make donations that allow for a tax return.
Check the ICCF web site for the latest information:
http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any
country, mostly from the post office. Use this name (which is
in my passport): "Abraham Moolenaar". Use Euro for the
currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form
that you can use for this. See "Others" below for the swift
code and IBAN number.
Any other method should work. Ask for information about
sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is
the most widely used Internet based payment system. It's
really simple to use. Use this link to find more info:
https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q
The e-mail address for sending the money to is:
Bram@iccf-holland.org
For amounts above 400 Euro ($500) sending a check is
preferred.

Others: Transfer to one of these accounts if possible:
Postbank, account 4548774
Swift code: INGB NL 2A
IBAN: NL47 PSTB 0004 5487 74
under the name "stichting ICCF Holland", Venlo
If that doesn't work:
Rabobank Venlo, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Venlo
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller

amounts for foreign check, sorry)

Address to send checks to:
stichting ICCF Holland
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

```
vim:tw=78:ts=8:ft=help:norl:
" netrw.vim: Handles file transfer and remote directory listing across
"           AUTOLOAD SECTION
" Date:  Oct 23, 2008
" Version: 134
" Maintainer: Charles E Campbell, Jr <NdrOchip@ScampbellPfamily.AbizM-NOSPAM>
" GetLatestVimScripts: 1075 1 :AutoInstall: netrw.vim
" Copyright:    Copyright (C) 1999-2008 Charles E. Campbell, Jr. {{{1
"             Permission is hereby granted to use and distribute this code,
"             with or without modifications, provided that this copyright
"             notice is copied with it. Like anything else that's free,
"             netrw.vim, netrwPlugin.vim, and netrwSettings.vim are provided
"             *as is* and come with no warranty of any kind, either
"             expressed or implied. By using this plugin, you agree that
"             in no event will the copyright holder be liable for any damages
"             resulting from the use of this software.
"redraw!|call DechoSep()|call inputsave()|call input("Press <cr> to continue")|call inputrestore()
"
"  But be doers of the Word, and not only hearers, deluding your own selves {{{1
"  (James 1:22 RSV)
" =-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-=-
" Load Once: {{{1
if &cp || exists("g:loaded_netrw")
 finish
endif
let g:loaded_netrw = "v134"
if v:version < 702
echohl WarningMsg
echo "***warning*** this version of netrw needs vim 7.2"
echohl Normal
finish
endif
if !exists("s:NOTE")
let s:NOTE    = 0
let s:WARNING = 1
let s:ERROR   = 2
endif
```

```
" sanity checks
if v:version < 700
call netrw#ErrorMsg(s:WARNING,"you need vim version 7.0 or later for version ".g:loaded_netrw." of netrw",1)
finish
endif

let s:keepcpo= &cpo
setlocal cpo&vim
"DechoTabOn
"call Decho("doing autoload/netrw.vim version ".g:loaded_netrw)

" ====================
"  Netrw Variables: {{{1
" ====================

" --------------------------------------------------------------------
"  Netrw Constants: {{{2
if !exists("g:netrw_dirhist_cnt")
let g:netrw_dirhist_cnt= 0
endif
if !exists("s:LONGLIST")
let s:THINLIST = 0
let s:LONGLIST = 1
let s:WIDELIST = 2
let s:TREELIST = 3
let s:MAXLIST  = 4
endif

" --------------------------------------------------------------------
" Default values for netrw's global protocol variables {{{2
if !exists("g:netrw_dav_cmd")
if executable("cadaver")
 let g:netrw_dav_cmd = "cadaver"
elseif executable("curl")
 let g:netrw_dav_cmd = "curl"
else
 let g:netrw_dav_cmd   = ""
endif
endif
if !exists("g:netrw_fetch_cmd")
if executable("fetch")
 let g:netrw_fetch_cmd = "fetch -o"
else
 let g:netrw_fetch_cmd = ""
endif
endif
if !exists("g:netrw_ftp_cmd")
```

```
 let g:netrw_ftp_cmd = "ftp"
endif
if !exists("g:netrw_http_cmd")
if executable("elinks")
 let g:netrw_http_cmd = "elinks"
 if !exists("g:netrw_http_xcmd")
  let g:netrw_http_xcmd= "-dump >"
 endif
elseif executable("links")
 let g:netrw_http_cmd = "links"
 if !exists("g:netrw_http_xcmd")
  let g:netrw_http_xcmd= "-dump >"
 endif
elseif executable("curl")
 let g:netrw_http_cmd = "curl"
 if !exists("g:netrw_http_xcmd")
  let g:netrw_http_xcmd= "-o"
 endif
elseif executable("wget")
 let g:netrw_http_cmd = "wget"
 if !exists("g:netrw_http_xcmd")
  let g:netrw_http_xcmd= "-q -O"
 endif
elseif executable("fetch")
 let g:netrw_http_cmd = "fetch"
 if !exists("g:netrw_http_xcmd")
  let g:netrw_http_xcmd= "-o"
 endif
else
 let g:netrw_http_cmd = ""
endif
endif
if !exists("g:netrw_rcp_cmd")
 let g:netrw_rcp_cmd = "rcp"
endif
if !exists("g:netrw_rsync_cmd")
 let g:netrw_rsync_cmd = "rsync"
endif
if !exists("g:netrw_scp_cmd")
 let g:netrw_scp_cmd = "scp -q"
endif
if !exists("g:netrw_sftp_cmd")
 let g:netrw_sftp_cmd = "sftp"
endif
if !exists("g:netrw_ssh_cmd")
let g:netrw_ssh_cmd= "ssh"
endif
```

```
if (has("win32") || has("win95") || has("win64") || has("win16"))
 \ && exists("g:netrw_use_nt_rcp")
 \ && g:netrw_use_nt_rcp
 \ && executable( $SystemRoot .'/system32/rcp.exe')
let s:netrw_has_nt_rcp = 1
let s:netrw_rcpmode    = '-b'
else
let s:netrw_has_nt_rcp = 0
let s:netrw_rcpmode    = ''
endif

" ---------------------------------------------------------------------
" Default values for netrw's global variables {{{2
" Cygwin Detection ------- {{{3
if !exists("g:netrw_cygwin")
if has("win32") || has("win95") || has("win64") || has("win16")
 if &shell =~ '\%(\<bash\>\|\<zsh\>\)\%(\.exe\)\=$'
  let g:netrw_cygwin= 1
 else
  let g:netrw_cygwin= 0
 endif
else
 let g:netrw_cygwin= 0
endif
endif
" Default values - a-c ---------- {{{3
if !exists("g:netrw_alto")
let g:netrw_alto= &sb
endif
if !exists("g:netrw_altv")
let g:netrw_altv= &spr
endif
if !exists("g:netrw_browse_split")
let g:netrw_browse_split= 0
endif
if !exists("g:netrw_chgwin")
let g:netrw_chgwin    = -1
endif
if !exists("g:netrw_compress")
let g:netrw_compress= "gzip"
endif
if !exists("g:netrw_ctags")
let g:netrw_ctags= "ctags"
endif
if !exists("g:netrw_cursorline")
let g:netrw_cursorline= 1
let s:netrw_usercul   = &cursorline
let s:netrw_usercuc   = &cursorcolumn
```

```
endif
" Default values - d-g ---------- {{{3
if !exists("g:netrw_dirhist_cnt")
let g:netrw_dirhist_cnt= 0
endif
if !exists("g:netrw_decompress")
let g:netrw_decompress= { ".gz" : "gunzip" , ".bz2" : "bunzip2" , ".zip" : "unzip" , ".tar" : "tar -xf"}
endif
if !exists("g:netrw_dirhistmax")
let g:netrw_dirhistmax= 10
endif
if !exists("g:netrw_fastbrowse")
let g:netrw_fastbrowse= 1
endif
if !exists("g:netrw_ftp_browse_reject")
let g:netrw_ftp_browse_reject='^total\s\+\d\+$\|^Trying\s\+\d\+.*$\|^KERBEROS_V\d rejected\|^Security
extensions not\|No such file\|: connect to address [0-9a-fA-F:]*: No route to host$'
endif
if !exists("g:netrw_ftp_list_cmd")
if has("unix") || (exists("g:netrw_cygwin") && g:netrw_cygwin)
 let g:netrw_ftp_list_cmd     = "ls -lF"
 let g:netrw_ftp_timelist_cmd = "ls -tlF"
 let g:netrw_ftp_sizelist_cmd = "ls -slF"
else
 let g:netrw_ftp_list_cmd     = "dir"
 let g:netrw_ftp_timelist_cmd = "dir"
 let g:netrw_ftp_sizelist_cmd = "dir"
endif
endif
if !exists("g:netrw_ftpmode")
let g:netrw_ftpmode= "binary"
endif
" Default values - h-lh ---------- {{{3
if !exists("g:netrw_hide")
let g:netrw_hide= 1
endif
if !exists("g:netrw_ignorenetrc")
if &shell =~ '\c\<\%(cmd\|4nt\)\.exe$'
 let g:netrw_ignorenetrc= 1
else
 let g:netrw_ignorenetrc= 0
endif
endif
if !exists("g:netrw_keepdir")
let g:netrw_keepdir= 1
endif
if !exists("g:netrw_list_cmd")
if g:netrw_scp_cmd =~ '^pscp' && executable("pscp")
```

```
 " provide a 'pscp' listing command
 if (has("win32") || has("win95") || has("win64") || has("win16")) && filereadable("c:\\private.ppk")
  let g:netrw_scp_cmd ="pscp -i C:\\private.ppk"
 endif
 let g:netrw_list_cmd= g:netrw_scp_cmd." -ls USEPORT HOSTNAME:"
elseif executable(g:netrw_ssh_cmd)
 " provide a default listing command
 let g:netrw_list_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME ls -FLa"
else
"  call Decho(g:netrw_ssh_cmd." is not executable")
 let g:netrw_list_cmd= ""
endif
endif
if !exists("g:netrw_list_hide")
let g:netrw_list_hide= ""
endif
" Default values - lh-lz ---------- {{{3
if !exists("g:netrw_localcopycmd")
if has("win32") || has("win95") || has("win64") || has("win16")
 if g:netrw_cygwin
  let g:netrw_localcopycmd= "cp"
 else
  let g:netrw_localcopycmd= "copy"
 endif
elseif has("unix") || has("macunix")
 let g:netrw_localcopycmd= "cp"
else
 let g:netrw_localcopycmd= ""
endif
endif
if !exists("g:netrw_local_mkdir")
let g:netrw_local_mkdir= "mkdir"
endif
if !exists("g:netrw_localmovecmd")
if has("win32") || has("win95") || has("win64") || has("win16")
 if g:netrw_cygwin
  let g:netrw_localmovecmd= "mv"
 else
  let g:netrw_localmovecmd= "move"
 endif
elseif has("unix") || has("macunix")
 let g:netrw_localmovecmd= "mv"
else
 let g:netrw_localmovecmd= ""
endif
endif
if !exists("g:netrw_local_rmdir")
let g:netrw_local_rmdir= "rmdir"
```

```
endif
if !exists("g:netrw_liststyle")
let g:netrw_liststyle= s:THINLIST
endif
if g:netrw_liststyle < 0 || g:netrw_liststyle >= s:MAXLIST
" sanity check
let g:netrw_liststyle= s:THINLIST
endif
if g:netrw_liststyle == s:LONGLIST && g:netrw_scp_cmd !~ '^pscp'
let g:netrw_list_cmd= g:netrw_list_cmd." -l"
endif
" Default values - m-r ---------- {{{3
if !exists("g:netrw_markfileesc")
let g:netrw_markfileesc= '*./[\~'
endif
if !exists("g:netrw_maxfilenamelen")
let g:netrw_maxfilenamelen= 32
endif
if !exists("g:netrw_menu")
let g:netrw_menu= 1
endif
if !exists("g:netrw_mkdir_cmd")
let g:netrw_mkdir_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME mkdir"
endif
if !exists("g:netrw_mousemaps")
if exists("&mouse") && &mouse =~ '[anh]'
 let g:netrw_mousemaps= 1
else
 let g:netrw_mousemaps= 0
endif
endif
if !exists("g:netrw_retmap")
let g:netrw_retmap= 0
endif
if !exists("g:netrw_preview")
let g:netrw_preview= 0
endif
if !exists("g:netrw_scpport")
let g:netrw_scpport= "-P"
endif
if !exists("g:netrw_sshport")
let g:netrw_sshport= "-p"
endif
if !exists("g:netrw_rename_cmd")
let g:netrw_rename_cmd= g:netrw_ssh_cmd." USEPORT HOSTNAME mv"
endif
if !exists("g:netrw_rm_cmd")
let g:netrw_rm_cmd    = g:netrw_ssh_cmd." USEPORT HOSTNAME rm"
```

```
endif
if !exists("g:netrw_rmdir_cmd")
let g:netrw_rmdir_cmd = g:netrw_ssh_cmd." USEPORT HOSTNAME rmdir"
endif
if !exists("g:netrw_rmf_cmd")
let g:netrw_rmf_cmd    = g:netrw_ssh_cmd." USEPORT HOSTNAME rm -f"
endif
" Default values - s ---------- {{{3
" set up shell quoting character
if exists("g:netrw_silent") && g:netrw_silent != 0
let s:netrw_silentxfer= "silent "
else
let s:netrw_silentxfer= ""
endif
if !exists("g:netrw_sort_by")
" alternatives: date size
let g:netrw_sort_by= "name"
endif
if !exists("g:netrw_sort_options")
let g:netrw_sort_options= ""
endif
if !exists("g:netrw_sort_direction")
" alternative: reverse  (z y x ...)
let g:netrw_sort_direction= "normal"
endif
if !exists("g:netrw_sort_sequence")
let g:netrw_sort_sequence= '[\/]$,\.h$,\.c$,\.cpp$,*,\.o$,\.obj$,\.info$,\.swp$,\.bak$,\~$'
endif
if !exists("g:netrw_special_syntax")
let g:netrw_special_syntax= 0
endif
if !exists("g:netrw_ssh_browse_reject")
 let g:netrw_ssh_browse_reject='^total\s\+\d\+$'
endif
if !has("patch192")
if !exists("g:netrw_use_noswf")
 let g:netrw_use_noswf= 1
endif
else
 let g:netrw_use_noswf= 0
endif
" Default values - t-w ---------- {{{3
if !exists("g:netrw_timefmt")
let g:netrw_timefmt= "%c"
endif
if !exists("g:netrw_xstrlen")
let g:netrw_xstrlen= 1
endif
```

```
if !exists("g:NetrwTopLvlMenu")
let g:NetrwTopLvlMenu= "Netrw."
endif
if !exists("g:netrw_use_errorwindow")
let g:netrw_use_errorwindow= 1
endif
if !exists("g:netrw_win95ftp")
let g:netrw_win95ftp= 1
endif
if !exists("g:netrw_winsize")
let g:netrw_winsize= ""
endif
" ---------------------------------------------------------------------
" Default values for netrw's script variables: {{{2
if !exists("g:netrw_fname_escape")
let g:netrw_fname_escape= ' ?&;%'
endif
if !exists("g:netrw_glob_escape")
 let g:netrw_glob_escape= '[]*?'{~$'
endif
if !exists("g:netrw_tmpfile_escape")
let g:netrw_tmpfile_escape= ' &;'
endif
let s:netrw_map_escape = "<|\n\r\\\<C-V>\""

" BufEnter event ignored by decho when following variable is true
"  Has a side effect that doau BufReadPost doesn't work, so
"  files read by network transfer aren't appropriately highlighted.
"let g:decho_bufenter = 1 "Decho

" ==============================
"  Netrw Utility Functions: {{{1
" ==============================

" ---------------------------------------------------------------------
" s:NetrwOptionSave: save options and set to "standard" form {{{2
"  06/08/07 : removed call to NetrwSafeOptions(), either placed
"             immediately after NetrwOptionSave() calls in NetRead
"             and NetWrite, or after the s:NetrwEnew() call in
"             NetrwBrowse.
"             vt: normally its "w:" or "s:" (a variable type)
fun! s:NetrwOptionSave(vt)
"  call Dfunc("s:NetrwOptionSave(vt<".a:vt.">) win#".winnr()." buf#".bufnr("%")."<".bufname(bufnr("%")).">")

"  call Decho(a:vt."netrw_optionsave".(exists("{a:vt}netrw_optionsave")? ("=".{a:vt}netrw_optionsave) : " doesn't
exist"))
 if !exists("{a:vt}netrw_optionsave")
  let {a:vt}netrw_optionsave= 1
```

```
 else
"   call Dret("s:NetrwOptionSave : options already saved")
 return
 endif
"  call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))

 " Save current settings and current directory
 let s:yykeep          = @@
 if exists("&l:acd")
  let {a:vt}netrw_acdkeep  = &l:acd
 endif
 let {a:vt}netrw_aikeep    = &l:ai
 let {a:vt}netrw_awkeep    = &l:aw
 let {a:vt}netrw_cikeep    = &l:ci
 let {a:vt}netrw_cinkeep   = &l:cin
 let {a:vt}netrw_cinokeep  = &l:cino
 let {a:vt}netrw_comkeep   = &l:com
 let {a:vt}netrw_cpokeep   = &l:cpo
 if g:netrw_keepdir
  let {a:vt}netrw_dirkeep  = getcwd()
 endif
 let {a:vt}netrw_fokeep    = &l:fo           " formatoptions
 let {a:vt}netrw_gdkeep    = &l:gd           " gdefault
 let {a:vt}netrw_hidkeep   = &l:hidden
 let {a:vt}netrw_magickeep = &l:magic
 let {a:vt}netrw_repkeep   = &l:report
 let {a:vt}netrw_spellkeep = &l:spell
 let {a:vt}netrw_twkeep    = &l:tw           " textwidth
 let {a:vt}netrw_wigkeep   = &l:wig          " wildignore
 if has("win32") && !has("win95")
  let {a:vt}netrw_swfkeep  = &l:swf          " swapfile
 endif
 if &go =~ 'a' | silent! let {a:vt}netrw_regstar = @* | endif
 silent! let {a:vt}netrw_regslash= @/

"  call Dret("s:NetrwOptionSave : win#".winnr()." buf#".bufnr("%"))
endfun

" ---------------------------------------------------------------------
" s:NetrwOptionRestore: restore options {{{2
fun! s:NetrwOptionRestore(vt)
"  call Dfunc("s:NetrwOptionRestore(vt<".a:vt.">) win#".winnr()." buf#".bufnr("%"))
 if !exists("{a:vt}netrw_optionsave")
"   call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"   call Dret("s:NetrwOptionRestore : ".a:vt."netrw_optionsave doesn't exist")
  return
 endif
 unlet {a:vt}netrw_optionsave
```

```
 if exists("&acd")
  if exists("{a:vt}netrw_acdkeep")
"    call Decho("g:netrw_keepdir=".g:netrw_keepdir.": getcwd<".getcwd().">  acd=".&acd)
   let curdir = getcwd()
   let &l:acd = {a:vt}netrw_acdkeep
   unlet {a:vt}netrw_acdkeep
   if &l:acd
"     call Decho("exe keepjumps lcd ".fnameescape(curdir))  " NOTE: was g:netrw_fname_escape for some reason
    try
     if !exists("&l:acd") && !&l:acd
      exe 'keepjumps lcd '.fnameescape(curdir)
     endif
    catch /^Vim\%((\a\+)\)\=:E472/
     call netrw#ErrorMsg(s:ERROR,"unable to change directory to <".curdir."> (permissions?)",61)
    endtry
   endif
  endif
 endif
 if exists("{a:vt}netrw_aikeep")   |let &l:ai     = {a:vt}netrw_aikeep      |unlet {a:vt}netrw_aikeep   |endif
 if exists("{a:vt}netrw_awkeep")   |let &l:aw     = {a:vt}netrw_awkeep      |unlet {a:vt}netrw_awkeep   |endif
 if exists("{a:vt}netrw_cikeep")   |let &l:ci     = {a:vt}netrw_cikeep      |unlet {a:vt}netrw_cikeep   |endif
 if exists("{a:vt}netrw_cinkeep")  |let &l:cin    = {a:vt}netrw_cinkeep     |unlet {a:vt}netrw_cinkeep  |endif
 if exists("{a:vt}netrw_cinokeep") |let &l:cino   = {a:vt}netrw_cinokeep    |unlet {a:vt}netrw_cinokeep |endif
 if exists("{a:vt}netrw_comkeep")  |let &l:com    = {a:vt}netrw_comkeep     |unlet {a:vt}netrw_comkeep  |endif
 if exists("{a:vt}netrw_cpokeep")  |let &l:cpo    = {a:vt}netrw_cpokeep     |unlet {a:vt}netrw_cpokeep  |endif
 if exists("{a:vt}netrw_dirkeep") && isdirectory({a:vt}netrw_dirkeep) && g:netrw_keepdir
  let dirkeep = substitute({a:vt}netrw_dirkeep,'\\','/','g')
  if exists("{a:vt}netrw_dirkeep")  |exe "keepjumps lcd ".fnameescape(dirkeep)|unlet {a:vt}netrw_dirkeep  |endif
 endif
 if exists("{a:vt}netrw_fokeep")   |let &l:fo     = {a:vt}netrw_fokeep      |unlet {a:vt}netrw_fokeep   |endif
 if exists("{a:vt}netrw_gdkeep")   |let &l:gd     = {a:vt}netrw_gdkeep      |unlet {a:vt}netrw_gdkeep   |endif
 if exists("{a:vt}netrw_hidkeep")  |let &l:hidden = {a:vt}netrw_hidkeep     |unlet {a:vt}netrw_hidkeep  |endif
 if exists("{a:vt}netrw_magic")    |let &l:magic  = {a:vt}netrw_magic       |unlet {a:vt}netrw_magic    |endif
 if exists("{a:vt}netrw_repkeep")  |let &l:report = {a:vt}netrw_repkeep     |unlet {a:vt}netrw_repkeep  |endif
 if exists("{a:vt}netrw_spellkeep")|let &l:spell  = {a:vt}netrw_spellkeep   |unlet {a:vt}netrw_spellkeep|endif
 if exists("{a:vt}netrw_twkeep")   |let &l:tw     = {a:vt}netrw_twkeep      |unlet {a:vt}netrw_twkeep   |endif
 if exists("{a:vt}netrw_wigkeep")  |let &l:wig    = {a:vt}netrw_wigkeep     |unlet {a:vt}netrw_wigkeep  |endif
 if exists("s:yykeep")             |let  @@       = s:yykeep                |unlet s:yykeep             |endif
 if exists("{a:vt}netrw_swfkeep")
  if &directory == ""
   " user hasn't specified a swapfile directory;
   " netrw will temporarily set the swapfile directory
   " to the current directory as returned by getcwd().
   let &l:directory   = getcwd()
   silent! let &l:swf = {a:vt}netrw_swfkeep
   setlocal directory=
   unlet {a:vt}netrw_swfkeep
```

```
 elseif &l:swf != {a:vt}netrw_swfkeep
  " following line causes a Press ENTER in windows -- can't seem to work around it!!!
  silent! let &l:swf= {a:vt}netrw_swfkeep
  unlet {a:vt}netrw_swfkeep
 endif
endif
if exists("{a:vt}netrw_regstar") |silent! let @*= {a:vt}netrw_regstar |unlet {a:vt}netrw_regstar |endif
if exists("{a:vt}netrw_regslash")|silent! let @/= {a:vt}netrw_regslash|unlet {a:vt}netrw_regslash|endif

"  call Decho("g:netrw_keepdir=".g:netrw_keepdir.": getcwd<".getcwd().."> acd=".&acd)
"  call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))
"  call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"  call Dret("s:NetrwOptionRestore : win#".winnr()." buf#".bufnr("%"))
endfun

" ---------------------------------------------------------------------
" s:NetrwSafeOptions: sets options to help netrw do its job {{{2
fun! s:NetrwSafeOptions()
"  call Dfunc("s:NetrwSafeOptions() win#".winnr()." buf#".bufnr("%")."<".bufname(bufnr("%")).">")
"  call Decho("window's ft=".&ft)
 setlocal cino=
 setlocal com=
 setlocal cpo-=aA
 if exists("&acd") | setlocal noacd | endif
 setlocal nocin noai noci magic nospell nohid wig= noaw
 setlocal fo=nroql2
 setlocal tw=0
 setlocal report=10000
 setlocal isk+=@ isk+=* isk+=/
 if g:netrw_use_noswf && has("win32") && !has("win95")
  setlocal noswf
 endif
"  call Decho("fo=".&fo.(exists("&acd")? " acd=".&acd : " acd doesn't exist"))
"  call Dret("s:NetrwSafeOptions")
endfun

" ---------------------------------------------------------------------
" netrw#NetrwClean: remove netrw {{{2
" supports :NetrwClean  -- remove netrw from first directory on runtimepath
"          :NetrwClean! -- remove netrw from all directories on runtimepath
fun! netrw#NetrwClean(sys)
"  call Dfunc("netrw#NetrwClean(sys=".a:sys.")")

 if a:sys
  let choice= confirm("Remove personal and system copies of netrw?","&Yes\n&No")
 else
  let choice= confirm("Remove personal copy of netrw?","&Yes\n&No")
 endif
```

```
"  call Decho("choice=".choice)
 let diddel= 0
 let diddir= ""

 if choice == 1
  for dir in split(&rtp,',')
   if filereadable(dir."/plugin/netrwPlugin.vim")
"     call Decho("removing netrw-related files from ".dir)
    if s:NetrwDelete(dir."/plugin/netrwPlugin.vim")        |call netrw#ErrorMsg(1,"unable to remove
".dir."/plugin/netrwPlugin.vim",55)        |endif
    if s:NetrwDelete(dir."/autoload/netrwFileHandlers.vim")|call netrw#ErrorMsg(1,"unable to remove
".dir."/autoload/netrwFileHandlers.vim",55)|endif
    if s:NetrwDelete(dir."/autoload/netrwSettings.vim")    |call netrw#ErrorMsg(1,"unable to remove
".dir."/autoload/netrwSettings.vim",55)    |endif
    if s:NetrwDelete(dir."/autoload/netrw.vim")            |call netrw#ErrorMsg(1,"unable to remove
".dir."/autoload/netrw.vim",55)            |endif
    if s:NetrwDelete(dir."/syntax/netrw.vim")              |call netrw#ErrorMsg(1,"unable to remove
".dir."/syntax/netrw.vim",55)              |endif
    if s:NetrwDelete(dir."/syntax/netrwlist.vim")          |call netrw#ErrorMsg(1,"unable to remove
".dir."/syntax/netrwlist.vim",55)          |endif
    let diddir= dir
    let diddel= diddel + 1
    if !a:sys|break|endif
   endif
  endfor
 endif

  echohl WarningMsg
 if diddel == 0
  echomsg "netrw is either not installed or not removable"
 elseif diddel == 1
  echomsg "removed one copy of netrw from <".diddir.">"
 else
  echomsg "removed ".diddel." copies of netrw"
 endif
  echohl None

"  call Dret("netrw#NetrwClean")
endfun

" ---------------------------------------------------------------------
"  Netrw Transfer Functions: {{{1
" ===============================

" ---------------------------------------------------------------------
" netrw#NetRead: responsible for reading a file over the net {{{2
"   mode: =0 read remote file and insert before current line
"         =1 read remote file and insert after current line
```

```
"         =2 replace with remote file
"         =3 obtain file, but leave in temporary format
fun! netrw#NetRead(mode,...)
"  call Dfunc("netrw#NetRead(mode=".a:mode.",...) a:0=".a:0." ".g:loaded_netrw)

 " save options {{{3
 call s:NetrwOptionSave("w:")
 call s:NetrwSafeOptions()

 " interpret mode into a readcmd {{{3
 if     a:mode == 0 " read remote file before current line
  let readcmd = "0r"
 elseif a:mode == 1 " read file after current line
  let readcmd = "r"
 elseif a:mode == 2 " replace with remote file
  let readcmd = "%r"
 elseif a:mode == 3 " skip read of file (leave as temporary)
  let readcmd = "t"
 else
  exe a:mode
  let readcmd = "r"
 endif
 let ichoice = (a:0 == 0)? 0 : 1
"  call Decho("readcmd<".readcmd."> ichoice=".ichoice)

 " Get Temporary Filename {{{3
 let tmpfile= s:GetTempfile("")
 if tmpfile == ""
"   call Dret("netrw#NetRead : unable to get a tempfile!")
  return
 endif

 while ichoice <= a:0

  " attempt to repeat with previous host-file-etc
  if exists("b:netrw_lastfile") && a:0 == 0
"    call Decho("using b:netrw_lastfile<" . b:netrw_lastfile . ">")
   let choice = b:netrw_lastfile
   let ichoice= ichoice + 1

  else
   exe "let choice= a:" . ichoice
"    call Decho("no lastfile: choice<" . choice . ">")

   if match(choice,"?") == 0
    " give help
    echomsg 'NetRead Usage:'
    echomsg ':Nread machine:path                    uses rcp'
```

```
   echomsg ':Nread "machine path"                    uses ftp   with <.netrc>'
   echomsg ':Nread "machine id password path"          uses ftp'
   echomsg ':Nread dav://machine[:port]/path           uses cadaver'
   echomsg ':Nread fetch://machine/path               uses fetch'
   echomsg ':Nread ftp://[user@]machine[:port]/path    uses ftp   autodetects <.netrc>'
   echomsg ':Nread http://[user@]machine/path          uses http  wget'
   echomsg ':Nread rcp://[user@]machine/path           uses rcp'
   echomsg ':Nread rsync://machine[:port]/path         uses rsync'
   echomsg ':Nread scp://[user@]machine[[:#]port]/path  uses scp'
   echomsg ':Nread sftp://[user@]machine[[:#]port]/path uses sftp'
   sleep 4
   break

  elseif match(choice,'^"') != -1
   " Reconstruct Choice if choice starts with ""
"    call Decho("reconstructing choice")
   if match(choice,'"$') != -1
    " case "..."
    let choice=strpart(choice,1,strlen(choice)-2)
   else
     "  case "... ... ..."
    let choice      = strpart(choice,1,strlen(choice)-1)
    let wholechoice = ""

    while match(choice,'"$') == -1
     let wholechoice = wholechoice . " " . choice
     let ichoice     = ichoice + 1
     if ichoice > a:0
      if !exists("g:netrw_quiet")
 call netrw#ErrorMsg(s:ERROR,"Unbalanced string in filename '". wholechoice ."'",3)
 endif
"       call Dret("netrw#NetRead :2 getcwd<".getcwd().">")
      return
     endif
     let choice= a:{ichoice}
    endwhile
    let choice= strpart(wholechoice,1,strlen(wholechoice)-1) . " " . strpart(choice,0,strlen(choice)-1)
   endif
  endif
 endif

"   call Decho("choice<" . choice . ">")
 let ichoice= ichoice + 1

 " Determine method of read (ftp, rcp, etc) {{{3
 call s:NetrwMethod(choice)
 if !exists("b:netrw_method") || b:netrw_method < 0
"    call Dfunc("netrw#NetRead : unsupported method")
```

```
 return
endif
let tmpfile= s:GetTempfile(b:netrw_fname) " apply correct suffix

" Check if NetrwBrowse() should be handling this request
"  call Decho("checking if NetrwBrowse() should handle choice<".choice."> with
netrw_list_cmd<".g:netrw_list_cmd.">")
if choice =~ "^.*[\/]$" && b:netrw_method != 5 && choice !~ '^http://'
"   call Decho("yes, choice matches '^.*[\/]$'")
 keepjumps call s:NetrwBrowse(0,choice)
"   call Dret("netrw#NetRead :3 getcwd<".getcwd().">")
 return
endif

" ============
" Perform Protocol-Based Read {{{3
" ==========================
if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1
 echo "(netrw) Processing your read request..."
endif

"......................................
" rcp:  NetRead Method #1 {{{3
if  b:netrw_method == 1 " read with rcp
"   call Decho("read via rcp (method #1)")
" ER: nothing done with g:netrw_uid yet?
" ER: on Win2K" rcp machine[.user]:file tmpfile
" ER: if machine contains '.' adding .user is required (use $USERNAME)
" ER: the tmpfile is full path: rcp sees C:\... as host C
if s:netrw_has_nt_rcp == 1
 if exists("g:netrw_uid") && ( g:netrw_uid != "" )
  let uid_machine = g:netrw_machine .'.'. g:netrw_uid
 else
  " Any way needed it machine contains a '.'
  let uid_machine = g:netrw_machine .'.'. $USERNAME
 endif
else
 if exists("g:netrw_uid") && ( g:netrw_uid != "" )
  let uid_machine = g:netrw_uid .'@'. g:netrw_machine
 else
  let uid_machine = g:netrw_machine
 endif
endif
"  call Decho("executing: !".g:netrw_rcp_cmd." ".s:netrw_rcpmode."
".shellescape(uid_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1))
 exe s:netrw_silentxfer."!".g:netrw_rcp_cmd." ".s:netrw_rcpmode."
".shellescape(uid_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1)
 let result          = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
```

```
 let b:netrw_lastfile = choice

 "-----------------------------------
 " ftp + <.netrc>:  NetRead Method #2 {{{3
 elseif b:netrw_method  == 2  " read with ftp + <.netrc>
"     call Decho("read via ftp+.netrc (method #2)")
    let netrw_fname= b:netrw_fname
    call s:SaveBufVars()|new|call s:RestoreBufVars()
    let filtbuf= bufnr("%")
    setlocal ff=unix
    put =g:netrw_ftpmode
"     call Decho("filter input: ".getline(line("$")))
    if exists("g:netrw_ftpextracmd")
     put =g:netrw_ftpextracmd
"      call Decho("filter input: ".getline(line("$")))
    endif
    call setline(line("$")+1,'get "'.netrw_fname.'" '.tmpfile)
"     call Decho("filter input: ".getline(line("$")))
    if exists("g:netrw_port") && g:netrw_port != ""
"      call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine." ".g:netrw_port,1))
     exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine." ".g:netrw_port,1)
    else
"      call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
     exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
    endif
    " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
    if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
     let debugkeep = &debug
     setlocal debug=msg
     call netrw#ErrorMsg(s:ERROR,getline(1),4)
     let &debug    = debugkeep
    endif
    call s:SaveBufVars()
    bd!
    if bufname("%") == "" && getline("$") == "" && line('$') == 1
     " needed when one sources a file in a nolbl setting window via ftp
     q!
    endif
    call s:RestoreBufVars()
    let result          = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
    let b:netrw_lastfile = choice

 "-----------------------------------
 " ftp + machine,id,passwd,filename:  NetRead Method #3 {{{3
 elseif b:netrw_method == 3  " read with ftp + machine, id, passwd, and fname
  " Construct execution string (four lines) which will be passed through filter
"    call Decho("read via ftp+mipf (method #3)")
  let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
```

```
  call s:SaveBufVars()|new|call s:RestoreBufVars()
  let filtbuf= bufnr("%")
  setlocal ff=unix
  if exists("g:netrw_port") && g:netrw_port != ""
   put ='open '.g:netrw_machine.' '.g:netrw_port
"    call Decho("filter input: ".getline('.'))
  else
   put ='open '.g:netrw_machine
"    call Decho("filter input: ".getline('.'))
  endif

  if exists("g:netrw_ftp") && g:netrw_ftp == 1
   put =g:netrw_uid
"    call Decho("filter input: ".getline('.'))
   put ='\"'.s:netrw_passwd.'\"'
"    call Decho("filter input: ".getline('.'))
  else
   put ='user \"'.g:netrw_uid.'\" \"'.s:netrw_passwd.'\"'
"    call Decho("filter input: ".getline('.'))
  endif

  if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
   put =g:netrw_ftpmode
"    call Decho("filter input: ".getline('.'))
  endif
  if exists("g:netrw_ftpextracmd")
   put =g:netrw_ftpextracmd
"    call Decho("filter input: ".getline('.'))
  endif
  put ='get \"'.netrw_fname.'\" '.tmpfile
"   call Decho("filter input: ".getline('.'))

  " perform ftp:
  " -i       : turns off interactive prompting from ftp
  " -n  unix : DON'T use <.netrc>, even though it exists
  " -n  win32: quit being obnoxious about password
  norm! 1Gdd
"   call Decho("executing: %!".g:netrw_ftp_cmd." -i -n")
  exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n"
  " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
  if getline(1) !~ "^$"
"    call Decho("error<".getline(1).">")
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),5)
   endif
  endif
  call s:SaveBufVars()|bd!|call s:RestoreBufVars()
  let result          = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
```

```
  let b:netrw_lastfile = choice

 "....................................
 " scp: NetRead Method #4 {{{3
 elseif     b:netrw_method  == 4 " read with scp
"    call Decho("read via scp (method #4)")
  if exists("g:netrw_port") && g:netrw_port != ""
   let useport= " ".g:netrw_scpport." ".g:netrw_port
  else
   let useport= ""
  endif
"    call Decho("exe s:netrw_silentxfer.!".g:netrw_scp_cmd.useport."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1))
  exe s:netrw_silentxfer."!".g:netrw_scp_cmd.useport." ".shellescape(g:netrw_machine.":".b:netrw_fname,1)."
".shellescape(tmpfile,1)
  let result          = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
  let b:netrw_lastfile = choice

 "....................................
 " http: NetRead Method #5 (wget) {{{3
 elseif     b:netrw_method  == 5
"    call Decho("read via http (method #5)")
  if g:netrw_http_cmd == ""
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,"neither the wget nor the fetch command is available",6)
   endif
"    call Dret("netrw#NetRead :4 getcwd<".getcwd().">")
   return
  endif

  if match(b:netrw_fname,"#") == -1 || exists("g:netrw_http_xcmd")
   " using g:netrw_http_cmd (usually elinks, links, curl, wget, or fetch)
"    call Decho('using '.g:netrw_http_cmd.' (# not in b:netrw_fname<'.b:netrw_fname.">)")
   if exists("g:netrw_http_xcmd")
"     call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd."
".shellescape("http://".g:netrw_machine.b:netrw_fname,1)." ".g:netrw_http_xcmd." ".shellescape(tmpfile,1))
    exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape("http://".g:netrw_machine.b:netrw_fname,1)."
".g:netrw_http_xcmd." ".shellescape(tmpfile,1)
   else
"     call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.b:netrw_fname,1))
    exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.b:netrw_fname,1)
   endif
   let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)

  else
   " wget/curl/fetch plus a jump to an in-page marker (ie. http://abc/def.html#aMarker)
```

```
"     call Decho(("wget/curl plus jump (# in b:netrw_fname<".b:netrw_fname.">)")
    let netrw_html= substitute(b:netrw_fname,"#.*$","","")
    let netrw_tag = substitute(b:netrw_fname,"^.*#","","")
"     call Decho("netrw_html<".netrw_html.">")
"     call Decho("netrw_tag <".netrw_tag.">")
"     call Decho("exe ".s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.netrw_html,1))
    exe s:netrw_silentxfer."!".g:netrw_http_cmd." ".shellescape(tmpfile,1)."
".shellescape("http://".g:netrw_machine.netrw_html,1)
    let result = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
"     call Decho('<\s*a\s*name=\s*"'.netrw_tag.'"/')
    exe 'norm! 1G/<\s*a\s*name=\s*"'.netrw_tag.'"/."\<CR>"
   endif
   let b:netrw_lastfile = choice
   setlocal ro

  "......................................
  " dav: NetRead Method #6 {{{3
  elseif     b:netrw_method  == 6
"    call Decho("read via cadaver (method #6)")

   if !executable(g:netrw_dav_cmd)
    call netrw#ErrorMsg(s:ERROR,g:netrw_dav_cmd." is not executable",73)
"     call Dret("netrw#NetRead : ".g:netrw_dav_cmd." not executable")
    return
   endif
   if g:netrw_dav_cmd =~ "curl"
"     call Decho("exe ".s:netrw_silentxfer."!".g:netrw_dav_cmd."
".shellescape("dav://".g:netrw_machine.b:netrw_fname,1)." ".shellescape(tmpfile,1))
    exe s:netrw_silentxfer."!".g:netrw_dav_cmd." ".shellescape("dav://".g:netrw_machine.b:netrw_fname,1)."
".shellescape(tmpfile,1)
   else
    " Construct execution string (four lines) which will be passed through filter
    let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
    new
    setlocal ff=unix
    if exists("g:netrw_port") && g:netrw_port != ""
     put ='open '.g:netrw_machine.' '.g:netrw_port
    else
     put ='open '.g:netrw_machine
    endif
    put ='user '.g:netrw_uid.' '.s:netrw_passwd
    put ='get '.netrw_fname.' '.tmpfile
    put ='quit'

    " perform cadaver operation:
    norm! 1Gdd
"    call Decho("executing: %!".g:netrw_dav_cmd)
```

```
   exe s:netrw_silentxfer."%!".g:netrw_dav_cmd
   bd!
  endif
  let result          = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
  let b:netrw_lastfile = choice

 "......................................
 " rsync: NetRead Method #7 {{{3
 elseif     b:netrw_method  == 7
"    call Decho("read via rsync (method #7)")
"    call Decho("exe ".s:netrw_silentxfer."!".g:netrw_rsync_cmd."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".shellescape(tmpfile,1))
   exe s:netrw_silentxfer."!".g:netrw_rsync_cmd." ".shellescape(g:netrw_machine.":".b:netrw_fname,1)."
".shellescape(tmpfile,1)
  let result   = s:NetrwGetFile(readcmd,tmpfile, b:netrw_method)
  let b:netrw_lastfile = choice

 "......................................
 " fetch: NetRead Method #8 {{{3
 "    fetch://[user@]host[:http]/path
 elseif     b:netrw_method  == 8
"    call Decho("read via fetch (method #8)")
  if g:netrw_fetch_cmd == ""
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,"fetch command not available",7)
   endif
"    call Dret("NetRead")
  endif
  if exists("g:netrw_option") && g:netrw_option == ":http"
   let netrw_option= "http"
  else
   let netrw_option= "ftp"
  endif
"    call Decho("read via fetch for ".netrw_option)

  if exists("g:netrw_uid") && g:netrw_uid != "" && exists("s:netrw_passwd") && s:netrw_passwd != ""
"     call Decho("exe ".s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_uid.':'.s:netrw_passwd.'@'.g:netrw_machine."/".b:netrw_fname,1))
   exe s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_uid.':'.s:netrw_passwd.'@'.g:netrw_machine."/".b:netrw_fname,1)
  else
"     call Decho("exe ".s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_machine."/".b:netrw_fname,1))
   exe s:netrw_silentxfer."!".g:netrw_fetch_cmd." ".shellescape(tmpfile,1)."
".shellescape(netrw_option."://".g:netrw_machine."/".b:netrw_fname,1)
  endif

  let result  = s:NetrwGetFile(readcmd,tmpfile, b:netrw_method)
```

```
  let b:netrw_lastfile = choice
  setlocal ro

  "......................................
  " sftp: NetRead Method #9 {{{3
  elseif     b:netrw_method  == 9
"    call Decho("read via sftp (method #9)")
"    call Decho("exe ".s:netrw_silentxfer."!".g:netrw_sftp_cmd."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".tmpfile)
   exe s:netrw_silentxfer."!".g:netrw_sftp_cmd." ".shellescape(g:netrw_machine.":".b:netrw_fname,1)." ".tmpfile
   let result  = s:NetrwGetFile(readcmd, tmpfile, b:netrw_method)
   let b:netrw_lastfile = choice

  "......................................
  " Complain {{{3
  else
   call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",8)
  endif
 endwhile

 " cleanup {{{3
 if exists("b:netrw_method")
"   call Decho("cleanup b:netrw_method and b:netrw_fname")
  unlet b:netrw_method
  unlet b:netrw_fname
 endif
 if s:FileReadable(tmpfile) && tmpfile !~ '.tar.bz2$' && tmpfile !~ '.tar.gz$' && tmpfile !~ '.zip' && tmpfile !~ '.tar'
&& readcmd != 't'
"   call Decho("cleanup by deleting tmpfile<".tmpfile.">")
  call s:NetrwDelete(tmpfile)
 endif
 call s:NetrwOptionRestore("w:")

"  call Dret("netrw#NetRead :5 getcwd<".getcwd().">")
endfun

" ---------------------------------------------------------------------
" netrw#NetWrite: responsible for writing a file over the net {{{2
fun! netrw#NetWrite(...) range
"  call Dfunc("netrw#NetWrite(a:0=".a:0.") ".g:loaded_netrw)

 " option handling
 let mod= 0
 call s:NetrwOptionSave("w:")
 call s:NetrwSafeOptions()

 " Get Temporary Filename {{{3
 let tmpfile= s:GetTempfile("")
```

```
 if tmpfile == ""
"   call Dret("netrw#NetWrite : unable to get a tempfile!")
  return
 endif

 if a:0 == 0
  let ichoice = 0
 else
  let ichoice = 1
 endif

 let curbufname= expand("%")
"  call Decho("curbufname<".curbufname.">")
 if &binary
  " For binary writes, always write entire file.
  " (line numbers don't really make sense for that).
  " Also supports the writing of tar and zip files.
"   call Decho("(write entire file) silent exe w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile))
  silent exe "w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile)
 elseif g:netrw_cygwin
  " write (selected portion of) file to temporary
  let cygtmpfile= substitute(tmpfile,'/cygdrive/\(.\)','\1:',")
"   call Decho("(write selected portion) silent exe ".a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)."
".fnameescape(cygtmpfile))
  silent exe a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)." ".fnameescape(cygtmpfile)
 else
  " write (selected portion of) file to temporary
"   call Decho("(write selected portion) silent exe ".a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)."
".fnameescape(tmpfile))
  silent exe a:firstline."," . a:lastline . "w! ".fnameescape(v:cmdarg)." ".fnameescape(tmpfile)
 endif

 if curbufname == ""
  " if the file is [No Name], and one attempts to Nwrite it, the buffer takes
  " on the temporary file's name.  Deletion of the temporary file during
  " cleanup then causes an error message.
  0file!
 endif

 " While choice loop: {{{3
 while ichoice <= a:0

  " Process arguments: {{{4
  " attempt to repeat with previous host-file-etc
  if exists("b:netrw_lastfile") && a:0 == 0
"    call Decho("using b:netrw_lastfile<" . b:netrw_lastfile . ">")
   let choice = b:netrw_lastfile
   let ichoice= ichoice + 1
```

```
 else
  exe "let choice= a:" . ichoice

  " Reconstruct Choice if choice starts with ""
  if match(choice,"?") == 0
   echomsg 'NetWrite Usage:"'
   echomsg ':Nwrite machine:path                    uses rcp'
   echomsg ':Nwrite "machine path"                  uses ftp with <.netrc>'
   echomsg ':Nwrite "machine id password path"      uses ftp'
   echomsg ':Nwrite dav://[user@]machine/path       uses cadaver'
   echomsg ':Nwrite fetch://[user@]machine/path     uses fetch'
   echomsg ':Nwrite ftp://machine[#port]/path       uses ftp  (autodetects <.netrc>)'
   echomsg ':Nwrite rcp://machine/path              uses rcp'
   echomsg ':Nwrite rsync://[user@]machine/path     uses rsync'
   echomsg ':Nwrite scp://[user@]machine[[:#]port]/path uses scp'
   echomsg ':Nwrite sftp://[user@]machine/path      uses sftp'
   sleep 4
   break

  elseif match(choice,"^\"") != -1
   if match(choice,"\"$") != -1
    " case "..."
   let choice=strpart(choice,1,strlen(choice)-2)
   else
    "  case "... ... ..."
    let choice      = strpart(choice,1,strlen(choice)-1)
    let wholechoice = ""

    while match(choice,"\"$") == -1
     let wholechoice= wholechoice . " " . choice
     let ichoice    = ichoice + 1
     if choice > a:0
      if !exists("g:netrw_quiet")
  call netrw#ErrorMsg(s:ERROR,"Unbalanced string in filename '". wholechoice ."'",13)
 endif
"        call Dret("netrw#NetWrite")
       return
      endif
     let choice= a:{ichoice}
    endwhile
    let choice= strpart(wholechoice,1,strlen(wholechoice)-1) . " " . strpart(choice,0,strlen(choice)-1)
   endif
  endif
 endif
 let ichoice= ichoice + 1
"   call Decho("choice<" . choice . "> ichoice=".ichoice)

  " Determine method of write (ftp, rcp, etc) {{{4
```

```
 call s:NetrwMethod(choice)
 if !exists("b:netrw_method") || b:netrw_method < 0
"    call Dfunc("netrw#NetWrite : unsupported method")
  return
 endif

 " ==============
 " Perform Protocol-Based Write {{{4
 " ============================
 if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1
  echo "(netrw) Processing your write request..."
"    call Decho("(netrw) Processing your write request...")
 endif

 "......................................
 " rcp: NetWrite Method #1 {{{4
 if  b:netrw_method == 1
"    call Decho("write via rcp (method #1)")
  if s:netrw_has_nt_rcp == 1
   if exists("g:netrw_uid") &&  ( g:netrw_uid != "" )
    let uid_machine = g:netrw_machine .'.'. g:netrw_uid
   else
    let uid_machine = g:netrw_machine .'.'. $USERNAME
   endif
  else
   if exists("g:netrw_uid") &&  ( g:netrw_uid != "" )
    let uid_machine = g:netrw_uid .'@'. g:netrw_machine
   else
    let uid_machine = g:netrw_machine
   endif
  endif
"    call Decho("executing: !".g:netrw_rcp_cmd." ".s:netrw_rcpmode." ".shellescape(tmpfile,1)."
".shellescape(uid_machine.":".b:netrw_fname,1))
  exe s:netrw_silentxfer."!".g:netrw_rcp_cmd." ".s:netrw_rcpmode." ".shellescape(tmpfile,1)."
".shellescape(uid_machine.":".b:netrw_fname,1)
  let b:netrw_lastfile = choice

 "......................................
 " ftp + <.netrc>: NetWrite Method #2 {{{4
 elseif b:netrw_method == 2
"    call Decho("write via ftp+.netrc (method #2)")
  let netrw_fname= b:netrw_fname
  new
"    call Decho("filter input window#".winnr())
  setlocal ff=unix
  put =g:netrw_ftpmode
"    call Decho("filter input: ".getline('$'))
  if exists("g:netrw_ftpextracmd")
```

```
   put =g:netrw_ftpextracmd
"     call Decho("filter input: ".getline("$"))
  endif
  call setline(line("$")+1,'put "'.tmpfile.'" "'.netrw_fname.'"')
"    call Decho("filter input: ".getline("$"))
  if exists("g:netrw_port") && g:netrw_port != ""
"     call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
   exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
  else
"     call Decho("filter input window#".winnr())
"     call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
   exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
  endif
  " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
  if getline(1) !~ "^$"
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),14)
   endif
   let mod=1
  endif
  bd!
  let b:netrw_lastfile = choice

 "....................................
 " ftp + machine, id, passwd, filename: NetWrite Method #3 {{{4
 elseif b:netrw_method == 3
  " Construct execution string (four lines) which will be passed through filter
"    call Decho("read via ftp+mipf (method #3)")
  let netrw_fname= b:netrw_fname
  new
  setlocal ff=unix
  if exists("g:netrw_port") && g:netrw_port != ""
   put ='open '.g:netrw_machine.' '.g:netrw_port
"     call Decho("filter input: ".getline('.'))
  else
   put ='open '.g:netrw_machine
"     call Decho("filter input: ".getline('.'))
  endif
  if exists("g:netrw_ftp") && g:netrw_ftp == 1
   put =g:netrw_uid
"     call Decho("filter input: ".getline('.'))
   put ='\"'.s:netrw_passwd.'\"'
"     call Decho("filter input: ".getline('.'))
  else
   put ='user \"'.g:netrw_uid.'\" \"'.s:netrw_passwd.'\"'
"     call Decho("filter input: ".getline('.'))
```

```
  endif
  put ='put \"'.tmpfile.'\" \"'.netrw_fname.'\"'
"    call Decho("filter input: ".getline('.'))
  " save choice/id/password for future use
  let b:netrw_lastfile = choice

  " perform ftp:
  " -i       : turns off interactive prompting from ftp
  " -n  unix : DON'T use <.netrc>, even though it exists
  " -n  win32: quit being obnoxious about password
  norm! 1Gdd
"    call Decho("executing: %!".g:netrw_ftp_cmd." -i -n")
  exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n"
  " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
  if getline(1) !~ "^$"
   if  !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),15)
   endif
   let mod=1
  endif
  bd!

 "....................................
 " scp: NetWrite Method #4 {{{4
 elseif     b:netrw_method == 4
"    call Decho("write via scp (method #4)")
  if exists("g:netrw_port") && g:netrw_port != ""
   let useport= " ".g:netrw_scpport." ".fnameescape(g:netrw_port)
  else
   let useport= ""
  endif
"    call Decho("exe ".s:netrw_silentxfer."!".g:netrw_scp_cmd.useport." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.":".b:netrw_fname,1))
  exe s:netrw_silentxfer."!".g:netrw_scp_cmd.useport." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)
  let b:netrw_lastfile = choice

 "....................................
 " http: NetWrite Method #5 {{{4
 elseif     b:netrw_method == 5
"    call Decho("write via http (method #5)")
  if !exists("g:netrw_quiet")
   call netrw#ErrorMsg(s:ERROR,"currently <netrw.vim> does not support writing using http:",16)
  endif

 "....................................
 " dav: NetWrite Method #6 (cadaver) {{{4
 elseif     b:netrw_method == 6
```

```
"    call Decho("write via cadaver (method #6)")

  " Construct execution string (four lines) which will be passed through filter
  let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
  new
  setlocal ff=unix
  if exists("g:netrw_port") && g:netrw_port != ""
   put ='open '.g:netrw_machine.' '.g:netrw_port
  else
   put ='open '.g:netrw_machine
  endif
  if exists("g:netrw_uid") && exists("s:netrw_passwd")
   put ='user '.g:netrw_uid.' '.s:netrw_passwd
  endif
  put ='put '.tmpfile.' '.netrw_fname

  " perform cadaver operation:
  norm! 1Gdd
"    call Decho("executing: %!".g:netrw_dav_cmd)
  exe s:netrw_silentxfer."%!".g:netrw_dav_cmd
  bd!
  let b:netrw_lastfile = choice

 "....................................
 " rsync: NetWrite Method #7 {{{4
 elseif     b:netrw_method == 7
"    call Decho("write via rsync (method #7)")
"    call Decho("executing: !".g:netrw_rsync_cmd." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.":".b:netrw_fname,1))
  exe s:netrw_silentxfer."!".g:netrw_rsync_cmd." ".shellescape(tmpfile,1)."
".shellescape(g:netrw_machine.":".b:netrw_fname,1)
  let b:netrw_lastfile = choice

 "....................................
 " sftp: NetWrite Method #9 {{{4
 elseif     b:netrw_method == 9
"    call Decho("read via sftp (method #9)")
  let netrw_fname= escape(b:netrw_fname,g:netrw_fname_escape)
  if exists("g:netrw_uid") &&  ( g:netrw_uid != "" )
   let uid_machine = g:netrw_uid .'@'. g:netrw_machine
  else
   let uid_machine = g:netrw_machine
  endif
  new
  setlocal ff=unix
  put ='put \"'.escape(tmpfile,'\').'\" '.netrw_fname
"    call Decho("filter input: ".getline('.'))
  norm! 1Gdd
```

```
"    call Decho("executing: %!".g:netrw_sftp_cmd.' '.shellescape(uid_machine,1))
  exe s:netrw_silentxfer."%!".g:netrw_sftp_cmd.' '.shellescape(uid_machine,1)
  bd!
  let b:netrw_lastfile= choice

 "....................................
 " Complain {{{4
 else
  call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",17)
 endif
endwhile

" Cleanup: {{{3
"  call Decho("cleanup")
 if s:FileReadable(tmpfile)
"   call Decho("tmpfile<".tmpfile."> readable, will now delete it")
  call s:NetrwDelete(tmpfile)
 endif
 call s:NetrwOptionRestore("w:")

 if a:firstline == 1 && a:lastline == line("$")
  " restore modifiability; usually equivalent to set nomod
  let &mod= mod
 endif

"  call Dret("netrw#NetWrite")
endfun

" ---------------------------------------------------------------------
" netrw#NetSource: source a remotely hosted vim script {{{2
" uses NetRead to get a copy of the file into a temporarily file,
"             then sources that file,
"             then removes that file.
fun! netrw#NetSource(...)
"  call Dfunc("netrw#NetSource() a:0=".a:0)
 if a:0 > 0 && a:1 == '?'
  " give help
  echomsg 'NetSource Usage:'
  echomsg ':Nsource dav://machine[:port]/path           uses cadaver'
  echomsg ':Nsource fetch://machine/path                uses fetch'
  echomsg ':Nsource ftp://[user@]machine[:port]/path    uses ftp   autodetects <.netrc>'
  echomsg ':Nsource http://[user@]machine/path          uses http  wget'
  echomsg ':Nsource rcp://[user@]machine/path           uses rcp'
  echomsg ':Nsource rsync://machine[:port]/path         uses rsync'
  echomsg ':Nsource scp://[user@]machine[[:#]port]/path  uses scp'
  echomsg ':Nsource sftp://[user@]machine[[:#]port]/path uses sftp'
  sleep 4
 else
```

```
 let i= 1
 while i <= a:0
  call netrw#NetRead(3,a:{i})
"    call Decho("(netrw#NetSource) s:netread_tmpfile<".s:netrw_tmpfile.">")
  if s:FileReadable(s:netrw_tmpfile)
"     call Decho("(netrw#NetSource) exe so ".fnameescape(s:netrw_tmpfile))
   exe "so ".fnameescape(s:netrw_tmpfile)
"     call Decho("(netrw#NetSource) delete(".s:netrw_tmpfile.")")
   call delete(s:netrw_tmpfile)
   unlet s:netrw_tmpfile
  else
   call netrw#ErrorMsg(s:ERROR,"unable to source <".a:{i}.">!",48)
  endif
  let i= i + 1
 endwhile
endif
"  call Dret("netrw#NetSource")
endfun

" ====================================
" s:NetrwGetFile: Function to read temporary file "tfile" with command "readcmd". {{{2
"    readcmd == %r : replace buffer with newly read file
"            == 0r : read file at top of buffer
"            == r  : read file after current line
"            == t  : leave file in temporary form (ie. don't read into buffer)
fun! s:NetrwGetFile(readcmd, tfile, method)
"  call Dfunc("NetrwGetFile(readcmd<".a:readcmd.">,tfile<".a:tfile."> method<".a:method.">)")

 " readcmd=='t': simply do nothing
 if a:readcmd == 't'
"   call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"   call Dret("NetrwGetFile : skip read of <".a:tfile.">")
  return
 endif

 " get name of remote filename (ie. url and all)
 let rfile= bufname("%")
"  call Decho("rfile<".rfile.">")

 if exists("*NetReadFixup")
  " for the use of NetReadFixup (not otherwise used internally)
  let line2= line("$")
 endif

 if a:readcmd[0] == '%'
  " get file into buffer
"   call Decho("get file into buffer")
```

```
  " rename the current buffer to the temp file (ie. tfile)
  if g:netrw_cygwin
   let tfile= substitute(a:tfile,'/cygdrive/\(.\)','\1:',')
  else
   let tfile= a:tfile
  endif
"   call Decho("exe silent! keepalt file ".fnameescape(tfile))
  exe "silent! keepalt file ".fnameescape(tfile)

  " edit temporary file (ie. read the temporary file in)
  if     rfile =~ '\.zip$'
"    call Decho("handling remote zip file with zip#Browse(tfile<".tfile.">)")
   call zip#Browse(tfile)
  elseif rfile =~ '\.tar$'
"    call Decho("handling remote tar file with tar#Browse(tfile<".tfile.">)")
   call tar#Browse(tfile)
  elseif rfile =~ '\.tar\.gz'
"    call Decho("handling remote gzip-compressed tar file")
   call tar#Browse(tfile)
  elseif rfile =~ '\.tar\.bz2'
"    call Decho("handling remote bz2-compressed tar file")
   call tar#Browse(tfile)
  else
"    call Decho("edit temporary file")
   e!
  endif

  " rename buffer back to remote filename
"   call Decho("exe silent! keepalt file ".fnameescape(rfile))
  exe "silent! keepalt file ".fnameescape(rfile)
  if a:method == 5
   set ft=html
  else
   filetype detect
  endif
"   call Dredir("renamed buffer back to remote filename<".rfile."> : expand(%)<".expand("%").">","ls!")
  let line1 = 1
  let line2 = line("$")

 elseif s:FileReadable(a:tfile)
  " read file after current line
"   call Decho("read file<".a:tfile."> after current line")
  let curline = line(".")
  let lastline= line("$")
"   call Decho("exe<".a:readcmd." ".fnameescape(v:cmdarg)." ".fnameescape(a:tfile).">  line#".curline)
  exe a:readcmd." ".fnameescape(v:cmdarg)." ".fnameescape(a:tfile)
  let line1= curline + 1
  let line2= line("$") - lastline + 1
```

```
 else
  " not readable
"   call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"   call Decho("tfile<".a:tfile."> not readable")
  call netrw#ErrorMsg(s:WARNING,"file <".a:tfile."> not readable",9)
"   call Dret("NetrwGetFile : tfile<".a:tfile."> not readable")
  return
 endif

 " User-provided (ie. optional) fix-it-up command
 if exists("*NetReadFixup")
"   call Decho("calling NetReadFixup(method<".a:method."> line1=".line1." line2=".line2.")")
  call NetReadFixup(a:method, line1, line2)
"  else " Decho
"   call Decho("NetReadFixup() not called, doesn't exist  (line1=".line1." line2=".line2.")")
 endif

 if has("gui") && has("menu") && has("gui_running") && &go =~ 'm'
  " update the Buffers menu
  call s:UpdateBuffersMenu()
 endif

"  call Decho("readcmd<".a:readcmd."> cmdarg<".v:cmdarg."> tfile<".a:tfile."> readable=".s:FileReadable(a:tfile))

" make sure file is being displayed
"  redraw!

"  call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"  call Dret("NetrwGetFile")
endfun

" ----------------------------------------------------------------------
" s:NetrwMethod:  determine method of transfer {{{2
" Input:
"   choice = url   [protocol:]//[userid@]hostname[:port]/[path-to-file]
" Output:
"  b:netrw_method= 1: rcp
"                  2: ftp + <.netrc>
"            3: ftp + machine, id, password, and [path]filename
"            4: scp
"            5: http (wget)
"            6: dav
"            7: rsync
"            8: fetch
"            9: sftp
"  g:netrw_machine= hostname
"  b:netrw_fname  = filename
```

```
"  g:netrw_port   = optional port number (for ftp)
"  g:netrw_choice = copy of input url (choice)
fun! s:NetrwMethod(choice)
"   call Dfunc("NetrwMethod(a:choice<".a:choice.">)")

  " record current g:netrw_machine, if any
  " curmachine used if protocol == ftp and no .netrc
  if exists("g:netrw_machine")
   let curmachine= g:netrw_machine
"    call Decho("curmachine<".curmachine.">")
  else
   let curmachine= "N O T A HOST"
  endif

 " initialization
 let b:netrw_method  = 0
 let g:netrw_machine = ""
 let b:netrw_fname   = ""
 let g:netrw_port    = ""
 let g:netrw_choice  = a:choice

 " Patterns:
 " mipf     : a:machine a:id password filename      Use ftp
 " mf       : a:machine filename       Use ftp + <.netrc> or g:netrw_uid s:netrw_passwd
 " ftpurm   : ftp://[user@]host[[#:]port]/filename  Use ftp + <.netrc> or g:netrw_uid s:netrw_passwd
 " rcpurm   : rcp://[user@]host/filename      Use rcp
 " rcphf    : [user@]host:filename       Use rcp
 " scpurm   : scp://[user@]host[[#:]port]/filename  Use scp
 " httpurm  : http://[user@]host/filename      Use wget
 " davurm   : dav[s]://host[:port]/path            Use cadaver/curl
 " rsyncurm : rsync://host[:port]/path             Use rsync
 " fetchurm : fetch://[user@]host[:http]/filename   Use fetch (defaults to ftp, override for http)
 " sftpurm  : sftp://[user@]host/filename  Use scp
 let mipf     = '^\(\S\+\)\s\+\(\S\+\)\s\+\(\S\+\)\s\+\(\S\+\)$'
 let mf       = '^\(\S\+\)\s\+\(\S\+\)$'
 let ftpurm   = '^ftp://\(\([^/@]\{-}\)@\)\=\([^/#:]\{-}\)\([#:]\d\+\)\=/\(.*\)$'
 let rcpurm   = '^rcp://\%(\([^/@]\{-}\)@\)\=\([^/]\{-}\)/\(.*\)$'
 let rcphf    = '^\(\(\h\w*\)@\)\=\(\h\w*\):\([^@]\+\)$'
 let scpurm   = '^scp://\([^/#:]\+\)\%([#:]\(\d\+\)\)\=/\(.*\)$'
 let httpurm  = '^http://\([^/]\{-}\)\(/.*\)\=$'
 let davurm   = '^davs\=://\([^/]\+\)/\(.*/\)\([-_.~[:alnum:]]\+\)$'
 let rsyncurm = '^rsync://\([^/]\{-}\)/\(.*\)\=$'
 let fetchurm = '^fetch://\(\([^/@]\{-}\)@\)\=\([^/#:]\{-}\)\(:http\)\=/\(.*\)$'
 let sftpurm  = '^sftp://\([^/]\{-}\)/\(.*\)\=$'

"  call Decho("determine method:")
 " Determine Method
 " rcp://user@hostname/...path-to-file
```

```
 if match(a:choice,rcpurm) == 0
"   call Decho("rcp://...")
  let b:netrw_method  = 1
  let userid          = substitute(a:choice,rcpurm,'\1',"")
  let g:netrw_machine = substitute(a:choice,rcpurm,'\2',"")
  let b:netrw_fname   = substitute(a:choice,rcpurm,'\3',"")
  if userid != ""
   let g:netrw_uid= userid
  endif

 " scp://user@hostname/...path-to-file
 elseif match(a:choice,scpurm) == 0
"   call Decho("scp://...")
  let b:netrw_method  = 4
  let g:netrw_machine = substitute(a:choice,scpurm,'\1',"")
  let g:netrw_port    = substitute(a:choice,scpurm,'\2',"")
  let b:netrw_fname   = substitute(a:choice,scpurm,'\3',"")

 " http://user@hostname/...path-to-file
 elseif match(a:choice,httpurm) == 0
"   call Decho("http://...")
  let b:netrw_method = 5
  let g:netrw_machine= substitute(a:choice,httpurm,'\1',"")
  let b:netrw_fname  = substitute(a:choice,httpurm,'\2',"")

 " dav://hostname[:port]/..path-to-file..
 elseif match(a:choice,davurm) == 0
"   call Decho("dav://...")
  let b:netrw_method= 6
  if a:choice =~ '^s'
   let g:netrw_machine= 'https://'.substitute(a:choice,davurm,'\1/\2',"")
  else
   let g:netrw_machine= 'http://'.substitute(a:choice,davurm,'\1/\2',"")
  endif
  let b:netrw_fname  = substitute(a:choice,davurm,'\3',"")

 " rsync://user@hostname/...path-to-file
 elseif match(a:choice,rsyncurm) == 0
"   call Decho("rsync://...")
  let b:netrw_method = 7
  let g:netrw_machine= substitute(a:choice,rsyncurm,'\1',"")
  let b:netrw_fname  = substitute(a:choice,rsyncurm,'\2',"")

 " ftp://[user@]hostname[[:#]port]/...path-to-file
 elseif match(a:choice,ftpurm) == 0
"   call Decho("ftp://...")
  let userid       = substitute(a:choice,ftpurm,'\2',"")
  let g:netrw_machine= substitute(a:choice,ftpurm,'\3',"")
```

```
 let g:netrw_port   = substitute(a:choice,ftpurm,'\4',"")
 let b:netrw_fname  = substitute(a:choice,ftpurm,'\5',"")
"   call Decho("g:netrw_machine<".g:netrw_machine.">")
 if userid != ""
  let g:netrw_uid= userid
 endif
 if exists("s:netrw_passwd") && curmachine != g:netrw_machine
  " if there's a change in hostname, require password re-entry
  unlet s:netrw_passwd
 endif
 if exists("g:netrw_uid") && exists("s:netrw_passwd")
  let b:netrw_method = 3
 else
  if s:FileReadable(expand("$HOME/.netrc")) && !g:netrw_ignorenetrc
   let b:netrw_method= 2
  else
   if !exists("g:netrw_uid") || g:netrw_uid == ""
    call NetUserPass()
   elseif !exists("s:netrw_passwd") || s:netrw_passwd == ""
    call NetUserPass(g:netrw_uid)
   " else just use current g:netrw_uid and s:netrw_passwd
   endif
   let b:netrw_method= 3
  endif
 endif

 elseif match(a:choice,fetchurm) == 0
"   call Decho("fetch://...")
 let b:netrw_method = 8
 let g:netrw_userid = substitute(a:choice,fetchurm,'\2',"")
 let g:netrw_machine= substitute(a:choice,fetchurm,'\3',"")
 let b:netrw_option = substitute(a:choice,fetchurm,'\4',"")
 let b:netrw_fname  = substitute(a:choice,fetchurm,'\5',"")

 " Issue an ftp : "machine id password [path/]filename"
 elseif match(a:choice,mipf) == 0
"   call Decho("(ftp) host id pass file")
 let b:netrw_method  = 3
 let g:netrw_machine = substitute(a:choice,mipf,'\1',"")
 let g:netrw_uid     = substitute(a:choice,mipf,'\2',"")
 let s:netrw_passwd  = substitute(a:choice,mipf,'\3',"")
 let b:netrw_fname   = substitute(a:choice,mipf,'\4',"")

 " Issue an ftp: "hostname [path/]filename"
 elseif match(a:choice,mf) == 0
"   call Decho("(ftp) host file")
 if exists("g:netrw_uid") && exists("s:netrw_passwd")
  let b:netrw_method  = 3
```

```
  let g:netrw_machine = substitute(a:choice,mf,'\1',"")
  let b:netrw_fname   = substitute(a:choice,mf,'\2',"")

 elseif s:FileReadable(expand("$HOME/.netrc"))
  let b:netrw_method  = 2
  let g:netrw_machine = substitute(a:choice,mf,'\1',"")
  let b:netrw_fname   = substitute(a:choice,mf,'\2',"")
 endif

 " sftp://user@hostname/...path-to-file
 elseif match(a:choice,sftpurm) == 0
"   call Decho("sftp://...")
 let b:netrw_method = 9
 let g:netrw_machine= substitute(a:choice,sftpurm,'\1',"")
 let b:netrw_fname  = substitute(a:choice,sftpurm,'\2',"")

 " Issue an rcp: hostname:filename"  (this one should be last)
 elseif match(a:choice,rcphf) == 0
"   call Decho("(rcp) [user@]host:file) rcphf<".rcphf.">")
 let b:netrw_method  = 1
 let userid          = substitute(a:choice,rcphf,'\2',"")
 let g:netrw_machine = substitute(a:choice,rcphf,'\3',"")
 let b:netrw_fname   = substitute(a:choice,rcphf,'\4',"")
"   call Decho('\1<'.substitute(a:choice,rcphf,'\1',"").">")
"   call Decho('\2<'.substitute(a:choice,rcphf,'\2',"").">")
"   call Decho('\3<'.substitute(a:choice,rcphf,'\3',"").">")
"   call Decho('\4<'.substitute(a:choice,rcphf,'\4',"").">")
 if userid != ""
  let g:netrw_uid= userid
 endif

 else
 if !exists("g:netrw_quiet")
  call netrw#ErrorMsg(s:WARNING,"cannot determine method (format:
protocol://[user@]hostname[:port]/[path])",45)
 endif
 let b:netrw_method  = -1
 endif

 " remove any leading [:#] from port number
 if g:netrw_port != ""
  let g:netrw_port = substitute(g:netrw_port,'[#:]\+',",")
 endif

"  call Decho("a:choice       <".a:choice.">")
"  call Decho("b:netrw_method <".b:netrw_method.">")
"  call Decho("g:netrw_machine<".g:netrw_machine.">")
"  call Decho("g:netrw_port   <".g:netrw_port.">")
```

```
"  if exists("g:netrw_uid")  "Decho
"   call Decho("g:netrw_uid    <".g:netrw_uid.">")
"  endif     "Decho
"  if exists("s:netrw_passwd")  "Decho
"   call Decho("s:netrw_passwd <".s:netrw_passwd.">")
"  endif     "Decho
"  call Decho("b:netrw_fname  <".b:netrw_fname.">")
"  call Dret("NetrwMethod : b:netrw_method=".b:netrw_method)
endfun

" ---------------------------------------------------------------------
" NetReadFixup: this sort of function is typically written by the user {{{2
"             to handle extra junk that their system's ftp dumps
"             into the transfer.  This function is provided as an
"             example and as a fix for a Windows 95 problem: in my
"             experience, win95's ftp always dumped four blank lines
"             at the end of the transfer.
if has("win95") && exists("g:netrw_win95ftp") && g:netrw_win95ftp
fun! NetReadFixup(method, line1, line2)
"   call Dfunc("NetReadFixup(method<".a:method."> line1=".a:line1." line2=".a:line2.")")

  " sanity checks -- attempt to convert inputs to integers
  let method = a:method + 0
  let line1  = a:line1 + 0
  let line2  = a:line2 + 0
  if type(method) != 0 || type(line1) != 0 || type(line2) != 0 || method < 0 || line1 <= 0 || line2 <= 0
"    call Dret("NetReadFixup")
   return
  endif

  if method == 3   " ftp (no <.netrc>)
   let fourblanklines= line2 - 3
   if fourblanklines >= line1
    exe "silent ".fourblanklines.",".line2."g/^\s*$/d"
   endif
  endif

"   call Dret("NetReadFixup")
endfun
endif

" ---------------------------------------------------------------------
" NetUserPass: set username and password for subsequent ftp transfer {{{2
"   Usage:  :call NetUserPass()   -- will prompt for userid and password
"     :call NetUserPass("uid")  -- will prompt for password
"     :call NetUserPass("uid","password") -- sets global userid and password
fun! NetUserPass(...)
```

```
" get/set userid
if a:0 == 0
"  call Dfunc("NetUserPass(a:0<".a:0.">)")
 if !exists("g:netrw_uid") || g:netrw_uid == ""
  " via prompt
  let g:netrw_uid= input('Enter username: ')
 endif
else " from command line
"  call Dfunc("NetUserPass(a:1<".a:1.">) {")
 let g:netrw_uid= a:1
endif

" get password
if a:0 <= 1 " via prompt
"  call Decho("a:0=".a:0." case <=1:")
 let s:netrw_passwd= inputsecret("Enter Password: ")
else " from command line
"  call Decho("a:0=".a:0." case >1: a:2<".a:2.">")
 let s:netrw_passwd=a:2
endif

"  call Dret("NetUserPass")
endfun

" ====================================================
"  Shared Browsing Support:    {{{1
" ====================================================

" --------------------------------------------------------------------
" s:BrowserMaps: {{{2
fun! s:BrowserMaps(islocal)
"  call Dfunc("s:BrowserMaps(islocal=".a:islocal.") b:netrw_curdir<".b:netrw_curdir.">")
 if a:islocal
"   call Decho("make local maps")
  nnoremap <buffer> <silent> <cr> :call
netrw#LocalBrowseCheck(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord()))<cr>
  nnoremap <buffer> <silent> -  :exe "norm! 0"<bar>call
netrw#LocalBrowseCheck(<SID>NetrwBrowseChgDir(1,'../'))<cr>
  nnoremap <buffer> <silent> a  :call <SID>NetrwHide(1)<cr>
  nnoremap <buffer> <silent> mb :<c-u>call <SID>NetrwBookHistHandler(0,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> mc :<c-u>call <SID>NetrwMarkFileCopy(1)<cr>
  nnoremap <buffer> <silent> md :<c-u>call <SID>NetrwMarkFileDiff(1)<cr>
  nnoremap <buffer> <silent> me :<c-u>call <SID>NetrwMarkFileEdit(1)<cr>
  nnoremap <buffer> <silent> mf :<c-u>call <SID>NetrwMarkFile(1,<SID>NetrwGetWord())<cr>
  nnoremap <buffer> <silent> mg :<c-u>call <SID>NetrwMarkFileGrep(1)<cr>
  nnoremap <buffer> <silent> mh :<c-u>call <SID>NetrwMarkHideSfx(1)<cr>
  nnoremap <buffer> <silent> mm :<c-u>call <SID>NetrwMarkFileMove(1)<cr>
  nnoremap <buffer> <silent> mp :<c-u>call <SID>NetrwMarkFilePrint(1)<cr>
```

```
  nnoremap <buffer> <silent> mr :<c-u>call <SID>NetrwMarkFileRegexp(1)<cr>
  nnoremap <buffer> <silent> ms :<c-u>call <SID>NetrwMarkFileSource(1)<cr>
  nnoremap <buffer> <silent> mT :<c-u>call <SID>NetrwMarkFileTag(1)<cr>
  nnoremap <buffer> <silent> mt :<c-u>call <SID>NetrwMarkFileTgt(1)<cr>
  nnoremap <buffer> <silent> mu :<c-u>call <SID>NetrwUnMarkFile(1)<cr>
  nnoremap <buffer> <silent> mx :<c-u>call <SID>NetrwMarkFileExe(1)<cr>
  nnoremap <buffer> <silent> mz :<c-u>call <SID>NetrwMarkFileCompress(1)<cr>
  nnoremap <buffer> <silent> gb :<c-u>call <SID>NetrwBookHistHandler(1,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> gh :<c-u>call <SID>NetrwHidden(1)<cr>
  nnoremap <buffer> <silent> c  :exe "keepjumps lcd ".fnameescape(b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> C  :let g:netrw_chgwin= winnr()<cr>
  nnoremap <buffer> <silent> d  :call <SID>NetrwMakeDir("")<cr>
  nnoremap <buffer> <silent> i  :call <SID>NetrwListStyle(1)<cr>
  nnoremap <buffer> <silent> o  :call <SID>NetrwSplit(3)<cr>
  nnoremap <buffer> <silent> O  :call <SID>NetrwObtain(1)<cr>
  nnoremap <buffer> <silent> p  :call
<SID>NetrwPreview(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),1))<cr>
  nnoremap <buffer> <silent> P  :call <SID>NetrwPrevWinOpen(1)<cr>
  nnoremap <buffer> <silent> qb :<c-u>call <SID>NetrwBookHistHandler(2,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> mB :<c-u>call <SID>NetrwBookHistHandler(6,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> qf :<c-u>call <SID>NetrwFileInfo(1,<SID>NetrwGetWord())<cr>
  nnoremap <buffer> <silent> r  :let g:netrw_sort_direction= (g:netrw_sort_direction =~ 'n')? 'r' : 'n'<bar>exe "norm!
0"<bar>call <SID>NetrwRefresh(1,<SID>NetrwBrowseChgDir(1,'./'))<cr>
  nnoremap <buffer> <silent> s  :call <SID>NetrwSortStyle(1)<cr>
  nnoremap <buffer> <silent> S  :call <SID>NetSortSequence(1)<cr>
  nnoremap <buffer> <silent> t  :call <SID>NetrwSplit(4)<cr>
  nnoremap <buffer> <silent> u  :<c-u>call <SID>NetrwBookHistHandler(4,expand("%"))<cr>
  nnoremap <buffer> <silent> U  :<c-u>call <SID>NetrwBookHistHandler(5,expand("%"))<cr>
  nnoremap <buffer> <silent> v  :call <SID>NetrwSplit(5)<cr>
  nnoremap <buffer> <silent> x  :call
netrw#NetrwBrowseX(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),0),0)"<cr>
  nnoremap <buffer> <silent> %  :call <SID>NetrwOpenFile(1)<cr>
  if !hasmapto('<Plug>NetrwHideEdit')
   nmap <buffer> <unique> <c-h> <Plug>NetrwHideEdit
  endif
  nnoremap <buffer> <silent> <Plug>NetrwHideEdit :call <SID>NetrwHideEdit(1)<cr>
  if !hasmapto('<Plug>NetrwRefresh')
   nmap <buffer> <unique> <c-l> <Plug>NetrwRefresh
  endif
  nnoremap <buffer> <silent> <Plug>NetrwRefresh  :call
<SID>NetrwRefresh(1,<SID>NetrwBrowseChgDir(1,'./'))<cr>
  if s:didstarstar || !mapcheck("<s-down>","n")
   nnoremap <buffer> <silent> <s-down> :Nexplore<cr>
  endif
  if s:didstarstar || !mapcheck("<s-up>","n")
   nnoremap <buffer> <silent> <s-up> :Pexplore<cr>
  endif
  let mapsafecurdir = escape(b:netrw_curdir, s:netrw_map_escape)
```

```
 if g:netrw_mousemaps == 1
  nnoremap <buffer> <silent> <leftmouse>   <leftmouse>:call <SID>NetrwLeftmouse(1)<cr>
  nnoremap <buffer> <silent> <middlemouse> <leftmouse>:call <SID>NetrwPrevWinOpen(1)<cr>
  nnoremap <buffer> <silent> <s-leftmouse> <leftmouse>:call
<SID>NetrwMarkFile(1,<SID>NetrwGetWord())<cr>
  exe 'nnoremap <buffer> <silent> <rightmouse>  <leftmouse>:call <SID>NetrwLocalRm("'.mapsafecurdir.'")<cr>'
  exe 'vnoremap <buffer> <silent> <rightmouse>  <leftmouse>:call <SID>NetrwLocalRm("'.mapsafecurdir.'")<cr>'
 endif
 exe 'nnoremap <buffer> <silent> <del> :call <SID>NetrwLocalRm("'.mapsafecurdir.'")<cr>'
 exe 'vnoremap <buffer> <silent> <del> :call <SID>NetrwLocalRm("'.mapsafecurdir.'")<cr>'
 exe 'nnoremap <buffer> <silent> D  :call <SID>NetrwLocalRm("'.mapsafecurdir.'")<cr>'
 exe 'vnoremap <buffer> <silent> D  :call <SID>NetrwLocalRm("'.mapsafecurdir.'")<cr>'
 exe 'nnoremap <buffer> <silent> R  :call <SID>NetrwLocalRename("'.mapsafecurdir.'")<cr>'
 exe 'vnoremap <buffer> <silent> R  :call <SID>NetrwLocalRename("'.mapsafecurdir.'")<cr>'
 exe 'nnoremap <buffer> <silent> <Leader>m :call <SID>NetrwMakeDir("")<cr>'
 nnoremap <buffer> <F1>  :he netrw-quickhelp<cr>

 else " remote
"   call Decho("make remote maps")
 call s:RemotePathAnalysis(b:netrw_curdir)
 nnoremap <buffer> <silent> <cr> :call
<SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,<SID>NetrwGetWord()))<cr>
 nnoremap <buffer> <silent> <c-l> :call <SID>NetrwRefresh(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
 nnoremap <buffer> <silent> -  :exe "norm! 0"<bar>call
<SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,'../'))<cr>
 nnoremap <buffer> <silent> a  :call <SID>NetrwHide(0)<cr>
 nnoremap <buffer> <silent> mb :<c-u>call <SID>NetrwBookHistHandler(0,b:netrw_curdir)<cr>
 nnoremap <buffer> <silent> mc :<c-u>call <SID>NetrwMarkFileCopy(0)<cr>
 nnoremap <buffer> <silent> md :<c-u>call <SID>NetrwMarkFileDiff(0)<cr>
 nnoremap <buffer> <silent> me :<c-u>call <SID>NetrwMarkFileEdit(0)<cr>
 nnoremap <buffer> <silent> mf :<c-u>call <SID>NetrwMarkFile(0,<SID>NetrwGetWord())<cr>
 nnoremap <buffer> <silent> mg :<c-u>call <SID>NetrwMarkFileGrep(0)<cr>
 nnoremap <buffer> <silent> mh :<c-u>call <SID>NetrwMarkHideSfx(0)<cr>
 nnoremap <buffer> <silent> mm :<c-u>call <SID>NetrwMarkFileMove(0)<cr>
 nnoremap <buffer> <silent> mp :<c-u>call <SID>NetrwMarkFilePrint(0)<cr>
 nnoremap <buffer> <silent> mr :<c-u>call <SID>NetrwMarkFileRegexp(0)<cr>
 nnoremap <buffer> <silent> ms :<c-u>call <SID>NetrwMarkFileSource(0)<cr>
 nnoremap <buffer> <silent> mT :<c-u>call <SID>NetrwMarkFileTag(0)<cr>
 nnoremap <buffer> <silent> mt :<c-u>call <SID>NetrwMarkFileTgt(0)<cr>
 nnoremap <buffer> <silent> mu :<c-u>call <SID>NetrwUnMarkFile(0)<cr>
 nnoremap <buffer> <silent> mx :<c-u>call <SID>NetrwMarkFileExe(0)<cr>
 nnoremap <buffer> <silent> mz :<c-u>call <SID>NetrwMarkFileCompress(0)<cr>
 nnoremap <buffer> <silent> gb :<c-u>call <SID>NetrwBookHistHandler(1,b:netrw_cur)<cr>
 nnoremap <buffer> <silent> gh :<c-u>call <SID>NetrwHidden(0)<cr>
 nnoremap <buffer> <silent> C  :let g:netrw_chgwin= winnr()<cr>
 nnoremap <buffer> <silent> i  :call <SID>NetrwListStyle(0)<cr>
 nnoremap <buffer> <silent> o  :call <SID>NetrwSplit(0)<cr>
 nnoremap <buffer> <silent> O  :call <SID>NetrwObtain(0)<cr>
```

```
  nnoremap <buffer> <silent> p  :call
<SID>NetrwPreview(<SID>NetrwBrowseChgDir(1,<SID>NetrwGetWord(),1))<cr>
  nnoremap <buffer> <silent> P  :call <SID>NetrwPrevWinOpen(0)<cr>
  nnoremap <buffer> <silent> qb :<c-u>call <SID>NetrwBookHistHandler(2,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> mB :<c-u>call <SID>NetrwBookHistHandler(6,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> qf :<c-u>call <SID>NetrwFileInfo(0,<SID>NetrwGetWord())<cr>
  nnoremap <buffer> <silent> r  :let g:netrw_sort_direction= (g:netrw_sort_direction =~ 'n')? 'r' : 'n'<bar>exe "norm!
0"<bar>call <SID>NetrwBrowse(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
  nnoremap <buffer> <silent> s  :call <SID>NetrwSortStyle(0)<cr>
  nnoremap <buffer> <silent> S  :call <SID>NetSortSequence(0)<cr>
  nnoremap <buffer> <silent> t  :call <SID>NetrwSplit(1)<cr>
  nnoremap <buffer> <silent> u  :<c-u>call <SID>NetrwBookHistHandler(4,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> U  :<c-u>call <SID>NetrwBookHistHandler(5,b:netrw_curdir)<cr>
  nnoremap <buffer> <silent> v  :call <SID>NetrwSplit(2)<cr>
  nnoremap <buffer> <silent> x  :call
netrw#NetrwBrowseX(<SID>NetrwBrowseChgDir(0,<SID>NetrwGetWord()),1)<cr>
  nnoremap <buffer> <silent> %  :call <SID>NetrwOpenFile(0)<cr>
  if !hasmapto('<Plug>NetrwHideEdit')
   nmap <buffer> <c-h> <Plug>NetrwHideEdit
  endif
  nnoremap <buffer> <silent> <Plug>NetrwHideEdit :call <SID>NetrwHideEdit(0)<cr>
  if !hasmapto('<Plug>NetrwRefresh')
   nmap <buffer> <c-l> <Plug>NetrwRefresh
  endif

  let mapsafepath     = escape(s:path, s:netrw_map_escape)
  let mapsafeusermach = escape(s:user.s:machine, s:netrw_map_escape)

  nnoremap <buffer> <silent> <Plug>NetrwRefresh  :call
<SID>NetrwRefresh(0,<SID>NetrwBrowseChgDir(0,'./'))<cr>
  if g:netrw_mousemaps == 1
   nnoremap <buffer> <silent> <leftmouse>   <leftmouse>:call <SID>NetrwLeftmouse(0)<cr>
   nnoremap <buffer> <silent> <middlemouse> <leftmouse>:call <SID>NetrwPrevWinOpen(0)<cr>
   nnoremap <buffer> <silent> <s-leftmouse> <leftmouse>:call
<SID>NetrwMarkFile(0,<SID>NetrwGetWord())<cr>
   exe 'nnoremap <buffer> <silent> <rightmouse> <leftmouse>:call
<SID>NetrwRemoteRm('".mapsafeusermach."','".mapsafepath."')<cr>'
   exe 'vnoremap <buffer> <silent> <rightmouse> <leftmouse>:call
<SID>NetrwRemoteRm('".mapsafeusermach."','".mapsafepath."')<cr>'
  endif
  exe 'nnoremap <buffer> <silent> <del> :call <SID>NetrwRemoteRm('".mapsafeusermach."','".mapsafepath."')<cr>'
  exe 'vnoremap <buffer> <silent> <del> :call <SID>NetrwRemoteRm('".mapsafeusermach."','".mapsafepath."')<cr>'
  exe 'nnoremap <buffer> <silent> d :call <SID>NetrwMakeDir('".mapsafeusermach."')<cr>'
  exe 'nnoremap <buffer> <silent> D :call <SID>NetrwRemoteRm('".mapsafeusermach."','".mapsafepath."')<cr>'
  exe 'vnoremap <buffer> <silent> D :call <SID>NetrwRemoteRm('".mapsafeusermach."','".mapsafepath."')<cr>'
  exe 'nnoremap <buffer> <silent> R :call <SID>NetrwRemoteRename('".mapsafeusermach."','".mapsafepath."')<cr>'
  exe 'vnoremap <buffer> <silent> R :call <SID>NetrwRemoteRename('".mapsafeusermach."','".mapsafepath."')<cr>'
  nnoremap <buffer> <F1>   :he netrw-quickhelp<cr>
```

```
 endif
 call s:SetRexDir(a:islocal,b:netrw_curdir)
"  call Dret("s:BrowserMaps")
endfun

" ---------------------------------------------------------------------
" s:ExplorePatHls: converts an Explore pattern into a regular expression search pattern {{{2
fun! s:ExplorePatHls(pattern)
"  call Dfunc("s:ExplorePatHls(pattern<".a:pattern.">)")
 let repat= substitute(a:pattern,'^**/\{1,2}',",")
"  call Decho("repat<".repat.">")
 let repat= escape(repat,'][.\')
"  call Decho("repat<".repat.">")
 let repat= '\<'.substitute(repat,'\*','\(\S\+ \)*\S\+','g').'\>'
"  call Dret("s:ExplorePatHls repat<".repat.">")
 return repat
endfun

" ---------------------------------------------------------------------
"  s:NetrwBookHistHandler: {{{2
"    0: (user: <mb>)   bookmark current directory
"    1: (user: <gb>)   change to the bookmarked directory
"    2: (user: <qb>)   list bookmarks
"    3: (browsing)     record current directory history
"    4: (user: <u>)    go up   (previous) bookmark
"    5: (user: <U>)    go down (next)     bookmark
"    6: (user: <mB>)   delete bookmark
fun! s:NetrwBookHistHandler(chg,curdir)
"  call Dfunc("NetrwBookHistHandler(chg=".a:chg." curdir<".a:curdir.">) cnt=".v:count."
histcnt=".g:netrw_dirhist_cnt." histmax=".g:netrw_dirhistmax)

 if a:chg == 0
  " bookmark the current directory
"   call Decho("(user: <b>) bookmark the current directory")
  if !exists("g:netrw_bookmarklist")
   let g:netrw_bookmarklist= []
  endif
  if index(g:netrw_bookmarklist,a:curdir) == -1
   " curdir not currently in g:netrw_bookmarklist, so include it
   call add(g:netrw_bookmarklist,a:curdir)
   call sort(g:netrw_bookmarklist)
  endif
  echo "bookmarked the current directory"

 elseif a:chg == 1
  " change to the bookmarked directory
"   call Decho("(user: <".v:count."mb>) change to the bookmarked directory")
  if exists("g:netrw_bookmarklist[v:count-1]")
```

```
  exe "e ".fnameescape(g:netrw_bookmarklist[v:count-1])
 else
  echomsg "Sorry, bookmark#".v:count." doesn't exist!"
 endif

 elseif a:chg == 2
"   redraw!
  let didwork= 0
  " list user's bookmarks
"   call Decho("(user: <q>) list user's bookmarks")
  if exists("g:netrw_bookmarklist")
"    call Decho('list '.len(g:netrw_bookmarklist).' bookmarks')
   let cnt= 1
   for bmd in g:netrw_bookmarklist
"     call Decho("Netrw Bookmark#".cnt.": ".g:netrw_bookmarklist[cnt-1])
    echo "Netrw Bookmark#".cnt.": ".g:netrw_bookmarklist[cnt-1]
    let didwork = 1
    let cnt     = cnt + 1
   endfor
  endif

  " list directory history
  let cnt     = g:netrw_dirhist_cnt
  let first   = 1
  let histcnt = 0
  while ( first || cnt != g:netrw_dirhist_cnt )
"    call Decho("first=".first." cnt=".cnt." dirhist_cnt=".g:netrw_dirhist_cnt)
   let histcnt= histcnt + 1
   if exists("g:netrw_dirhist_{cnt}")
"     call Decho("Netrw  History#".histcnt.": ".g:netrw_dirhist_{cnt})
    echo "Netrw  History#".histcnt.": ".g:netrw_dirhist_{cnt}
    let didwork= 1
   endif
   let first = 0
   let cnt   = ( cnt - 1 ) % g:netrw_dirhistmax
   if cnt < 0
    let cnt= cnt + g:netrw_dirhistmax
   endif
  endwhile
  if didwork
   call inputsave()|call input("Press <cr> to continue")|call inputrestore()
  endif

 elseif a:chg == 3
  " saves most recently visited directories (when they differ)
"   call Decho("(browsing) record curdir history")
  if !exists("g:netrw_dirhist_cnt") || !exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}") ||
g:netrw_dirhist_{g:netrw_dirhist_cnt} != a:curdir
```

```
  let g:netrw_dirhist_cnt                  = ( g:netrw_dirhist_cnt + 1 ) % g:netrw_dirhistmax
  let g:netrw_dirhist_{g:netrw_dirhist_cnt} = a:curdir
"    call Decho("save dirhist#".g:netrw_dirhist_cnt."<".g:netrw_dirhist_{g:netrw_dirhist_cnt}.">")
 endif

 elseif a:chg == 4
  " u: change to the previous directory stored on the history list
"   call Decho("(user: <u>) chg to prev dir from history")
  let g:netrw_dirhist_cnt= ( g:netrw_dirhist_cnt - 1 ) % g:netrw_dirhistmax
  if g:netrw_dirhist_cnt < 0
   let g:netrw_dirhist_cnt= g:netrw_dirhist_cnt + g:netrw_dirhistmax
  endif
  if exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}")
"    call Decho("changedir u#".g:netrw_dirhist_cnt."<".g:netrw_dirhist_{g:netrw_dirhist_cnt}.">")
   if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
    setlocal ma noro
"     call Decho("setlocal ma noro")
    %d
    setlocal nomod
"     call Decho("setlocal nomod")
   endif
"    "    call Decho("exe e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt}))
   exe "e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt})
  else
   let g:netrw_dirhist_cnt= ( g:netrw_dirhist_cnt + 1 ) % g:netrw_dirhistmax
   echo "Sorry, no predecessor directory exists yet"
  endif

 elseif a:chg == 5
  " U: change to the subsequent directory stored on the history list
"   call Decho("(user: <U>) chg to next dir from history")
  let g:netrw_dirhist_cnt= ( g:netrw_dirhist_cnt + 1 ) % g:netrw_dirhistmax
  if exists("g:netrw_dirhist_{g:netrw_dirhist_cnt}")
"    call Decho("changedir U#".g:netrw_dirhist_cnt."<".g:netrw_dirhist_{g:netrw_dirhist_cnt}.">")
   if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
    setlocal ma noro
"     call Decho("setlocal ma noro")
    %d
"     call Decho("removed all lines from buffer (%d)")
    setlocal nomod
"     call Decho("setlocal nomod")
   endif
"    call Decho("exe e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt}))
   exe "e! ".fnameescape(g:netrw_dirhist_{g:netrw_dirhist_cnt})
  else
   let g:netrw_dirhist_cnt= ( g:netrw_dirhist_cnt - 1 ) % g:netrw_dirhistmax
   if g:netrw_dirhist_cnt < 0
    let g:netrw_dirhist_cnt= g:netrw_dirhist_cnt + g:netrw_dirhistmax
```

```
  endif
  echo "Sorry, no successor directory exists yet"
 endif

 elseif a:chg == 6
  " delete the v:count'th bookmark
"   call Decho("delete bookmark#".v:count."<".g:netrw_bookmarklist[v:count-1].">")
  let savefile= s:NetrwHome()."/.netrwbook"
  if filereadable(savefile)
   call s:NetrwBookHistSave() " done here to merge bookmarks first
   call delete(savefile)
  endif
  call remove(g:netrw_bookmarklist,v:count-1)
 endif
 call s:NetrwBookmarkMenu()
"  call Dret("NetrwBookHistHandler")
endfun

" ---------------------------------------------------------------------
" s:NetrwBookHistRead: this function reads bookmarks and history {{{2
"                      Sister function: s:NetrwBookHistSave()
fun! s:NetrwBookHistRead()
"  call Dfunc("s:NetrwBookHistRead()")
 if !exists("s:netrw_initbookhist")
  let savefile= s:NetrwHome()."/.netrwbook"
  if filereadable(savefile)
"    call Decho("sourcing .netrwbook")
   exe "so ".savefile
  endif
  let savefile= s:NetrwHome()."/.netrwhist"
  if filereadable(savefile)
"    call Decho("sourcing .netrwhist")
   exe "so ".savefile
  endif
  let s:netrw_initbookhist= 1
  au VimLeave * call s:NetrwBookHistSave()
 endif
"  call Dret("s:NetrwBookHistRead")
endfun

" ---------------------------------------------------------------------
" s:NetrwBookHistSave: this function saves bookmarks and history {{{2
"                      Sister function: s:NetrwBookHistRead()
"                      I used to do this via viminfo but that appears to
"                      be unreliable for long-term storage
"                      COMBAK: does $HOME work under windows???
fun! s:NetrwBookHistSave()
"  call Dfunc("s:NetrwBookHistSave() dirhistmax=".g:netrw_dirhistmax)
```

```
 let savefile= s:NetrwHome()."/.netrwhist"
 1split
 enew
 setlocal noswf

 " save .netrwhist -- no attempt to merge
 file .netrwhist
 call setline(1,"let g:netrw_dirhistmax  =".g:netrw_dirhistmax)
 call setline(2,"let g:netrw_dirhist_cnt =".g:netrw_dirhist_cnt)
 let lastline = line("$")
 let cnt      = 1
 while cnt <= g:netrw_dirhist_cnt
  call setline((cnt+lastline),'let g:netrw_dirhist_'.cnt."='".g:netrw_dirhist_{cnt}."'")
  let cnt= cnt + 1
 endwhile
 exe "silent! w! ".savefile
 %d

 if exists("g:netrw_bookmarklist") && g:netrw_bookmarklist != []
  " merge and write .netrwbook
  let savefile= s:NetrwHome()."/.netrwbook"

  if filereadable(savefile)
   let booklist= deepcopy(g:netrw_bookmarklist)
   exe "silent so ".savefile
   for bdm in booklist
    if index(g:netrw_bookmarklist,bdm) == -1
     call add(g:netrw_bookmarklist,bdm)
    endif
   endfor
   call sort(g:netrw_bookmarklist)
   exe "silent! w! ".savefile
  endif

  " construct and save .netrwbook
  call setline(1,"let g:netrw_bookmarklist= ".string(g:netrw_bookmarklist))
  exe "silent! w! ".savefile
 endif
 let bgone= bufnr("%")
 q!
 exe bgone."bwipe!"

"  call Dret("s:NetrwBookHistSave")
endfun

" ---------------------------------------------------------------------
" s:NetrwBrowse: This function uses the command in g:netrw_list_cmd to provide a {{{2
"  list of the contents of a local or remote directory.  It is assumed that the
```

```
"  g:netrw_list_cmd has a string, USEPORT HOSTNAME, that needs to be substituted
"  with the requested remote hostname first.
fun! s:NetrwBrowse(islocal,dirname)
 if !exists("w:netrw_liststyle")|let w:netrw_liststyle= g:netrw_liststyle|endif
"  call Dfunc("s:NetrwBrowse(islocal=".a:islocal." dirname<".a:dirname.">) liststyle=".w:netrw_liststyle."
".g:loaded_netrw." buf#".bufnr("%")."<".bufname("%").">")
"  call Decho("tab#".tabpagenr()." win#".winnr())
"  call Dredir("ls!")
 if !exists("s:netrw_initbookhist")
  call s:NetrwBookHistRead()
 endif

 if exists("s:netrw_skipbrowse")
  unlet s:netrw_skipbrowse
"   call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"   call Dret("s:NetrwBrowse : s:netrw_skipbrowse=".s:netrw_skipbrowse)
  return
 endif
 if !exists("*shellescape")
  call netrw#ErrorMsg(s:ERROR,"netrw can't run -- your vim is missing shellescape()",69)
"   call Dret("s:NetrwBrowse : missing shellescape()")
  return
 endif
 if !exists("*fnameescape")
  call netrw#ErrorMsg(s:ERROR,"netrw can't run -- your vim is missing fnameescape()",70)
"   call Dret("s:NetrwBrowse : missing fnameescape()")
  return
 endif

 call s:NetrwOptionSave("w:")
 call s:NetrwSafeOptions()

 " re-instate any marked files
 if exists("s:netrwmarkfilelist_{bufnr('%')}")
"   call Decho("clearing marked files")
  exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/"
 endif

 if a:islocal && exists("w:netrw_acdkeep") && w:netrw_acdkeep
"   call Decho("handle w:netrw_acdkeep:")
"   call Decho("keepjumps lcd ".fnameescape(a:dirname)." (due to w:netrw_acdkeep=".w:netrw_acdkeep." -
acd=".&acd.")")
  exe 'keepjumps lcd '.fnameescape(a:dirname)
"   call Decho("getcwd<".getcwd().">")

 elseif !a:islocal && a:dirname !~ '[\/]$' && a:dirname !~ '^"'
  " looks like a regular file, attempt transfer
"   call Decho("attempt transfer as regular file<".a:dirname.">")
```

```
 " remove any filetype indicator from end of dirname, except for the {{{3
 " "this is a directory" indicator (/).
 " There shouldn't be one of those here, anyway.
 let path= substitute(a:dirname,'[*=@|]\r\=$','','e')
"   call Decho("new path<".path.">")
 call s:RemotePathAnalysis(a:dirname)

 " remote-read the requested file into current buffer {{{3
 mark '
 call s:NetrwEnew(a:dirname)
 setlocal ma noro
"   call Decho("setlocal ma noro")
 let b:netrw_curdir= a:dirname
"   call Decho("exe silent! keepalt file ".fnameescape(s:method."://".s:user.s:machine."/".s:path)." (bt=".&bt.")")
 exe "silent! keepalt file ".fnameescape(s:method."://".s:user.s:machine."/".s:path)
 exe "silent keepalt doau BufReadPre ".fnameescape(s:fname)
 silent call netrw#NetRead(2,s:method."://".s:user.s:machine."/".s:path)
 if s:path !~ '.tar.bz2$' && s:path !~ '.tar.gz'
  " netrw.vim and tar.vim have already handled decompression of the tarball; avoiding gzip.vim error
  exe "silent keepalt doau BufReadPost ".fnameescape(s:fname)
 endif

 " save certain window-oriented variables into buffer-oriented variables {{{3
 call s:SetBufWinVars()
 call s:NetrwOptionRestore("w:")
 setlocal ma nomod

"   call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"   call Dret("s:NetrwBrowse : file<".s:fname.">")
 return
endif

 " use buffer-oriented WinVars if buffer ones exist but window ones don't {{{3
 call s:UseBufWinVars()

 " set up some variables {{{3
 let b:netrw_browser_active = 1
 let dirname                = a:dirname
 let s:last_sort_by         = g:netrw_sort_by

 " set up menu {{{3
 call s:NetrwMenu(1)

 " set up buffer {{{3
 let reusing= s:NetrwGetBuffer(a:islocal,dirname)
 " maintain markfile highlighting
 if exists("s:netrwmarkfilemtch_{bufnr('%')}") && s:netrwmarkfilemtch_{bufnr("%")} != ""
```

```
"   call Decho("bufnr(%)=".bufnr('%'))
"   call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
 exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/"
 else
"   call Decho("2match none")
 2match none
 endif
 if reusing
  call s:NetrwOptionRestore("w:")
  setlocal noma nomod nowrap
"   call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"   call Dret("s:NetrwBrowse : re-using buffer")
  return
 endif

 " set b:netrw_curdir to the new directory name {{{3
"  call Decho("set b:netrw_curdir to the new directory name:")
  let b:netrw_curdir= dirname
 if b:netrw_curdir =~ '[/\\]$'
  let b:netrw_curdir= substitute(b:netrw_curdir,'[/\\]$','','e')
 endif
 if b:netrw_curdir == ''
  if has("amiga")
   " On the Amiga, the empty string connotes the current directory
   let b:netrw_curdir= getcwd()
  else
   " under unix, when the root directory is encountered, the result
   " from the preceding substitute is an empty string.
   let b:netrw_curdir= '/'
  endif
 endif
 if !a:islocal && b:netrw_curdir !~ '/$'
  let b:netrw_curdir= b:netrw_curdir.'/'
 endif
"  call Decho("b:netrw_curdir<".b:netrw_curdir.">")

 " ------------
 " (local only) {{{3
 " ------------
 if a:islocal
"   call Decho("local only:")

  " Set up ShellCmdPost handling.  Append current buffer to browselist
  call s:LocalFastBrowser()

 " handle g:netrw_keepdir: set vim's current directory to netrw's notion of the current directory {{{3
  if !g:netrw_keepdir
"    call Decho("handle g:netrw_keepdir=".g:netrw_keepdir.": getcwd<".getcwd()."> acd=".&acd)
```

```
"    call Decho("l:acd".(exists("&l:acd")? "=".&l:acd : " doesn't exist"))
   if !exists("&l:acd") || !&l:acd
"     call Decho('exe keepjumps lcd '.fnameescape(b:netrw_curdir))
    try
     exe 'keepjumps lcd '.fnameescape(b:netrw_curdir)
    catch /^Vim\%((\a\+)\)\=:E472/
     call netrw#ErrorMsg(s:ERROR,"unable to change directory to <".b:netrw_curdir."> (permissions?)",61)
     if exists("w:netrw_prvdir")
      let b:netrw_curdir= w:netrw_prvdir
     else
      call s:NetrwOptionRestore("w:")
      setlocal noma nomod nowrap
      let b:netrw_curdir= dirname
"       call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"       call Dret("s:NetrwBrowse : reusing buffer#".(exists("bufnum")? bufnum : 'N/A')."<".dirname.">
getcwd<".getcwd().">")
      return
     endif
    endtry
   endif
  endif

 " ---------------------------------
 " remote handling: {{{3
 " ---------------------------------
 else
"   call Decho("remote only:")

  " analyze a:dirname and g:netrw_list_cmd {{{4
"   call Decho("b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "doesn't exist").">
a:dirname<".a:dirname.">")
  if a:dirname =~ "^NetrwTreeListing\>"
   let dirname= b:netrw_curdir
"    call Decho("(dirname was ".a:dirname.") dirname<".dirname.">")
  elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir")
   let dirname= substitute(b:netrw_curdir,'\\','/','g')
   if dirname !~ '/$'
    let dirname= dirname.'/'
   endif
   let b:netrw_curdir = dirname
"    call Decho("(liststyle is TREELIST) dirname<".dirname.">")
  else
   let dirname = substitute(a:dirname,'\\','/','g')
"    call Decho("(normal) dirname<".dirname.">")
  endif

  let dirpat  = '^\(\w\{-}\)://\(\w\+@\)\=\([^/]\+\)/\(.*\)$'
  if dirname !~ dirpat
```

```
  if !exists("g:netrw_quiet")
   call netrw#ErrorMsg(s:ERROR,"netrw doesn't understand your dirname<".dirname.">",20)
  endif
  call s:NetrwOptionRestore("w:")
  setlocal noma nomod nowrap
"    call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"    call Dret("s:NetrwBrowse : badly formatted dirname<".dirname.">")
  return
 endif
 let b:netrw_curdir= dirname
"   call Decho("b:netrw_curdir<".b:netrw_curdir."> (remote)")
endif  " (additional remote handling)

" ----------------------
" Directory Listing: {{{3
" ----------------------
call s:BrowserMaps(a:islocal)
call s:PerformListing(a:islocal)

" The s:LocalBrowseShellCmdRefresh() function is called by an autocmd
" installed by s:LocalFastBrowser() when g:netrw_fastbrowse <= 1 (ie. slow, medium speed).
" However, s:NetrwBrowse() causes the ShellCmdPost event itself to fire once; setting
" the variable below avoids that second refresh of the screen.  The s:LocalBrowseShellCmdRefresh()
" function gets called due to that autocmd; it notices that the following variable is set
" and skips the refresh and sets s:locbrowseshellcmd to zero. Oct 13, 2008
let s:locbrowseshellcmd= 1

"  call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"  call Dret("s:NetrwBrowse : did PerformListing")
return
endfun

" ---------------------------------------------------------------------
" s:NetrwFileInfo: supports qf (query for file information) {{{2
fun! s:NetrwFileInfo(islocal,fname)
"  call Dfunc("s:NetrwFileInfo(islocal=".a:islocal." fname<".a:fname.">)")
 if a:islocal
  if (has("unix") || has("macunix")) && executable("/bin/ls")
   if exists("b:netrw_curdir")
"     call Decho('using ls with b:netrw_curdir<'.b:netrw_curdir.'>')
    if b:netrw_curdir =~ '/$'
     echo system("/bin/ls -lsad ".shellescape(b:netrw_curdir.a:fname))
    else
     echo system("/bin/ls -lsad ".shellescape(b:netrw_curdir."/".a:fname))
    endif
   else
"     call Decho('using ls '.a:fname." using cwd<".getcwd().">")
    echo system("/bin/ls -lsad ".shellescape(a:fname))
```

```
  endif
 else
  " use vim functions to return information about file below cursor
"    call Decho("using vim functions to query for file info")
  if !isdirectory(a:fname) && !filereadable(a:fname) && a:fname =~ '[*@/]'
   let fname= substitute(a:fname,".$","","")
  else
   let fname= a:fname
  endif
  let t  = getftime(fname)
  let sz = getfsize(fname)
  echo a:fname.":  ".sz."  ".strftime(g:netrw_timefmt,getftime(fname))
"    call Decho(fname.":  ".sz."  ".strftime(g:netrw_timefmt,getftime(fname)))
 endif
else
 echo "sorry, \"qf\" not supported yet for remote files"
endif
"  call Dret("s:NetrwFileInfo")
endfun

" ---------------------------------------------------------------------
" s:NetrwGetBuffer: {{{2
"    returns 0=cleared buffer
"            1=re-used buffer
fun! s:NetrwGetBuffer(islocal,dirname)
"  call Dfunc("s:NetrwGetBuffer(islocal=".a:islocal." dirname<".a:dirname.">) liststyle=".g:netrw_liststyle)
 let dirname= a:dirname

 " re-use buffer if possible {{{3
"  call Decho("--re-use a buffer if possible--")
 if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
  " find NetrwTreeList buffer if there is one
  if exists("w:netrw_treebufnr") && w:netrw_treebufnr > 0
"    call Decho("  re-use w:netrw_treebufnr=".w:netrw_treebufnr)
   let eikeep= &ei
   set ei=all
   exe "b ".w:netrw_treebufnr
   let &ei= eikeep
"    call Dret("s:NetrwGetBuffer : bufnum#".w:netrw_treebufnr."<NetrwTreeListing>")
   return
  endif
  let bufnum= -1
"   call Decho("  liststyle=TREE but w:netrw_treebufnr doesn't exist")

 else
  " find buffer number of buffer named precisely the same as dirname {{{3
"   call Decho("--find buffer numnber of buffer named precisely the same as dirname--")
"   call Dredir("ls!")
```

```
  " get dirname and associated buffer number
  let bufnum  = bufnr(escape(dirname,'\'))
"   call Decho("  find buffer<".dirname.">'s number ")
"   call Decho("  bufnr(dirname<".escape(dirname,'\').">)=".bufnum)

  if bufnum < 0 && dirname !~ '/$'
   " trying appending a trailing /
"    call Decho("  try appending a trailing / to dirname<".dirname.">")
   let bufnum= bufnr(escape(dirname.'/','\'))
   if bufnum > 0
    let dirname= dirname.'/'
   endif
  endif

  if bufnum < 0 && dirname =~ '/$'
   " trying removing a trailing /
"    call Decho("  try removing a trailing / from dirname<".dirname.">")
   let bufnum= bufnr(escape(substitute(dirname,'/$',''),'\'))
   if bufnum > 0
    let dirname= substitute(dirname,'/$','')
   endif
  endif

"   call Decho("  findbuf1: bufnum=bufnr('".dirname."')=".bufnum." bufname(".bufnum.")<".bufname(bufnum).">
(initial)")
  " note: !~ was used just below, but that means using ../ to go back would match (ie. abc/def/  and abc/ matches)
  if bufnum > 0 && bufname(bufnum) != dirname && bufname(bufnum) != '.'
   " handle approximate matches
"    call Decho("  handling approx match: bufnum#%d<".bufname(bufnum).">  approx=dirname<".dirname.">")
   let ibuf    = 1
   let buflast = bufnr("$")
"    call Decho("  findbuf2: buflast=".buflast)
   while ibuf <= buflast
    let bname= substitute(bufname(ibuf),'\\','/','g')
    let bname= substitute(bname,'\zs/$','','')
"     call Decho("  findbuf3: dirname<".dirname."> bufname(".ibuf.")<".bname.">")
    if bname != '' && dirname =~ '/'.bname.'/\=$' | break | endif
    if bname   =~ '^'.dirname.'/\=$' | break | endif
    if dirname =~ '^'.bname.'/$'     | break | endif
    let ibuf= ibuf + 1
   endwhile
   if ibuf > buflast
    let bufnum= -1
   else
    let bufnum= ibuf
   endif
"    call Decho("  findbuf4: bufnum=".bufnum." (ibuf=".ibuf." buflast=".buflast.")")
```

```
 endif
endif

 " get enew buffer and name it -or- re-use buffer {{{3
"  call Decho("--get enew buffer and name it OR re-use buffer-- (bufnum=".bufnum.")")
 mark '
 if bufnum < 0 || !bufexists(bufnum)
  call s:NetrwEnew(dirname)
"   call Decho("  got enew buffer#".bufnr("%")." (altbuf<".expand("#").">)")
  " name the buffer
  if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
   " Got enew buffer; transform into a NetrwTreeListing
"    call Decho("--transform enew buffer#".bufnr("%")." into a NetrwTreeListing --")
   if !exists("s:netrw_treelistnum")
    let s:netrw_treelistnum= 1
   else
    let s:netrw_treelistnum= s:netrw_treelistnum + 1
   endif
   let w:netrw_treebufnr= bufnr("%")
"    call Decho("  exe silent! keepalt file NetrwTreeListing ".fnameescape(s:netrw_treelistnum))
   exe 'silent! keepalt file NetrwTreeListing\ '.fnameescape(s:netrw_treelistnum)
   nnoremap <silent> <buffer> [ :silent call <SID>TreeListMove('[')<cr>
   nnoremap <silent> <buffer> ] :silent call <SID>TreeListMove(']')<cr>
   nnoremap <silent> <buffer> [[       :silent call <SID>TreeListMove('[')<cr>
   nnoremap <silent> <buffer> ]]       :silent call <SID>TreeListMove(']')<cr>
"    call Decho("  tree listing#".s:netrw_treelistnum." bufnr=".w:netrw_treebufnr)
  else
"    let v:errmsg= "" " Decho
   let escdirname= fnameescape(dirname)
"    call Decho("  errmsg<".v:errmsg.">
bufnr(".escdirname.")=".bufnr(escdirname)."<".bufname(bufnr(escdirname)).">")
"    call Decho('  exe silent! keepalt file '.escdirname)
   exe 'silent! keepalt file '.escdirname
"    call Decho("  errmsg<".v:errmsg.">
bufnr(".escdirname.")=".bufnr(escdirname)."<".bufname(bufnr(escdirname)).">")
  endif
"   call Decho("  named enew buffer#".bufnr("%")."<".bufname("%").">")

 else " Re-use the buffer
"   call Decho("--re-use buffer#".bufnum.": --")
  let eikeep= &ei
  set ei=all
  if getline(2) =~ '^" Netrw Directory Listing'
"    call Decho("  re-use buffer#".bufnum."<".((bufnum > 0)? bufname(bufnum) : "").'> using:  keepalt b '.bufnum)
   exe "keepalt b ".bufnum
  else
"    call Decho("  reusing buffer#".bufnum."<".((bufnum > 0)? bufname(bufnum) : "").'> using:  b '.bufnum)
   exe "b ".bufnum
```

```
 endif
 if bufname("%") == '.'
"    call Decho("exe silent! keepalt file ".fnameescape(getcwd()))
  exe "silent! keepalt file ".fnameescape(getcwd())
 endif
 let &ei= eikeep
 if line("$") <= 1
  call s:NetrwListSettings(a:islocal)
"    call Dret("s:NetrwGetBuffer 0 : re-using buffer#".bufnr("%").", but its empty, so refresh it")
  return 0
 elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
"    call Decho("--re-use tree listing--")
"    call Decho("  clear buffer<".expand("%").."> with :%d")
  silent %d
  call s:NetrwListSettings(a:islocal)
"    call Dret("s:NetrwGetBuffer 0 : re-using buffer#".bufnr("%").", but treelist mode always needs a refresh")
  return 0
 else
"    call Dret("s:NetrwGetBuffer 1 : buf#".bufnr("%"))
  return 1
 endif
endif

 " do netrw settings: make this buffer not-a-file, modifiable, not line-numbered, etc {{{3
 "     fastbrowse  Local  Remote   Hiding a buffer implies it may be re-used (fast)
 "  slow   0         D      D      Deleting a buffer implies it will not be re-used (slow)
 "  med    1         D      H
 "  fast   2         H      H
"  call Decho("--do netrw settings: make this buffer not-a-file, modifiable, not line-numbered, etc--")
 let fname= expand("%")
 call s:NetrwListSettings(a:islocal)
"  call Decho("exe keepalt file ".fnameescape(fname))
 exe "keepalt file ".fnameescape(fname)

 " delete all lines from buffer {{{3
"  call Decho("--delete all lines from buffer--")
"  call Decho("  clear buffer<".expand("%").."> with :%d")
 keepalt silent! %d

"  call Dret("s:NetrwGetBuffer 0 : buf#".bufnr("%"))
 return 0
endfun

" ---------------------------------------------------------------------
" s:NetrwGetcwd: get the current directory. {{{2
"   Change backslashes to forward slashes, if any.
"   If doesc is true, escape certain troublesome characters
fun! s:NetrwGetcwd(doesc)
```

```
"  call Dfunc("NetrwGetcwd(doesc=".a:doesc.")")
 let curdir= substitute(getcwd(),'\\','/','ge')
 if curdir !~ '[\/]$'
  let curdir= curdir.'/'
 endif
 if a:doesc
  let curdir= fnameescape(curdir)
 endif
"  call Dret("NetrwGetcwd <".curdir.">")
 return curdir
endfun

" ---------------------------------------------------------------------
"  s:NetrwGetWord: it gets the directory/file named under the cursor {{{2
fun! s:NetrwGetWord()
"  call Dfunc("s:NetrwGetWord() line#".line(".")." liststyle=".g:netrw_liststyle." virtcol=".virtcol("."))
 call s:UseBufWinVars()

 " insure that w:netrw_liststyle is set up
 if !exists("w:netrw_liststyle")
  if exists("g:netrw_liststyle")
   let w:netrw_liststyle= g:netrw_liststyle
  else
   let w:netrw_liststyle= s:THINLIST
  endif
"   call Decho("w:netrw_liststyle=".w:netrw_liststyle)
 endif

 if exists("w:netrw_bannercnt") && line(".") < w:netrw_bannercnt
  " Active Banner support
"   call Decho("active banner handling")
  norm! 0
  let dirname= "./"
  let curline= getline('.')

  if curline =~ '"\s*Sorted by\s'
   norm s
   let s:netrw_skipbrowse= 1
   echo 'Pressing "s" also works'

  elseif curline =~ '"\s*Sort sequence:'
   let s:netrw_skipbrowse= 1
   echo 'Press "S" to edit sorting sequence'

  elseif curline =~ '"\s*Quick Help:'
   norm ?
   let s:netrw_skipbrowse= 1
   echo 'Pressing "?" also works'
```

```
 elseif curline =~ '"\s*\%(Hiding\|Showing\):'
  norm a
  let s:netrw_skipbrowse= 1
  echo 'Pressing "a" also works'

 elseif line("$") > w:netrw_bannercnt
  exe 'silent keepjumps '.w:netrw_bannercnt
 endif

 elseif w:netrw_liststyle == s:THINLIST
"   call Decho("thin column handling")
  norm! 0
  let dirname= getline('.')

 elseif w:netrw_liststyle == s:LONGLIST
"   call Decho("long column handling")
  norm! 0
  let dirname= substitute(getline('.'),'^\(\%(\S\+ \)*\S\+\).\{-}$','\1','e')

 elseif w:netrw_liststyle == s:TREELIST
"   call Decho("treelist handling")
  let dirname= substitute(getline('.'),'^\(| \)*','','e')

 else
"   call Decho("obtain word from wide listing")
  let dirname= getline('.')

  if !exists("b:netrw_cpf")
   let b:netrw_cpf= 0
   exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^./if virtcol("$") > b:netrw_cpf|let b:netrw_cpf= virtcol("$")|endif'
"   call Decho("computed cpf=".b:netrw_cpf)
  endif

"   call Decho("buf#".bufnr("%")."<".bufname("%").">")
  let filestart = (virtcol(".")/b:netrw_cpf)*b:netrw_cpf
"   call Decho("filestart= ([virtcol=".virtcol(".")."]/[b:netrw_cpf=".b:netrw_cpf."])*b:netrw_cpf=".filestart."
bannercnt=".w:netrw_bannercnt)
"   call Decho("1: dirname<".dirname.">")
  if filestart == 0
   norm! 0ma
  else
   call cursor(line("."),filestart+1)
   norm! ma
  endif
  let rega= @a
  let eofname= filestart + b:netrw_cpf + 1
  if eofname <= col("$")
```

```
  call cursor(line("."),filestart+b:netrw_cpf+1)
  norm! "ay'a
 else
  norm! "ay$
 endif
 let dirname = @a
 let @a      = rega
"   call Decho("2: dirname<".dirname.">")
 let dirname= substitute(dirname,'\s\+$','','e')
"   call Decho("3: dirname<".dirname.">")
 endif

 " symlinks are indicated by a trailing "@".  Remove it before further processing.
 let dirname= substitute(dirname,"@$","","")

 " executables are indicated by a trailing "*".  Remove it before further processing.
 let dirname= substitute(dirname,"\*$","","")

"  call Dret("s:NetrwGetWord <".dirname.">")
 return dirname
endfun

" ---------------------------------------------------------------------
" s:NetrwListSettings: {{{2
fun! s:NetrwListSettings(islocal)
"  call Dfunc("s:NetrwListSettings(islocal=".a:islocal.")")
 let fname= bufname("%")
"  call Decho("setlocal bt=nofile nobl ma nonu nowrap noro")
 setlocal bt=nofile nobl ma nonu nowrap noro
"  call Decho("exe keepalt file ".fnameescape(fname))
 exe "keepalt file ".fnameescape(fname)
 if g:netrw_use_noswf
  setlocal noswf
 endif
"  call Dredir("ls!")
"  call Decho("exe setlocal ts=".g:netrw_maxfilenamelen)
 exe "setlocal ts=".g:netrw_maxfilenamelen
 setlocal isk+=.,~,-
 if g:netrw_fastbrowse > a:islocal
  setlocal bh=hide
 else
  setlocal bh=delete
 endif
"  call Dret("s:NetrwListSettings")
endfun

" ---------------------------------------------------------------------
"  s:NetrwListStyle: {{{2
```

```
"  islocal=0: remote browsing
"        =1: local browsing
fun! s:NetrwListStyle(islocal)
"  call Dfunc("NetrwListStyle(islocal=".a:islocal.") w:netrw_liststyle=".w:netrw_liststyle)
 let fname            = s:NetrwGetWord()
 if !exists("w:netrw_liststyle")|let w:netrw_liststyle= g:netrw_liststyle|endif
 let w:netrw_liststyle = (w:netrw_liststyle + 1) % s:MAXLIST
"  call Decho("fname<".fname.">")
"  call Decho("chgd w:netrw_liststyle to ".w:netrw_liststyle)
"  call Decho("b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "doesn't exist").">")

 if w:netrw_liststyle == s:THINLIST
  " use one column listing
"   call Decho("use one column list")
  let g:netrw_list_cmd = substitute(g:netrw_list_cmd,' -l','','ge')

 elseif w:netrw_liststyle == s:LONGLIST
  " use long list
"   call Decho("use long list")
  let g:netrw_list_cmd = g:netrw_list_cmd." -l"

 elseif w:netrw_liststyle == s:WIDELIST
  " give wide list
"   call Decho("use wide list")
  let g:netrw_list_cmd = substitute(g:netrw_list_cmd,' -l','','ge')

 elseif w:netrw_liststyle == s:TREELIST
"   call Decho("use tree list")
  let g:netrw_list_cmd = substitute(g:netrw_list_cmd,' -l','','ge')

 else
  call netrw#ErrorMsg(s:WARNING,"bad value for g:netrw_liststyle (=".w:netrw_liststyle.")",46)
  let g:netrw_liststyle = s:THINLIST
  let w:netrw_liststyle = g:netrw_liststyle
  let g:netrw_list_cmd  = substitute(g:netrw_list_cmd,' -l','','ge')
 endif
 setlocal ma noro
"  call Decho("setlocal ma noro")

 " clear buffer - this will cause NetrwBrowse/LocalBrowseCheck to do a refresh
"  call Decho("clear buffer<".expand("%")."> with :%d")
 %d

 " refresh the listing
 let svpos= netrw#NetrwSavePosn()
 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)
 if w:netrw_liststyle != s:WIDELIST
```

```
 if g:netrw_cursorline == 2
  setlocal cursorline
  let &cursorcolumn= s:netrw_usercuc
 elseif g:netrw_cursorline
  setlocal cursorline
"    call Decho("setlocal cursorline")
 endif
else
 if g:netrw_cursorline == 2
  setlocal cursorline cursorcolumn
"    call Decho("setlocal cursorline cursorcolumn")
 elseif g:netrw_cursorline
  let &cursorline= s:netrw_usercul
 endif
endif

" keep cursor on the filename
silent keepjumps $
let result= search('\%(^\%(|\+\s\)\=\|\s\{2,}\)\zs'.escape(fname,'.\[]*$^').'\%(\s\{2,}\|$\)','bc')
"  call Decho("search result=".result." w:netrw_bannercnt=".(exists("w:netrw_bannercnt")? w:netrw_bannercnt :
'N/A'))
if result <= 0 && exists("w:netrw_bannercnt")
 exe "keepjumps ".w:netrw_bannercnt
endif

"  call Dret("NetrwListStyle".(exists("w:netrw_liststyle")? ' : w:netrw_liststyle='.w:netrw_liststyle : ""))
endfun

" ---------------------------------------------------------------------
" s:NetrwBookmarkMenu: Uses menu priorities {{{2
"                      .2.[cnt] for bookmarks, and
"                      .3.[cnt] for history
"                      (see s:NetrwMenu())
fun! s:NetrwBookmarkMenu()
 if !exists("s:netrw_menucnt")
  return
 endif
"  call Dfunc("NetrwBookmarkMenu()  histcnt=".g:netrw_dirhist_cnt." menucnt=".s:netrw_menucnt)

 " the following test assures that gvim is running, has menus available, and has menus enabled.
 if has("gui") && has("menu") && has("gui_running") && &go =~ 'm' && g:netrw_menu
  if exists("g:NetrwTopLvlMenu")
"    call Decho("removing ".g:NetrwTopLvlMenu."Bookmarks menu item(s)")
   exe 'silent! unmenu '.g:NetrwTopLvlMenu.'Bookmarks'
   exe 'silent! unmenu '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Bookmark\ Delete'
  endif
  if !exists("s:netrw_initbookhist")
   call s:NetrwBookHistRead()
```

```
 endif

 " show bookmarked places
 if exists("g:netrw_bookmarklist") && g:netrw_bookmarklist != []
  let cnt= 1
  for bmd in g:netrw_bookmarklist
"     call Decho('silent! menu '.g:NetrwMenuPriority.".2.".cnt." ".g:NetrwTopLvlMenu.'Bookmark.'.bmd.' :e '.bmd)
   let bmd= escape(bmd,'. ')

   " show bookmarks for goto menu
   exe 'silent! menu '.g:NetrwMenuPriority.".2.".cnt." ".g:NetrwTopLvlMenu.'Bookmarks.'.bmd.' :e '.bmd."\<cr>"

   " show bookmarks for deletion menu
   exe 'silent! menu '.g:NetrwMenuPriority.".8.2.".cnt." ".g:NetrwTopLvlMenu.'Bookmarks\ and\
History.Bookmark\ Delete.'.bmd.' '.cnt."mB"
   let cnt= cnt + 1
  endfor

 endif

 " show directory browsing history
 let cnt     = g:netrw_dirhist_cnt
 let first   = 1
 let histcnt = 0
 while ( first || cnt != g:netrw_dirhist_cnt )
  let histcnt  = histcnt + 1
  let priority = g:netrw_dirhist_cnt + histcnt
  if exists("g:netrw_dirhist_{cnt}")
   let histdir= escape(g:netrw_dirhist_{cnt},'./&? ')
"     call Decho('silent! menu '.g:NetrwMenuPriority.".3.".priority." ".g:NetrwTopLvlMenu.'History.'.histdir.' :e
'.histdir)
   exe 'silent! menu '.g:NetrwMenuPriority.".3.".priority." ".g:NetrwTopLvlMenu.'History.'.histdir.' :e
'.histdir."\<cr>"
  endif
  let first = 0
  let cnt   = ( cnt - 1 ) % g:netrw_dirhistmax
  if cnt < 0
   let cnt= cnt + g:netrw_dirhistmax
  endif
 endwhile

endif
"  call Dret("NetrwBookmarkMenu")
endfun

" ---------------------------------------------------------------------
"  s:NetrwBrowseChgDir: constructs a new directory based on the current {{{2
"                       directory and a new directory name.  Also, if the
```

```
"                   "new directory name" is actually a file,
"                   NetrwBrowseChgDir() edits the file.
fun! s:NetrwBrowseChgDir(islocal,newdir,...)
"  call Dfunc("s:NetrwBrowseChgDir(islocal=".a:islocal."> newdir<".a:newdir.">) a:0=".a:0."
curpos<".string(getpos(".")).."> b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : "").">")

 if !exists("b:netrw_curdir")
  " Don't try to change-directory: this can happen, for example, when netrw#ErrorMsg has been called
  " and the current window is the NetrwMessage window.
"   call Decho("(NetrwBrowseChgDir) b:netrw_curdir doesn't exist!")
"   call Decho("getcwd<".getcwd().">")
"   call Dredir("ls!")
"   call Dret("s:NetrwBrowseChgDir")
  return
 endif

 call s:NetrwOptionSave("s:")
 call s:NetrwSafeOptions()
 let nbcd_curpos              = netrw#NetrwSavePosn()
 let s:nbcd_curpos_{bufnr('%')} = nbcd_curpos
 let dirname                  = substitute(b:netrw_curdir,'\\','/','ge')
 let newdir                   = a:newdir
 let dolockout                = 0

 " set up o/s-dependent directory recognition pattern
 if has("amiga")
  let dirpat= '[\/:]$'
 else
  let dirpat= '[\/]$'
 endif
"  call Decho("dirname<".dirname.">  dirpat<".dirpat.">")

 if dirname !~ dirpat
  " apparently vim is "recognizing" that it is in a directory and
  " is removing the trailing "/".  Bad idea, so I put it back.
  let dirname= dirname.'/'
"   call Decho("adjusting dirname<".dirname.">")
 endif

 if newdir !~ dirpat
  " ------------
  " edit a file:
  " ------------
"   call Decho('case "handling a file": newdir<'.newdir.'> !~ dirpat<'.dirpat.">")
  if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict") && newdir !~
'^\(/\|\a:\)'
   let dirname= s:NetrwTreeDir()
   if dirname =~ '/$'
```

```
   let dirname= dirname.newdir
  else
   let dirname= s:NetrwTreeDir()."/".newdir
  endif
"    call Decho("tree listing")
 elseif newdir =~ '^\(/\|\a:\)'
  let dirname= newdir
 else
  let dirname= s:ComposePath(dirname,newdir)
 endif
"   call Decho("handling a file: dirname<".dirname."> (a:0=".a:0.")")
 " this lets NetrwBrowseX avoid the edit
 if a:0 < 1
"    call Decho("set up windows for editing<".fnameescape(dirname).">  didsplit=".(exists("s:didsplit")? s:didsplit :
"doesn't exist"))
  call s:NetrwOptionRestore("s:")
  if !exists("s:didsplit")
   if     g:netrw_browse_split == 1
    new
    wincmd _
   elseif g:netrw_browse_split == 2
    rightb vert new
    wincmd |
   elseif g:netrw_browse_split == 3
    tabnew
   elseif g:netrw_browse_split == 4
    if s:NetrwPrevWinOpen(2) == 3
"      call Dret("s:NetrwBrowseChgDir")
     return
    endif
   else
    " handling a file, didn't split, so remove menu
"     call Decho("handling a file+didn't split, so remove menu")
    call s:NetrwMenu(0)
    " optional change to window
    if g:netrw_chgwin >= 1
     exe "keepjumps ".g:netrw_chgwin."wincmd w"
    endif
   endif
  endif
  " the point where netrw actually edits the (local) file
  " if its local only: LocalBrowseCheck() doesn't edit a file, but NetrwBrowse() will
  if a:islocal
"    call Decho("edit local file: exe e! ".fnameescape(dirname))
   exe "e! ".fnameescape(dirname)
  else
"    call Decho("remote file: NetrwBrowse will edit it")
  endif
```

```
  let dolockout= 1
 endif

 elseif newdir =~ '^/'
  " ---------------------------------
  " just go to the new directory spec
  " ---------------------------------
"   call Decho('case "just go to new directory spec": newdir<'.newdir.'>')
  let dirname= newdir
  call s:SetRexDir(a:islocal,dirname)
  call s:NetrwOptionRestore("s:")

 elseif newdir == './'
  " --------------------------
  " refresh the directory list
  " --------------------------
"   call Decho('case "refresh directory listing": newdir == "./"')
  call s:SetRexDir(a:islocal,dirname)

 elseif newdir == '../'
  " -------------------
  " go up one directory
  " -------------------
"   call Decho('case "go up one directory": newdir == "../"')

  if w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
   " force a refresh
"    call Decho("clear buffer<".expand("%")."> with :%d")
   setlocal noro ma
"    call Decho("setlocal noro ma")
   keepjumps %d
  endif

  if has("amiga")
   " amiga
"    call Decho('case "go up one directory": newdir == "../" and amiga')
   if a:islocal
    let dirname= substitute(dirname,'^\(.*[/:]\)\([^/]\+$\)','\1','')
    let dirname= substitute(dirname,'/$','','')
   else
    let dirname= substitute(dirname,'^\(.*[/:]\)\([^/]\+/$\)','\1','')
   endif
"    call Decho("amiga: dirname<".dirname."> (go up one dir)")

  else
   " unix or cygwin
"    call Decho('case "go up one directory": newdir == "../" and unix or cygwin')
   if a:islocal
```

```
   let dirname= substitute(dirname,'^\(.*\)/\([^/]\+\)/$','\1','')
   if dirname == ""
    let dirname= '/'
   endif
  else
   let dirname= substitute(dirname,'^\(\a\+://.\{-}/\{1,2}\)\(.\{-}\)\([^/]\+\)/$','\1\2','')
  endif
"    call Decho("unix: dirname<".dirname."> (go up one dir)")
 endif
 call s:SetRexDir(a:islocal,dirname)

elseif exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
"   call Decho('case liststyle is TREELIST and w:netrw_treedict exists')
 " force a refresh (for TREELIST, wait for NetrwTreeDir() to force the refresh)
 setlocal noro ma
"   call Decho("setlocal noro ma")
 if !(exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("b:netrw_curdir"))
"    call Decho("clear buffer<".expand("%").."> with :%d")
  keepjumps %d
 endif
 let treedir      = s:NetrwTreeDir()
 let s:treecurpos = nbcd_curpos
 let haskey= 0
"   call Decho("w:netrw_treedict<".string(w:netrw_treedict).">")

 " search treedict for tree dir as-is
 if has_key(w:netrw_treedict,treedir)
"    call Decho('....searched for treedir<'.treedir.'> : found it!')
  let haskey= 1
 else
"    call Decho('....searched for treedir<'.treedir.'> : not found')
 endif

 " search treedict for treedir with a / appended
 if !haskey && treedir !~ '/$'
  if has_key(w:netrw_treedict,treedir."/")
   let treedir= treedir."/"
"     call Decho('....searched.for treedir<'.treedir.'> found it!')
   let haskey = 1
  else
"     call Decho('....searched for treedir<'.treedir.'/> : not found')
  endif
 endif

 " search treedict for treedir with any trailing / elided
 if !haskey && treedir =~ '/$'
  let treedir= substitute(treedir,'/$','','')
  if has_key(w:netrw_treedict,treedir)
```

```
"     call Decho('....searched.for treedir<'.treedir.'> found it!')
    let haskey = 1
   else
"     call Decho('....searched for treedir<'.treedir.'> : not found')
   endif
  endif

  if haskey
   " close tree listing for selected subdirectory
"    call Decho("closing selected subdirectory<".dirname.">")
   call remove(w:netrw_treedict,treedir)
"    call Decho("removed     entry<".dirname."> from treedict")
"    call Decho("yielding treedict<".string(w:netrw_treedict).">")
   let dirname= w:netrw_treetop
  else
   " go down one directory
   let dirname= substitute(treedir,'/*$','/','')
"    call Decho("go down one dir: treedir<".treedir.">")
  endif
  call s:SetRexDir(a:islocal,dirname)

 else
  " go down one directory
  let dirname= s:ComposePath(dirname,newdir)
"   call Decho("go down one dir: dirname<".dirname."> newdir<".newdir.">")
  call s:SetRexDir(a:islocal,dirname)
 endif

 call s:NetrwOptionRestore("s:")
 if dolockout
"   call Decho("doing modification lockout settings: ma nomod noro")
  setlocal ma nomod noro
"   call Decho("setlocal ma nomod noro")
 endif

"  call Dret("s:NetrwBrowseChgDir <".dirname."> : curpos<".string(getpos(".")).">")
 return dirname
endfun

" ----------------------------------------------------------------------
" s:NetrwBrowseX:  allows users to write custom functions to operate on {{{2
"              files given their extension.  Passes 0=local, 1=remote
fun! netrw#NetrwBrowseX(fname,remote)
"  call Dfunc("NetrwBrowseX(fname<".a:fname."> remote=".a:remote.")")

 " set up the filename
 " (lower case the extension, make a local copy of a remote file)
 let exten= substitute(a:fname,'.*\.\(.\{-}\)','\1','e')
```

```
 if has("win32") || has("win95") || has("win64") || has("win16")
  let exten= substitute(exten,'^.*$','\L&\E',")
 endif
"  call Decho("exten<".exten.">")

 " seems kde systems often have gnome-open due to dependencies, even though
 " gnome-open's subsidiary display tools are largely absent.  Kde systems
 " usually have "kdeinit" running, though...  (tnx Mikolaj Machowski)
 if !exists("s:haskdeinit")
  if has("unix")
   let s:haskdeinit= system("ps -e") =~ 'kdeinit'
   if v:shell_error
    let s:haskdeinit = 0
   endif
  else
   let s:haskdeinit= 0
  endif
"   call Decho("setting s:haskdeinit=".s:haskdeinit)
 endif

 if a:remote == 1
  " create a local copy
"   call Decho("a:remote=".a:remote.": create a local copy of <".a:fname.">")
  setlocal bh=delete
  call netrw#NetRead(3,a:fname)
  " attempt to rename tempfile
  let basename= substitute(a:fname,'^\(.*\)/\(.*\)\.\([^.]*\)$','\2',")
  let newname= substitute(s:netrw_tmpfile,'^\(.*\)/\(.*\)\.\([^.]*\)$','\1/'.basename.'.\3',")
"   call Decho("basename<".basename.">")
"   call Decho("newname <".newname.">")
  if rename(s:netrw_tmpfile,newname) == 0
   " renaming succeeded
   let fname= newname
  else
   " renaming failed
   let fname= s:netrw_tmpfile
  endif
 else
  let fname= a:fname
 endif
"  call Decho("fname<".fname.">")
"  call Decho("exten<".exten.">
"."netrwFileHandlers#NFH_".exten."():exists=".exists("*netrwFileHandlers#NFH_".exten))

 " set up redirection
 if &srr =~ "%s"
  if (has("win32") || has("win95") || has("win64") || has("win16"))
   let redir= substitute(&srr,"%s","nul","")
```

```
 else
  let redir= substitute(&srr,"%s","/dev/null","")
 endif
elseif (has("win32") || has("win95") || has("win64") || has("win16"))
 let redir= &srr . "nul"
else
 let redir= &srr . "/dev/null"
endif
"  call Decho("redir{".redir."} srr{".&srr."}")

" extract any viewing options.  Assumes that they're set apart by quotes.
if exists("g:netrw_browsex_viewer")
 if g:netrw_browsex_viewer =~ '\s'
  let viewer  = substitute(g:netrw_browsex_viewer,'\s.*$',",")
  let viewopt = substitute(g:netrw_browsex_viewer,'^\S\+\s*',",")." "
  let oviewer = "
  let cnt     = 1
  while !executable(viewer) && viewer != oviewer
   let viewer  = substitute(g:netrw_browsex_viewer,'^\(\(^\S\+\s\+\)\{'.cnt.'}\S\+\)\(.*\)$','\1','')
   let viewopt = substitute(g:netrw_browsex_viewer,'^\(\(^\S\+\s\+\)\{'.cnt.'}\S\+\)\(.*\)$','\3',")." "
   let cnt     = cnt + 1
   let oviewer = viewer
"    call Decho("!exe: viewer<".viewer."> viewopt<".viewopt.">")
  endwhile
 else
  let viewer  = g:netrw_browsex_viewer
  let viewopt = ""
 endif
"  call Decho("viewer<".viewer."> viewopt<".viewopt.">")
endif

" execute the file handler
if exists("g:netrw_browsex_viewer") && g:netrw_browsex_viewer == '-'
"  call Decho("g:netrw_browsex_viewer<".g:netrw_browsex_viewer.">")
 let ret= netrwFileHandlers#Invoke(exten,fname)

elseif exists("g:netrw_browsex_viewer") && executable(viewer)
"  call Decho("g:netrw_browsex_viewer<".g:netrw_browsex_viewer.">")
"  call Decho("exe silent !".viewer." ".viewopt.shellescape(fname,1).redir)
 exe "silent !".viewer." ".viewopt.shellescape(fname,1).redir
 let ret= v:shell_error

elseif has("win32") || has("win64")
"  call Decho('exe silent !start rundll32 url.dll,FileProtocolHandler '.shellescape(fname,1))
 exe 'silent !start rundll32 url.dll,FileProtocolHandler '.shellescape(fname,1)
 call inputsave()|call input("Press <cr> to continue")|call inputrestore()
 let ret= v:shell_error
```

```
 elseif has("unix") && executable("gnome-open") && !s:haskdeinit
"   call Decho("exe silent !gnome-open ".shellescape(fname,1)." ".redir)
 exe "silent !gnome-open ".shellescape(fname,1).redir
 let ret= v:shell_error

 elseif has("unix") && executable("kfmclient") && s:haskdeinit
"   call Decho("exe silent !kfmclient exec ".shellescape(fname,1)." ".redir)
 exe "silent !kfmclient exec ".shellescape(fname,1)." ".redir
 let ret= v:shell_error

 elseif has("macunix") && executable("open")
"   call Decho("exe silent !open ".shellescape(fname,1)." ".redir)
 exe "silent !open ".shellescape(fname,1)." ".redir
 let ret= v:shell_error

 else
  " netrwFileHandlers#Invoke() always returns 0
  let ret= netrwFileHandlers#Invoke(exten,fname)
 endif

 " if unsuccessful, attempt netrwFileHandlers#Invoke()
 if ret
  let ret= netrwFileHandlers#Invoke(exten,fname)
 endif

 " restoring redraw! after external file handlers
 redraw!

 " cleanup: remove temporary file,
 "          delete current buffer if success with handler,
 "          return to prior buffer (directory listing)
 "          Feb 12, 2008: had to de-activiate removal of
 "          temporary file because it wasn't getting seen.
"  if a:remote == 1 && fname != a:fname
"   call Decho("deleting temporary file<".fname.">")
"   call s:NetrwDelete(fname)
"  endif

 if a:remote == 1
  setlocal bh=delete bt=nofile
  if g:netrw_use_noswf
   setlocal noswf
  endif
  exe "norm! \<c-o>"
"   redraw!
 endif

"  call Dret("NetrwBrowseX")
```

```
endfun

" ---------------------------------------------------------------------
" netrw#Explore: launch the local browser in the directory of the current file {{{2
"         indx:  == -1: Nexplore
"                == -2: Pexplore
"                ==  +: this is overloaded:
"                    * If Nexplore/Pexplore is in use, then this refers to the
"                      indx'th item in the w:netrw_explore_list[] of items which
"                      matched the */pattern **/pattern *//pattern **//pattern
"                    * If Hexplore or Vexplore, then this will override
"                      g:netrw_winsize to specify the qty of rows or columns the
"                      newly split window should have.
"         dosplit==0: the window will be split iff the current file has been modified
"         dosplit==1: the window will be split before running the local browser
"         style == 0: Explore     style == 1: Explore!
"               == 2: Hexplore    style == 3: Hexplore!
"               == 4: Vexplore    style == 5: Vexplore!
"               == 6: Texplore
"DechoTabOn
fun! netrw#Explore(indx,dosplit,style,...)
"  call Dfunc("netrw#Explore(indx=".a:indx." dosplit=".a:dosplit." style=".a:style.",a:1<".a:1.">)
&modified=".&modified." a:0=".a:0)
 if !exists("b:netrw_curdir")
  let b:netrw_curdir= getcwd()
"   call Decho("set b:netrw_curdir<".b:netrw_curdir."> (used getcwd)")
 endif
 let curfile= b:netrw_curdir
"  call Decho("curfile<".curfile.">")

 " save registers
 silent! let keepregstar = @*
 silent! let keepregplus = @+
 silent! let keepregslash= @/

 " if dosplit or file has been modified
 if a:dosplit || &modified || a:style == 6
"   call Decho("case: dosplit=".a:dosplit." modified=".&modified." a:style=".a:style)
  call s:SaveWinVars()
  let winsize= g:netrw_winsize
  if a:indx > 0
   let winsize= a:indx
  endif

  if a:style == 0      " Explore, Sexplore
"    call Decho("style=0: Explore or Sexplore")
   exe winsize."wincmd s"
```

```
 elseif a:style == 1  "Explore!, Sexplore!
"    call Decho("style=1: Explore! or Sexplore!")
  exe winsize."wincmd v"

 elseif a:style == 2  " Hexplore
"    call Decho("style=2: Hexplore")
  exe "bel ".winsize."wincmd s"

 elseif a:style == 3  " Hexplore!
"    call Decho("style=3: Hexplore!")
  exe "abo ".winsize."wincmd s"

 elseif a:style == 4  " Vexplore
"    call Decho("style=4: Vexplore")
  exe "lefta ".winsize."wincmd v"

 elseif a:style == 5  " Vexplore!
"    call Decho("style=5: Vexplore!")
  exe "rightb ".winsize."wincmd v"

 elseif a:style == 6  " Texplore
  call s:SaveBufVars()
"    call Decho("style  = 6: Texplore")
  tabnew
  call s:RestoreBufVars()
 endif
 call s:RestoreWinVars()
endif
norm! 0

if a:0 > 0
"   call Decho("case [a:0=".a:0."]>0: a:1<".a:1.">")
 if a:1 =~ '^\~' && (has("unix") || (exists("g:netrw_cygwin") && g:netrw_cygwin))
  let dirname= substitute(a:1,'\~',expand("$HOME"),")
"    call Decho("using dirname<".dirname."> (case: ~ && unix||cygwin)")
 elseif a:1 == '.'
  let dirname= exists("b:netrw_curdir")? b:netrw_curdir : getcwd()
  if dirname !~ '/$'
   let dirname= dirname."/"
  endif
"    call Decho("using dirname<".dirname."> (case: ".(exists("b:netrw_curdir")? "b:netrw_curdir" : "getcwd()").")")
 elseif a:1 =~ '\$'
  let dirname= expand(a:1)
 else
  let dirname= a:1
"    call Decho("using dirname<".dirname.">")
 endif
else
```

```
 " clear explore
"   call Decho("clearing explore variables")
 2match none
 if exists("s:explore_match")       |unlet s:explore_match       |endif
 if exists("s:explore_indx")        |unlet s:explore_indx        |endif
 if exists("s:dirstarstar")         |unlet s:dirstarstar         |endif
 if exists("s:dirstarstar")         |unlet s:dirstarstar         |endif
 if exists("w:netrw_explore_indx")  |unlet w:netrw_explore_indx  |endif
 if exists("w:netrw_explore_listlen")|unlet w:netrw_explore_listlen|endif
 if exists("w:netrw_explore_list")  |unlet w:netrw_explore_list  |endif
 if exists("w:netrw_explore_bufnr") |unlet w:netrw_explore_bufnr |endif
"   redraw!
 echo " "
 echo " "
"   call Dret("netrw#Explore : cleared list")
 return
endif

if dirname =~ '/\*\*/'
 " handle .../**/.../filepat
"   call Decho("case Explore .../**/.../filepat")
 let prefixdir= substitute(dirname,'^\(.\{-}\)\*\*.*$','\1','')
 if prefixdir =~ '^/' || (prefixdir =~ '^\a:/' && (has("win32") || has("win95") || has("win64") || has("win16")))
  let b:netrw_curdir = prefixdir
 else
  let b:netrw_curdir= getcwd().'/'.prefixdir
 endif
 let dirname= substitute(dirname,'^.\{-}\(\*\*/.*\)$','\1','')
 let starpat= 4;
"   call Decho("pwd<".getcwd()."> dirname<".dirname.">")
"   call Decho("case Explore ../**/../filepat (starpat=".starpat.")")

elseif dirname =~ '^\*//'
 " starpat=1: Explore *//pattern   (current directory only search for files containing pattern)
"   call Decho("case Explore *//pattern")
 let pattern= substitute(dirname,'^\*//\(.*\)$','\1','')
 let starpat= 1
"   call Decho("Explore *//pat: (starpat=".starpat.") dirname<".dirname."> -> pattern<".pattern.">")
 if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif

elseif dirname =~ '^\*\*//'
 " starpat=2: Explore **//pattern  (recursive descent search for files containing pattern)
"   call Decho("case Explore **//pattern")
 let pattern= substitute(dirname,'^\*\*//','','')
 let starpat= 2
"   call Decho("Explore **//pat: (starpat=".starpat.") dirname<".dirname."> -> pattern<".pattern.">")

elseif dirname =~ '^\*/'
```

```
 " starpat=3: Explore */filepat   (search in current directory for filenames matching filepat)
 let starpat= 3
"   call Decho("case Explore */filepat (starpat=".starpat.")")

 elseif dirname=~ '^\*\*/'
  " starpat=4: Explore **/filepat  (recursive descent search for filenames matching filepat)
  let starpat= 4
"   call Decho("case Explore **/filepat (starpat=".starpat.")")
 else
  let starpat= 0
 endif

 if starpat == 0 && a:indx >= 0
  " [Explore Hexplore Vexplore Sexplore] [dirname]
"   call Decho("case dirname<".dirname."> a:indx=".a:indx.": Explore Hexplore Vexplore Sexplore")
  if dirname == ""
   let dirname= substitute(expand("%:p"),'^\(.*[/\\]\)[^/\\]*$','\1','e')
  endif
  if dirname =~ '^scp:' || dirname =~ '^ftp:'
"    call Decho("calling NetrwBrowse(0,dirname<".dirname.">)")
   call s:NetrwBrowse(0,dirname)
  else
   if dirname == ""|let dirname= getcwd()|endif
"    call Decho("calling LocalBrowseCheck(dirname<".dirname.">)")
   call netrw#LocalBrowseCheck(dirname)
  endif

"   call Decho("curfile<".curfile.">")
  if has("win32") || has("win95") || has("win64") || has("win16")
   call search('\<'.substitute(curfile,'^.*[/\\]','','e').'\>','cW')
  else
   call search('\<'.substitute(curfile,'^.*/','','e').'\>','cW')
  endif

 " starpat=1: Explore *//pattern  (current directory only search for files containing pattern)
 " starpat=2: Explore **//pattern (recursive descent search for files containing pattern)
 " starpat=3: Explore */filepat   (search in current directory for filenames matching filepat)
 " starpat=4: Explore **/filepat  (recursive descent search for filenames matching filepat)
 elseif a:indx <= 0
  " Nexplore, Pexplore, Explore: handle starpat
"   call Decho("case Nexplore, Pexplore, <s-down>, <s-up>: starpat=".starpat." a:indx=".a:indx)
  if !mapcheck("<s-up>","n") && !mapcheck("<s-down>","n") && exists("b:netrw_curdir")
"    call Decho("set up <s-up> and <s-down> maps")
   let s:didstarstar= 1
   nnoremap <buffer> <silent> <s-up> :Pexplore<cr>
   nnoremap <buffer> <silent> <s-down> :Nexplore<cr>
  endif
```

```
 if has("path_extra")
"    call Decho("starpat=".starpat.": has +path_extra")
  if !exists("w:netrw_explore_indx")
   let w:netrw_explore_indx= 0
  endif

  let indx = a:indx
"    call Decho("starpat=".starpat.": set indx= [a:indx=".indx."]")

  if indx == -1
   " Nexplore
"    call Decho("case Nexplore with starpat=".starpat.": (indx=".indx.")")
   if !exists("w:netrw_explore_list") " sanity check
    call netrw#ErrorMsg(s:WARNING,"using Nexplore or <s-down> improperly; see help for netrw-starstar",40)
    silent! let @* = keepregstar
    silent! let @+ = keepregstar
    silent! let @/ = keepregslash
"     call Dret("netrw#Explore")
    return
   endif
   let indx= w:netrw_explore_indx
   if indx < 0                    | let indx= 0                    | endif
   if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
   let curfile= w:netrw_explore_list[indx]
"    call Decho("indx=".indx." curfile<".curfile.">")
   while indx < w:netrw_explore_listlen && curfile == w:netrw_explore_list[indx]
    let indx= indx + 1
"     call Decho("indx=".indx." (Nexplore while loop)")
   endwhile
   if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
"    call Decho("Nexplore: indx= [w:netrw_explore_indx=".w:netrw_explore_indx."]=".indx)

  elseif indx == -2
   " Pexplore
"    call Decho("case Pexplore with starpat=".starpat.": (indx=".indx.")")
   if !exists("w:netrw_explore_list") " sanity check
    call netrw#ErrorMsg(s:WARNING,"using Pexplore or <s-up> improperly; see help for netrw-starstar",41)
    silent! let @* = keepregstar
    silent! let @+ = keepregstar
    silent! let @/ = keepregslash
"     call Dret("netrw#Explore")
    return
   endif
   let indx= w:netrw_explore_indx
   if indx < 0                    | let indx= 0                    | endif
   if indx >= w:netrw_explore_listlen | let indx= w:netrw_explore_listlen - 1 | endif
   let curfile= w:netrw_explore_list[indx]
"    call Decho("indx=".indx." curfile<".curfile.">")
```

```
   while indx >= 0 && curfile == w:netrw_explore_list[indx]
    let indx= indx - 1
"     call Decho("indx=".indx." (Pexplore while loop)")
   endwhile
   if indx < 0                    | let indx= 0                        | endif
"    call Decho("Pexplore: indx= [w:netrw_explore_indx=".w:netrw_explore_indx."]=".indx)

  else
   " Explore -- initialize
   " build list of files to Explore with Nexplore/Pexplore
"    call Decho("starpat=".starpat.": case Explore: initialize (indx=".indx.")")
   let w:netrw_explore_indx= 0
   if !exists("b:netrw_curdir")
    let b:netrw_curdir= getcwd()
   endif
"    call Decho("starpat=".starpat.": b:netrw_curdir<".b:netrw_curdir.">")

   " switch on starpat to build the w:netrw_explore_list of files
   if starpat == 1
    " starpat=1: Explore *//pattern  (current directory only search for files containing pattern)
"     call Decho("starpat=".starpat.": build *//pattern list")
"     call Decho("pattern<".pattern.">")
    exe "vimgrep /".pattern."/gj ".fnameescape(b:netrw_curdir)."/*"
    let w:netrw_explore_list = map(getqflist(),'bufname(v:val.bufnr)')
    if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif

   elseif starpat == 2
    " starpat=2: Explore **//pattern (recursive descent search for files containing pattern)
"     call Decho("starpat=".starpat.": build **//pattern list")
    try
     exe "silent vimgrep /".pattern."/gj "."**/*"
    catch /^Vim\%((\a\+)\)\=:E480/
     call netrw#ErrorMsg(s:WARNING,'no files matched pattern<'.pattern.'>',45)
     if &hls | let keepregslash= s:ExplorePatHls(pattern) | endif
     silent! let @* = keepregstar
     silent! let @+ = keepregstar
     silent! let @/ = keepregslash
"      call Dret("netrw#Explore : no files matched pattern")
     return
    endtry
    let s:netrw_curdir       = b:netrw_curdir
    let w:netrw_explore_list = getqflist()
    let w:netrw_explore_list = map(w:netrw_explore_list,'s:netrw_curdir."/".bufname(v:val.bufnr)')

   elseif starpat == 3
    " starpat=3: Explore */filepat   (search in current directory for filenames matching filepat)
"     call Decho("starpat=".starpat.": build */filepat list")
    let filepat= substitute(dirname,'^\*/',"","")
```

```
     let filepat= substitute(filepat,'^[%#<]','\\&','')
"      call Decho("b:netrw_curdir<".b:netrw_curdir.">")
"      call Decho("filepat<".filepat.">")
     let w:netrw_explore_list= split(expand(b:netrw_curdir."/".filepat),'\n')
     if &hls | let keepregslash= s:ExplorePatHls(filepat) | endif

    elseif starpat == 4
     " starpat=4: Explore **/filepat  (recursive descent search for filenames matching filepat)
"      call Decho("starpat=".starpat.": build **/filepat list")
     let w:netrw_explore_list= split(expand(b:netrw_curdir."/".dirname),'\n')
     if &hls | let keepregslash= s:ExplorePatHls(dirname) | endif
    endif " switch on starpat to build w:netrw_explore_list

    let w:netrw_explore_listlen = len(w:netrw_explore_list)
"     call Decho("w:netrw_explore_list<".string(w:netrw_explore_list).">")
"     call Decho("w:netrw_explore_listlen=".w:netrw_explore_listlen)

    if w:netrw_explore_listlen == 0 || (w:netrw_explore_listlen == 1 && w:netrw_explore_list[0] =~ '\*\*\/')
     call netrw#ErrorMsg(s:WARNING,"no files matched",42)
     silent! let @* = keepregstar
     silent! let @+ = keepregstar
     silent! let @/ = keepregslash
"      call Dret("netrw#Explore : no files matched")
     return
    endif
   endif  " if indx ... endif

   " NetrwStatusLine support - for exploring support
   let w:netrw_explore_indx= indx
"    call Decho("explorelist<".join(w:netrw_explore_list,',')."> len=".w:netrw_explore_listlen)

   " wrap the indx around, but issue a note
   if indx >= w:netrw_explore_listlen || indx < 0
"     call Decho("wrap indx (indx=".indx." listlen=".w:netrw_explore_listlen.")")
    let indx              = (indx < 0)? ( w:netrw_explore_listlen - 1 ) : 0
    let w:netrw_explore_indx= indx
    call netrw#ErrorMsg(s:NOTE,"no more files match Explore pattern",43)
   endif

   exe "let dirfile= w:netrw_explore_list[".indx."]"
"    call Decho("dirfile=w:netrw_explore_list[indx=".indx."]= <".dirfile.">")
   let newdir= substitute(dirfile,'/[^/]*$',','e')
"    call Decho("newdir<".newdir.">")

"    call Decho("calling LocalBrowseCheck(newdir<".newdir.">)")
   call netrw#LocalBrowseCheck(newdir)
   if !exists("w:netrw_liststyle")
    let w:netrw_liststyle= g:netrw_liststyle
```

```
  endif
  if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:LONGLIST
   call search('^'.substitute(dirfile,"^.*/","","").'\>',"W")
  else
   call search('\<'.substitute(dirfile,"^.*/","","").'\>',"w")
  endif
  let w:netrw_explore_mtchcnt = indx + 1
  let w:netrw_explore_bufnr   = bufnr("%")
  let w:netrw_explore_line    = line(".")
  call s:SetupNetrwStatusLine('%f %h%m%r%=%9*%{NetrwStatusLine()}')
"    call Decho("explore: mtchcnt=".w:netrw_explore_mtchcnt." bufnr=".w:netrw_explore_bufnr."
line#".w:netrw_explore_line)

 else
"    call Decho("your vim does not have +path_extra")
  if !exists("g:netrw_quiet")
   call netrw#ErrorMsg(s:WARNING,"your vim needs the +path_extra feature for Exploring with **!",44)
  endif
  silent! let @* = keepregstar
  silent! let @+ = keepregstar
  silent! let @/ = keepregslash
"    call Dret("netrw#Explore : missing +path_extra")
  return
 endif

 else
"   call Decho("case Explore newdir<".dirname.">")
 if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && dirname =~ '/'
  silent! unlet w:netrw_treedict
  silent! unlet w:netrw_treetop
 endif
 let newdir= dirname
 if !exists("b:netrw_curdir")
  call netrw#LocalBrowseCheck(getcwd())
 else
  call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,newdir))
 endif
endif

" visual display of **/ **// */ Exploration files
if exists("w:netrw_explore_indx") && exists("b:netrw_curdir")
 if !exists("s:explore_prvdir") || s:explore_prvdir != b:netrw_curdir
  " only update match list if current directory isn't the same as before
  let s:explore_prvdir = b:netrw_curdir
  let s:explore_match  = ""
  let dirlen           = strlen(b:netrw_curdir)
  if b:netrw_curdir !~ '/$'
   let dirlen= dirlen + 1
```

```
  endif
  let prvfname= ""
  for fname in w:netrw_explore_list
"     call Decho("fname<".fname.">")
"COMBAK -- g:netrw_markfileesc."""".g:netrw_markfileesc."""  ???
    if fname =~ '^'.b:netrw_curdir
     if s:explore_match == ""
      let s:explore_match= '\<'.escape(strpart(fname,dirlen),g:netrw_markfileesc).'\>'
     else
      let s:explore_match= s:explore_match.'\|\<'.escape(strpart(fname,dirlen),g:netrw_markfileesc).'\>'
     endif
    elseif fname !~ '^/' && fname != prvfname
     if s:explore_match == ""
      let s:explore_match= '\<'.escape(fname,g:netrw_markfileesc).'\>'
     else
      let s:explore_match= s:explore_match.'\|\<'.escape(fname,g:netrw_markfileesc).'\>'
     endif
    endif
    let prvfname= fname
  endfor
"    call Decho("explore_match<".s:explore_match.">")
  exe "2match netrwMarkFile /".s:explore_match."/"
 endif
 echo "<s-up>==Pexplore  <s-down>==Nexplore"
else
 2match none
 if exists("s:explore_match")  | unlet s:explore_match  | endif
 if exists("s:explore_prvdir") | unlet s:explore_prvdir | endif
 echo " "
"   call Decho("cleared explore match list")
endif

silent! let @* = keepregstar
silent! let @+ = keepregstar
silent! let @/ = keepregslash
"  call Dret("netrw#Explore : @/<".@/.">")
endfun

" ---------------------------------------------------------------------
" s:NetrwHide: this function is invoked by the "a" map for browsing {{{2
"          and switches the hiding mode.  The actual hiding is done by
"          s:NetrwListHide().
"            g:netrw_hide= 0: show all
"                          1: show not-hidden files
"                          2: show hidden files only
fun! s:NetrwHide(islocal)
"  call Dfunc("NetrwHide(islocal=".a:islocal.") g:netrw_hide=".g:netrw_hide)
 let svpos= netrw#NetrwSavePosn()
```

```
 if exists("s:netrwmarkfilelist_{bufnr('%')}")
"   call Decho(((g:netrw_hide == 1)? "unhide" : "hide")." files in
markfilelist<".string(s:netrwmarkfilelist_{bufnr("%")}).">")
"   call Decho("g:netrw_list_hide<".g:netrw_list_hide.">")

  " hide the files in the markfile list
  for fname in s:netrwmarkfilelist_{bufnr("%")}
"    call Decho("match(g:netrw_list_hide<".g:netrw_list_hide.'>
fname<\<'.fname.'\>>)='.match(g:netrw_list_hide,'\<'.fname.'\>')." isk=".&isk)
   if match(g:netrw_list_hide,'\<'.fname.'\>') != -1
    " remove fname from hiding list
    let g:netrw_list_hide= substitute(g:netrw_list_hide,'..\<'.escape(fname,g:netrw_fname_escape).'\>..',",")
    let g:netrw_list_hide= substitute(g:netrw_list_hide,',,',',','g')
    let g:netrw_list_hide= substitute(g:netrw_list_hide,'^,\|,$',",")
"     call Decho("unhide: g:netrw_list_hide<".g:netrw_list_hide.">")
   else
    " append fname to hiding list
    if exists("g:netrw_list_hide") && g:netrw_list_hide != ""
     let g:netrw_list_hide= g:netrw_list_hide.',\<'.escape(fname,g:netrw_fname_escape).'\>'
    else
     let g:netrw_list_hide= '\<'.escape(fname,g:netrw_fname_escape).'\>'
    endif
"     call Decho("hide: g:netrw_list_hide<".g:netrw_list_hide.">")
   endif
  endfor
  call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)
  let g:netrw_hide= 1

 else

  " switch between show-all/show-not-hidden/show-hidden
  let g:netrw_hide=(g:netrw_hide+1)%3
  exe "norm! 0"
  if g:netrw_hide && g:netrw_list_hide == ""
   call netrw#ErrorMsg(s:WARNING,"your hiding list is empty!",49)
"    call Dret("NetrwHide")
   return
  endif
 endif

 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)
"  call Dret("NetrwHide")
endfun

" ---------------------------------------------------------------------
" s:NetrwHidden: invoked by "gh" {{{2
```

```
fun! s:NetrwHidden(islocal)
"  call Dfunc("s:NetrwHidden()")
 "  save current position
 let svpos= netrw#NetrwSavePosn()

 if g:netrw_list_hide =~ '\(^\|,\)\(^\|\|\s\s\)\zs\.\S\+'
  " remove pattern from hiding list
  let g:netrw_list_hide= substitute(g:netrw_list_hide,'\(^\|,\)\(^\|\|\s\s\)\zs\.\S\+',",")
 elseif strlen(g:netrw_list_hide) >= 1
  let g:netrw_list_hide= g:netrw_list_hide . ',\(^\|\s\s\)\zs\.\S\+'
 else
  let g:netrw_list_hide= '\(^\|\s\s\)\zs\.\S\+'
 endif

 " refresh screen and return to saved position
 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)
"  call Dret("s:NetrwHidden")
endfun

" ---------------------------------------------------------------------
"  s:NetrwHome: this function determines a "home" for saving bookmarks and history {{{2
fun! s:NetrwHome()
"  call Dfunc("s:NetrwHome()")
 if exists("g:netrw_home")
  let home= g:netrw_home
 else
  " go to vim plugin home
  for home in split(&rtp,',') + ['']
   if isdirectory(home) && filewritable(home) | break | endif
    let basehome= substitute(home,'[/\\]\.vim$',",")
   if isdirectory(basehome) && filewritable(basehome)
    let home= basehome."/.vim"
    break
   endif
  endfor
  if home == ""
   " just pick the first directory
"    call Decho("just pick first directory in &rtp")
   let home= substitute(&rtp,',.*$',",")
  endif
  if (has("win32") || has("win95") || has("win64") || has("win16"))
   let home= substitute(home,'/','\\','g')
  endif
 endif
 " insure that the home directory exists
"  call Decho("picked home<".home.">")
 if !isdirectory(home)
```

```
 if exists("g:netrw_mkdir")
"    call Decho("home<".home."> isn't a directory -- making it now with g:netrw_mkdir<".g:netrw_mkdir.">")
"    call Decho("system(".g:netrw_mkdir." ".s:Escape(home).")")
   call system(g:netrw_mkdir." ".s:Escape(home))
 else
"    call Decho("home<".home."> isn't a directory -- making it now with mkdir()")
   call mkdir(home)
 endif
endif
let g:netrw_home= home
"  call Dret("s:NetrwHome <".home.">")
return home
endfun

" ---------------------------------------------------------------------
" s:NetrwLeftmouse: handles the <leftmouse> when in a netrw browsing window {{{2
fun! s:NetrwLeftmouse(islocal)
"  call Dfunc("s:NetrwLeftmouse(islocal=".a:islocal.")")
 if a:islocal
  if exists("b:netrw_curdir")
   call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
  endif
 else
  if exists("b:netrw_curdir")
   call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
  endif
 endif
"  call Dret("s:NetrwLeftmouse")
endfun

" ---------------------------------------------------------------------
" s:NetrwListHide: uses [range]g~...~d to delete files that match comma {{{2
" separated patterns given in g:netrw_list_hide
fun! s:NetrwListHide()
"  call Dfunc("NetrwListHide() hide=".g:netrw_hide." listhide<".g:netrw_list_hide.">")

 " find a character not in the "hide" string to use as a separator for :g and :v commands
 " How-it-works: take the hiding command, convert it into a range.  Duplicate
 " characters don't matter.  Remove all such characters from the '/~...90'
 " string.  Use the first character left as a separator character.
 let listhide= g:netrw_list_hide
 let sep     = strpart(substitute('/~@#$%^&*{};:,<.>?|1234567890','['.escape(listhide,'-]^\').']','','ge'),1,1)
"  call Decho("sep=".sep)

 while listhide != ""
  if listhide =~ ','
   let hide     = substitute(listhide,',.*$','','e')
   let listhide = substitute(listhide,'^.\{-},\(.*\)$','\1','e')
```

```
 else
  let hide     = listhide
  let listhide = ""
 endif

 " Prune the list by hiding any files which match
 if g:netrw_hide == 1
"    call Decho("hiding<".hide."> listhide<".listhide.">")
  exe 'silent keepjumps '.w:netrw_bannercnt.',$g'.sep.hide.sep.'d'
 elseif g:netrw_hide == 2
"    call Decho("showing<".hide."> listhide<".listhide.">")
  exe 'silent keepjumps '.w:netrw_bannercnt.',$g'.sep.hide.sep.'s@^@ /-KEEP-/ @'
 endif
endwhile
if g:netrw_hide == 2
 exe 'silent keepjumps '.w:netrw_bannercnt.',$v@^ /-KEEP-/ @d'
 exe 'silent keepjumps '.w:netrw_bannercnt.',$s@^\%( /-KEEP-/ \)\+@@e'
endif

"  call Dret("NetrwListHide")
endfun

" ---------------------------------------------------------------------
" NetrwHideEdit: allows user to edit the file/directory hiding list
fun! s:NetrwHideEdit(islocal)
"  call Dfunc("NetrwHideEdit(islocal=".a:islocal.")")

 " save current cursor position
 let svpos= netrw#NetrwSavePosn()

 " get new hiding list from user
 call inputsave()
 let newhide= input("Edit Hiding List: ",g:netrw_list_hide)
 call inputrestore()
 let g:netrw_list_hide= newhide
"  call Decho("new g:netrw_list_hide<".g:netrw_list_hide.">")

 " refresh the listing
 silent call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,"./"))

 " restore cursor position
 call netrw#NetrwRestorePosn(svpos)

"  call Dret("NetrwHideEdit")
endfun

" ---------------------------------------------------------------------
" NetSortSequence: allows user to edit the sorting sequence
```

```
fun! s:NetSortSequence(islocal)
"  call Dfunc("NetSortSequence(islocal=".a:islocal.")")

 let svpos= netrw#NetrwSavePosn()
 call inputsave()
 let newsortseq= input("Edit Sorting Sequence: ",g:netrw_sort_sequence)
 call inputrestore()

 " refresh the listing
 let g:netrw_sort_sequence= newsortseq
 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)

"  call Dret("NetSortSequence")
endfun

" ---------------------------------------------------------------------
" s:NetrwMakeDir: this function makes a directory (both local and remote) {{{2
fun! s:NetrwMakeDir(usrhost)
"  call Dfunc("NetrwMakeDir(usrhost<".a:usrhost.">)")

 " get name of new directory from user.  A bare <CR> will skip.
 " if its currently a directory, also request will be skipped, but with
 " a message.
 call inputsave()
 let newdirname= input("Please give directory name: ")
 call inputrestore()
"  call Decho("newdirname<".newdirname.">")

 if newdirname == ""
"   call Dret("NetrwMakeDir : user aborted with bare <cr>")
  return
 endif

 if a:usrhost == ""
"   call Decho("local mkdir")

  " Local mkdir:
  " sanity checks
  let fullnewdir= b:netrw_curdir.'/'.newdirname
"   call Decho("fullnewdir<".fullnewdir.">")
  if isdirectory(fullnewdir)
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:WARNING,"<".newdirname."> is already a directory!",24)
   endif
"    call Dret("NetrwMakeDir : directory<".newdirname."> exists previously")
   return
  endif
```

```
  if s:FileReadable(fullnewdir)
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:WARNING,"<".newdirname."> is already a file!",25)
   endif
"    call Dret("NetrwMakeDir : file<".newdirname."> exists previously")
   return
  endif

  " requested new local directory is neither a pre-existing file or
  " directory, so make it!
  if exists("*mkdir")
   call mkdir(fullnewdir,"p")
  else
   let netrw_origdir= s:NetrwGetcwd(1)
   exe 'keepjumps lcd '.fnameescape(b:netrw_curdir)
"    call Decho("netrw_origdir<".netrw_origdir.">: lcd b:netrw_curdir<".fnameescape(b:netrw_curdir).">")
"    call Decho("exe silent! !".g:netrw_local_mkdir.' '.shellescape(newdirname,1))
   exe "silent! !".g:netrw_local_mkdir.' '.shellescape(newdirname,1)
   if !g:netrw_keepdir
    exe 'keepjumps lcd '.fnameescape(netrw_origdir)
"     call Decho("netrw_keepdir=".g:netrw_keepdir.": keepjumps lcd ".fnameescape(netrw_origdir)."
getcwd<".getcwd().">")
   endif
  endif

  if v:shell_error == 0
   " refresh listing
"    call Decho("refresh listing")
   let svpos= netrw#NetrwSavePosn()
   call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'./'))
   call netrw#NetrwRestorePosn(svpos)
  elseif !exists("g:netrw_quiet")
   call netrw#ErrorMsg(s:ERROR,"unable to make directory<".newdirname.">",26)
  endif
"   redraw!

 elseif !exists("b:netrw_method") || b:netrw_method == 4
  " Remote mkdir:
"   call Decho("remote mkdir")
  let mkdircmd  = s:MakeSshCmd(g:netrw_mkdir_cmd)
  let newdirname= substitute(b:netrw_curdir,'^\%(.\{-}/\)\{3}\(.*\)$','\1','').newdirname
"   call Decho("exe silent! !".mkdircmd." ".shellescape(newdirname,1))
  exe "silent! !".mkdircmd." ".shellescape(newdirname,1)
  if v:shell_error == 0
   " refresh listing
   let svpos= netrw#NetrwSavePosn()
   call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'./'))
   call netrw#NetrwRestorePosn(svpos)
```

```
 elseif !exists("g:netrw_quiet")
  call netrw#ErrorMsg(s:ERROR,"unable to make directory<".newdirname.">",27)
 endif
"   redraw!

 elseif b:netrw_method == 2
  " COMBAK -- future work
  call netrw#ErrorMsg(s:ERROR,"making directories via ftp not currently supported",68)
 elseif b:netrw_method == 3
  " COMBAK -- future work
  call netrw#ErrorMsg(s:ERROR,"making directories via ftp not currently supported",68)
 endif

"  call Dret("NetrwMakeDir")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFile: (invoked by mf) This function is used to both {{{2
"                  mark and unmark files.  If a markfile list exists,
"                  then the rename and delete functions will use it instead
"                  of whatever may happen to be under the cursor at that
"                  moment.  When the mouse and gui are available,
"                  shift-leftmouse may also be used to mark files.
"
"  Creates two lists
"    s:netrwmarkfilelist    -- holds complete paths to all marked files
"    s:netrwmarkfilelist_#  -- holds list of marked files in current-buffer's directory (#==bufnr())
"
"  Creates a marked file match string
"    s:netrwmarfilemtch_#   -- used with 2match to display marked files
"
"  Creates a buffer version of islocal
"    b:netrw_islocal
"
fun! s:NetrwMarkFile(islocal,fname)
"  call Dfunc("s:NetrwMarkFile(islocal=".a:islocal." fname<".a:fname.">)")
 let curbufnr= bufnr("%")
 let curdir  = b:netrw_curdir
 if exists("s:netrwmarkfilelist_{curbufnr}")
  " markfile list exists
"   call Decho("starting s:netrwmarkfilelist_{curbufnr}<".string(s:netrwmarkfilelist_{curbufnr}).">")
"   call Decho("starting s:netrwmarkfilemtch_{curbufnr}<".s:netrwmarkfilemtch_{curbufnr}.">")
  let b:netrw_islocal= a:islocal

  if index(s:netrwmarkfilelist_{curbufnr},a:fname) == -1
   " append filename to buffer's markfilelist
"    call Decho("append filename<".a:fname."> to local
markfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
```

```
   call add(s:netrwmarkfilelist_{curbufnr},a:fname)
   let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.'\|\<'.escape(a:fname,g:netrw_markfileesc."".g:netrw_markfileesc."").'\>'

  else
   " remove filename from buffer's markfilelist
"    call Decho("remove filename<".a:fname."> from local
markfilelist_".curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
   call filter(s:netrwmarkfilelist_{curbufnr},'v:val != a:fname')
   if s:netrwmarkfilelist_{curbufnr} == []
    " local markfilelist is empty; remove it entirely
"     call Decho("markfile list now empty")
    call s:NetrwUnmarkList(curbufnr,curdir)
   else
    " rebuild match list to display markings correctly
"     call Decho("rebuild s:netrwmarkfilemtch_".curbufnr)
    let s:netrwmarkfilemtch_{curbufnr}= ""
    let first                         = 1
    for fname in s:netrwmarkfilelist_{curbufnr}
     if first
      let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.'\<'.escape(fname,g:netrw_markfileesc."".g:netrw_markfileesc."").'\>'
     else
      let s:netrwmarkfilemtch_{curbufnr}=
s:netrwmarkfilemtch_{curbufnr}.'\|\<'.escape(fname,g:netrw_markfileesc."".g:netrw_markfileesc."").'\>'
     endif
     let first= 0
    endfor
"     call Decho("ending s:netrwmarkfilelist_"curbufnr."<".string(s:netrwmarkfilelist_{curbufnr}).">")
"     call Decho("ending s:netrwmarkfilemtch_"curbufnr."<".s:netrwmarkfilemtch_{curbufnr}.">")
   endif
  endif

 else
  " initialize new markfilelist

"   call Decho("add fname<".a:fname."> to new markfilelist_".curbufnr)
  let s:netrwmarkfilelist_{curbufnr}= []
  call add(s:netrwmarkfilelist_{curbufnr},a:fname)
"   call Decho("ending s:netrwmarkfilelist_{curbufnr}<".string(s:netrwmarkfilelist_{curbufnr}).">")

  " build initial markfile matching pattern
  if a:fname =~ '/$'
   let s:netrwmarkfilemtch_{curbufnr}= '\<'.escape(a:fname,g:netrw_markfileesc)
  else
   let s:netrwmarkfilemtch_{curbufnr}= '\<'.escape(a:fname,g:netrw_markfileesc).'\>'
  endif
"   call Decho("ending s:netrwmarkfilemtch_".curbufnr."<".s:netrwmarkfilemtch_{curbufnr}.">")
```

```
 endif

 " handle global markfilelist
 if exists("s:netrwmarkfilelist")
  let dname= s:ComposePath(b:netrw_curdir,a:fname)
  if index(s:netrwmarkfilelist,dname) == -1
   " append new filename to global markfilelist
   call add(s:netrwmarkfilelist,s:ComposePath(b:netrw_curdir,a:fname))
"    call Decho("append filename<".a:fname."> to global markfilelist<".string(s:netrwmarkfilelist).">")
  else
   " remove new filename from global markfilelist
"    call Decho("filter(".string(s:netrwmarkfilelist).",'v:val != '".dname."')")
   call filter(s:netrwmarkfilelist,'v:val != "'.dname.'"')
"    call Decho("ending s:netrwmarkfilelist  <".string(s:netrwmarkfilelist).">")
   if s:netrwmarkfilelist == []
    unlet s:netrwmarkfilelist
   endif
  endif
 else
  " initialize new global-directory markfilelist
  let s:netrwmarkfilelist= []
  call add(s:netrwmarkfilelist,s:ComposePath(b:netrw_curdir,a:fname))
"   call Decho("init s:netrwmarkfilelist<".string(s:netrwmarkfilelist).">")
 endif

 " set up 2match'ing to netrwmarkfilemtch list
 if exists("s:netrwmarkfilemtch_{curbufnr}") && s:netrwmarkfilemtch_{curbufnr} != ""
"   call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{curbufnr}."/")
  exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{curbufnr}."/"
 else
"   call Decho("2match none")
  2match none
 endif
"  call Dret("s:NetrwMarkFile : netrwmarkfilelist_".curbufnr."<".(exists("s:netrwmarkfilelist_{curbufnr}")?
string(s:netrwmarkfilelist_{curbufnr}) : " doesn't exist").">")
endfun

" ----------------------------------------------------------------------
" s:NetrwMarkFileCompress: (invoked by mz) This function is used to {{{2
"                          compress/decompress files using the programs
"                          in g:netrw_compress and g:netrw_uncompress,
"                          using g:netrw_compress_suffix to know which to
"                          do.  By default:
"                            g:netrw_compress        = "gzip"
"                            g:netrw_decompress      = { ".gz" : "gunzip" , ".bz2" : "bunzip2" , ".zip" : "unzip" , ".tar" : "tar -
xf"}
fun! s:NetrwMarkFileCompress(islocal)
"  call Dfunc("s:NetrwMarkFileCompress(islocal=".a:islocal.")")
```

```
 let svpos    = netrw#NetrwSavePosn()
 let curdir   = b:netrw_curdir
 let curbufnr = bufnr("%")

 if exists("s:netrwmarkfilelist_{curbufnr}") && exists("g:netrw_compress") && exists("g:netrw_decompress")
  for fname in s:netrwmarkfilelist_{curbufnr}
   " for every filename in the marked list
   for sfx in sort(keys(g:netrw_decompress))
    if fname =~ '\'.sfx.'$'
     " fname has a suffix indicating that its compressed; apply associated decompression routine
     let exe= s:WinPath(g:netrw_decompress[sfx])
"      call Decho("fname<".fname."> is compressed so decompress with <".exe.">")
     if a:islocal
      if g:netrw_keepdir
       let fname= shellescape(s:ComposePath(curdir,fname))
      endif
     else
      let fname= shellescape(b:netrw_curdir.fname,1)
     endif
     if executable(exe)
      if a:islocal
 call system(exe." ".fname)
      else
       call s:RemoteSystem(exe." ".fname)
      endif
     else
      call netrw#ErrorMsg(s:WARNING,"unable to apply<".exe."> to file<".fname.">",50)
     endif
     break
    endif
   endfor
   if exists("exe")
    unlet exe
   elseif a:islocal
    " fname not a compressed file, so compress it
    call system(s:WinPath(g:netrw_compress)." ".shellescape(s:ComposePath(b:netrw_curdir,fname)))
   else
    " fname not a compressed file, so compress it
    call s:RemoteSystem(s:WinPath(g:netrw_compress)." ".shellescape(fname))
   endif
  endfor
  call s:NetrwUnmarkList(curbufnr,curdir)
  call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
  call netrw#NetrwRestorePosn(svpos)
 endif
"  call Dret("s:NetrwMarkFileCompress")
endfun
```

```
" ---------------------------------------------------------------------
" s:NetrwMarkFileCopy: (invoked by mc) copy marked files to target {{{2
"                     If no marked files, then set up directory as the
"                     target.  Currently does not support copying entire
"                     directories.  Uses the local-buffer marked file list.
"                     Returns 1=success  (used by NetrwMarkFileMove())
"                           0=failure
fun! s:NetrwMarkFileCopy(islocal)
"  call Dfunc("s:NetrwMarkFileCopy(islocal=".a:islocal.") target<".(exists("s:netrwmftgt")? s:netrwmftgt : '---').">")

 " sanity checks
 if !exists("s:netrwmarkfilelist_{bufnr('%')}") || empty(s:netrwmarkfilelist_{bufnr('%')})
  call netrw#ErrorMsg(2,"there are no marked files in this window (:help netrw-mf)",66)
"   call Dret("s:NetrwMarkFileCopy 0")
  return 0
 endif
"  call Decho("sanity chk passed: s:netrwmarkfilelist_".bufnr('%')."<".string(s:netrwmarkfilelist_{bufnr('%')}))
 if !exists("s:netrwmftgt")
  call netrw#ErrorMsg(2,"your marked file target is empty! (:help netrw-mt)",67)
"   call Dret("s:NetrwMarkFileCopy 0")
  return 0
 endif
"  call Decho("sanity chk passed: s:netrwmftgt<".s:netrwmftgt.">")
 let curdir   = b:netrw_curdir
 let curbufnr = bufnr("%")

 if      a:islocal &&  s:netrwmftgt_islocal
  " Copy marked files, local directory to local directory
"   call Decho("copy from local to local")
  let args= join(map(deepcopy(s:netrwmarkfilelist_{bufnr('%')}),"shellescape(b:netrw_curdir.\"/\".v:val)"))
"   call Decho("system(".g:netrw_localcopycmd." ".args." ".shellescape(s:netrwmftgt).")")
  call system(s:WinPath(g:netrw_localcopycmd)." ".args." ".shellescape(s:netrwmftgt))

 elseif  a:islocal && !s:netrwmftgt_islocal
  " Copy marked files, local directory to remote directory
"   call Decho("copy from local to remote")
  call s:NetrwUpload(s:netrwmarkfilelist_{bufnr('%')},s:netrwmftgt)

 elseif !a:islocal &&  s:netrwmftgt_islocal
"   call Decho("copy from remote to local")
  call netrw#NetrwObtain(a:islocal,s:netrwmarkfilelist_{bufnr('%')},s:netrwmftgt)

 elseif !a:islocal && !s:netrwmftgt_islocal
"   call Decho("copy from remote to remote")
  let curdir = getcwd()
  let tmpdir = s:GetTempfile("")
  if tmpdir !~ '/'
   let tmpdir= curdir."/".tmpdir
```

```
 endif
 if exists("*mkdir")
  call mkdir(tmpdir)
 else
  exe "silent! !".g:netrw_local_mkdir.' '.shellescape(tmpdir,1)
 endif
 if isdirectory(tmpdir)
  exe "keepjumps lcd ".fnameescape(tmpdir)
  call netrw#NetrwObtain(a:islocal,s:netrwmarkfilelist_{bufnr('%')},tmpdir)
  let localfiles= map(deepcopy(s:netrwmarkfilelist_{bufnr('%')}),'substitute(v:val,"^.*/","","")')
  call s:NetrwUpload(localfiles,s:netrwmftgt)
  if getcwd() == tmpdir
   for fname in s:netrwmarkfilelist_{bufnr('%')}
    call s:NetrwDelete(fname)
   endfor
   exe "keepjumps lcd ".fnameescape(curdir)
   exe "silent !".g:netrw_local_rmdir." ".shellescape(tmpdir,1)
  else
   exe "keepjumps lcd ".fnameescape(curdir)
  endif
 endif
endif

" -------
" cleanup
" -------
"  call Decho("cleanup")

 " remove markings from local buffer
 call s:NetrwUnmarkList(curbufnr,curdir)

 " refresh buffers
 if !s:netrwmftgt_islocal
  call s:NetrwRefreshDir(s:netrwmftgt_islocal,s:netrwmftgt)
 endif
 if a:islocal
  call s:NetrwRefreshDir(a:islocal,b:netrw_curdir)
 endif
 if g:netrw_fastbrowse <= 1
  call s:LocalBrowseShellCmdRefresh()
 endif

"  call Dret("s:NetrwMarkFileCopy 1")
 return 1
endfun

" ----------------------------------------------------------------------
" s:NetrwMarkFileDiff: (invoked by md) This function is used to {{{2
```

```
"                   invoke vim's diff mode on the marked files.
"                   Either two or three files can be so handled.
"                   Uses the global marked file list.
fun! s:NetrwMarkFileDiff(islocal)
"  call Dfunc("s:NetrwMarkFileDiff(islocal=".a:islocal.") b:netrw_curdir<".b:netrw_curdir.">")
 let curbufnr= bufnr("%")

 if exists("s:netrwmarkfilelist_{curbufnr}")
  let cnt    = 0
  let curdir = b:netrw_curdir
  for fname in s:netrwmarkfilelist
   let cnt= cnt + 1
   if cnt == 1
"     call Decho("diffthis: fname<".fname.">")
    exe "e ".fnameescape(fname)
    diffthis
   elseif cnt == 2 || cnt == 3
    vsplit
    wincmd l
"     call Decho("diffthis: ".fname)
    exe "e ".fnameescape(fname)
    diffthis
   else
    break
   endif
  endfor
  call s:NetrwUnmarkList(curbufnr,curdir)
 endif

"  call Dret("s:NetrwMarkFileDiff")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFileEdit: (invoked by me) put marked files on arg list and start editing them {{{2
"                      Uses global markfilelist
fun! s:NetrwMarkFileEdit(islocal)
"  call Dfunc("s:NetrwMarkFileEdit(islocal=".a:islocal.")")

 let curdir   = b:netrw_curdir
 let curbufnr = bufnr("%")
 if exists("s:netrwmarkfilelist_{curbufnr}")
  call s:SetRexDir(a:islocal,curdir)
  let flist= join(map(deepcopy(s:netrwmarkfilelist), "fnameescape(v:val)"))
  " unmark markedfile list
"   call s:NetrwUnmarkList(curbufnr,curdir)
  call s:NetrwUnmarkAll()
"   call Decho("exe silent args ".flist)
  exe "silent args ".flist
```

```
 endif

"  call Dret("s:NetrwMarkFileEdit")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFileExe: (invoked by mx) execute arbitrary command on marked files, one at a time {{{2
"                     Uses the local marked-file list.
fun! s:NetrwMarkFileExe(islocal)
"  call Dfunc("s:NetrwMarkFileExe(islocal=".a:islocal.")")
 let svpos    = netrw#NetrwSavePosn()
 let curdir   = b:netrw_curdir
 let curbufnr = bufnr("%")

 if exists("s:netrwmarkfilelist_{curbufnr}")
  " get the command
  call inputsave()
  let cmd= input("Enter command: ","","file")
  call inputrestore()
"   call Decho("cmd<".cmd.">")

  " apply command to marked files.  Substitute: filename -> %
  " If no %, then append a space and the filename to the command
  for fname in s:netrwmarkfilelist_{curbufnr}
   if a:islocal
    if g:netrw_keepdir
     let fname= shellescape(s:WinPath(s:ComposePath(curdir,fname)))
    endif
   else
    let fname= shellescape(s:WinPath(b:netrw_curdir.fname))
   endif
   if cmd =~ '%'
    let xcmd= substitute(cmd,'%',fname,'g')
   else
    let xcmd= cmd.' '.fname
   endif
   if a:islocal
"    call Decho("local: xcmd<".xcmd.">")
    let ret= system(xcmd)
   else
"    call Decho("remote: xcmd<".xcmd.">")
    let ret= s:RemoteSystem(xcmd)
   endif
   if v:shell_error < 0
    call netrw#ErrorMsg(s:ERROR,"command<".xcmd."> failed, aborting",54)
    break
   else
    echo ret
```

```
  endif
 endfor

 " unmark marked file list
 call s:NetrwUnmarkList(curbufnr,curdir)

 " refresh the listing
 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)
 else
 call netrw#ErrorMsg(s:ERROR,"no files marked!",59)
 endif

"  call Dret("s:NetrwMarkFileExe")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkHideSfx: (invoked by mh) (un)hide files having same suffix
"                     as the marked file(s) (toggles suffix presence)
"                     Uses the local marked file list.
fun! s:NetrwMarkHideSfx(islocal)
"  call Dfunc("s:NetrwMarkHideSfx(islocal=".a:islocal.")")
 let svpos    = netrw#NetrwSavePosn()
 let curbufnr = bufnr("%")

 " s:netrwmarkfilelist_{curbufnr}: the List of marked files
 if exists("s:netrwmarkfilelist_{curbufnr}")

  for fname in s:netrwmarkfilelist_{curbufnr}
"     call Decho("s:NetrwMarkFileCopy: fname<".fname.">")
    " construct suffix pattern
    if fname =~ '\.'
     let sfxpat= "^.*".substitute(fname,'^.*\(\.[^. ]\+\)$','\1','')
    else
     let sfxpat= '^\%(\%(\.\)\@!.\)*$'
    endif
    " determine if its in the hiding list or not
    let inhidelist= 0
    if g:netrw_list_hide != ""
     let itemnum = 0
     let hidelist= split(g:netrw_list_hide,',')
     for hidepat in hidelist
      if sfxpat == hidepat
       let inhidelist= 1
       break
      endif
      let itemnum= itemnum + 1
     endfor
```

```
    endif
"     call Decho("fname<".fname."> inhidelist=".inhidelist." sfxpat<".sfxpat.">")
    if inhidelist
     " remove sfxpat from list
     call remove(hidelist,itemnum)
     let g:netrw_list_hide= join(hidelist,",")
    elseif g:netrw_list_hide != ""
     " append sfxpat to non-empty list
     let g:netrw_list_hide= g:netrw_list_hide.",".sfxpat
    else
     " set hiding list to sfxpat
     let g:netrw_list_hide= sfxpat
    endif
   endfor

   " refresh the listing
   call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
   call netrw#NetrwRestorePosn(svpos)
  else
   call netrw#ErrorMsg(s:ERROR,"no files marked!",59)
  endif

"  call Dret("s:NetrwMarkHideSfx")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFileGrep: (invoked by mg) This function applies vimgrep to marked files {{{2
"                      Uses the global markfilelist
fun! s:NetrwMarkFileGrep(islocal)
"  call Dfunc("s:NetrwMarkFileGrep(islocal=".a:islocal.")")
 let svpos    = netrw#NetrwSavePosn()
 let curbufnr = bufnr("%")

 if exists("s:netrwmarkfilelist")
"  call Decho("s:netrwmarkfilelist".string(s:netrwmarkfilelist).">")
  let netrwmarkfilelist= join(map(deepcopy(s:netrwmarkfilelist), "fnameescape(v:val)"))
  call s:NetrwUnmarkAll()

  " ask user for pattern
  call inputsave()
  let pat= input("Enter pattern: ","")
  call inputrestore()
  if pat !~ '^\s'
   if pat !~ '^/'
    let pat= '/'.pat.'/'
   endif
   let pat= " ".pat
  endif
```

```
  " use vimgrep for both local and remote
"   call Decho("exe vimgrep".pat." ".netrwmarkfilelist)
  exe "vimgrep".pat." ".netrwmarkfilelist

  2match none
  call netrw#NetrwRestorePosn(svpos)
 endif

"  call Dret("s:NetrwMarkFileGrep")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFileMove: (invoked by mm) execute arbitrary command on marked files, one at a time {{{2
"                   uses the global marked file list
"                   s:netrwmfloc= 0: target directory is remote
"                               = 1: target directory is local
fun! s:NetrwMarkFileMove(islocal)
"  call Dfunc("s:NetrwMarkFileMove(islocal=".a:islocal.")")
 let curdir   = b:netrw_curdir
 let curbufnr = bufnr("%")

 " sanity check
 if !exists("s:netrwmarkfilelist_{bufnr('%')}") || empty(s:netrwmarkfilelist_{bufnr('%')})
  call netrw#ErrorMsg(2,"there are no marked files in this window (:help netrw-mf)",66)
"   call Dret("s:NetrwMarkFileMove")
  return
 endif
"  call Decho("sanity chk passed: s:netrwmarkfilelist_".bufnr('%')."<".string(s:netrwmarkfilelist_{bufnr('%')}))
 if !exists("s:netrwmftgt")
  call netrw#ErrorMsg(2,"your marked file target is empty! (:help netrw-mt)",67)
"   call Dret("s:NetrwMarkFileCopy 0")
  return 0
 endif
"  call Decho("sanity chk passed: s:netrwmftgt<".s:netrwmftgt.">")

 if      a:islocal &&  s:netrwmftgt_islocal
  " move: local -> local
"   call Decho("move from local to local")
"   call Decho("(s:NetrwMarkFileMove) local to local move")
  if executable(g:netrw_localmovecmd)
   for fname in s:netrwmarkfilelist_{bufnr("%")}
"     call Decho("system(".g:netrw_localmovecmd." ".shellescape(fname)." ".shellescape(s:netrwmftgt).")")
    let ret= system(g:netrw_localmovecmd." ".shellescape(fname)." ".shellescape(s:netrwmftgt))
    if v:shell_error < 0
     call netrw#ErrorMsg(s:ERROR,"command<".g:netrw_localmovecmd."> failed, aborting",54)
     break
    endif
```

```
  endfor
 else
  call netrw#ErrorMsg(s:ERROR,"command<".g:netrw_localmovecmd."> is not executable!",57)
 endif

 elseif  a:islocal && !s:netrwmftgt_islocal
  " move: local -> remote
"   call Decho("move from local to remote")
"   call Decho("copy")
  let mflist= s:netrwmarkfilelist_{bufnr("%")}
  call s:NetrwMarkFileCopy(a:islocal)
"   call Decho("remove")
  for fname in mflist
   let barefname = substitute(fname,'^\(.*/\)\(.\{-}\)$','\2','')
   let ok        = s:NetrwLocalRmFile(b:netrw_curdir,barefname,1)
  endfor
  unlet mflist

 elseif !a:islocal &&  s:netrwmftgt_islocal
  " move: remote -> local
"   call Decho("move from remote to local")
"   call Decho("copy")
  let mflist= s:netrwmarkfilelist_{bufnr("%")}
  call s:NetrwMarkFileCopy(a:islocal)
"   call Decho("remove")
  for fname in mflist
   let barefname = substitute(fname,'^\(.*/\)\(.\{-}\)$','\2','')
   let ok        = s:NetrwRemoteRmFile(b:netrw_curdir,barefname,1)
  endfor
  unlet mflist

 elseif !a:islocal && !s:netrwmftgt_islocal
  " move: remote -> remote
"   call Decho("move from remote to remote")
"   call Decho("copy")
  let mflist= s:netrwmarkfilelist_{bufnr("%")}
  call s:NetrwMarkFileCopy(a:islocal)
"   call Decho("remove")
  for fname in mflist
   let barefname = substitute(fname,'^\(.*/\)\(.\{-}\)$','\2','')
   let ok        = s:NetrwRemoteRmFile(b:netrw_curdir,barefname,1)
  endfor
  unlet mflist
 endif

 " -------
 " cleanup
 " -------
```

```
"  call Decho("cleanup")

 " remove markings from local buffer
 call s:NetrwUnmarkList(curbufnr,curdir)                " remove markings from local buffer

 " refresh buffers
 if !s:netrwmftgt_islocal
  call s:NetrwRefreshDir(s:netrwmftgt_islocal,s:netrwmftgt)
 endif
 if a:islocal
  call s:NetrwRefreshDir(a:islocal,b:netrw_curdir)
 endif
 if g:netrw_fastbrowse <= 1
  call s:LocalBrowseShellCmdRefresh()
 endif

"  call Dret("s:NetrwMarkFileMove")
endfun

" ----------------------------------------------------------------------
" s:NetrwMarkFilePrint: (invoked by mp) This function prints marked files {{{2
"                       using the hardcopy command.  Local marked-file list only.
fun! s:NetrwMarkFilePrint(islocal)
"  call Dfunc("s:NetrwMarkFilePrint(islocal=".a:islocal.")")
 let curbufnr= bufnr("%")
 if exists("s:netrwmarkfilelist_{curbufnr}")
  let netrwmarkfilelist = s:netrwmarkfilelist_{curbufnr}
  let curdir            = b:netrw_curdir
  call s:NetrwUnmarkList(curbufnr,curdir)
  for fname in netrwmarkfilelist
   if a:islocal
    if g:netrw_keepdir
     let fname= s:ComposePath(curdir,fname)
    endif
   else
    let fname= curdir.fname
   endif
   1split
   " the autocmds will handle both local and remote files
"    call Decho("exe silent e ".escape(fname,' '))
   exe "silent e ".fnameescape(fname)
"    call Decho("hardcopy")
   hardcopy
   q
  endfor
  2match none
 endif
"  call Dret("s:NetrwMarkFilePrint")
```

```
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFileRegexp: (invoked by mr) This function is used to mark {{{2
"                        files when given a regexp (for which a prompt is
"                        issued).
fun! s:NetrwMarkFileRegexp(islocal)
"  call Dfunc("s:NetrwMarkFileRegexp(islocal=".a:islocal.")")

 " get the regular expression
 call inputsave()
 let regexp= input("Enter regexp: ","","file")
 call inputrestore()

 if a:islocal
  " get the matching list of files using local glob()
"   call Decho("handle local regexp")
  let dirname  = escape(b:netrw_curdir,g:netrw_glob_escape)
  let filelist = glob(s:ComposePath(dirname,regexp))
  if filelist != ""
   let filelist= filelist."\n"
  endif

 " mark the list of files
 while filelist != ""
  if filelist =~ '\n'
   let filename = substitute(filelist,'\n.*$','','e')
   let filelist = substitute(filelist,'^.\{-}\n\(.*\)$','\1','e')
  else
   let filename = filelist
   let filelist = ""
  endif
"   call Decho("filelist<".filelist.">")
"   call Decho("filename<".filename.">")
  call s:NetrwMarkFile(a:islocal,substitute(filename,'^.*/',','))
 endwhile

 else
"   call Decho("handle remote regexp")

  " convert displayed listing into a filelist
  let eikeep = &ei
  let areg   = @a
  silent %y a
  set ei=all ma
"   call Decho("set ei=all ma")
  1split
  enew
```

```
 silent norm! "ap
 2
 let bannercnt= search('^" =====','W')
 exe "silent 1,".bannercnt."d"
 set bt=nofile
 if     g:netrw_liststyle == s:LONGLIST
  silent %s/\s\{2,}\S.*$//e
 elseif g:netrw_liststyle == s:WIDELIST
  silent %s/\s\{2,}/\r/ge
 elseif g:netrw_liststyle == s:TREELIST
  silent %s/^| //e
  silent! g/^ .*$/d
 endif
 " convert regexp into the more usual glob-style format
 let regexp= substitute(regexp,'\*','.*','g')
"   call Decho("regexp<".regexp.">")
 exe "silent! v/".escape(regexp,'/')."/d"
 let filelist= getline(1,line("$"))
 q!
 for filename in filelist
  call s:NetrwMarkFile(a:islocal,substitute(filename,'^.*/',","))
 endfor
 unlet filelist
 let @a  = areg
 let &ei = eikeep
endif

"  call Dret("s:NetrwMarkFileRegexp")
endfun

" ---------------------------------------------------------------------
" s:NetrwMarkFileSource: (invoked by ms) This function sources marked files {{{2
"                        Uses the local marked file list.
fun! s:NetrwMarkFileSource(islocal)
"  call Dfunc("s:NetrwMarkFileSource(islocal=".a:islocal.")")
 let curbufnr= bufnr("%")
 if exists("s:netrwmarkfilelist_{curbufnr}")
  let netrwmarkfilelist = s:netrwmarkfilelist_{bufnr("%")}
  let curdir            = b:netrw_curdir
  call s:NetrwUnmarkList(curbufnr,curdir)
  for fname in netrwmarkfilelist
   if a:islocal
    if g:netrw_keepdir
     let fname= s:ComposePath(curdir,fname)
    endif
   else
    let fname= curdir.fname
   endif
```

```
   " the autocmds will handle sourcing both local and remote files
"    call Decho("exe so ".fnameescape(fname))
   exe "so ".fnameescape(fname)
  endfor
  2match none
 endif
"  call Dret("s:NetrwMarkFileSource")
endfun

" ----------------------------------------------------------------------
" s:NetrwMarkFileTag: (invoked by mT) This function applies g:netrw_ctags to marked files {{{2
"                     Uses the global markfilelist
fun! s:NetrwMarkFileTag(islocal)
"  call Dfunc("s:NetrwMarkFileTag(islocal=".a:islocal.")")
 let svpos    = netrw#NetrwSavePosn()
 let curdir   = b:netrw_curdir
 let curbufnr = bufnr("%")

 if exists("s:netrwmarkfilelist")
"   call Decho("s:netrwmarkfilelist".string(s:netrwmarkfilelist).">")
  let netrwmarkfilelist= join(map(deepcopy(s:netrwmarkfilelist), "shellescape(v:val,".!a:islocal.")"))
  call s:NetrwUnmarkAll()

  if a:islocal
   if executable(g:netrw_ctags)
"     call Decho("call system(".g:netrw_ctags." ".netrwmarkfilelist.")")
    call system(g:netrw_ctags." ".netrwmarkfilelist)
   else
    call netrw#ErrorMsg(s:ERROR,"g:netrw_ctags<".g:netrw_ctags."> is not executable!",51)
   endif
  else
   let cmd   = s:RemoteSystem(g:netrw_ctags." ".netrwmarkfilelist)
   call netrw#NetrwObtain(a:islocal,"tags")
   let curdir= b:netrw_curdir
   1split
   e tags
   let path= substitute(curdir,'^\(.*\)/[^/]*$','\1/',")
"    call Decho("curdir<".curdir."> path<".path.">")
   exe '%s/\t\(\S\+\)\t/\t'.escape(path,"/\n\r\\").'\1\t/e'
   wq!
  endif
  2match none
  call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
  call netrw#NetrwRestorePosn(svpos)
 endif

"  call Dret("s:NetrwMarkFileTag")
endfun
```

```
" ---------------------------------------------------------------------
" s:NetrwMarkFileTgt:  (invoked by mt) This function sets up a marked file target {{{2
"   Sets up two variables,
"     s:netrwmftgt : holds the target directory
"     s:netrwmftgt_islocal : 0=target directory is remote
"                            1=target directory is local
fun! s:NetrwMarkFileTgt(islocal)
"  call Dfunc("s:NetrwMarkFileTgt(islocal=".a:islocal.")")
 let svpos  = netrw#NetrwSavePosn()
 let curdir = b:netrw_curdir
 let hadtgt = exists("s:netrwmftgt")
 if !exists("w:netrw_bannercnt")
  let w:netrw_bannercnt= b:netrw_bannercnt
 endif

 " set up target
 if line(".") < w:netrw_bannercnt
  " if cursor in banner region, use b:netrw_curdir for the target
  let s:netrwmftgt= b:netrw_curdir
"   call Decho("inbanner: s:netrwmftgt<".s:netrwmftgt.">")

 else
  " get word under cursor.
  "  * If directory, use it for the target.
  "  * If file, use b:netrw_curdir for the target
  let curword= s:NetrwGetWord()
  let tgtdir = s:ComposePath(curdir,curword)
  if a:islocal && isdirectory(tgtdir)
   let s:netrwmftgt = tgtdir
"    call Decho("local isdir: s:netrwmftgt<".s:netrwmftgt.">")
  elseif !a:islocal && tgtdir =~ '/$'
   let s:netrwmftgt = tgtdir
"    call Decho("remote isdir: s:netrwmftgt<".s:netrwmftgt.">")
  else
   let s:netrwmftgt = curdir
"    call Decho("isfile: s:netrwmftgt<".s:netrwmftgt.">")
  endif
 endif
 if a:islocal
  " simplify the target (eg. /abc/def/../ghi -> /abc/ghi)
  let s:netrwmftgt= simplify(s:netrwmftgt)
"   call Decho("simplify: s:netrwmftgt<".s:netrwmftgt.">")
 endif
 if g:netrw_cygwin
  let s:netrwmftgt= substitute(system("cygpath ".shellescape(s:netrwmftgt)),'\n$','','')
  let s:netrwmftgt= substitute(s:netrwmftgt,'\n$','','')
 endif
```

```
 let s:netrwmftgt_islocal= a:islocal

 if g:netrw_fastbrowse <= 1
  call s:LocalBrowseShellCmdRefresh()
 endif
 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)
 if !hadtgt
  norm! j
 endif

"  call Dret("s:NetrwMarkFileTgt : netrwmftgt<".(exists("s:netrwmftgt")? s:netrwmftgt : "").">")
endfun

" ---------------------------------------------------------------------
" s:NetrwOpenFile: query user for a filename and open it {{{2
fun! s:NetrwOpenFile(islocal)
"  call Dfunc("s:NetrwOpenFile(islocal=".a:islocal.")")
 call inputsave()
 let fname= input("Enter filename: ")
 call inputrestore()
 if fname !~ '[/\\]'
  if exists("b:netrw_curdir")
   if exists("g:netrw_quiet")
    let netrw_quiet_keep = g:netrw_quiet
   endif
   let g:netrw_quiet    = 1
   if b:netrw_curdir =~ '/$'
    exe "e ".fnameescape(b:netrw_curdir.fname)
   else
    exe "e ".fnameescape(b:netrw_curdir."/".fname)
   endif
   if exists("netrw_quiet_keep")
    let g:netrw_quiet= netrw_quiet_keep
   else
    unlet g:netrw_quiet
   endif
  endif
 else
  exe "e ".fnameescape(fname)
 endif
"  call Dret("s:NetrwOpenFile")
endfun

" ---------------------------------------------------------------------
" s:NetrwUnmarkList: delete local marked file lists and remove their contents from the global marked-file list {{{2
fun! s:NetrwUnmarkList(curbufnr,curdir)
"  call Dfunc("s:NetrwUnmarkList(curbufnr=".a:curbufnr." curdir<".a:curdir.">)")
```

```
"  remove all files in local marked-file list from global list
if exists("s:netrwmarkfilelist_{a:curbufnr}")
 for mfile in s:netrwmarkfilelist_{a:curbufnr}
  let dfile = s:ComposePath(a:curdir,mfile)       " prepend directory to mfile
  let idx   = index(s:netrwmarkfilelist,dfile)    " get index in list of dfile
  call remove(s:netrwmarkfilelist,idx)            " remove from global list
 endfor
 if s:netrwmarkfilelist == []
  unlet s:netrwmarkfilelist
 endif

 " getting rid of the local marked-file lists is easy
 unlet s:netrwmarkfilelist_{a:curbufnr}
endif
if exists("s:netrwmarkfilemtch_{a:curbufnr}")
 unlet s:netrwmarkfilemtch_{a:curbufnr}
endif
2match none
"  call Dret("s:NetrwUnmarkList")
endfun

" ---------------------------------------------------------------------
" s:NetrwUnmarkAll: remove the global marked file list and all local ones {{{2
fun! s:NetrwUnmarkAll()
"  call Dfunc("s:NetrwUnmarkAll()")
 if exists("s:netrwmarkfilelist")
  unlet s:netrwmarkfilelist
 endif
 silent call s:NetrwUnmarkAll2()
 2match none
"  call Dret("s:NetrwUnmarkAll")
endfun

" ---------------------------------------------------------------------
" s:NetrwUnmarkAll2: {{{2
fun! s:NetrwUnmarkAll2()
"  call Dfunc("s:NetrwUnmarkAll2()")
 redir => netrwmarkfilelist_let
 let
 redir END
 let netrwmarkfilelist_list= split(netrwmarkfilelist_let,'\n')          " convert let string into a let list
 call filter(netrwmarkfilelist_list,"v:val =~ '^s:netrwmarkfilelist_'") " retain only those vars that start as
s:netrwmarkfilelist_
 call map(netrwmarkfilelist_list,"substitute(v:val,'\\s.*$','','')")    " remove what the entries are equal to
 for flist in netrwmarkfilelist_list
  let curbufnr= substitute(flist,'s:netrwmarkfilelist_','','')
  unlet s:netrwmarkfilelist_{curbufnr}
```

```
  unlet s:netrwmarkfilemtch_{curbufnr}
 endfor
"  call Dret("s:NetrwUnmarkAll2")
endfun

" ---------------------------------------------------------------------
" s:NetrwUnMarkFile: {{{2
fun! s:NetrwUnMarkFile(islocal)
"  call Dfunc("s:NetrwUnMarkFile(islocal=".a:islocal.")")
 let svpos    = netrw#NetrwSavePosn()
 let curbufnr = bufnr("%")

 " unmark marked file list (although I expect s:NetrwUpload()
 " to do it, I'm just making sure)
 if exists("s:netrwmarkfilelist_{bufnr('%')}")
"   call Decho("unlet'ing: s:netrwmarkfile[list|mtch]_".bufnr("%"))
  unlet s:netrwmarkfilelist
  unlet s:netrwmarkfilelist_{curbufnr}
  unlet s:netrwmarkfilemtch_{curbufnr}
  2match none
 endif

"  call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)
"  call Dret("s:NetrwUnMarkFile")
endfun

" ---------------------------------------------------------------------
" s:NetrwMenu: generates the menu for gvim and netrw {{{2
fun! s:NetrwMenu(domenu)

 if !exists("g:NetrwMenuPriority")
  let g:NetrwMenuPriority= 80
 endif

 if has("menu") && has("gui_running") && &go =~ 'm' && g:netrw_menu
"   call Dfunc("NetrwMenu(domenu=".a:domenu.")")

  if !exists("s:netrw_menu_enabled") && a:domenu
"    call Decho("initialize menu")
   let s:netrw_menu_enabled= 1
   exe 'silent! menu '.g:NetrwMenuPriority.'.1     '.g:NetrwTopLvlMenu.'Help<tab><F1> <F1>'
   exe 'silent! menu '.g:NetrwMenuPriority.'.5     '.g:NetrwTopLvlMenu.'-Sep1- :'
   exe 'silent! menu '.g:NetrwMenuPriority.'.6     '.g:NetrwTopLvlMenu.'Go\ Up\ Directory<tab>- -'
   exe 'silent! menu '.g:NetrwMenuPriority.'.7     '.g:NetrwTopLvlMenu.'Apply\ Special\ Viewer<tab>x x'
   exe 'silent! menu '.g:NetrwMenuPriority.'.8.1   '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Bookmark\
Current\ Directory<tab>mb mb'
   exe 'silent! menu '.g:NetrwMenuPriority.'.8.4   '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Goto\ Prev\ Dir\
```

```
(History)<tab>u u'
  exe 'silent! menu '.g:NetrwMenuPriority.'.8.5   '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.Goto\ Next\ Dir\
(History)<tab>U U'
  exe 'silent! menu '.g:NetrwMenuPriority.'.8.6   '.g:NetrwTopLvlMenu.'Bookmarks\ and\ History.List<tab>qb qb'
  exe 'silent! menu '.g:NetrwMenuPriority.'.9.1   '.g:NetrwTopLvlMenu.'Browsing\ Control.Edit\ File\ Hiding\
List<tab><ctrl-h>'." \<c-h>'"
  exe 'silent! menu '.g:NetrwMenuPriority.'.9.2   '.g:NetrwTopLvlMenu.'Browsing\ Control.Edit\ Sorting\
Sequence<tab>S S'
  exe 'silent! menu '.g:NetrwMenuPriority.'.9.3   '.g:NetrwTopLvlMenu.'Browsing\ Control.Quick\ Hide/Unhide\
Dot\ Files<tab>'."gh gh"
  exe 'silent! menu '.g:NetrwMenuPriority.'.9.4   '.g:NetrwTopLvlMenu.'Browsing\ Control.Refresh\
Listing<tab>'."<ctrl-l> \<c-l>"
  exe 'silent! menu '.g:NetrwMenuPriority.'.9.5   '.g:NetrwTopLvlMenu.'Browsing\
Control.Settings/Options<tab>:NetrwSettings '.":NetrwSettings\<cr>"
  exe 'silent! menu '.g:NetrwMenuPriority.'.10    '.g:NetrwTopLvlMenu.'Delete\ File/Directory<tab>D D'
  exe 'silent! menu '.g:NetrwMenuPriority.'.11.1  '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ Current\
Window<tab><cr> '."\<cr>"
  exe 'silent! menu '.g:NetrwMenuPriority.'.11.2  '.g:NetrwTopLvlMenu.'Edit\ File/Dir.Preview\
File/Directory<tab>p p'
  exe 'silent! menu '.g:NetrwMenuPriority.'.11.3  '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ Previous\ Window<tab>P
P'
  exe 'silent! menu '.g:NetrwMenuPriority.'.11.4  '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ New\ Window<tab>o o'
  exe 'silent! menu '.g:NetrwMenuPriority.'.11.5  '.g:NetrwTopLvlMenu.'Edit\ File/Dir.In\ New\ Vertical\
Window<tab>v v'
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.1  '.g:NetrwTopLvlMenu.'Explore.Directory\ Name :Explore '
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.2  '.g:NetrwTopLvlMenu.'Explore.Filenames\ Matching\ Pattern\
(curdir\ only)<tab>:Explore\ */ :Explore */'
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.2  '.g:NetrwTopLvlMenu.'Explore.Filenames\ Matching\ Pattern\
(+subdirs)<tab>:Explore\ **/ :Explore **/'
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.3  '.g:NetrwTopLvlMenu.'Explore.Files\ Containing\ Pattern\ (curdir\
only)<tab>:Explore\ *// :Explore *//'
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.4  '.g:NetrwTopLvlMenu.'Explore.Files\ Containing\ Pattern\
(+subdirs)<tab>:Explore\ **// :Explore **//'
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.4  '.g:NetrwTopLvlMenu.'Explore.Next\ Match<tab>:Nexplore
:Nexplore<cr>'
  exe 'silent! menu '.g:NetrwMenuPriority.'.12.4  '.g:NetrwTopLvlMenu.'Explore.Prev\ Match<tab>:Pexplore
:Pexplore<cr>'
  exe 'silent! menu '.g:NetrwMenuPriority.'.13    '.g:NetrwTopLvlMenu.'Make\ Subdirectory<tab>d d'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.1  '.g:NetrwTopLvlMenu.'Marked\ Files.Mark\ File<tab>mf mf'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.2  '.g:NetrwTopLvlMenu.'Marked\ Files.Mark\ Files\ by\
Regexp<tab>mr mr'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.3  '.g:NetrwTopLvlMenu.'Marked\ Files.Hide-Show-List\
Control<tab>a a'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.4  '.g:NetrwTopLvlMenu.'Marked\ Files.Copy\ To\ Target<tab>mc
mc'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.5  '.g:NetrwTopLvlMenu.'Marked\ Files.Delete<tab>D D'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.6  '.g:NetrwTopLvlMenu.'Marked\ Files.Diff<tab>md md'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.7  '.g:NetrwTopLvlMenu.'Marked\ Files.Edit<tab>me me'
```

```
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.8  '.g:NetrwTopLvlMenu.'Marked\ Files.Exe\ Cmd<tab>mx mx'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.9  '.g:NetrwTopLvlMenu.'Marked\ Files.Move\ To\ Target<tab>mm
mm'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.10 '.g:NetrwTopLvlMenu.'Marked\ Files.Obtain<tab>O O'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.11 '.g:NetrwTopLvlMenu.'Marked\ Files.Print<tab>mp mp'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.12 '.g:NetrwTopLvlMenu.'Marked\ Files.Replace<tab>R R'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.13 '.g:NetrwTopLvlMenu.'Marked\ Files.Set\ Target<tab>mt mt'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.14 '.g:NetrwTopLvlMenu.'Marked\ Files.Tag<tab>mT mT'
  exe 'silent! menu '.g:NetrwMenuPriority.'.14.15 '.g:NetrwTopLvlMenu.'Marked\
Files.Zip/Unzip/Compress/Uncompress<tab>mz mz'
  exe 'silent! menu '.g:NetrwMenuPriority.'.15    '.g:NetrwTopLvlMenu.'Obtain\ File<tab>O O'
  exe 'silent! menu '.g:NetrwMenuPriority.'.16.1  '.g:NetrwTopLvlMenu.'Style.Listing\ Style\ (thin-long-wide-
tree)<tab>i i'
  exe 'silent! menu '.g:NetrwMenuPriority.'.16.2  '.g:NetrwTopLvlMenu.'Style.Normal-Hide-Show<tab>a a'
  exe 'silent! menu '.g:NetrwMenuPriority.'.16.3  '.g:NetrwTopLvlMenu.'Style.Reverse\ Sorting\ Order<tab>'."r r"
  exe 'silent! menu '.g:NetrwMenuPriority.'.16.4  '.g:NetrwTopLvlMenu.'Style.Sorting\ Method\ (name-time-
size)<tab>s s'
  exe 'silent! menu '.g:NetrwMenuPriority.'.17    '.g:NetrwTopLvlMenu.'Rename\ File/Directory<tab>R R'
  exe 'silent! menu '.g:NetrwMenuPriority.'.18    '.g:NetrwTopLvlMenu.'Set\ Current\ Directory<tab>c c'
  call s:NetrwBookmarkMenu() " provide some history!  uses priorities 2,3, reserves 4, 8.2.x
  let s:netrw_menucnt= 28

 elseif !a:domenu
  let s:netrwcnt = 0
  let curwin     = winnr()
  windo if getline(2) =~ "Netrw" | let s:netrwcnt= s:netrwcnt + 1 | endif
  exe curwin."wincmd w"

  if s:netrwcnt <= 1
"     call Decho("clear menus")
   exe 'silent! unmenu '.g:NetrwTopLvlMenu
"     call Decho('exe silent! unmenu '.g:NetrwTopLvlMenu.'*')
   silent! unlet s:netrw_menu_enabled
  endif
 endif
"   call Dret("NetrwMenu")
endif

endfun

" ---------------------------------------------------------------------
" s:NetrwObtain: obtain file under cursor or from markfile list {{{2
"               Used by the O maps (as <SID>NetrwObtain())
fun! s:NetrwObtain(islocal)
"  call Dfunc("NetrwObtain(islocal=".a:islocal.")")

 if exists("s:netrwmarkfilelist_{bufnr('%')}")
  let islocal= s:netrwmarkfilelist_{bufnr('%')}[1] !~ '^\a\+://'
```

```
 call netrw#NetrwObtain(islocal,s:netrwmarkfilelist_{bufnr('%')})
 call s:NetrwUnmarkList(bufnr('%'),b:netrw_curdir)
 else
 call netrw#NetrwObtain(a:islocal,expand("<cWORD>"))
 endif

"  call Dret("NetrwObtain")
endfun

" ------------------------------------------------------------------------
" netrw#NetrwObtain: {{{2
"   netrw#NetrwObtain(islocal,fname[,tgtdirectory])
"     islocal=0  obtain from remote source
"            =1  obtain from local source
"     fname  :   a filename or a list of filenames
"     tgtdir :   optional place where files are to go  (not present, uses getcwd())
fun! netrw#NetrwObtain(islocal,fname,...)
"  call Dfunc("netrw#NetrwObtain(islocal=".a:islocal." fname<".((type(a:fname) == 1)? a:fname :
string(a:fname)).">) a:0=".a:0)
 " NetrwStatusLine support - for obtaining support

 if type(a:fname) == 1
  let fnamelist= [ a:fname ]
 elseif type(a:fname) == 3
  let fnamelist= a:fname
 else
  call netrw#ErrorMsg(s:ERROR,"attempting to use NetrwObtain on something not a filename or a list",62)
"   call Dret("netrw#NetrwObtain")
  return
 endif
"  call Decho("fnamelist<".string(fnamelist).">")
 if a:0 > 0
  let tgtdir= a:1
 else
  let tgtdir= getcwd()
 endif
"  call Decho("tgtdir<".tgtdir.">")

 if exists("b:netrw_islocal") && b:netrw_islocal
  " obtain a file from local b:netrw_curdir to (local) tgtdir
"   call Decho("obtain a file from local ".b:netrw_curdir." to ".tgtdir)
  if exists("b:netrw_curdir") && getcwd() != b:netrw_curdir
   let topath= s:ComposePath(tgtdir,"")
   if (has("win32") || has("win95") || has("win64") || has("win16"))
    " transfer files one at time
"     call Decho("transfer files one at a time")
    for fname in fnamelist
"      call Decho("system(".g:netrw_localcopycmd." ".shellescape(fname)." ".shellescape(topath).")")
```

```
     call system(g:netrw_localcopycmd." ".shellescape(fname)." ".shellescape(topath))
    endfor
   else
    " transfer files with one command
"    call Decho("transfer files with one command")
    let filelist= join(map(deepcopy(fnamelist),"shellescape(v:val)"))
"    call Decho("system(".g:netrw_localcopycmd." ".filelist." ".shellescape(topath).")")
    call system(g:netrw_localcopycmd." ".filelist." ".shellescape(topath))
   endif
  elseif !exists("b:netrw_curdir")
   call netrw#ErrorMsg(s:ERROR,"local browsing directory doesn't exist!",36)
  else
   call netrw#ErrorMsg(s:WARNING,"local browsing directory and current directory are identical",37)
  endif

 else
  " obtain files from remote b:netrw_curdir to local tgtdir
"  call Decho("obtain a file from remote ".b:netrw_curdir." to ".tgtdir)
  if type(a:fname) == 1
   call s:SetupNetrwStatusLine('%f %h%m%r%=%9*Obtaining '.a:fname)
  endif
  call s:NetrwMethod(b:netrw_curdir)

  if b:netrw_method == 4
   " obtain file using scp
"   call Decho("obtain via scp (method#4)")
   if exists("g:netrw_port") && g:netrw_port != ""
    let useport= " ".g:netrw_scpport." ".g:netrw_port
   else
    let useport= ""
   endif
   if b:netrw_fname =~ '/'
    let path= substitute(b:netrw_fname,'^\(.*/\).\{-}$','\1',')
   else
    let path= ""
   endif
   let filelist= join(map(deepcopy(fnamelist),'shellescape(g:netrw_machine.":".path.v:val,1)'))
"   call Decho("exe ".s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".filelist."
".shellescape(tgtdir,1))
   exe s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".filelist." ".shellescape(tgtdir,1)

  elseif b:netrw_method == 2
   " obtain file using ftp + .netrc
"    call Decho("obtain via ftp+.netrc (method #2)")
    call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
    let tmpbufnr= bufnr("%")
    setlocal ff=unix
    if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
```

```
     put =g:netrw_ftpmode
"      call Decho("filter input: ".getline('$'))
    endif

    if exists("b:netrw_fname") && b:netrw_fname != ""
     call setline(line("$")+1,'cd "'.b:netrw_fname.'"')
"      call Decho("filter input: ".getline('$'))
    endif

    if exists("g:netrw_ftpextracmd")
     put =g:netrw_ftpextracmd
"      call Decho("filter input: ".getline('$'))
    endif
    for fname in fnamelist
     call setline(line("$")+1,'get "'.fname.'"')
"      call Decho("filter input: ".getline('$'))
    endfor
    if exists("g:netrw_port") && g:netrw_port != ""
"      call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
     exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
    else
"      call Decho("executing: %!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
     exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
    endif
    " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
    if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
     let debugkeep= &debug
     setlocal debug=msg
     call netrw#ErrorMsg(s:ERROR,getline(1),4)
     let &debug= debugkeep
    endif

  elseif b:netrw_method == 3
   " obtain with ftp + machine, id, passwd, and fname (ie. no .netrc)
"    call Decho("obtain via ftp+mipf (method #3)")
   call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
   let tmpbufnr= bufnr("%")
   setlocal ff=unix

   if exists("g:netrw_port") && g:netrw_port != ""
    put ='open '.g:netrw_machine.' '.g:netrw_port
"     call Decho("filter input: ".getline('$'))
   else
    put ='open '.g:netrw_machine
"     call Decho("filter input: ".getline('$'))
   endif
```

```
  if exists("g:netrw_ftp") && g:netrw_ftp == 1
   put =g:netrw_uid
"    call Decho("filter input: ".getline('$'))
   put ='\"'.s:netrw_passwd.'\"'
"    call Decho("filter input: ".getline('$'))
  else
   put ='user \"'.g:netrw_uid.'\" \"'.s:netrw_passwd.'\"'
"    call Decho("filter input: ".getline('$'))
  endif

  if exists("g:netrw_ftpmode") && g:netrw_ftpmode != ""
   put =g:netrw_ftpmode
"    call Decho("filter input: ".getline('$'))
  endif

  if exists("b:netrw_fname") && b:netrw_fname != ""
   call setline(line("$")+1,'cd "'.b:netrw_fname.'"')
"    call Decho("filter input: ".getline('$'))
  endif

  if exists("g:netrw_ftpextracmd")
   put =g:netrw_ftpextracmd
"    call Decho("filter input: ".getline('$'))
  endif

  if exists("g:netrw_ftpextracmd")
   put =g:netrw_ftpextracmd
"    call Decho("filter input: ".getline('$'))
  endif
  for fname in fnamelist
   call setline(line("$")+1,'get "'.fname.'"')
  endfor
"   call Decho("filter input: ".getline('$'))

  " perform ftp:
  " -i       : turns off interactive prompting from ftp
  " -n  unix : DON'T use <.netrc>, even though it exists
  " -n  win32: quit being obnoxious about password
  norm! 1Gdd
"   call Decho("executing: %!".g:netrw_ftp_cmd." -i -n")
  exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n"
  " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
  if getline(1) !~ "^$"
"    call Decho("error<".getline(1).">")
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,getline(1),5)
   endif
```

```
  endif
 elseif !exists("b:netrw_method") || b:netrw_method < 0
"    call Dfunc("netrw#NetrwObtain : unsupported method")
  return
 endif

 " restore status line
 if type(a:fname) == 1 && exists("s:netrw_users_stl")
  call s:SetupNetrwStatusLine(s:netrw_users_stl)
 endif

endif

" cleanup
if exists("tmpbufnr")
 if bufnr("%") != tmpbufnr
  exe tmpbufnr."bw!"
 else
  q!
 endif
endif

"  call Dret("netrw#NetrwObtain")
endfun

" ---------------------------------------------------------------------
" s:NetrwPrevWinOpen: open file/directory in previous window.  {{{2
"   If there's only one window, then the window will first be split.
"   Returns:
"     choice = 0 : didn't have to choose
"     choice = 1 : saved modified file in window first
"     choice = 2 : didn't save modified file, opened window
"     choice = 3 : cancel open
fun! s:NetrwPrevWinOpen(islocal)
"  call Dfunc("NetrwPrevWinOpen(islocal=".a:islocal.")")

 " grab a copy of the b:netrw_curdir to pass it along to newly split windows
 let curdir    = b:netrw_curdir

 " get last window number and the word currently under the cursor
 let lastwinnr = winnr("$")
 let curword   = s:NetrwGetWord()
 let choice    = 0
"  call Decho("lastwinnr=".lastwinnr." curword<".curword.">")

 let didsplit  = 0
 if lastwinnr == 1
  " if only one window, open a new one first
```

```
"   call Decho("only one window, so open a new one (g:netrw_alto=".g:netrw_alto.")")
 if g:netrw_preview
"    call Decho("exe ".(g:netrw_alto? "top " : "bot ")."vert ".g:netrw_winsize."wincmd s")
  exe (g:netrw_alto? "top " : "bot ")."vert ".g:netrw_winsize."wincmd s"
 else
"    call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
  exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
 endif
 let didsplit  = 1

else
 call s:SaveBufVars()
"   call Decho("wincmd p")
 wincmd p
 call s:RestoreBufVars()
 " if the previous window's buffer has been changed (is modified),
 " and it doesn't appear in any other extant window, then ask the
 " user if s/he wants to abandon modifications therein.
 let bnr    = winbufnr(0)
 let bnrcnt = 0
 if &mod
"    call Decho("detected: prev window's buffer has been modified: bnr=".bnr." winnr#".winnr())
  let eikeep= &ei
  set ei=all
  windo if winbufnr(0) == bnr | let bnrcnt=bnrcnt+1 | endif
  exe bnr."wincmd p"
  let &ei= eikeep
"    call Decho("bnr=".bnr." bnrcnt=".bnrcnt." buftype=".&bt." winnr#".winnr())
  if bnrcnt == 1
   let bufname= bufname(winbufnr(winnr()))
   let choice= confirm("Save modified file<".bufname.">?","&Yes\n&No\n&Cancel")
"     call Decho("bufname<".bufname."> choice=".choice." winnr#".winnr())

   if choice == 1
    " Yes -- write file & then browse
    let v:errmsg= ""
    silent w
    if v:errmsg != ""
     call netrw#ErrorMsg(s:ERROR,"unable to write <".bufname.">!",30)
     if didsplit
      q
     else
      wincmd p
     endif
"       call Dret("NetrwPrevWinOpen ".choice." : unable to write <".bufname.">")
     return choice
    endif
```

```
   elseif choice == 2
    " No -- don't worry about changed file, just browse anyway
    setlocal nomod
    call netrw#ErrorMsg(s:WARNING,bufname." changes to ".bufname." abandoned",31)
    wincmd p

   else
    " Cancel -- don't do this
    if didsplit
     q
    else
     wincmd p
    endif
"     call Dret("NetrwPrevWinOpen ".choice." : cancelled")
    return choice
   endif
  endif
 endif
endif

" restore b:netrw_curdir (window split/enew may have lost it)
let b:netrw_curdir= curdir
if a:islocal < 2
 if a:islocal
  call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(a:islocal,curword))
 else
  call s:NetrwBrowse(a:islocal,s:NetrwBrowseChgDir(a:islocal,curword))
 endif
endif
"  call Dret("NetrwPrevWinOpen ".choice)
return choice
endfun

" ---------------------------------------------------------------------
" s:NetrwUpload: load fname to tgt (used by NetrwMarkFileCopy()) {{{2
"               Always assumed to be local -> remote
"               call s:NetrwUpload(filename, target)
"               call s:NetrwUpload(filename, target, fromdirectory)
fun! s:NetrwUpload(fname,tgt,...)
"  call Dfunc("s:NetrwUpload(fname<".((type(a:fname) == 1)? a:fname : string(a:fname))."> tgt<".a:tgt.">)
a:0=".a:0)

 if a:tgt =~ '^\a\+://'
  let tgtdir= substitute(a:tgt,'^\a\+://[^/]\+/\(.\{-}\)$','\1','')
 else
  let tgtdir= substitute(a:tgt,'^\(.*\)/[^/]*$','\1','')
 endif
"  call Decho("tgtdir<".tgtdir.">")
```

```
 if a:0 > 0
  let fromdir= a:1
 else
  let fromdir= getcwd()
 endif
"  call Decho("fromdir<".fromdir.">")

 if type(a:fname) == 1
  " handle uploading a single file using NetWrite
"   call Decho("handle uploading a single file via NetWrite")
  1split
"   call Decho("exe e ".fnameescape(a:fname))
  exe "e ".fnameescape(a:fname)
"   call Decho("now locally editing<".expand("%").">, has ".line("$")." lines")
  if a:tgt =~ '/$'
   let wfname= substitute(a:fname,'^.*/',",")
"    call Decho("exe w! ".fnameescape(wfname))
   exe "w! ".fnameescape(a:tgt.wfname)
  else
"    call Decho("writing local->remote: exe w ".fnameescape(a:tgt))
   exe "w ".fnameescape(a:tgt)
"    call Decho("done writing local->remote")
  endif
  q!

 elseif type(a:fname) == 3
  " handle uploading a list of files via scp
"   call Decho("handle uploading a list of files via scp")
  let curdir= getcwd()
  if a:tgt =~ '^scp:'
   exe "keepjumps silent lcd ".fnameescape(fromdir)
   let filelist= deepcopy(s:netrwmarkfilelist_{bufnr('%')})
   let args    = join(map(filelist,"shellescape(v:val, 1)"))
   if exists("g:netrw_port") && g:netrw_port != ""
    let useport= " ".g:netrw_scpport." ".g:netrw_port
   else
    let useport= ""
   endif
   let machine = substitute(a:tgt,'^scp://\([^/:]\+\).*$','\1',")
   let tgt     = substitute(a:tgt,'^scp://[^/]\+/\(.*\)$','\1',")
"    call Decho("exe ".s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".args."
".shellescape(machine.":".tgt,1))
   exe s:netrw_silentxfer."!".g:netrw_scp_cmd.shellescape(useport,1)." ".args." ".shellescape(machine.":".tgt,1)
   exe "keepjumps silent lcd ".fnameescape(curdir)

  elseif a:tgt =~ '^ftp:'
   call s:NetrwMethod(a:tgt)
```

```
  if b:netrw_method == 2
   " handle uploading a list of files via ftp+.netrc
   let netrw_fname = b:netrw_fname
   silent keepjumps new
"    call Decho("filter input window#".winnr())

   put =g:netrw_ftpmode
"    call Decho("filter input: ".getline('$'))

   if exists("g:netrw_ftpextracmd")
    put =g:netrw_ftpextracmd
"     call Decho("filter input: ".getline('$'))
   endif

   call setline(line("$")+1,'lcd "'.fromdir.'"')
"    call Decho("filter input: ".getline('$'))

   call setline(line("$")+1,'cd "'.tgtdir.'"')
"    call Decho("filter input: ".getline('$'))

   for fname in a:fname
    call setline(line("$")+1,'put "'.fname.'"')
"     call Decho("filter input: ".getline('$'))
   endfor

   if exists("g:netrw_port") && g:netrw_port != ""
"     call Decho("executing: ".s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1))
    exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)."
".shellescape(g:netrw_port,1)
   else
"     call Decho("filter input window#".winnr())
"     call Decho("executing: ".s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1))
    exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i ".shellescape(g:netrw_machine,1)
   endif
   " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
   silent g/Local directory now/d
   if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
    call netrw#ErrorMsg(s:ERROR,getline(1),14)
   else
    bw!|q
   endif

  elseif b:netrw_method == 3
   " upload with ftp + machine, id, passwd, and fname (ie. no .netrc)
   let netrw_fname= b:netrw_fname
   call s:SaveBufVars()|silent keepjumps new|call s:RestoreBufVars()
```

```
    let tmpbufnr= bufnr("%")
    setlocal ff=unix

    if exists("g:netrw_port") && g:netrw_port != ""
     put ='open '.g:netrw_machine.' '.g:netrw_port
"      call Decho("filter input: ".getline('$'))
    else
     put ='open '.g:netrw_machine
"      call Decho("filter input: ".getline('$'))
    endif

    if exists("g:netrw_ftp") && g:netrw_ftp == 1
     put =g:netrw_uid
"      call Decho("filter input: ".getline('$'))
     call setline(line("$")+1,"".s:netrw_passwd."")
"      call Decho("filter input: ".getline('$'))
    else
     put ='user \"'.g:netrw_uid.'\" \"'.s:netrw_passwd.'\"'
"      call Decho("filter input: ".getline('$'))
    endif

    call setline(line("$")+1,'lcd "'.fromdir.'"')
"     call Decho("filter input: ".getline('$'))

    if exists("b:netrw_fname") && b:netrw_fname != ""
     call setline(line("$")+1,'cd "'.b:netrw_fname.'"')
"      call Decho("filter input: ".getline('$'))
    endif

    if exists("g:netrw_ftpextracmd")
     put =g:netrw_ftpextracmd
"      call Decho("filter input: ".getline('$'))
    endif

    for fname in a:fname
     call setline(line("$")+1,'put "'.fname.'"')
"      call Decho("filter input: ".getline('$'))
    endfor

    " perform ftp:
    " -i      : turns off interactive prompting from ftp
    " -n  unix : DON'T use <.netrc>, even though it exists
    " -n  win32: quit being obnoxious about password
    norm! 1Gdd
"     call Decho("executing: ".s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n")
    exe s:netrw_silentxfer."%!".g:netrw_ftp_cmd." -i -n"
    " If the result of the ftp operation isn't blank, show an error message (tnx to Doug Claar)
    silent g/Local directory now/d
```

```
   if getline(1) !~ "^$" && !exists("g:netrw_quiet") && getline(1) !~ '^Trying '
    let debugkeep= &debug
    setlocal debug=msg
    call netrw#ErrorMsg(s:ERROR,getline(1),15)
    let &debug = debugkeep
    let mod    = 1
   else
    bw!|q
   endif
  elseif !exists("b:netrw_method") || b:netrw_method < 0
"     call Dfunc("netrw#NetrwUpload : unsupported method")
   return
  endif
 else
  call netrw#ErrorMsg(s:ERROR,"can't obtain files with protocol from<".a:tgt.">",63)
 endif
endif

"  call Dret("s:NetrwUpload")
endfun

" ---------------------------------------------------------------------
" s:NetrwPreview: {{{2
fun! s:NetrwPreview(path) range
"  call Dfunc("NetrwPreview(path<".a:path.">)")
 call s:NetrwOptionSave("s:")
 call s:NetrwSafeOptions()
 if has("quickfix")
  if !isdirectory(a:path)
   exe (g:netrw_preview? "vert " : "")."pedit ".fnameescape(a:path)
  elseif !exists("g:netrw_quiet")
   call netrw#ErrorMsg(s:WARNING,"sorry, cannot preview a directory such as <".a:path.">",38)
  endif
 elseif !exists("g:netrw_quiet")
  call netrw#ErrorMsg(s:WARNING,"sorry, to preview your vim needs the quickfix feature compiled in",39)
 endif
 call s:NetrwOptionRestore("s:")
"  call Dret("NetrwPreview")
endfun

" ---------------------------------------------------------------------
" s:NetrwRefresh: {{{2
fun! s:NetrwRefresh(islocal,dirname)
"  call Dfunc("NetrwRefresh(islocal<".a:islocal.">,dirname=".a:dirname.") hide=".g:netrw_hide."
sortdir=".g:netrw_sort_direction)
 " at the current time (Mar 19, 2007) all calls to NetrwRefresh() call NetrwBrowseChgDir() first.
 " NetrwBrowseChgDir() may clear the display; hence a NetrwSavePosn() may not work if its placed here.
 " Also, NetrwBrowseChgDir() now does a NetrwSavePosn() itself.
```

```
 setlocal ma noro
"  call Decho("setlocal ma noro")
"  call Decho("clear buffer<".expand("%").."> with :%d")
 %d
 if a:islocal
  call netrw#LocalBrowseCheck(a:dirname)
 else
  call s:NetrwBrowse(a:islocal,a:dirname)
 endif
 call netrw#NetrwRestorePosn()

 " restore file marks
 if exists("s:netrwmarkfilemtch_{bufnr('%')}") && s:netrwmarkfilemtch_{bufnr("%")} != ""
"   call Decho("exe 2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/")
  exe "2match netrwMarkFile /".s:netrwmarkfilemtch_{bufnr("%")}."/"
 else
"   call Decho("2match none")
  2match none
 endif

"  redraw!
"  call Dret("NetrwRefresh")
endfun

" ---------------------------------------------------------------------
" s:NetrwRefreshDir: refreshes a directory by name {{{2
"                    Called by NetrwMarkFileCopy()
"                    Interfaces to s:NetrwRefresh() and s:LocalBrowseShellCmdRefresh()
fun! s:NetrwRefreshDir(islocal,dirname)
"  call Dfunc("s:NetrwRefreshDir(islocal=".a:islocal." dirname<".a:dirname.">) fastbrowse=".g:netrw_fastbrowse)
 if g:netrw_fastbrowse == 0
  " slowest mode (keep buffers refreshed, local or remote)
"   call Decho("slowest mode: keep buffers refreshed, local or remote")
  let tgtwin= bufwinnr(a:dirname)
"   call Decho("tgtwin= bufwinnr(".a:dirname.")=".tgtwin)

  if tgtwin > 0
   " tgtwin is being displayed, so refresh it
   let curwin= winnr()
"    call Decho("refresh tgtwin#".tgtwin." (curwin#".curwin.")")
   exe tgtwin."wincmd w"
   call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
   exe curwin."wincmd w"

  elseif bufnr(a:dirname) > 0
   let bn= bufnr(a:dirname)
"    call Decho("bd bufnr(".a:dirname.")=".bn)
   exe "silent bd ".bn
```

```
 endif

 elseif g:netrw_fastbrowse <= 1
"   call Decho("medium-speed mode: refresh local buffers only")
  call s:LocalBrowseShellCmdRefresh()
 endif
"  call Dret("s:NetrwRefreshDir")
endfun

" ---------------------------------------------------------------------
" s:NetrwSetSort: sets up the sort based on the g:netrw_sort_sequence {{{2
"          What this function does is to compute a priority for the patterns
"          in the g:netrw_sort_sequence.  It applies a substitute to any
"          "files" that satisfy each pattern, putting the priority / in
"          front.  An "*" pattern handles the default priority.
fun! s:NetrwSetSort()
"  call Dfunc("SetSort() bannercnt=".w:netrw_bannercnt)
 if w:netrw_liststyle == s:LONGLIST
  let seqlist  = substitute(g:netrw_sort_sequence,'\$','\\%(\t\|\$\)','ge')
 else
  let seqlist  = g:netrw_sort_sequence
 endif
 " sanity check -- insure that * appears somewhere
 if seqlist == ""
  let seqlist= '*'
 elseif seqlist !~ '\*'
  let seqlist= seqlist.',*'
 endif
 let priority = 1
 while seqlist != ""
  if seqlist =~ ','
   let seq     = substitute(seqlist,',.*$','','e')
   let seqlist = substitute(seqlist,'^.\{-},\(.*\)$','\1','e')
  else
   let seq     = seqlist
   let seqlist = ""
  endif
  let sepchr= "\<Char-0xff>"
  if priority < 10
   let spriority= "00".priority.sepchr
  elseif priority < 100
   let spriority= "0".priority.sepchr
  else
   let spriority= priority.sepchr
  endif
"   call Decho("priority=".priority." spriority<".spriority."> seq<".seq."> seqlist<".seqlist.">")

  " sanity check
```

```
 if w:netrw_bannercnt > line("$")
  " apparently no files were left after a Hiding pattern was used
"    call Dret("SetSort : no files left after hiding")
  return
 endif
 if seq == '*'
  let starpriority= spriority
 else
  exe 'silent keepjumps '.w:netrw_bannercnt.',$g/'.seq.'/s/^/'.spriority.'/'
  " sometimes multiple sorting patterns will match the same file or directory.
  " The following substitute is intended to remove the excess matches.
  exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^\d\{3}'.sepchr.'\d\{3}\//s/^\d\{3}'.sepchr.'\(\d\{3}\/\).\@=/\1/e'
 endif
 let priority = priority + 1
endwhile
if exists("starpriority")
 exe 'silent keepjumps '.w:netrw_bannercnt.',$v/^\d\{3}'.sepchr.'/s/^/'.starpriority.'/'
endif

" Following line associated with priority -- items that satisfy a priority
" pattern get prefixed by ###/ which permits easy sorting by priority.
" Sometimes files can satisfy multiple priority patterns -- only the latest
" priority pattern needs to be retained.  So, at this point, these excess
" priority prefixes need to be removed, but not directories that happen to
" be just digits themselves.
exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\(\d\{3}'.sepchr.'\)\%(\d\{3}'.sepchr.'\)\+\ze./\1/e'

"  call Dret("SetSort")
endfun

" ====================================================================
" s:NetrwSortStyle: change sorting style (name - time - size) and refresh display {{{2
fun! s:NetrwSortStyle(islocal)
"  call Dfunc("s:NetrwSortStyle(islocal=".a:islocal.") netrw_sort_by<".g:netrw_sort_by.">")
 call s:NetrwSaveWordPosn()
 let svpos= netrw#NetrwSavePosn()

 let g:netrw_sort_by= (g:netrw_sort_by =~ 'n')? 'time' : (g:netrw_sort_by =~ 't')? 'size' : 'name'
 norm! 0
 call s:NetrwRefresh(a:islocal,s:NetrwBrowseChgDir(a:islocal,'./'))
 call netrw#NetrwRestorePosn(svpos)

"  call Dret("s:NetrwSortStyle : netrw_sort_by<".g:netrw_sort_by.">")
endfun

" ---------------------------------------------------------------------
" s:NetrwSplit: mode {{{2
"           =0 : net   and o
```

```
"           =1 : net   and t
"           =2 : net   and v
"           =3 : local and o
"           =4 : local and t
"           =5 : local and v
fun! s:NetrwSplit(mode)
"  call Dfunc("s:NetrwSplit(mode=".a:mode.") alto=".g:netrw_alto." altv=".g:netrw_altv)

 call s:SaveWinVars()

 if a:mode == 0
  " remote and o
"   call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
  exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
  let s:didsplit= 1
  call s:RestoreWinVars()
  call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
  unlet s:didsplit

 elseif a:mode == 1
  " remote and t
  let newdir  = s:NetrwBrowseChgDir(0,s:NetrwGetWord())
"   call Decho("tabnew")
  tabnew
  let s:didsplit= 1
  call s:RestoreWinVars()
  call s:NetrwBrowse(0,newdir)
  unlet s:didsplit

 elseif a:mode == 2
  " remote and v
"   call Decho("exe ".(g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v")
  exe (g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v"
  let s:didsplit= 1
  call s:RestoreWinVars()
  call s:NetrwBrowse(0,s:NetrwBrowseChgDir(0,s:NetrwGetWord()))
  unlet s:didsplit

 elseif a:mode == 3
  " local and o
"   call Decho("exe ".(g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s")
  exe (g:netrw_alto? "bel " : "abo ").g:netrw_winsize."wincmd s"
  let s:didsplit= 1
  call s:RestoreWinVars()
  call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
  unlet s:didsplit

 elseif a:mode == 4
```

```
 " local and t
 let netrw_curdir= b:netrw_curdir
 let cursorword  = s:NetrwGetWord()
"   call Decho("tabnew")
 tabnew
 let b:netrw_curdir= netrw_curdir
 let s:didsplit= 1
 call s:RestoreWinVars()
 call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,cursorword))
 unlet s:didsplit

elseif a:mode == 5
 " local and v
"   call Decho("exe ".(g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v")
 exe (g:netrw_altv? "rightb " : "lefta ").g:netrw_winsize."wincmd v"
 let s:didsplit= 1
 call s:RestoreWinVars()
 call netrw#LocalBrowseCheck(s:NetrwBrowseChgDir(1,s:NetrwGetWord()))
 unlet s:didsplit

else
 call netrw#ErrorMsg(s:ERROR,"(NetrwSplit) unsupported mode=".a:mode,45)
endif

"  call Dret("s:NetrwSplit")
endfun

" ---------------------------------------------------------------------
" NetrwStatusLine: {{{2
fun! NetrwStatusLine()

" vvv NetrwStatusLine() debugging vvv
"  let g:stlmsg=""
"  if !exists("w:netrw_explore_bufnr")
"   let g:stlmsg="!X<explore_bufnr>"
"  elseif w:netrw_explore_bufnr != bufnr("%")
"   let g:stlmsg="explore_bufnr!=".bufnr("%")
"  endif
"  if !exists("w:netrw_explore_line")
"   let g:stlmsg=" !X<explore_line>"
"  elseif w:netrw_explore_line != line(".")
"   let g:stlmsg=" explore_line!={line(.)<".line(".").">"
"  endif
"  if !exists("w:netrw_explore_list")
"   let g:stlmsg=" !X<explore_list>"
"  endif
" ^^^ NetrwStatusLine() debugging ^^^
```

```
 if !exists("w:netrw_explore_bufnr") || w:netrw_explore_bufnr != bufnr("%") || !exists("w:netrw_explore_line") ||
w:netrw_explore_line != line(".") || !exists("w:netrw_explore_list")
  " restore user's status line
  let &stl        = s:netrw_users_stl
  let &laststatus = s:netrw_users_ls
  if exists("w:netrw_explore_bufnr")|unlet w:netrw_explore_bufnr|endif
  if exists("w:netrw_explore_line") |unlet w:netrw_explore_line |endif
  return ""
 else
  return "Match ".w:netrw_explore_mtchcnt." of ".w:netrw_explore_listlen
 endif
endfun

" ---------------------------------------------------------------------
" s:NetrwTreeDir: determine tree directory given current cursor position {{{2
" (full path directory with trailing slash returned)
fun! s:NetrwTreeDir()
"  call Dfunc("NetrwTreeDir() curline#".line(".")."<".getline('.')."> b:netrw_curdir<".b:netrw_curdir.">
tab#".tabpagenr()." win#".winnr()." buf#".bufnr("%")."<".bufname("%").">")

 let treedir= b:netrw_curdir
"  call Decho("set initial treedir<".treedir.">")
 let s:treecurpos= netrw#NetrwSavePosn()

 if w:netrw_liststyle == s:TREELIST
"   call Decho("w:netrrw_liststyle is TREELIST:")
"   call Decho("line#".line(".")." getline(.)<".getline('.')."> treecurpos<".string(s:treecurpos).">")
  if getline('.') =~ '/$'
   let treedir= substitute(getline('.'),'^\%(| \)*\([^|].\{-}\)$','\1','e')
  else
   let treedir= ""
  endif

"   call Decho("treedir<".treedir.">")

  " detect user attempting to close treeroot
  if getline('.') !~ '|' && getline('.') != '..'
"    call Decho("user attempted to close treeroot")
   " now force a refresh
"    call Decho("clear buffer<".expand("%")."> with :%d")
   keepjumps %d
"    call Dret("NetrwTreeDir <".treedir."> : (side effect) s:treecurpos<".string(s:treecurpos).">")
   return b:netrw_curdir
  endif

  " elide all non-depth information
  let depth = substitute(getline('.'),'^\(\%(| \)*\)[^|].\{-}$','\1','e')
"   call Decho("depth<".depth."> 1st subst")
```

```
  " elide first depth
  let depth = substitute(depth,'^| ',",")
"   call Decho("depth<".depth."> 2nd subst")

  " construct treedir by searching backwards at correct depth
"   call Decho("constructing treedir<".treedir."> depth<".depth.">")
  while depth != "" && search('^'.depth.'[^|].\{-}/$','bW')
   let dirname= substitute(getline('.'),'^\(| \)*',",'e')
   let treedir= dirname.treedir
   let depth  = substitute(depth,'^| ',",")
"    call Decho("constructing treedir<".treedir.">: dirname<".dirname."> while depth<".depth.">")
  endwhile
  if w:netrw_treetop =~ '/$'
   let treedir= w:netrw_treetop.treedir
  else
   let treedir= w:netrw_treetop.'/'.treedir
  endif
"   call Decho("bufnr(.)=".bufnr("%")." line($)=".line("$")." line(.)=".line("."))
 endif
 let treedir= substitute(treedir,'//$','/',")

"  " now force a refresh
"" call DECHO("clear buffer<".expand("%")."> with :%d")
"  setlocal ma noro
"  keepjumps %d

"  call Dret("NetrwTreeDir <".treedir."> : (side effect) s:treecurpos<".string(s:treecurpos).">")
 return treedir
endfun

" ---------------------------------------------------------------------
" s:NetrwTreeDisplay: recursive tree display {{{2
fun! s:NetrwTreeDisplay(dir,depth)
"  call Dfunc("NetrwTreeDisplay(dir<".a:dir."> depth<".a:depth.">)")

 " insure that there are no folds
 setlocal nofen

 " install ../ and shortdir
 if a:depth == ""
  call setline(line("$")+1,'../')
"   call Decho("setline#".line("$")." ../ (depth is zero)")
 endif
 if a:dir =~ '^\a\+://'
  if a:dir == w:netrw_treetop
   let shortdir= a:dir
  else
```

```
  let shortdir= substitute(a:dir,'^.*/\([^/]\+\)/$','\1/','e')
 endif
 call setline(line("$")+1,a:depth.shortdir)
else
 let shortdir= substitute(a:dir,'^.*/','','e')
 call setline(line("$")+1,a:depth.shortdir.'/')
endif
"  call Decho("setline#".line("$")." shortdir<".a:depth.shortdir.">")

" append a / to dir if its missing one
let dir= a:dir
if dir !~ '/$'
 let dir= dir.'/'
endif

" display subtrees (if any)
let depth= "| ".a:depth

"  call Decho("display subtrees with depth<".depth."> and current leaves")
for entry in w:netrw_treedict[a:dir]
 let direntry= substitute(dir.entry,'/$','','e')
"   call Decho("dir<".dir."> entry<".entry."> direntry<".direntry.">")
 if entry =~ '/$' && has_key(w:netrw_treedict,direntry)
"    call Decho("<".direntry."> is a key in treedict - display subtree for it")
  call s:NetrwTreeDisplay(direntry,depth)
 elseif entry =~ '/$' && has_key(w:netrw_treedict,direntry.'/')
"    call Decho("<".direntry."/> is a key in treedict - display subtree for it")
  call s:NetrwTreeDisplay(direntry.'/',depth)
 else
"    call Decho("<".entry."> is not a key in treedict (no subtree)")
  call setline(line("$")+1,depth.entry)
 endif
endfor
"  call Dret("NetrwTreeDisplay")
endfun

" ---------------------------------------------------------------------
" s:NetrwTreeListing: displays tree listing from treetop on down, using NetrwTreeDisplay() {{{2
fun! s:NetrwTreeListing(dirname)
 if w:netrw_liststyle == s:TREELIST
"   call Dfunc("NetrwTreeListing() bufname<".expand("%").">")
"   call Decho("curdir<".a:dirname.">")
"   call Decho("win#".winnr().": w:netrw_treetop ".(exists("w:netrw_treetop")? "exists" : "doesn't exit")."
w:netrw_treedict ".(exists("w:netrw_treedict")? "exists" : "doesn't exit"))

  " update the treetop
"   call Decho("update the treetop")
 if !exists("w:netrw_treetop")
```

```
  let w:netrw_treetop= a:dirname
"    call Decho("w:netrw_treetop<".w:netrw_treetop."> (reusing)")
  elseif (w:netrw_treetop =~ ('^'.a:dirname) && s:Strlen(a:dirname) < s:Strlen(w:netrw_treetop)) || a:dirname !~
('^'.w:netrw_treetop)
  let w:netrw_treetop= a:dirname
"    call Decho("w:netrw_treetop<".w:netrw_treetop."> (went up)")
  endif

  " insure that we have at least an empty treedict
  if !exists("w:netrw_treedict")
   let w:netrw_treedict= {}
  endif

  " update the directory listing for the current directory
"   call Decho("updating dictionary with ".a:dirname.":[..directory listing..]")
"   call Decho("bannercnt=".w:netrw_bannercnt." line($)=".line("$"))
  exe "silent! keepjumps ".w:netrw_bannercnt.',$g@^\.\.\=/$@d'
  let w:netrw_treedict[a:dirname]= getline(w:netrw_bannercnt,line("$"))
"   call Decho("w:treedict[".a:dirname."]= ".w:netrw_treedict[a:dirname])
  exe "silent! keepjumps ".w:netrw_bannercnt.",$d"

  " if past banner, record word
  if exists("w:netrw_bannercnt") && line(".") > w:netrw_bannercnt
   let fname= expand("<cword>")
  else
   let fname= ""
  endif
"   call Decho("fname<".fname.">")

  " display from treetop on down
  call s:NetrwTreeDisplay(w:netrw_treetop,"")

"   call Dret("NetrwTreeListing : bufname<".expand("%").">")
 endif
endfun

" ---------------------------------------------------------------------
" s:NetrwWideListing: {{{2
fun! s:NetrwWideListing()

 if w:netrw_liststyle == s:WIDELIST
"   call Dfunc("NetrwWideListing() w:netrw_liststyle=".w:netrw_liststyle.' fo='.&fo.' l:fo='.&l:fo)
  " look for longest filename (cpf=characters per filename)
  " cpf: characters per file
  " fpl: files per line
  " fpc: files per column
  setlocal ma noro
"   call Decho("setlocal ma noro")
```

```
 let b:netrw_cpf= 0
 if line("$") >= w:netrw_bannercnt
  exe 'silent keepjumps '.w:netrw_bannercnt.',$g/^./if virtcol("$") > b:netrw_cpf|let b:netrw_cpf= virtcol("$")|endif'
 else
"    call Dret("NetrwWideListing")
  return
 endif
"   call Decho("max file strlen+1=".b:netrw_cpf)
 let b:netrw_cpf= b:netrw_cpf + 1

 " determine qty files per line (fpl)
 let w:netrw_fpl= winwidth(0)/b:netrw_cpf
 if w:netrw_fpl <= 0
  let w:netrw_fpl= 1
 endif
"   call Decho("fpl= ".winwidth(0)."/[b:netrw_cpf=".b:netrw_cpf.']='.w:netrw_fpl)

 " make wide display
 exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^.*$/\=escape(printf("%-'.b:netrw_cpf.'s",submatch(0)),"\\")/'
 let fpc         = (line("$") - w:netrw_bannercnt + w:netrw_fpl)/w:netrw_fpl
 let newcolstart = w:netrw_bannercnt + fpc
 let newcolend   = newcolstart + fpc - 1
"   call Decho("bannercnt=".w:netrw_bannercnt." fpl=".w:netrw_fpl." fpc=".fpc."
newcol[".newcolstart.",".newcolend."]")
 silent! let keepregstar = @*
 while line("$") >= newcolstart
  if newcolend > line("$") | let newcolend= line("$") | endif
  let newcolqty= newcolend - newcolstart
  exe newcolstart
  if newcolqty == 0
   exe "silent keepjumps norm! 0\<c-v>$hx".w:netrw_bannercnt."G$p"
  else
   exe "silent keepjumps norm! 0\<c-v>".newcolqty.'j$hx'.w:netrw_bannercnt.'G$p'
  endif
  exe "silent keepjumps ".newcolstart.','.newcolend.'d'
  exe 'silent keepjumps '.w:netrw_bannercnt
 endwhile
 silent! let @*= keepregstar
 exe "silent keepjumps ".w:netrw_bannercnt.',$s/\s\+$//e'
 setlocal noma nomod ro
"   call Dret("NetrwWideListing")
endif

endfun

" ---------------------------------------------------------------------
" s:PerformListing: {{{2
fun! s:PerformListing(islocal)
```

```
"  call Dfunc("s:PerformListing(islocal=".a:islocal.") buf(%)=".bufnr("%")."<".bufname("%").">")

 call s:NetrwSafeOptions()
 setlocal noro ma
"  call Decho("setlocal noro ma")

"  if exists("g:netrw_silent") && g:netrw_silent == 0 && &ch >= 1 " Decho
"   call Decho("(netrw) Processing your browsing request...")
"  endif        " Decho

"  call Decho('w:netrw_liststyle='.(exists("w:netrw_liststyle")? w:netrw_liststyle : 'n/a'))
 if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST && exists("w:netrw_treedict")
  " force a refresh for tree listings
"   call Decho("force refresh for treelisting: clear buffer<".expand("%").."> with :%d")
  keepjumps %d
 endif

 " save current directory on directory history list
 call s:NetrwBookHistHandler(3,b:netrw_curdir)

 " Set up the banner {{{3
"  call Decho("set up banner")
 keepjumps put =\"
" ==============================================================================='
 keepjumps put =\" Netrw Directory Listing                                    (netrw '.g:loaded_netrw.')'
 keepjumps put =\"   '.b:netrw_curdir
 keepjumps 1d
 let w:netrw_bannercnt= 3
 exe "keepjumps ".w:netrw_bannercnt

 let sortby= g:netrw_sort_by
 if g:netrw_sort_direction =~ "^r"
  let sortby= sortby." reversed"
 endif

 " Sorted by... {{{3
"  call Decho("handle specified sorting: g:netrw_sort_by<".g:netrw_sort_by.">")
 if g:netrw_sort_by =~ "^n"
"   call Decho("directories will be sorted by name")
  " sorted by name
  keepjumps put =\"   Sorted by      '.sortby
  keepjumps put =\"   Sort sequence: '.g:netrw_sort_sequence
  let w:netrw_bannercnt= w:netrw_bannercnt + 2
 else
"   call Decho("directories will be sorted by size or time")
  " sorted by size or date
  keepjumps put =\"   Sorted by '.sortby
  let w:netrw_bannercnt= w:netrw_bannercnt + 1
```

```
 endif
 exe "keepjumps ".w:netrw_bannercnt

 " show copy/move target, if any
 if exists("s:netrwmftgt") && exists("s:netrwmftgt_islocal")
"   call Decho("show copy/move target<".s:netrwmftgt.">")
  keepjumps put ="
  if s:netrwmftgt_islocal
   call setline(line("."),'"   Copy/Move Tgt: '.s:netrwmftgt.' (local)')
  else
   call setline(line("."),'"   Copy/Move Tgt: '.s:netrwmftgt.' (remote)')
  endif
  let w:netrw_bannercnt= w:netrw_bannercnt + 1
 else
"   call Decho("s:netrwmftgt does not exist, don't make Copy/Move Tgt")
 endif
 exe "keepjumps ".w:netrw_bannercnt

 " Hiding...  -or-  Showing... {{{3
"  call Decho("handle hiding/showing (g:netrw_hide=".g:netrw_list_hide."
g:netrw_list_hide<".g:netrw_list_hide.">)")
 if g:netrw_list_hide != "" && g:netrw_hide
  if g:netrw_hide == 1
   keepjumps put ='\"   Hiding:        '.g:netrw_list_hide
  else
   keepjumps put ='\"   Showing:       '.g:netrw_list_hide
  endif
  let w:netrw_bannercnt= w:netrw_bannercnt + 1
 endif
 exe "keepjumps ".w:netrw_bannercnt
 keepjumps put ='\"   Quick Help: <F1>:help  -:go up dir  D:delete  R:rename  s:sort-by  x:exec'
 keepjumps put ='\"
==========================================================================='
 let w:netrw_bannercnt= w:netrw_bannercnt + 2

 " bannercnt should index the line just after the banner
 let w:netrw_bannercnt= w:netrw_bannercnt + 1
 exe "keepjumps ".w:netrw_bannercnt
"  call Decho("bannercnt=".w:netrw_bannercnt." (should index line just after banner) line($)=".line("$"))

 " set up syntax highlighting {{{3
"  call Decho("set up syntax highlighting")
 if has("syntax")
  setlocal ft=netrw
  if !exists("g:syntax_on") || !g:syntax_on
   setlocal ft=
  endif
 endif
```

```
 " get list of files
"  call Decho("Get list of files - islocal=".a:islocal)
 if a:islocal
  call s:LocalListing()
 else " remote
  call s:NetrwRemoteListing()
 endif
"  call Decho("w:netrw_bannercnt=".w:netrw_bannercnt." (banner complete)")

 " manipulate the directory listing (hide, sort) {{{3
 if line("$") >= w:netrw_bannercnt
"   call Decho("manipulate directory listing (hide)")
"   call Decho("g:netrw_hide=".g:netrw_hide." g:netrw_list_hide<".g:netrw_list_hide.">")
  if g:netrw_hide && g:netrw_list_hide != ""
   call s:NetrwListHide()
  endif
  if line("$") >= w:netrw_bannercnt
"    call Decho("manipulate directory listing (sort) : g:netrw_sort_by<".g:netrw_sort_by.">")

   if g:netrw_sort_by =~ "^n"
    " sort by name
    call s:NetrwSetSort()

    if w:netrw_bannercnt < line("$")
"     call Decho("g:netrw_sort_direction=".g:netrw_sort_direction." (bannercnt=".w:netrw_bannercnt.")")
     if g:netrw_sort_direction =~ 'n'
      " normal direction sorting
      exe 'silent keepjumps '.w:netrw_bannercnt.',$sort.' '.g:netrw_sort_options
     else
      " reverse direction sorting
      exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!.' '.g:netrw_sort_options
     endif
    endif
    " remove priority pattern prefix
"    call Decho("remove priority pattern prefix")
    let sepchr= "\<Char-0xff>"
    exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\d\{3}'.sepchr.'//'

   elseif a:islocal
    if w:netrw_bannercnt < line("$")
"     call Decho("g:netrw_sort_direction=".g:netrw_sort_direction)
     if g:netrw_sort_direction =~ 'n'
"      call Decho('exe silent keepjumps '.w:netrw_bannercnt.',$sort')
      exe 'silent keepjumps '.w:netrw_bannercnt.',$sort.' '.g:netrw_sort_options
     else
"      call Decho('exe silent keepjumps '.w:netrw_bannercnt.',$sort!')
      exe 'silent keepjumps '.w:netrw_bannercnt.',$sort!.' '.g:netrw_sort_options
```

```
    endif
   endif
   exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\d\{-}\///e'
  endif

 elseif g:netrw_sort_direction =~ 'r'
"    call Decho('reverse the sorted listing')
  exe 'silent keepjumps '.w:netrw_bannercnt.'g/^/m '.w:netrw_bannercnt
 endif
endif

" convert to wide/tree listing {{{3
"  call Decho("modify display if wide/tree listing style")
call s:NetrwWideListing()
call s:NetrwTreeListing(b:netrw_curdir)

if exists("w:netrw_bannercnt") && line("$") > w:netrw_bannercnt
 " place cursor on the top-left corner of the file listing
"   call Decho("place cursor on top-left corner of file listing")
 exe 'silent keepjumps '.w:netrw_bannercnt
 norm! 0
endif

" record previous current directory
let w:netrw_prvdir= b:netrw_curdir
"  call Decho("record netrw_prvdir<".w:netrw_prvdir.">")

" save certain window-oriented variables into buffer-oriented variables {{{3
call s:SetBufWinVars()
call s:NetrwOptionRestore("w:")

" set display to netrw display settings
"  call Decho("set display to netrw display settings (noma nomod etc)")
setlocal noma nomod nonu nobl nowrap ro
if exists("s:treecurpos")

 call netrw#NetrwRestorePosn(s:treecurpos)
 unlet s:treecurpos
endif

"  call Dret("s:PerformListing : curpos<".string(getpos(".")).">")
endfun

" ---------------------------------------------------------------------
" s:SetupNetrwStatusLine: {{{2
fun! s:SetupNetrwStatusLine(statline)
"  call Dfunc("SetupNetrwStatusLine(statline<".a:statline.">)")
```

```
 if !exists("s:netrw_setup_statline")
  let s:netrw_setup_statline= 1
"   call Decho("do first-time status line setup")

  if !exists("s:netrw_users_stl")
   let s:netrw_users_stl= &stl
  endif
  if !exists("s:netrw_users_ls")
   let s:netrw_users_ls= &laststatus
  endif

  " set up User9 highlighting as needed
  let keepa= @a
  redir @a
  try
   hi User9
  catch /^Vim\%((\a\+)\)\=:E411/
   if &bg == "dark"
    hi User9 ctermfg=yellow ctermbg=blue guifg=yellow guibg=blue
   else
    hi User9 ctermbg=yellow ctermfg=blue guibg=yellow guifg=blue
   endif
  endtry
  redir END
  let @a= keepa
 endif

 " set up status line (may use User9 highlighting)
 " insure that windows have a statusline
 " make sure statusline is displayed
 let &stl=a:statline
 setlocal laststatus=2
"  call Decho("stl=".&stl)
 redraw

"  call Dret("SetupNetrwStatusLine : stl=".&stl)
endfun

" ---------------------------------------------------------------------
"  Remote Directory Browsing Support:    {{{1
" ===============================================

" ---------------------------------------------------------------------
" s:NetrwRemoteListing: {{{2
fun! s:NetrwRemoteListing()
"  call Dfunc("s:NetrwRemoteListing() b:netrw_curdir<".b:netrw_curdir.">)")

 call s:RemotePathAnalysis(b:netrw_curdir)
```

```
 " sanity check:
 if exists("b:netrw_method") && b:netrw_method =~ '[235]'
"   call Decho("b:netrw_method=".b:netrw_method)
  if !executable("ftp")
   if !exists("g:netrw_quiet")
    call netrw#ErrorMsg(s:ERROR,"this system doesn't support remote directory listing via ftp",18)
   endif
   call s:NetrwOptionRestore("w:")
"    call Dret("s:NetrwRemoteListing")
   return
  endif

 elseif !exists("g:netrw_list_cmd") || g:netrw_list_cmd == ''
  if !exists("g:netrw_quiet")
   if g:netrw_list_cmd == ""
    call netrw#ErrorMsg(s:ERROR,g:netrw_ssh_cmd." is not executable on your system",47)
   else
    call netrw#ErrorMsg(s:ERROR,"this system doesn't support remote directory listing via ".g:netrw_list_cmd,19)
   endif
  endif

  call s:NetrwOptionRestore("w:")
"   call Dret("s:NetrwRemoteListing")
  return
 endif  " (remote handling sanity check)

 if exists("b:netrw_method")
"   call Decho("setting w:netrw_method<".b:netrw_method.">")
  let w:netrw_method= b:netrw_method
 endif

 if s:method == "ftp"
  " use ftp to get remote file listing
"   call Decho("use ftp to get remote file listing")
  let s:method  = "ftp"
  let listcmd = g:netrw_ftp_list_cmd
  if g:netrw_sort_by =~ '^t'
   let listcmd= g:netrw_ftp_timelist_cmd
  elseif g:netrw_sort_by =~ '^s'
   let listcmd= g:netrw_ftp_sizelist_cmd
  endif
"   call Decho("listcmd<".listcmd."> (using g:netrw_ftp_list_cmd)")
  call s:NetrwRemoteFtpCmd(s:path,listcmd)
"   exe "keepjumps ".w:netrw_bannercnt.',$g/^./call Decho("raw listing: ".getline("."))'

  if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:WIDELIST || w:netrw_liststyle == s:TREELIST
   " shorten the listing
```

```
"    call Decho("generate short listing")
   exe "keepjumps ".w:netrw_bannercnt

   " cleanup
   if g:netrw_ftp_browse_reject != ""
    exe "silent! g/".g:netrw_ftp_browse_reject."/keepjumps d"
   endif
   silent! keepjumps %s/\r$//e

   " if there's no ../ listed, then put ./ and ../ in
   let line1= line(".")
   exe "keepjumps ".w:netrw_bannercnt
   let line2= search('^\.\.\/\%(\s\|$\)','cnW')
   if line2 == 0
"     call Decho("netrw is putting ./ and ../ into listing")
    keepjumps put='../'
    keepjumps put='./'
   endif
   exe "keepjumps ".line1
   keepjumps norm! 0

"    call Decho("line1=".line1." line2=".line2." line(.)=".line("."))
   if search('^\d\{2}-\d\{2}-\d\{2}\s','n') " M$ ftp site cleanup
"     call Decho("M$ ftp cleanup")
    exe 'silent! keepjumps '.w:netrw_bannercnt.',$s/^\d\{2}-\d\{2}-
\d\{2}\s\+\d\+:\d\+[AaPp][Mm]\s\+\%(<DIR>\|\d\+\)\s\+//'
   else " normal ftp cleanup
"     call Decho("normal ftp cleanup")
    exe 'silent! keepjumps '.w:netrw_bannercnt.',$s/^\(\%(\S\+\s\+\)\{7}\S\+\)\s\+\(\S.*\)$/\2/e'
    exe "silent! keepjumps ".w:netrw_bannercnt.',$g/ -> /s# -> .*/$#/#e'
    exe "silent! keepjumps ".w:netrw_bannercnt.',$g/ -> /s# -> .*$#/#e'
   endif
  endif

 else
  " use ssh to get remote file listing {{{3
"   call Decho("use ssh to get remote file listing: s:path<".s:path.">")
  let listcmd= s:MakeSshCmd(g:netrw_list_cmd)
"   call Decho("listcmd<".listcmd."> (using g:netrw_list_cmd)")
  if g:netrw_scp_cmd =~ '^pscp'
"    call Decho("1: exe silent r! ".shellescape(listcmd.s:path, 1))
   exe "silent r! ".listcmd.shellescape(s:path, 1)
   " remove rubbish and adjust listing format of 'pscp' to 'ssh ls -FLa' like
   g/^Listing directory/d
   g/^d[-rwx][-rwx][-rwx]/s+$+/+e
   silent g/^l[-rwx][-rwx][-rwx]/s+$+@+e
   if g:netrw_liststyle != s:LONGLIST
    g/^[dlsp-][-rwx][-rwx][-rwx]/s/^.*\s\(\S\+\)$/\1/e
```

```
   endif
  else
   if s:path == ""
"     call Decho("2: exe silent r! ".listcmd)
    exe "silent r! ".listcmd
   else
"     call Decho("3: exe silent r! ".listcmd.' '.shellescape(s:path,1))
    exe "silent r! ".listcmd.' '.shellescape(s:path,1)
"     call Decho("listcmd<".listcmd."> path<".s:path.">")
   endif
  endif

  " cleanup
  if g:netrw_ftp_browse_reject != ""
"    call Decho("(cleanup) exe silent! g/".g:netrw_ssh_browse_reject."/keepjumps d")
   exe "silent! g/".g:netrw_ssh_browse_reject."/keepjumps d"
  endif
 endif

 if w:netrw_liststyle == s:LONGLIST
  " do a long listing; these substitutions need to be done prior to sorting {{{3
"   call Decho("fix long listing:")

  if s:method == "ftp"
   " cleanup
   exe "keepjumps ".w:netrw_bannercnt
   while getline('.') =~ g:netrw_ftp_browse_reject
    keepjumps d
   endwhile
   " if there's no ../ listed, then put ./ and ../ in
   let line1= line(".")
   keepjumps 1
   silent keepjumps call search('^\.\.\/\%(\s\|$\)','W')
   let line2= line(".")
   if line2 == 0
    exe 'keepjumps '.w:netrw_bannercnt."put='./'"
    if b:netrw_curdir != '/'
     exe 'keepjumps '.w:netrw_bannercnt."put='../'"
    endif
   endif
  exe "keepjumps ".line1
  keepjumps norm! 0
  endif

  if search('^\d\{2}-\d\{2}-\d\{2}\s','n') " M$ ftp site cleanup
"    call Decho("M$ ftp site listing cleanup")
   exe 'silent! keepjumps '.w:netrw_bannercnt.',$s/^\(\d\{2}-\d\{2}-
\d\{2}\s\+\d\+:\d\+[AaPp][Mm]\s\+\%(<DIR>\|\d\+\)\s\+\)\(\w.*\)$/\2\t\1/'
```

```
 elseif exists("w:netrw_bannercnt") && w:netrw_bannercnt <= line("$")
"    call Decho("normal ftp site listing cleanup: bannercnt=".w:netrw_bannercnt." line($)=".line("$"))
  exe 'silent keepjumps '.w:netrw_bannercnt.',$s/ -> .*$//e'
  exe 'silent keepjumps '.w:netrw_bannercnt.',$s/^\(\%(\S\+\s\+\)\{7}\S\+\)\s\+\(\S.*\)$/\2\t\1/e'
  exe 'silent keepjumps '.w:netrw_bannercnt
 endif
endif

"  if exists("w:netrw_bannercnt") && w:netrw_bannercnt <= line("$") " Decho
"   exe "keepjumps ".w:netrw_bannercnt.',$g/^./call Decho("listing: ".getline("."))'
"  endif " Decho
"  call Dret("s:NetrwRemoteListing")
endfun

" ---------------------------------------------------------------------
" s:NetrwRemoteRm: remove/delete a remote file or directory {{{2
fun! s:NetrwRemoteRm(usrhost,path) range
"  call Dfunc("s:NetrwRemoteRm(usrhost<".a:usrhost."> path<".a:path.">) virtcol=".virtcol("."))
"  call Decho("firstline=".a:firstline." lastline=".a:lastline)
 let svpos= netrw#NetrwSavePosn()

 let all= 0
 if exists("s:netrwmarkfilelist_{bufnr('%')}")
  " remove all marked files
"   call Decho("remove all marked files with bufnr#".bufnr("%"))
  for fname in s:netrwmarkfilelist_{bufnr("%")}
   let ok= s:NetrwRemoteRmFile(a:path,fname,all)
   if ok =~ 'q\%[uit]'
    break
   elseif ok =~ 'a\%[ll]'
    let all= 1
   endif
  endfor
  call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)

 else
  " remove files specified by range
"   call Decho("remove files specified by range")

  " preparation for removing multiple files/directories
  let ctr= a:firstline

  " remove multiple files and directories
  while ctr <= a:lastline
   exe ctr
   let ok= s:NetrwRemoteRmFile(a:path,s:NetrwGetWord(),all)
   if ok =~ 'q\%[uit]'
    break
```

```
  elseif ok =~ 'a\%[ll]'
   let all= 1
  endif
  let ctr= ctr + 1
 endwhile
endif

 " refresh the (remote) directory listing
"  call Decho("refresh remote directory listing")
 call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'./'))
 call netrw#NetrwRestorePosn(svpos)

"  call Dret("s:NetrwRemoteRm")
endfun

" ---------------------------------------------------------------------
" s:NetrwRemoteRmFile: {{{2
fun! s:NetrwRemoteRmFile(path,rmfile,all)
"  call Dfunc("s:NetrwRemoteRmFile(path<".a:path."> rmfile<".a:rmfile.">) all=".a:all)

 let all= a:all
 let ok = ""

 if a:rmfile !~ '^"' && (a:rmfile =~ '@$' || a:rmfile !~ '[\/]$')
  " attempt to remove file
"    call Decho("attempt to remove file (all=".all.")")
  if !all
   echohl Statement
"    call Decho("case all=0:")
   call inputsave()
   let ok= input("Confirm deletion of file<".a:rmfile."> ","[{y(es)},n(o),a(ll),q(uit)] ")
   call inputrestore()
   echohl NONE
   if ok == ""
    let ok="no"
   endif
   let ok= substitute(ok,'\[{y(es)},n(o),a(ll),q(uit)]\s*','','e')
   if ok =~ 'a\%[ll]'
    let all= 1
   endif
  endif

  if all || ok =~ 'y\%[es]' || ok == ""
"    call Decho("case all=".all." or ok<".ok.">".(exists("w:netrw_method")? ': netrw_method='.w:netrw_method :
"""))
   if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
"     call Decho("case ftp:")
    let path= a:path
```

```
   if path =~ '^\a\+://'
    let path= substitute(path,'^\a\+://[^/]\+/',",")
   endif
   silent! keepjumps .,$d
   call s:NetrwRemoteFtpCmd(path,"delete ".'"'.a:rmfile.'"')
  else
"    call Decho("case ssh: g:netrw_rm_cmd<".g:netrw_rm_cmd.">")
   let netrw_rm_cmd= s:MakeSshCmd(g:netrw_rm_cmd)
"    call Decho("netrw_rm_cmd<".netrw_rm_cmd.">")
   if !exists("b:netrw_curdir")
    call netrw#ErrorMsg(s:ERROR,"for some reason b:netrw_curdir doesn't exist!",53)
    let ok="q"
   else
    let remotedir= substitute(b:netrw_curdir,'^.*//[^/]\+/\(.*\)$','\1',")
"     call Decho("netrw_rm_cmd<".netrw_rm_cmd.">")
"     call Decho("remotedir<".remotedir.">")
"     call Decho("rmfile<".a:rmfile.">")
    if remotedir != ""
     let netrw_rm_cmd= netrw_rm_cmd." ".shellescape(fnameescape(remotedir.a:rmfile))
    else
     let netrw_rm_cmd= netrw_rm_cmd." ".shellescape(fnameescape(a:rmfile))
    endif
"     call Decho("call system(".netrw_rm_cmd.")")
    let ret= system(netrw_rm_cmd)
    if ret != 0
     call netrw#ErrorMsg(s:WARNING,"cmd<".netrw_rm_cmd."> failed",60)
    endif
"     call Decho("returned=".ret." errcode=".v:shell_error)
   endif
  endif
 elseif ok =~ 'q\%[uit]'
"   call Decho("ok==".ok)
  break
 endif

 else
  " attempt to remove directory
"   call Decho("attempt to remove directory")
 if !all
  call inputsave()
  let ok= input("Confirm deletion of directory<".a:rmfile."> ","[{y(es)},n(o),a(ll),q(uit)] ")
  call inputrestore()
  if ok == ""
   let ok="no"
  endif
  let ok= substitute(ok,'\[{y(es)},n(o),a(ll),q(uit)]\s*','','e')
  if ok =~ 'a\%[ll]'
   let all= 1
```

```
   endif
  endif

  if all || ok =~ 'y\%[es]' || ok == ""
   if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
    call s:NetrwRemoteFtpCmd(a:path,"rmdir ".a:rmfile)
   else
    let rmfile          = substitute(a:path.a:rmfile,'/$',",")
    let netrw_rmdir_cmd = s:MakeSshCmd(s:WinPath(g:netrw_rmdir_cmd)).' '.shellescape(s:WinPath(rmfile))
"     call Decho("attempt to remove dir: system(".netrw_rmdir_cmd.")")
    let ret= system(netrw_rmdir_cmd)
"     call Decho("returned=".ret." errcode=".v:shell_error)

    if v:shell_error != 0
"     call Decho("v:shell_error not 0")
     let netrw_rmf_cmd= s:MakeSshCmd(s:WinPath(g:netrw_rmf_cmd)).'
'.shellescape(s:WinPath(substitute(rmfile,'[\/]$',",'e')))
"     call Decho("2nd attempt to remove dir: system(".netrw_rmf_cmd.")")
     let ret= system(netrw_rmf_cmd)
"     call Decho("returned=".ret." errcode=".v:shell_error)

     if v:shell_error != 0 && !exists("g:netrw_quiet")
      call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",22)
     endif
    endif
   endif

  elseif ok =~ 'q\%[uit]'
   break
  endif
 endif

"  call Dret("s:NetrwRemoteRmFile ".ok)
 return ok
endfun

" ---------------------------------------------------------------------
" s:NetrwRemoteFtpCmd: unfortunately, not all ftp servers honor options for ls {{{2
"  This function assumes that a long listing will be received.  Size, time,
"  and reverse sorts will be requested of the server but not otherwise
"  enforced here.
fun! s:NetrwRemoteFtpCmd(path,listcmd)
"  call Dfunc("NetrwRemoteFtpCmd(path<".a:path."> listcmd<".a:listcmd.">) netrw_method=".w:netrw_method)
"  call Decho("line($)=".line("$")." bannercnt=".w:netrw_bannercnt)

 " because WinXX ftp uses unix style input
 let ffkeep= &ff
 setlocal ma ff=unix noro
```

```
"  call Decho("setlocal ma ff=unix noro")

 " clear off any older non-banner lines
 " note that w:netrw_bannercnt indexes the line after the banner
"  call Decho('exe silent! keepjumps '.w:netrw_bannercnt.",$d  (clear off old non-banner lines)")
 exe "silent! keepjumps ".w:netrw_bannercnt.",$d"

 "......................................
 if w:netrw_method == 2 || w:netrw_method == 5
  " ftp + <.netrc>:  Method #2
  if a:path != ""
   put ='cd \"'.a:path.'\"'
  endif
  if exists("g:netrw_ftpextracmd")
   put =g:netrw_ftpextracmd
"    call Decho("filter input: ".getline('.'))
  endif
  call setline(line("$")+1,a:listcmd)
"   exe "keepjumps ".w:netrw_bannercnt.',$g/^./call Decho("ftp#".line(".").": ".getline("."))'
  if exists("g:netrw_port") && g:netrw_port != ""
"    call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)." ".shellescape(g:netrw_port,1))
   exe s:netrw_silentxfer." keepjumps ".w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)." ".shellescape(g:netrw_port,1)
  else
"    call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1))
   exe s:netrw_silentxfer." keepjumps ".w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i
".shellescape(g:netrw_machine,1)
  endif

  "......................................
 elseif w:netrw_method == 3
  " ftp + machine,id,passwd,filename:  Method #3
   setlocal ff=unix
   if exists("g:netrw_port") && g:netrw_port != ""
    put ='open '.g:netrw_machine.' '.g:netrw_port
   else
    put ='open '.g:netrw_machine
   endif

   if exists("g:netrw_ftp") && g:netrw_ftp == 1
    put =g:netrw_uid
    put ='\"'.s:netrw_passwd.'\"'
   else
    put ='user \"'.g:netrw_uid.'\" \"'.s:netrw_passwd.'\"'
   endif
```

```
 if a:path != ""
  put ='cd \"'.a:path.'\"'
 endif
 if exists("g:netrw_ftpextracmd")
  put =g:netrw_ftpextracmd
"    call Decho("filter input: ".getline('.'))
 endif
 call setline(line("$")+1,a:listcmd)

  " perform ftp:
  " -i       : turns off interactive prompting from ftp
  " -n  unix : DON'T use <.netrc>, even though it exists
  " -n  win32: quit being obnoxious about password
"    exe w:netrw_bannercnt.',$g/^./call Decho("ftp#".line(".").": ".getline("."))'
"    call Decho("exe ".s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i -n")
  exe s:netrw_silentxfer.w:netrw_bannercnt.",$!".g:netrw_ftp_cmd." -i -n"

 "........................................
else
 call netrw#ErrorMsg(s:WARNING,"unable to comply with your request<" . choice . ">",23)
endif

" cleanup for Windows
if has("win32") || has("win95") || has("win64") || has("win16")
 silent! keepjumps %s/\r$//e
endif
if a:listcmd == "dir"
 " infer directory/link based on the file permission string
 silent! keepjumps g/d\%([-r][-w][-x]\)\{3}/s@$@/@
 silent! keepjumps g/l\%([-r][-w][-x]\)\{3}/s/$/@/
 if w:netrw_liststyle == s:THINLIST || w:netrw_liststyle == s:WIDELIST || w:netrw_liststyle == s:TREELIST
  exe "silent! keepjumps ".w:netrw_bannercnt.',$s/^\%(\S\+\s\+\)\{8}//e'
 endif
endif

" ftp's listing doesn't seem to include ./ or ../
if !search('^\.\/$\|\s\.\/$','wn')
 exe 'keepjumps '.w:netrw_bannercnt
 put ='./'
endif
if !search('^\.\.\/$\|\s\.\.\/$','wn')
 exe 'keepjumps '.w:netrw_bannercnt
 put ='../'
endif

" restore settings
let &ff= ffkeep
"  call Dret("NetrwRemoteFtpCmd")
```

```
endfun

" ---------------------------------------------------------------------
" s:NetrwRemoteRename: rename a remote file or directory {{{2
fun! s:NetrwRemoteRename(usrhost,path) range
"  call Dfunc("NetrwRemoteRename(usrhost<".a:usrhost."> path<".a:path.">)")

 " preparation for removing multiple files/directories
 let svpos      = netrw#NetrwSavePosn()
 let ctr        = a:firstline
 let rename_cmd = s:MakeSshCmd(g:netrw_rename_cmd)

 " rename files given by the markfilelist
 if exists("s:netrwmarkfilelist_{bufnr('%')}")
  for oldname in s:netrwmarkfilelist_{bufnr("%")}
"    call Decho("oldname<".oldname.">")
   if exists("subfrom")
    let newname= substitute(oldname,subfrom,subto,")
"     call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
   else
    call inputsave()
    let newname= input("Moving ".oldname." to : ",oldname)
    call inputrestore()
    if newname =~ '^s/'
     let subfrom = substitute(newname,'^s/\([^/]*\)/.*/$','\1',")
     let subto   = substitute(newname,'^s/[^/]*/\(.*\)/$','\1',")
     let newname = substitute(oldname,subfrom,subto,")
"      call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
    endif
   endif

   if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
    call s:NetrwRemoteFtpCmd(a:path,"rename ".oldname." ".newname)
   else
    let oldname= shellescape(a:path.oldname)
    let newname= shellescape(a:path.newname)
"     call Decho("system(s:WinPath(".rename_cmd.") ".oldname.' '.newname.")")
    let ret    = system(s:WinPath(rename_cmd).' '.oldname.' '.newname)
   endif

  endfor
  call s:NetrwUnMarkFile(1)

 else

  " attempt to rename files/directories
  while ctr <= a:lastline
   exe "keepjumps ".ctr
```

```
  let oldname= s:NetrwGetWord()
"   call Decho("oldname<".oldname.">")

  call inputsave()
  let newname= input("Moving ".oldname." to : ",oldname)
  call inputrestore()

  if exists("w:netrw_method") && (w:netrw_method == 2 || w:netrw_method == 3)
   call s:NetrwRemoteFtpCmd(a:path,"rename ".oldname." ".newname)
  else
   let oldname= shellescape(a:path.oldname)
   let newname= shellescape(a:path.newname)
"    call Decho("system(s:WinPath(".rename_cmd.") ".oldname.' '.newname.")")
   let ret    = system(s:WinPath(rename_cmd).' '.oldname.' '.newname)
  endif

  let ctr= ctr + 1
 endwhile
endif

" refresh the directory
call s:NetrwRefresh(0,s:NetrwBrowseChgDir(0,'./'))
call netrw#NetrwRestorePosn(svpos)

"  call Dret("NetrwRemoteRename")
endfun

" ---------------------------------------------------------------------
"  Local Directory Browsing Support:    {{{1
" ==========================================

" ---------------------------------------------------------------------
" netrw#LocalBrowseCheck: {{{2
fun! netrw#LocalBrowseCheck(dirname)
 " unfortunate interaction -- split window debugging can't be
 " used here, must use D-echoRemOn or D-echoTabOn -- the BufEnter
 " event triggers another call to LocalBrowseCheck() when attempts
 " to write to the DBG buffer are made.
 " The &ft == "netrw" test was installed because the BufEnter event
 " would hit when re-entering netrw windows, creating unexpected
 " refreshes (and would do so in the middle of NetrwSaveOptions(), too)
"  call Decho("netrw#LocalBrowseCheck: isdir<".a:dirname.">=".isdirectory(a:dirname))
 if isdirectory(a:dirname)
"   call Decho(" ft<".&ft."> b:netrw_curdir<".(exists("b:netrw_curdir")? b:netrw_curdir : " doesn't exist").">
dirname<".a:dirname.">"." line($)=".line("$"))
  if &ft != "netrw" || (exists("b:netrw_curdir") && b:netrw_curdir != a:dirname)
   silent! call s:NetrwBrowse(1,a:dirname)
```

```
 elseif &ft == "netrw" && line("$") == 1
  silent! call s:NetrwBrowse(1,a:dirname)
 endif
endif
 " not a directory, ignore it
endfun

" ----------------------------------------------------------------------
"  s:LocalListing: does the job of "ls" for local directories {{{2
fun! s:LocalListing()
"  call Dfunc("s:LocalListing()")
"  call Decho("&ma=".&ma)
"  call Decho("&mod=".&mod)
"  call Decho("&ro=".&ro)
"  call Decho("bufname(%)<".bufname("%").">")

"  if exists("b:netrw_curdir") |call Decho('b:netrw_curdir<'.b:netrw_curdir.">")  |else|call Decho("b:netrw_curdir doesn't exist") |endif
"  if exists("g:netrw_sort_by")|call Decho('g:netrw_sort_by<'.g:netrw_sort_by.">")|else|call Decho("g:netrw_sort_by doesn't exist")|endif

 " get the list of files contained in the current directory
 let dirname    = escape(b:netrw_curdir,g:netrw_glob_escape)
 if dirname =~ '\.\.'
  let dirname = substitute(dirname,'[^/]*/\.\.',','g')
 endif
 if dirname == ''
  let dirname = '/'
 endif
 let dirnamelen = strlen(dirname)
 let filelist   = glob(s:ComposePath(dirname,"*"))
"  call Decho("glob(dirname<".dirname."/*>)=".filelist)
 if filelist != ""
  let filelist= filelist."\n"
 endif
 let filelist= filelist.glob(s:ComposePath(dirname,".*"))
"  call Decho("glob(dirname<".dirname."/.*>)=".filelist)

 " Coding choice: either   elide   ./ if present
 "               or       include ./ if not present
 if filelist =~ '[\/]\.[\/]\=\(\n\|$\)'
  " elide /path/. from glob() entries if present
"   call Decho("elide /path/. from glob entries if present")
  let filelist = substitute(filelist,'\n','\t','g')
  let filelist = substitute(filelist,'^[^\t]\+[/\\]\.\t','','')
  let filelist = substitute(filelist,'[^\t]\+[/\\]\.$','','')
  let filelist = substitute(filelist,'\t\zs[^\t]\+[/\\]\.\t','','')
  let filelist = substitute(filelist,'\t','\n','g')
```

```
 endif
"  call Decho("filelist<".filelist.">")
 if filelist !~ '[\\/]\.\.[\\/]\=\(\n\|$\)'
   " include ../ in the glob() entry if its missing
"   call Decho("forcibly tacking on ..")
  let filelist= filelist."\n".s:ComposePath(dirname,"../")
"   call Decho("filelist<".filelist.">")
 endif
 if dirname == '/'
  " remove .. from filelist when current directory is root directory
"   call Decho("remove .. from filelist")
  let filelist= substitute(filelist,'\(^\|\n\)\.\.\n','','')
 endif
 " remove multiple contiguous newlines
 let filelist= substitute(filelist,'\n\{2,}','\n','ge')
 if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
  " change all \s to /s
"   call Decho('change all \s to /s')
  let filelist= substitute(filelist,'\','/','g')
 else
  " escape all \s to \\
"   call Decho('escape all \s to \\')
  let filelist= substitute(filelist,'\','\\','g')
 endif

"  call Decho("(before while) dirname<".dirname.">")
"  call Decho("(before while) dirnamelen<".dirnamelen.">")
"  call Decho("(before while) filelist<".filelist.">")

 while filelist != ""
  if filelist =~ '\n'
   let filename = substitute(filelist,'\n.*$','','e')
   let filelist = substitute(filelist,'^.\{-}\n\(.*\)$','\1','e')
  else
   let filename = filelist
   let filelist = ""
  endif
"   call Decho(" ")
"   call Decho("(while) filelist<".filelist.">")
"   call Decho("(while) filename<".filename.">")

  if getftype(filename) == "link"
   " indicate a symbolic link
"    call Decho("indicate <".filename."> is a symbolic link with trailing @")
   let pfile= filename."@"

  elseif getftype(filename) == "socket"
   " indicate a socket
```

```
"    call Decho("indicate <".filename."> is a socket with trailing =")
  let pfile= filename."="

 elseif getftype(filename) == "fifo"
  " indicate a fifo
"    call Decho("indicate <".filename."> is a fifo with trailing |")
  let pfile= filename."|"

 elseif isdirectory(filename)
  " indicate a directory
"    call Decho("indicate <".filename."> is a directory with trailing /")
  let pfile= filename."/"

 elseif exists("b:netrw_curdir") && b:netrw_curdir !~ '^.*://' && !isdirectory(filename)
  if (has("win32") || has("win95") || has("win64") || has("win16"))
   if filename =~ '\.[eE][xX][eE]$' || filename =~ '\.[cC][oO][mM]$' || filename =~ '\.[bB][aA][tT]$'
    " indicate an executable
"     call Decho("indicate <".filename."> is executable with trailing *")
    let pfile= filename."*"
   else
    " normal file
    let pfile= filename
   endif
  elseif executable(filename)
   " indicate an executable
"    call Decho("indicate <".filename."> is executable with trailing *")
   let pfile= filename."*"
  else
   " normal file
   let pfile= filename
  endif

 else
  " normal file
  let pfile= filename
 endif
"   call Decho("pfile<".pfile."> (after *@/ appending)")

 if pfile =~ '//$'
  let pfile= substitute(pfile,'//$','/','e')
"    call Decho("change // to /: pfile<".pfile.">")
 endif
 let pfile= strpart(pfile,dirnamelen)
 let pfile= substitute(pfile,'^[/\\]',','e')
"   call Decho("filename<".filename.">")
"   call Decho("pfile   <".pfile.">")

 if w:netrw_liststyle == s:LONGLIST
```

```
  let sz   = getfsize(filename)
  let fsz  = strpart("               ",1,15-s:Strlen(sz)).sz
  let pfile= pfile."\t".fsz." ".strftime(g:netrw_timefmt,getftime(filename))
"    call Decho("sz=".sz." fsz=".fsz)
 endif

 if     g:netrw_sort_by =~ "^t"
  " sort by time (handles time up to 1 quintillion seconds, US)
"    call Decho("getftime(".filename.")=".getftime(filename))
  let t  = getftime(filename)
  let ft = strpart("00000000000000000000",1,18-s:Strlen(t)).t
"    call Decho("exe keepjumps put ='".ft.'/'.filename."'")
  let ftpfile= ft.'/'.pfile
  keepjumps silent! put=ftpfile

 elseif g:netrw_sort_by =~ "^s"
  " sort by size (handles file sizes up to 1 quintillion bytes, US)
"    call Decho("getfsize(".filename.")=".getfsize(filename))
  let sz   = getfsize(filename)
  let fsz  = strpart("00000000000000000000",1,18-s:Strlen(sz)).sz
"    call Decho("exe keepjumps put ='".fsz.'/'.filename."'")
  let fszpfile= fsz.'/'.pfile
  keepjumps silent! put =fszpfile

 else
  " sort by name
"    call Decho("exe keepjumps put ='".pfile."'")
  keepjumps silent! put=pfile
 endif
endwhile

" cleanup any windows mess at end-of-line
silent! keepjumps %s/\r$//e
exe "setlocal ts=".g:netrw_maxfilenamelen
"  call Decho("setlocal ts=".g:netrw_maxfilenamelen)

"  call Dret("s:LocalListing")
endfun

" ----------------------------------------------------------------------
" s:LocalBrowseShellCmdRefresh: this function is called after a user has {{{2
" performed any shell command.  The idea is to cause all local-browsing
" buffers to be refreshed after a user has executed some shell command,
" on the chance that s/he removed/created a file/directory with it.
fun! s:LocalBrowseShellCmdRefresh()
"  call Dfunc("LocalBrowseShellCmdRefresh() browselist=".(exists("s:netrw_browselist")?
string(s:netrw_browselist) : "empty")." ".tabpagenr("$")." tabs")
 " determine which buffers currently reside in a tab
```

```
 if !exists("s:netrw_browselist")
"   call Dret("LocalBrowseShellCmdRefresh : browselist is empty")
 return
 endif
 if !exists("w:netrw_bannercnt")
"   call Dret("LocalBrowseShellCmdRefresh : don't refresh when focus not on netrw windwo")
 return
 endif
 if exists("s:locbrowseshellcmd")
  if s:locbrowseshellcmd
   let s:locbrowseshellcmd= 0
"    call Dret("LocalBrowseShellCmdRefresh : NetrwBrowse itself caused the refresh")
   return
  endif
  let s:locbrowseshellcmd= 0
 endif
 let itab       = 1
 let buftablist = []
 while itab <= tabpagenr("$")
  let buftablist = buftablist + tabpagebuflist()
  let itab       = itab + 1
  tabn
 endwhile
"  call Decho("buftablist".string(buftablist))
"  call Decho("s:netrw_browselist<".(exists("s:netrw_browselist")? string(s:netrw_browselist) : "").">")
 "  GO through all buffers on netrw_browselist (ie. just local-netrw buffers):
 "   | refresh any netrw window
 "   | wipe out any non-displaying netrw buffer
 let curwin = winnr()
 let ibl    = 0
 for ibuf in s:netrw_browselist
"   call Decho("bufwinnr(".ibuf.") index(buftablist,".ibuf.")=".index(buftablist,ibuf))
  if bufwinnr(ibuf) == -1 && index(buftablist,ibuf) == -1
   " wipe out any non-displaying netrw buffer
"    call Decho("wiping  buf#".ibuf,"<".bufname(ibuf).">")
   exe "silent! bd ".fnameescape(ibuf)
   call remove(s:netrw_browselist,ibl)
"    call Decho("browselist=".string(s:netrw_browselist))
   continue
  elseif index(tabpagebuflist(),ibuf) != -1
   " refresh any netrw buffer
"    call Decho("refresh buf#".ibuf.'-> win#'.bufwinnr(ibuf))
   exe bufwinnr(ibuf)."wincmd w"
   call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'./'))
  endif
  let ibl= ibl + 1
 endfor
 exe curwin."wincmd w"
```

```
"  call Dret("LocalBrowseShellCmdRefresh")
endfun

" ---------------------------------------------------------------------
" s:NetrwLocalRm: {{{2
fun! s:NetrwLocalRm(path) range
"  call Dfunc("s:NetrwLocalRm(path<".a:path.">)")
"  call Decho("firstline=".a:firstline." lastline=".a:lastline)

 " preparation for removing multiple files/directories
 let ret   = 0
 let all   = 0
 let svpos = netrw#NetrwSavePosn()

 if exists("s:netrwmarkfilelist_{bufnr('%')}")
  " remove all marked files
"   call Decho("remove all marked files")
  for fname in s:netrwmarkfilelist_{bufnr("%")}
   let ok= s:NetrwLocalRmFile(a:path,fname,all)
   if ok =~ 'q\%[uit]' || ok == "no"
    break
   elseif ok =~ 'a\%[ll]'
    let all= 1
   endif
  endfor
  call s:NetrwUnMarkFile(1)

 else
 " remove (multiple) files and directories
"   call Decho("remove files in range [".a:firstline.",".a:lastline."]")

  let ctr = a:firstline
  while ctr <= a:lastline
   exe "keepjumps ".ctr

   " sanity checks
   if line(".") < w:netrw_bannercnt
    let ctr= ctr + 1
    continue
   endif
   let curword= s:NetrwGetWord()
   if curword == "./" || curword == "../"
    let ctr= ctr + 1
    continue
   endif
   let ok= s:NetrwLocalRmFile(a:path,curword,all)
   if ok =~ 'q\%[uit]' || ok == "no"
```

```
   break
  elseif ok =~ 'a\%[ll]'
   let all= 1
  endif
  let ctr= ctr + 1
 endwhile
endif

 " refresh the directory
"  call Decho("bufname<".bufname("%").">")
 if bufname("%") != "NetrwMessage"
  call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'./'))
  call netrw#NetrwRestorePosn(svpos)
 endif

"  call Dret("s:NetrwLocalRm")
endfun

" ---------------------------------------------------------------------
" s:NetrwLocalRmFile: remove file fname given the path {{{2
"                     Give confirmation prompt unless all==1
fun! s:NetrwLocalRmFile(path,fname,all)
"  call Dfunc("s:NetrwLocalRmFile(path<".a:path."> fname<".a:fname."> all=".a:all)

 let all= a:all
 let ok = ""
 norm! 0
 let rmfile= s:ComposePath(a:path,a:fname)
"  call Decho("rmfile<".rmfile.">")

 if rmfile !~ '^"' && (rmfile =~ '@$' || rmfile !~ '[\/]$')
  " attempt to remove file
"   call Decho("attempt to remove file<".rmfile.">")
  if !all
   echohl Statement
   call inputsave()
   let ok= input("Confirm deletion of file<".rmfile."> ","[{y(es)},n(o),a(ll),q(uit)] ")
   call inputrestore()
   echohl NONE
   if ok == ""
    let ok="no"
   endif
"    call Decho("response: ok<".ok.">")
   let ok= substitute(ok,'\[{y(es)},n(o),a(ll),q(uit)]\s*','','e')
"    call Decho("response: ok<".ok."> (after sub)")
   if ok =~ 'a\%[ll]'
    let all= 1
   endif
```

```
 endif

 if all || ok =~ 'y\%[es]' || ok == ""
  let ret= s:NetrwDelete(rmfile)
"    call Decho("errcode=".v:shell_error." ret=".ret)
 endif

 else
  " attempt to remove directory
  if !all
   echohl Statement
   call inputsave()
   let ok= input("Confirm deletion of directory<".rmfile."> ","[{y(es)},n(o),a(ll),q(uit)] ")
   call inputrestore()
   let ok= substitute(ok,'\[{y(es)},n(o),a(ll),q(uit)]\s*','','e')
   if ok == ""
    let ok="no"
   endif
   if ok =~ 'a\%[ll]'
    let all= 1
   endif
  endif
  let rmfile= substitute(rmfile,'[\/]$','','e')

  if all || ok =~ 'y\%[es]' || ok == ""
"    call Decho("1st attempt: system(s:WinPath(".g:netrw_local_rmdir.') '.shellescape(rmfile).')')
   call system(s:WinPath(g:netrw_local_rmdir).' '.shellescape(rmfile))
"    call Decho("v:shell_error=".v:shell_error)

   if v:shell_error != 0
"     call Decho("2nd attempt to remove directory<".rmfile.">")
    let errcode= s:NetrwDelete(rmfile)
"     call Decho("errcode=".errcode)

    if errcode != 0
     if has("unix")
"      call Decho("3rd attempt to remove directory<".rmfile.">")
      call system("rm ".shellescape(rmfile))
      if v:shell_error != 0 && !exists("g:netrw_quiet")
       call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",34)
 let ok="no"
      endif
     elseif !exists("g:netrw_quiet")
      call netrw#ErrorMsg(s:ERROR,"unable to remove directory<".rmfile."> -- is it empty?",35)
      let ok="no"
     endif
    endif
   endif
```

```
 endif
endif

"  call Dret("s:NetrwLocalRmFile ".ok)
 return ok
endfun

" ---------------------------------------------------------------------
" s:NetrwLocalRename: rename a remote file or directory {{{2
fun! s:NetrwLocalRename(path) range
"  call Dfunc("NetrwLocalRename(path<".a:path.">)")

 " preparation for removing multiple files/directories
 let ctr  = a:firstline
 let svpos= netrw#NetrwSavePosn()

 " rename files given by the markfilelist
 if exists("s:netrwmarkfilelist_{bufnr('%')}")
  for oldname in s:netrwmarkfilelist_{bufnr("%")}
"    call Decho("oldname<".oldname.">")
   if exists("subfrom")
    let newname= substitute(oldname,subfrom,subto,")
"     call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
   else
    call inputsave()
    let newname= input("Moving ".oldname." to : ",oldname)
    call inputrestore()
    if newname =~ '^s/'
     let subfrom = substitute(newname,'^s/\([^/]*\)/.*/$','\1',")
     let subto   = substitute(newname,'^s/[^/]*/\(.*\)/$','\1',")
"      call Decho("subfrom<".subfrom."> subto<".subto."> newname<".newname.">")
     let newname = substitute(oldname,subfrom,subto,")
    endif
   endif
   call rename(oldname,newname)
  endfor
  call s:NetrwUnmarkList(bufnr("%"),b:netrw_curdir)

 else

  " attempt to rename files/directories
  while ctr <= a:lastline
   exe "keepjumps ".ctr

   " sanity checks
   if line(".") < w:netrw_bannercnt
    let ctr= ctr + 1
    continue
```

```
  endif
  let curword= s:NetrwGetWord()
  if curword == "./" || curword == "../"
   let ctr= ctr + 1
   continue
  endif

  norm! 0
  let oldname= s:ComposePath(a:path,curword)
"   call Decho("oldname<".oldname.">")

  call inputsave()
  let newname= input("Moving ".oldname." to : ",substitute(oldname,'/*$','','e'))
  call inputrestore()

  call rename(oldname,newname)
"   call Decho("renaming <".oldname."> to <".newname.">")

  let ctr= ctr + 1
 endwhile
endif

 " refresh the directory
"  call Decho("refresh the directory listing")
 call s:NetrwRefresh(1,s:NetrwBrowseChgDir(1,'./'))
 call netrw#NetrwRestorePosn(svpos)

"  call Dret("NetrwLocalRename")
endfun

" ---------------------------------------------------------------------
" s:LocalFastBrowser: handles setting up/taking down fast browsing for the local browser {{{2
"
"     g:netrw_    Directory Is
"     fastbrowse  Local  Remote
"  slow   0         D      D      D=Deleting a buffer implies it will not be re-used (slow)
"  med    1         D      H      H=Hiding a buffer implies it may be re-used        (fast)
"  fast   2         H      H
"
"  Deleting a buffer means that it will be re-loaded when examined, hence "slow".
"  Hiding   a buffer means that it will be re-used   when examined, hence "fast".
"           (re-using a buffer may not be as accurate)
fun! s:LocalFastBrowser()
"  call Dfunc("LocalFastBrowser() g:netrw_fastbrowse=".g:netrw_fastbrowse)

 " initialize browselist, a list of buffer numbers that the local browser has used
 if !exists("s:netrw_browselist")
"   call Decho("initialize s:netrw_browselist")
```

```
 let s:netrw_browselist= []
endif

" append current buffer to fastbrowse list
if empty(s:netrw_browselist) || bufnr("%") > s:netrw_browselist[-1]
"   call Decho("appendng current buffer to browselist")
 call add(s:netrw_browselist,bufnr("%"))
"   call Decho("browselist=".string(s:netrw_browselist))
endif

" enable autocmd events to handle refreshing/removing local browser buffers
"    If local browse buffer is currently showing: refresh it
"    If local browse buffer is currently hidden : wipe it
if !exists("s:netrw_browser_shellcmd") && g:netrw_fastbrowse <= 1
"   call Decho("setting up local-browser shell command refresh")
 let s:netrw_browser_shellcmd= 1
 augroup AuNetrwShellCmd
  au!
  if (has("win32") || has("win95") || has("win64") || has("win16"))
"     call Decho("autocmd: ShellCmdPost * call s:LocalBrowseShellCmdRefresh()")
   au ShellCmdPost   * call s:LocalBrowseShellCmdRefresh()
  else
   au ShellCmdPost,FocusGained * call s:LocalBrowseShellCmdRefresh()
"     call Decho("autocmd: ShellCmdPost,FocusGained * call s:LocalBrowseShellCmdRefresh()")
  endif
 augroup END
endif

" user must have changed fastbrowse to its fast setting, so remove
" the associated autocmd events
if g:netrw_fastbrowse > 1 && exists("s:netrw_browser_shellcmd")
"   call Decho("remove AuNetrwShellCmd autcmd group")
 unlet s:netrw_browser_shellcmd
 augroup AuNetrwShellCmd
  au!
 augroup END
 augroup! AuNetrwShellCmd
endif

"  call Dret("LocalFastBrowser : browselist<".string(s:netrw_browselist).">")
endfun

" ---------------------------------------------------------------------
" Support Functions: {{{1

" ---------------------------------------------------------------------
" netrw#ErrorMsg: {{{2
"   0=note     = s:NOTE
```

```
"   1=warning  = s:WARNING
"   2=error    = s:ERROR
"  Oct 12, 2008 : max errnum currently is 73
fun! netrw#ErrorMsg(level,msg,errnum)
"  call Dfunc("netrw#ErrorMsg(level=".a:level." msg<".a:msg."> errnum=".a:errnum.")
g:netrw_use_errorwindow=".g:netrw_use_errorwindow)

 if a:level == 1
  let level= "**warning** (netrw) "
 elseif a:level == 2
  let level= "**error** (netrw) "
 else
  let level= "**note** (netrw) "
 endif
"  call Decho("level=".level)

 if g:netrw_use_errorwindow
  " (default) netrw creates a one-line window to show error/warning
  " messages (reliably displayed)

  " record current window number for NetrwRestorePosn()'s benefit
  let s:winBeforeErr= winnr()
"   call Decho("s:winBeforeErr=".s:winBeforeErr)

  " getting messages out reliably is just plain difficult!
  " This attempt splits the current window, creating a one line window.
  if bufexists("NetrwMessage") && bufwinnr("NetrwMessage") > 0
"    call Decho("write to NetrwMessage buffer")
   exe bufwinnr("NetrwMessage")."wincmd w"
"    call Decho("setlocal ma noro")
   setlocal ma noro
   call setline(line("$")+1,level.a:msg)
   $
  else
"    call Decho("create a NetrwMessage buffer window")
   bo 1split
   enew
   setlocal bt=nofile
   file NetrwMessage
"    call Decho("setlocal ma noro")
   setlocal ma noro
   call setline(line("$"),level.a:msg)
  endif
"   call Decho("wrote msg<".level.a:msg."> to NetrwMessage win#".winnr())
  if &fo !~ '[ta]'
   syn clear
   syn match netrwMesgNote "^\*\*note\*\*"
   syn match netrwMesgWarning "^\*\*warning\*\*"
```

```
  syn match netrwMesgError "^\*\*error\*\*"
  hi link netrwMesgWarning WarningMsg
  hi link netrwMesgError   Error
 endif
 setlocal noma ro bh=wipe

else
 " (optional) netrw will show messages using echomsg.  Even if the
 " message doesn't appear, at least it'll be recallable via :messages
"   redraw!
 if a:level == s:WARNING
  echohl WarningMsg
 elseif a:level == s:ERROR
  echohl Error
 endif
 echomsg level.a:msg
"   call Decho("echomsg ***netrw*** ".a:msg)
 echohl None
endif

"  call Dret("netrw#ErrorMsg")
endfun

" ---------------------------------------------------------------------
" netrw#NetrwRestorePosn: restores the cursor and file position as saved by NetrwSavePosn() {{{2
fun! netrw#NetrwRestorePosn(...)
"  call Dfunc("netrw#NetrwRestorePosn() a:0=".a:0." winnr=".(exists("w:netrw_winnr")? w:netrw_winnr : -1)."
line=".(exists("w:netrw_line")? w:netrw_line : -1)." col=".(exists("w:netrw_col")? w:netrw_col : -1)."
hline=".(exists("w:netrw_hline")? w:netrw_hline : -1))
 let eikeep= &ei
 set ei=all
 if expand("%") == "NetrwMessage"
  exe s:winBeforeErr."wincmd w"
 endif

 if a:0 > 0
  exe a:1
 endif

 " restore window
 if exists("w:netrw_winnr")
"   call Decho("restore window: exe silent! ".w:netrw_winnr."wincmd w")
  exe "silent! ".w:netrw_winnr."wincmd w"
 endif
 if v:shell_error == 0
  " as suggested by Bram M: redraw on no error
  " allows protocol error messages to remain visible
"   redraw!
```

```
 endif

 " restore top-of-screen line
 if exists("w:netrw_hline")
"   call Decho("restore topofscreen: exe norm! ".w:netrw_hline."G0z")
  exe "norm! ".w:netrw_hline."G0z\<CR>"
 endif

 " restore position
 if exists("w:netrw_line") && exists("w:netrw_col")
"   call Decho("restore posn: exe norm! ".w:netrw_line."G0".w:netrw_col."|")
  exe "norm! ".w:netrw_line."G0".w:netrw_col."\<bar>"
 endif

 let &ei= eikeep
"  call Dret("netrw#NetrwRestorePosn")
endfun

" ---------------------------------------------------------------------
" netrw#NetrwSavePosn: saves position of cursor on screen {{{2
fun! netrw#NetrwSavePosn()
"  call Dfunc("netrw#NetrwSavePosn()")
 " Save current line and column
 let w:netrw_winnr= winnr()
 let w:netrw_line = line(".")
 let w:netrw_col  = virtcol(".")

 " Save top-of-screen line
 norm! H0
 let w:netrw_hline= line(".")

 " set up string holding position parameters
 let ret          = "let w:netrw_winnr=".w:netrw_winnr."|let w:netrw_line=".w:netrw_line."|let
w:netrw_col=".w:netrw_col."|let w:netrw_hline=".w:netrw_hline

 call netrw#NetrwRestorePosn()
"  call Dret("netrw#NetrwSavePosn : winnr=".w:netrw_winnr." line=".w:netrw_line." col=".w:netrw_col."
hline=".w:netrw_hline)
 return ret
endfun

" ---------------------------------------------------------------------
"  netrw#RFC2396: converts %xx into characters {{{2
fun! netrw#RFC2396(fname)
"  call Dfunc("netrw#RFC2396(fname<".a:fname.">)")
 let fname = escape(substitute(a:fname,'%\(\x\x\)','\=nr2char("0x".submatch(1))','ge')," \t")
"  call Dret("netrw#RFC2396 ".fname)
 return fname
```

```
endfun

" ---------------------------------------------------------------------
"  s:ComposePath: Appends a new part to a path taking different systems into consideration {{{2
fun! s:ComposePath(base,subdir)
"  call Dfunc("s:ComposePath(base<".a:base."> subdir<".a:subdir.">)")

 if(has("amiga"))
"   call Decho("amiga")
  let ec = a:base[strlen(a:base)-1]
  if ec != '/' && ec != ':'
   let ret = a:base . "/" . a:subdir
  else
   let ret = a:base . a:subdir
  endif

 elseif a:subdir =~ '^\a:[/\\][^/\\]' && (has("win32") || has("win95") || has("win64") || has("win16"))
"   call Decho("windows")
  let ret= a:subdir

 elseif a:base =~ '^\a\+://'
"   call Decho("remote linux/macos")
  let urlbase = substitute(a:base,'^\(\a\+://.\{-}/\)\(.*\)$','\1','')
  let curpath = substitute(a:base,'^\(\a\+://.\{-}/\)\(.*\)$','\2','')
  if a:subdir == '../'
   if curpath =~ '[^/]/[^/]\+/$'
    let curpath= substitute(curpath,'[^/]\+/$','','')
   else
    let curpath=""
   endif
   let ret= urlbase.curpath
  else
   let ret= urlbase.curpath.a:subdir
  endif
"   call Decho("urlbase<".urlbase.">")
"   call Decho("curpath<".curpath.">")
"   call Decho("ret<".ret.">")

 else
"   call Decho("local linux/macos")
  let ret = substitute(a:base."/".a:subdir,"//","/","g")
  if a:base =~ '^//'
   " keeping initial '//' for the benefit of network share listing support
   let ret= '/'.ret
  endif
  let ret= simplify(ret)
 endif
```

```
"  call Dret("s:ComposePath ".ret)
 return ret
endfun

" ---------------------------------------------------------------------
" s:FileReadable: o/s independent filereadable {{{2
fun! s:FileReadable(fname)
"  call Dfunc("s:FileReadable(fname<".a:fname.">)")

 if g:netrw_cygwin
  let ret= filereadable(substitute(a:fname,'/cygdrive/\(.\)','\1:/',''))
 else
  let ret= filereadable(a:fname)
 endif

"  call Dret("s:FileReadable ".ret)
 return ret
endfun

" ---------------------------------------------------------------------
"  s:GetTempfile: gets a tempname that'll work for various o/s's {{{2
"               Places correct suffix on end of temporary filename,
"               using the suffix provided with fname
fun! s:GetTempfile(fname)
"  call Dfunc("s:GetTempfile(fname<".a:fname.">)")

 if !exists("b:netrw_tmpfile")
  " get a brand new temporary filename
  let tmpfile= tempname()
"   call Decho("tmpfile<".tmpfile."> : from tempname()")

  let tmpfile= substitute(tmpfile,'\','/','ge')
"   call Decho("tmpfile<".tmpfile."> : chgd any \\ -> /")

  " sanity check -- does the temporary file's directory exist?
  if !isdirectory(substitute(tmpfile,'[^/]\+$','','e'))
"    call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
   call netrw#ErrorMsg(s:ERROR,"your <".substitute(tmpfile,'[^/]\+$','','e')."> directory is missing!",2)
"    call Dret("s:GetTempfile getcwd<".getcwd().">")
   return ""
  endif

  " let netrw#NetSource() know about the tmpfile
  let s:netrw_tmpfile= tmpfile " used by netrw#NetSource() and netrw#NetrwBrowseX()
"   call Decho("tmpfile<".tmpfile."> s:netrw_tmpfile<".s:netrw_tmpfile.">")

  " o/s dependencies
  if g:netrw_cygwin != 0
```

```
  let tmpfile = substitute(tmpfile,'^\(\a\):','/cygdrive/\1','e')
 elseif has("win32") || has("win95") || has("win64") || has("win16")
  if !exists("+shellslash") || !&ssl
   let tmpfile = substitute(tmpfile,'/','\','g')
  endif
 else
  let tmpfile = tmpfile
 endif
 let b:netrw_tmpfile= tmpfile
"   call Decho("o/s dependent fixed tempname<".tmpfile.">")
 else
  " re-use temporary filename
 let tmpfile= b:netrw_tmpfile
"   call Decho("tmpfile<".tmpfile."> re-using")
 endif

 " use fname's suffix for the temporary file
 if a:fname != ""
  if a:fname =~ '\.[^./]\+$'
"    call Decho("using fname<".a:fname.">'s suffix")
   if a:fname =~ '.tar.gz' || a:fname =~ '.tar.bz2'
    let suffix = ".tar".substitute(a:fname,'^.*\(\.[^./]\+\)$','\1','e')
   else
    let suffix = substitute(a:fname,'^.*\(\.[^./]\+\)$','\1','e')
   endif
"    call Decho("suffix<".suffix.">")
   let tmpfile= substitute(tmpfile,'\.tmp$','','e')
"    call Decho("chgd tmpfile<".tmpfile."> (removed any .tmp suffix)")
   let tmpfile .= suffix
"    call Decho("chgd tmpfile<".tmpfile."> (added ".suffix." suffix) netrw_fname<".b:netrw_fname.">")
   let s:netrw_tmpfile= tmpfile " supports netrw#NetSource()
  endif
 endif

"  call Decho("ro=".&l:ro." ma=".&l:ma." mod=".&l:mod." wrap=".&l:wrap)
"  call Dret("s:GetTempfile <".tmpfile.">")
 return tmpfile
endfun

" ---------------------------------------------------------------------
" s:MakeSshCmd: transforms input command using USEPORT HOSTNAME into {{{2
"               a correct command for use with a system() call
fun! s:MakeSshCmd(sshcmd)
"  call Dfunc("s:MakeSshCmd(sshcmd<".a:sshcmd.">) user<".s:user."> machine<".s:machine.">")
 let sshcmd = substitute(a:sshcmd,'\<HOSTNAME\>',s:user.s:machine,'')
 if exists("g:netrw_port") && g:netrw_port != ""
  let sshcmd= substitute(sshcmd,"USEPORT",g:netrw_sshport.' '.g:netrw_port,'')
 elseif exists("s:port") && s:port != ""
```

```
 let sshcmd= substitute(sshcmd,"USEPORT",g:netrw_sshport.' '.s:port,")
 else
  let sshcmd= substitute(sshcmd,"USEPORT ","","")
 endif
"  call Dret("s:MakeSshCmd <".sshcmd.">")
 return sshcmd
endfun

" ---------------------------------------------------------------------
" s:NetrwBMShow: {{{2
fun! s:NetrwBMShow()
"  call Dfunc("s:NetrwBMShow()")
 redir => bmshowraw
  menu
 redir END
 let bmshowlist = split(bmshowraw,'\n')
 if bmshowlist != []
  let bmshowfuncs= filter(bmshowlist,'v:val =~ "<SNR>\\d\\+_BMShow()"')
  if bmshowfuncs != []
   let bmshowfunc = substitute(bmshowfuncs[0],'^.*:\(call.*BMShow()\).*$','\1',")
   if bmshowfunc =~ '^call.*BMShow()'
    exe "silent! ".bmshowfunc
   endif
  endif
 endif
"  call Dret("s:NetrwBMShow : bmshowfunc<".(exists("bmshowfunc")? bmshowfunc : 'n/a').">")
endfun

" ---------------------------------------------------------------------
" s:NetrwDelete: Deletes a file. {{{2
"           Uses Steve Hall's idea to insure that Windows paths stay
"           acceptable.  No effect on Unix paths.
"  Examples of use:  let result= s:NetrwDelete(path)
fun! s:NetrwDelete(path)
"  call Dfunc("s:NetrwDelete(path<".a:path.">)")

 let path = s:WinPath(a:path)
 if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
  if exists("+shellslash")
   let sskeep= &shellslash
   setlocal noshellslash
   let result      = delete(path)
   let &shellslash = sskeep
  else
"    call Decho("exe let result= ".a:cmd."('".path."')")
   let result= delete(path)
  endif
 else
```

```
"   call Decho("let result= delete(".path.")")
 let result= delete(path)
endif
if result < 0
 call netrw#ErrorMsg(s:WARNING,"delete(".path.") failed!",71)
endif

"  call Dret("s:NetrwDelete ".result)
 return result
endfun

" ---------------------------------------------------------------------
" s:NetrwEnew: opens a new buffer, passes netrw buffer variables through {{{2
fun! s:NetrwEnew(curdir)
"  call Dfunc("s:NetrwEnew(curdir<".a:curdir.">) buf#".bufnr("%")."<".bufname("%").">")

 " grab a function-local-variable copy of buffer variables
 if exists("b:netrw_bannercnt")      |let netrw_bannercnt       = b:netrw_bannercnt      |endif
 if exists("b:netrw_browser_active") |let netrw_browser_active  = b:netrw_browser_active |endif
 if exists("b:netrw_cpf")            |let netrw_cpf             = b:netrw_cpf            |endif
 if exists("b:netrw_curdir")         |let netrw_curdir          = b:netrw_curdir         |endif
 if exists("b:netrw_explore_bufnr")  |let netrw_explore_bufnr   = b:netrw_explore_bufnr  |endif
 if exists("b:netrw_explore_indx")   |let netrw_explore_indx    = b:netrw_explore_indx   |endif
 if exists("b:netrw_explore_line")   |let netrw_explore_line    = b:netrw_explore_line   |endif
 if exists("b:netrw_explore_list")   |let netrw_explore_list    = b:netrw_explore_list   |endif
 if exists("b:netrw_explore_listlen")|let netrw_explore_listlen = b:netrw_explore_listlen|endif
 if exists("b:netrw_explore_mtchcnt")|let netrw_explore_mtchcnt = b:netrw_explore_mtchcnt|endif
 if exists("b:netrw_fname")          |let netrw_fname           = b:netrw_fname          |endif
 if exists("b:netrw_lastfile")       |let netrw_lastfile        = b:netrw_lastfile       |endif
 if exists("b:netrw_liststyle")      |let netrw_liststyle       = b:netrw_liststyle      |endif
 if exists("b:netrw_method")         |let netrw_method          = b:netrw_method         |endif
 if exists("b:netrw_option")         |let netrw_option          = b:netrw_option         |endif
 if exists("b:netrw_prvdir")         |let netrw_prvdir          = b:netrw_prvdir         |endif

 call s:NetrwOptionRestore("w:")
"  call Decho("generate a buffer with keepjumps keepalt enew!")
 keepjumps keepalt enew!
 call s:NetrwOptionSave("w:")

 " copy function-local-variables to buffer variable equivalents
 if exists("netrw_bannercnt")      |let b:netrw_bannercnt       = netrw_bannercnt      |endif
 if exists("netrw_browser_active") |let b:netrw_browser_active  = netrw_browser_active |endif
 if exists("netrw_cpf")            |let b:netrw_cpf             = netrw_cpf            |endif
 if exists("netrw_curdir")         |let b:netrw_curdir          = netrw_curdir         |endif
 if exists("netrw_explore_bufnr")  |let b:netrw_explore_bufnr   = netrw_explore_bufnr  |endif
 if exists("netrw_explore_indx")   |let b:netrw_explore_indx    = netrw_explore_indx   |endif
 if exists("netrw_explore_line")   |let b:netrw_explore_line    = netrw_explore_line   |endif
 if exists("netrw_explore_list")   |let b:netrw_explore_list    = netrw_explore_list   |endif
```

```
 if exists("netrw_explore_listlen")|let b:netrw_explore_listlen = netrw_explore_listlen|endif
 if exists("netrw_explore_mtchcnt")|let b:netrw_explore_mtchcnt = netrw_explore_mtchcnt|endif
 if exists("netrw_fname")          |let b:netrw_fname          = netrw_fname          |endif
 if exists("netrw_lastfile")       |let b:netrw_lastfile       = netrw_lastfile       |endif
 if exists("netrw_liststyle")      |let b:netrw_liststyle      = netrw_liststyle      |endif
 if exists("netrw_method")         |let b:netrw_method         = netrw_method         |endif
 if exists("netrw_option")         |let b:netrw_option         = netrw_option         |endif
 if exists("netrw_prvdir")         |let b:netrw_prvdir         = netrw_prvdir         |endif

 let b:netrw_curdir= a:curdir
 if b:netrw_curdir =~ '/$'
  if exists("w:netrw_liststyle") && w:netrw_liststyle == s:TREELIST
   file NetrwTreeListing
   nno <silent> <buffer> [ :silent call <SID>TreeListMove('[')<cr>
   nno <silent> <buffer> ] :silent call <SID>TreeListMove(']')<cr>
  else
   exe "silent! keepalt file ".fnameescape(b:netrw_curdir)
  endif
 endif

"  call Dret("s:NetrwEnew : buf#".bufnr("%")."<".bufname("%")."> expand(%)<".expand("%").">
expand(#)<".expand("#").">")
endfun

" ---------------------------------------------------------------------
" s:NetrwSaveWordPosn: used to keep cursor on same word after refresh, {{{2
" changed sorting, etc.  Also see s:NetrwRestoreWordPosn().
fun! s:NetrwSaveWordPosn()
"  call Dfunc("NetrwSaveWordPosn()")
 let s:netrw_saveword= '^'.fnameescape(getline('.')).'$'
"  call Dret("NetrwSaveWordPosn : saveword<".s:netrw_saveword.">")
endfun

" ---------------------------------------------------------------------
" s:NetrwRestoreWordPosn: used to keep cursor on same word after refresh, {{{2
"  changed sorting, etc.  Also see s:NetrwSaveWordPosn().
fun! s:NetrwRestoreWordPosn()
"  call Dfunc("NetrwRestoreWordPosn()")
 silent! call search(s:netrw_saveword,'w')
"  call Dret("NetrwRestoreWordPosn")
endfun

" ---------------------------------------------------------------------
" s:RestoreBufVars: {{{2
fun! s:RestoreBufVars()
"  call Dfunc("s:RestoreBufVars()")

 if exists("s:netrw_curdir")       |let b:netrw_curdir       = s:netrw_curdir       |endif
```

```
 if exists("s:netrw_lastfile")      |let b:netrw_lastfile       = s:netrw_lastfile      |endif
 if exists("s:netrw_method")        |let b:netrw_method         = s:netrw_method        |endif
 if exists("s:netrw_fname")         |let b:netrw_fname          = s:netrw_fname         |endif
 if exists("s:netrw_machine")       |let b:netrw_machine        = s:netrw_machine       |endif
 if exists("s:netrw_browser_active")|let b:netrw_browser_active = s:netrw_browser_active|endif

"  call Dret("s:RestoreBufVars")
endfun

" ---------------------------------------------------------------------
" s:RemotePathAnalysis: {{{2
fun! s:RemotePathAnalysis(dirname)
"  call Dfunc("s:RemotePathAnalysis()")

 let dirpat  = '^\(\w\{-}\)://\(\w\+@\)\=\([^/:#]\+\)\%([:#]\(\d\+\)\)\=/\(.*\)$'
 let s:method  = substitute(a:dirname,dirpat,'\1','')
 let s:user    = substitute(a:dirname,dirpat,'\2','')
 let s:machine = substitute(a:dirname,dirpat,'\3','')
 let s:port    = substitute(a:dirname,dirpat,'\4','')
 let s:path    = substitute(a:dirname,dirpat,'\5','')
 let s:fname   = substitute(a:dirname,'^.*/\ze.','','')

"  call Decho("set up s:method <".s:method .">")
"  call Decho("set up s:user   <".s:user   .">")
"  call Decho("set up s:machine<".s:machine.">")
"  call Decho("set up s:port   <".s:port.">")
"  call Decho("set up s:path   <".s:path   .">")
"  call Decho("set up s:fname  <".s:fname  .">")

"  call Dret("s:RemotePathAnalysis")
endfun

" ---------------------------------------------------------------------
" s:RemoteSystem: runs a command on a remote host using ssh {{{2
"               Returns status
" Runs system() on
"    [cd REMOTEDIRPATH;] a:cmd
" Note that it doesn't do shellescape(a:cmd)!
fun! s:RemoteSystem(cmd)
"  call Dfunc("s:RemoteSystem(cmd<".a:cmd.">)")
 if !executable(g:netrw_ssh_cmd)
  call netrw#ErrorMsg(s:ERROR,"g:netrw_ssh_cmd<".g:netrw_ssh_cmd."> is not executable!",52)
 elseif !exists("b:netrw_curdir")
  call netrw#ErrorMsg(s:ERROR,"for some reason b:netrw_curdir doesn't exist!",53)
 else
  let cmd      = s:MakeSshCmd(g:netrw_ssh_cmd." USEPORT HOSTNAME")
  let remotedir= substitute(b:netrw_curdir,'^.*//[^/]\+/\(.*\)$','\1','')
  if remotedir != ""
```

```
  let cmd= cmd.' cd '.shellescape(remotedir).";"
 else
  let cmd= cmd.' '
 endif
 let cmd= cmd.a:cmd
"   call Decho("call system(".cmd.")")
 let ret= system(cmd)
endif
"  call Dret("s:RemoteSystem ".ret)
 return ret
endfun

" ---------------------------------------------------------------------
" s:RestoreWinVars: (used by Explore() and NetrwSplit()) {{{2
fun! s:RestoreWinVars()
"  call Dfunc("s:RestoreWinVars()")
 if exists("s:bannercnt")      |let w:netrw_bannercnt       = s:bannercnt      |unlet s:bannercnt      |endif
 if exists("s:col")            |let w:netrw_col             = s:col            |unlet s:col            |endif
 if exists("s:curdir")         |let w:netrw_curdir          = s:curdir         |unlet s:curdir         |endif
 if exists("s:explore_bufnr")  |let w:netrw_explore_bufnr   = s:explore_bufnr  |unlet s:explore_bufnr  |endif
 if exists("s:explore_indx")   |let w:netrw_explore_indx    = s:explore_indx   |unlet s:explore_indx   |endif
 if exists("s:explore_line")   |let w:netrw_explore_line    = s:explore_line   |unlet s:explore_line   |endif
 if exists("s:explore_listlen")|let w:netrw_explore_listlen = s:explore_listlen|unlet s:explore_listlen|endif
 if exists("s:explore_list")   |let w:netrw_explore_list    = s:explore_list   |unlet s:explore_list   |endif
 if exists("s:explore_mtchcnt")|let w:netrw_explore_mtchcnt = s:explore_mtchcnt|unlet s:explore_mtchcnt|endif
 if exists("s:fpl")            |let w:netrw_fpl             = s:fpl            |unlet s:fpl            |endif
 if exists("s:hline")          |let w:netrw_hline           = s:hline          |unlet s:hline          |endif
 if exists("s:line")           |let w:netrw_line            = s:line           |unlet s:line           |endif
 if exists("s:liststyle")      |let w:netrw_liststyle       = s:liststyle      |unlet s:liststyle      |endif
 if exists("s:method")         |let w:netrw_method          = s:method         |unlet s:method         |endif
 if exists("s:prvdir")         |let w:netrw_prvdir          = s:prvdir         |unlet s:prvdir         |endif
 if exists("s:treedict")       |let w:netrw_treedict        = s:treedict       |unlet s:treedict       |endif
 if exists("s:treetop")        |let w:netrw_treetop         = s:treetop        |unlet s:treetop        |endif
 if exists("s:winnr")          |let w:netrw_winnr           = s:winnr          |unlet s:winnr          |endif
"  call Dret("s:RestoreWinVars")
endfun

" ---------------------------------------------------------------------
" s:Rexplore: implements returning from a buffer to a netrw directory {{{2
"
"           s:SetRexDir() sets up <2-leftmouse> maps (if g:netrw_retmap
"           is true) and a command, :Rexplore, which call this function.
"
"           s:nbcd_curpos_{bufnr('%')} is set up by s:NetrwBrowseChgDir()
fun! s:NetrwRexplore(islocal,dirname)
"  call Dfunc("s:NetrwRexplore(islocal=".a:islocal." dirname<".a:dirname.">)")
 if a:islocal
  call netrw#LocalBrowseCheck(a:dirname)
```

```
 else
  call s:NetrwBrowse(0,a:dirname)
 endif
 if exists("s:nbcd_curpos_{bufnr('%')}")
  call netrw#NetrwRestorePosn(s:nbcd_curpos_{bufnr('%')})
  unlet s:nbcd_curpos_{bufnr('%')}
 endif
"  call Dret("s:NetrwRexplore")
endfun

" ------------------------------------------------------------------------
" s:SaveBufVars: {{{2
fun! s:SaveBufVars()
"  call Dfunc("s:SaveBufVars()")

 if exists("b:netrw_curdir")        |let s:netrw_curdir         = b:netrw_curdir        |endif
 if exists("b:netrw_lastfile")      |let s:netrw_lastfile       = b:netrw_lastfile      |endif
 if exists("b:netrw_method")        |let s:netrw_method         = b:netrw_method        |endif
 if exists("b:netrw_fname")         |let s:netrw_fname          = b:netrw_fname         |endif
 if exists("b:netrw_machine")       |let s:netrw_machine        = b:netrw_machine       |endif
 if exists("b:netrw_browser_active")|let s:netrw_browser_active = b:netrw_browser_active|endif

"  call Dret("s:SaveBufVars")
endfun

" ------------------------------------------------------------------------
" s:SaveWinVars: (used by Explore() and NetrwSplit()) {{{2
fun! s:SaveWinVars()
"  call Dfunc("s:SaveWinVars()")
 if exists("w:netrw_bannercnt")      |let s:bannercnt       = w:netrw_bannercnt      |endif
 if exists("w:netrw_col")            |let s:col             = w:netrw_col            |endif
 if exists("w:netrw_curdir")         |let s:curdir          = w:netrw_curdir         |endif
 if exists("w:netrw_explore_bufnr")  |let s:explore_bufnr   = w:netrw_explore_bufnr  |endif
 if exists("w:netrw_explore_indx")   |let s:explore_indx    = w:netrw_explore_indx   |endif
 if exists("w:netrw_explore_line")   |let s:explore_line    = w:netrw_explore_line   |endif
 if exists("w:netrw_explore_listlen")|let s:explore_listlen = w:netrw_explore_listlen|endif
 if exists("w:netrw_explore_list")   |let s:explore_list    = w:netrw_explore_list   |endif
 if exists("w:netrw_explore_mtchcnt")|let s:explore_mtchcnt = w:netrw_explore_mtchcnt|endif
 if exists("w:netrw_fpl")            |let s:fpl             = w:netrw_fpl            |endif
 if exists("w:netrw_hline")          |let s:hline           = w:netrw_hline          |endif
 if exists("w:netrw_line")           |let s:line            = w:netrw_line           |endif
 if exists("w:netrw_liststyle")      |let s:liststyle       = w:netrw_liststyle      |endif
 if exists("w:netrw_method")         |let s:method          = w:netrw_method         |endif
 if exists("w:netrw_prvdir")         |let s:prvdir          = w:netrw_prvdir         |endif
 if exists("w:netrw_treedict")       |let s:treedict        = w:netrw_treedict       |endif
 if exists("w:netrw_treetop")        |let s:treetop         = w:netrw_treetop        |endif
 if exists("w:netrw_winnr")          |let s:winnr           = w:netrw_winnr          |endif
"  call Dret("s:SaveWinVars")
```

```
endfun

" ---------------------------------------------------------------------
" s:SetBufWinVars: (used by NetrwBrowse() and LocalBrowseCheck()) {{{2
"   To allow separate windows to have their own activities, such as
"   Explore **/pattern, several variables have been made window-oriented.
"   However, when the user splits a browser window (ex: ctrl-w s), these
"   variables are not inherited by the new window.  SetBufWinVars() and
"   UseBufWinVars() get around that.
fun! s:SetBufWinVars()
"  call Dfunc("s:SetBufWinVars()")
 if exists("w:netrw_liststyle")      |let b:netrw_liststyle      = w:netrw_liststyle      |endif
 if exists("w:netrw_bannercnt")      |let b:netrw_bannercnt      = w:netrw_bannercnt      |endif
 if exists("w:netrw_method")         |let b:netrw_method         = w:netrw_method         |endif
 if exists("w:netrw_prvdir")         |let b:netrw_prvdir         = w:netrw_prvdir         |endif
 if exists("w:netrw_explore_indx")   |let b:netrw_explore_indx   = w:netrw_explore_indx   |endif
 if exists("w:netrw_explore_listlen")|let b:netrw_explore_listlen= w:netrw_explore_listlen|endif
 if exists("w:netrw_explore_mtchcnt")|let b:netrw_explore_mtchcnt= w:netrw_explore_mtchcnt|endif
 if exists("w:netrw_explore_bufnr")  |let b:netrw_explore_bufnr  = w:netrw_explore_bufnr  |endif
 if exists("w:netrw_explore_line")   |let b:netrw_explore_line   = w:netrw_explore_line   |endif
 if exists("w:netrw_explore_list")   |let b:netrw_explore_list   = w:netrw_explore_list   |endif
"  call Dret("s:SetBufWinVars")
endfun

" ---------------------------------------------------------------------
" s:SetRexDir: set directory for :Rexplore {{{2
fun! s:SetRexDir(islocal,dirname)
"  call Dfunc("s:SetRexDir(islocal=".a:islocal." dirname<".a:dirname.">)")
 " set up Rex and leftmouse-double-click
 if a:islocal
  exe 'com! Rexplore call s:NetrwRexplore(1,'".escape(a:dirname,'"\').'")'
  if g:netrw_retmap
   if !hasmapto("<Plug>NetrwReturn") && maparg("<2-leftmouse>","n") == ""
    nmap <unique> <silent> <2-leftmouse> <Plug>NetrwReturn
   endif
   let dir = escape(a:dirname, s:netrw_map_escape)
   exe 'nnoremap <silent> <Plug>NetrwReturn :call <SID>NetrwRexplore(1,'".dir.'")<cr>'
  endif
 else
  exe 'com! Rexplore call s:NetrwRexplore(0,'".escape(a:dirname,'"\').'")'
  if g:netrw_retmap
   if !hasmapto("<Plug>NetrwReturn") && maparg("<2-leftmouse>","n") == ""
    nmap <unique> <silent> <2-leftmouse> <Plug>NetrwReturn
   endif
   let dir = escape(a:dirname, s:netrw_map_escape)
   exe 'nnoremap <silent> <Plug>NetrwReturn :call <SID>NetrwRexplore(0,'".dir.'")<cr>'
  endif
 endif
```

```
"  call Dret("s:SetRexDir")
endfun

" ---------------------------------------------------------------------
" s:Strlen: this function returns the length of a string, even if its {{{2
"           using two-byte etc characters.
"           Currently, its only used if g:Align_xstrlen is set to a
"           nonzero value.  Solution from Nicolai Weibull, vim docs
"           (:help strlen()), Tony Mechelynck, and my own invention.
fun! s:Strlen(x)
"  call Dfunc("s:Strlen(x<".a:x.">")
 if g:netrw_xstrlen == 1
  " number of codepoints (Latin a + combining circumflex is two codepoints)
  " (comment from TM, solution from NW)
  let ret= strlen(substitute(a:x,'.','c','g'))

 elseif g:netrw_xstrlen == 2
  " number of spacing codepoints (Latin a + combining circumflex is one spacing
  " codepoint; a hard tab is one; wide and narrow CJK are one each; etc.)
  " (comment from TM, solution from TM)
  let ret=strlen(substitute(a:x, '.\Z', 'x', 'g'))

 elseif g:netrw_xstrlen == 3
  " virtual length (counting, for instance, tabs as anything between 1 and
  " 'tabstop', wide CJK as 2 rather than 1, Arabic alif as zero when immediately
  " preceded by lam, one otherwise, etc.)
  " (comment from TM, solution from me)
  let modkeep= &mod
  exe "norm! o\<esc>"
  call setline(line("."),a:x)
  let ret= virtcol("$") - 1
  d
  let &mod= modkeep

 else
  " at least give a decent default
  ret= strlen(a:x)
 endif
"  call Dret("s:Strlen ".ret)
 return ret
endfun

" ---------------------------------------------------------------------
" s:TreeListMove: {{{2
fun! s:TreeListMove(dir)
"  call Dfunc("s:TreeListMove(dir<".a:dir.">)")
 let curline  = getline('.')
 let prvline  = (line(".") > 1)?         getline(line(".")-1) : ''
```

```
 let nxtline  = (line(".") < line("$"))? getline(line(".")+1) : ''
 let curindent= substitute(curline,'^\([| ]*\).\{-}$','\1','')
 let indentm1 = substitute(curindent,'^| ','','')
"  call Decho("prvline  <".prvline."> #".line(".")-1)
"  call Decho("curline  <".curline."> #".line("."))
"  call Decho("nxtline  <".nxtline."> #".line(".")+1)
"  call Decho("curindent<".curindent.">")
"  call Decho("indentm1 <".indentm1.">")

 if curline !~ '/$'
"   call Decho('regfile')
  if     a:dir == '[' && prvline != ''
   norm! 0
   let nl = search('^'.indentm1.'[^|]','bWe')    " search backwards from regular file
"    call Decho("regfile srch back: ".nl)
  elseif a:dir == ']' && nxtline != ''
   norm! $
   let nl = search('^'.indentm1.'[^|]','We')     " search forwards from regular file
"    call Decho("regfile srch fwd: ".nl)
  endif

 elseif a:dir == '[' && prvline != ''
  norm! 0
  let curline= line(".")
  let nl     = search('^'.curindent.'[^|]','bWe') " search backwards From directory, same indentation
"   call Decho("dir srch back ind: ".nl)
  if nl != 0
   if line(".") == curline-1
    let nl= search('^'.indentm1.'[^|]','bWe')     " search backwards from directory, indentation - 1
"     call Decho("dir srch back ind-1: ".nl)
   endif
  endif

 elseif a:dir == ']' && nxtline != ''
  norm! $
  let curline = line(".")
  let nl      = search('^'.curindent.'[^|]','We') " search forwards from directory, same indentation
"   call Decho("dir srch fwd ind: ".nl)
  if nl != 0
   if line(".") == curline+1
    let nl= search('^'.indentm1.'[^|]','We')         " search forwards from directory, indentation - 1
"     call Decho("dir srch fwd ind-1: ".nl)
   endif
  endif

 endif

"  call Dret("s:TreeListMove")
```

```
endfun

" ---------------------------------------------------------------------
" s:UpdateBuffersMenu: does emenu Buffers.Refresh (but due to locale, the menu item may not be called that) {{{2
"                      The Buffers.Refresh menu calls s:BMShow(); unfortunately, that means that that function
"                      can't be called except via emenu.  But due to locale, that menu line may not be called
"                      Buffers.Refresh; hence, s:NetrwBMShow() utilizes a "cheat" to call that function anyway.
fun! s:UpdateBuffersMenu()
"  call Dfunc("s:UpdateBuffersMenu()")
 if has("gui") && has("menu") && has("gui_running") && &go =~ 'm'
  try
   silent emenu Buffers.Refresh\ menu
  catch /^Vim\%((\a\+)\)\=:E/
   let v:errmsg= ""
   silent call s:NetrwBMShow()
  endtry
 endif
"  call Dret("s:UpdateBuffersMenu")
endfun

" ---------------------------------------------------------------------
" s:UseBufWinVars: (used by NetrwBrowse() and LocalBrowseCheck() {{{2
"              Matching function to BufferWinVars()
fun! s:UseBufWinVars()
"  call Dfunc("s:UseBufWinVars()")
 if exists("b:netrw_liststyle")       && !exists("w:netrw_liststyle")      |let w:netrw_liststyle       = b:netrw_liststyle
|endif
 if exists("b:netrw_bannercnt")       && !exists("w:netrw_bannercnt")      |let w:netrw_bannercnt       =
b:netrw_bannercnt      |endif
 if exists("b:netrw_method")          && !exists("w:netrw_method")         |let w:netrw_method          =
b:netrw_method         |endif
 if exists("b:netrw_prvdir")          && !exists("w:netrw_prvdir")         |let w:netrw_prvdir          = b:netrw_prvdir
|endif
 if exists("b:netrw_explore_indx")    && !exists("w:netrw_explore_indx")   |let w:netrw_explore_indx    =
b:netrw_explore_indx   |endif
 if exists("b:netrw_explore_listlen") && !exists("w:netrw_explore_listlen")|let w:netrw_explore_listlen =
b:netrw_explore_listlen|endif
 if exists("b:netrw_explore_mtchcnt") && !exists("w:netrw_explore_mtchcnt")|let w:netrw_explore_mtchcnt =
b:netrw_explore_mtchcnt|endif
 if exists("b:netrw_explore_bufnr")   && !exists("w:netrw_explore_bufnr")  |let w:netrw_explore_bufnr   =
b:netrw_explore_bufnr  |endif
 if exists("b:netrw_explore_line")    && !exists("w:netrw_explore_line")   |let w:netrw_explore_line    =
b:netrw_explore_line   |endif
 if exists("b:netrw_explore_list")    && !exists("w:netrw_explore_list")   |let w:netrw_explore_list    =
b:netrw_explore_list   |endif
"  call Dret("s:UseBufWinVars")
endfun
```

```
" ---------------------------------------------------------------------
" s:WinPath: {{{2
fun! s:WinPath(path)
"  call Dfunc("s:WinPath(path<".a:path.">)")
 if !g:netrw_cygwin && (has("win32") || has("win95") || has("win64") || has("win16"))
  " remove trailing slash (Win95)
  let path = substitute(a:path, '\(\\\|/\)$', '', 'g')
  " remove escaped spaces
  let path = substitute(path, '\ ', ' ', 'g')
  " convert slashes to backslashes
  let path = substitute(path, '/', '\', 'g')
 else
  let path= a:path
 endif
"  call Dret("s:WinPath <".path.">")
 return path
endfun

" ---------------------------------------------------------------------
" Settings Restoration: {{{2
let &cpo= s:keepcpo
unlet s:keepcpo

" ---------------------------------------------------------------------
" Modelines: {{{1
" vim:ts=8 fdm=marker
en_US
20040623 release.
--
This dictionary is based on a subset of the original
English wordlist created by Kevin Atkinson for Pspell
and  Aspell and thus is covered by his original
LGPL license.  The affix file is a heavily modified
version of the original english.aff file which was
released as part of Geoff Kuenning's Ispell and as
such is covered by his BSD license.

Thanks to both authors for there wonderful work.


================================================
en_AU:
This dictionary was based on the en_GB Myspell dictionary
which in turn was initially based on a subset of the
original English wordlist created by Kevin Atkinson for
Pspell and  Aspell and thus is covered by his original
LGPL licence.
```

The credit for this en_AU dictionary goes to:

Kelvin Eldridge (maintainer)
Jean Hollis Weber
David Wilson

- Words incorrect in Australian English removed
- a list from the previously removed words with corrected spelling was added
- a list of major rivers was added
- a list of place names was added
- a list of Australian mammals was added
- a list of Aboriginal/Koori words commonly used was added

A total of 119,267 words are now recognized
by the dictionary.

Of course, special thanks go to the editors of the
en_GB dictionary (David Bartlett, Brian Kelk and
Andrew Brown) which provided the starting point
for this dictionary.

The affix file is currently a duplicate of the en_AU.aff
created completely from scratch by David Bartlett and
Andrew Brown, based on the published
rules for MySpell and is also provided under the LGPL.

If you find omissions or bugs or have new words to
add to the dictionary, please contact the en_AU
maintainer at:

"Kelvin" <audictionary@onlineconnections.com.au>

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en_CA:
The dictionary file was created using the "final" English and Canadian SCOWL (Spell Checker Oriented Word Lists) wordlists available at Kevin's Word Lists Page (http://wordlist.sourceforge.net). Lists with the suffixes 10, 20, 35, 50, 65 and 65 were used. Lists with the suffixes 70, 80 and 95 were excluded. Copyright information for SCOWL and the wordlists used in creating it is reproduced below.

The affix file is identical to the MySpell English (United States) affix file. It is a heavily modified version of the original english.aff file which was released as part of Geoff Kuenning's Ispell and as such is covered by his BSD license.

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

The MWords package was explicitly placed in the public domain:

The Moby lexicon project is complete and has been place into the public domain. Use, sell, rework, excerpt and use in any way on any platform.

Placing this material on internal or public servers is also encouraged. The compiler is not aware of any export restrictions so freely distribute world-wide.

You can verify the public domain status by contacting

Grady Ward
3449 Martha Ct.
Arcata, CA 95521-4884

grady@netcom.com
grady@northcoast.com

The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

> I was wondering what the copyright status of your "UK English
> Wordlist With Frequency Classification" word list as it seems to
> be lacking any copyright notice.

There were many many sources in total, but any text marked "copyright" was avoided. Locally-written documentation was one source. An earlier version of the list resided in a filespace called PUBLIC on the University mainframe, because it was considered public domain.

Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

The 35 level includes frequency classes 2-6 and words appearing in at least 11 of 12 dictionaries as indicated in the 12Dicts package. All words from the 12Dicts package have had likely inflections added via my inflection database.

The 12Dicts package and Supplement is in the Public Domain.

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The 50 level includes Brian's frequency class 1, words words appearing in at least 5 of 12 of the dictionaries as indicated in the 12Dicts package, and uppercase words in at least 4 of the previous 12 dictionaries. A decent number of proper names is also included: The top 1000 male, female, and Last names from the 1990 Census report; a list of names sent to me by Alan Beale; and a few names that I added myself. Finally a small list of abbreviations not commonly found in other word lists is included.

The name files form the Census report is a government document which I don't think can be copyrighted.

The name list from Alan Beale is also derived from the linux words list, which is derived from the DEC list. He also added a bunch of miscellaneous names to the list, which he released to the Public Domain.

The DEC Word list doesn't have a formal name. It is labeled as "FILE: english.words; VERSION: DEC-SRC-92-04-05" and was put together by Jorge Stolfi <stolfi@src.dec.com> DEC Systems Research Center. The DEC Word list has the following copyright statement:

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To the best of my knowledge, all the files I used to build these wordlists were available for public distribution and use, at least for non-commercial purposes. I have confirmed this assumption with the authors of the lists, whenever they were known.

Therefore, it is safe to assume that the wordlists in this package can also be freely copied, distributed, modified, and used for personal, educational, and research purposes. (Use of these files in commercial products may require written permission from DEC and/or the authors of the original lists.)

Whenever you distribute any of these wordlists, please distribute
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file with a note explaining your modifications. Your users will
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However since this Word List is used in the linux.words package which
the author claims is free of any copyright I assume it is OK to use
for most purposes. If you want to use this in a commercial project
and this concerns you the information from the DEC word list can
easily be removed without much sacrifice in quality as only the name
lists were used.

The file special-jargon.50 uses common.lst and word.lst from the
"Unofficial Jargon File Word Lists" which is derived from "The Jargon
File". All of which is in the Public Domain. This file also contain
a few extra UNIX terms which are found in the file "unix-terms" in the
special/ directory.

The 60 level includes Brian's frequency class 0 and all words
appearing in at least 2 of the 12 dictionaries as indicated by the
12Dicts package. A large number of names are also included: The 4,946
female names and 3,897 male names from the MWords package and the
files "computer.names", "misc.names", and "org.names" from the DEC
package.

The 65 level includes words found in the Ispell "medium" word list.
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POSSIBILITY OF SUCH DAMAGE.

The 70 level includes the 74,550 common dictionary words and the 21,986 names
list from the MWords package. The common dictionary words, like those
from the 12Dicts package, have had all likely inflections added.

The 80 level includes the ENABLE word list, all the lists in the
ENABLE supplement package (except for ABLE), the "UK Advanced Cryptics
Dictionary" (UKACD), the list of signature words in from YAWL package,
and the 10,196 places list from the MWords package.

The ENABLE package, mainted by M\Cooper <thegrendel@theriver.com>,
is in the Public Domain:

The ENABLE master word list, WORD.LST, is herewith formally released
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must contribute something for your own peace of mind, the authors of
the ENABLE list ask that you make a donation on their behalf to your
favorite charity). This word list is our gift to the Scrabble

community, as an alternate to "official" word lists. Game designers
may feel free to incorporate the WORD.LST into their games. Please
mention the source and credit us as originators of the list. Note
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verbatim.

There are no other restrictions: I would like to see the list
distributed as widely as possible.

The 95 level includes the 354,984 single words and 256,772 compound
words from the MWords package, ABLE.LST from the ENABLE Supplement,
and some additional words found in my part-of-speech database that
were not found anywhere else.

Accent information was taken from UKACD.

My VARCON package was used to create the American, British, and
Canadian word list.

Since the original word lists used used in the
VARCON package came from the Ispell distribution they are under the
Ispell copyright.

The variant word lists were created from a list of variants found in
the 12dicts supplement package as well as a list of variants I created
myself.

==========

en_GB:
This dictionary was initially based on a subset of the
original English wordlist created by Kevin Atkinson for

Pspell and Aspell and thus is covered by his original
LGPL licence.

It has been extensively updated by David Bartlett, Brian Kelk
and Andrew Brown:
- numerous Americanism have been removed
- numerous American spellings have been corrected
- missing words have been added
- many errors have been corrected
- compound hyphenated words have been added where appropriate

Valuable inputs to this process were received from many other
people - far too numerous to name. Serious thanks to you all
for your greatly appreciated help.

This word list is intended to be a good representation of
current modern British English and thus it should be a good
basis for Commonwealth English in most countries of the world
outside North America.

The affix file has been created completely from scratch
by David Bartlett and Andrew Brown, based on the published
rules for MySpell and is also provided under the LGPL.

In creating the affix rules an attempt has been made to
reproduce the most general rules for English word
formation, rather than merely use it as a means to
compress the size of the dictionary. It is hoped that this
will facilitate future localisation to other variants of
English.

Please let David Bartlett <dwb@openoffice.org> know of any
errors that you find.

The current release is R 1.18, 11/04/05
==========
en_NZ:
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I. Copyright

NZ English Dictionary v0.9 beta - Build 06SEP03
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NB This is an initial version, please check:
http://lingucomponent.openoffice.org/download_dictionary.html
or
~~~~~~

http://www.girlza.com/dictionary/download.html
for a final version, after a little while (no hurry).

This dictionary is based on the en_GB Myspell dictionary
which in turn was initially based on a subset of the
original English wordlist created by Kevin Atkinson for
Pspell and Aspell and thus is covered by his original
LGPL licence.

Introduction
~~~~~~~~~~~~
en_NZ.dic has been altered to include New Zealand places,
including major cities and towns, and major suburbs. It
also contains NZ words, organisations and expressions.

en_NZ.aff has had a few REPlace strings added, but is
basically unchanged.

Acknowledgements
~~~~~~~~~~~~~~~~
Thanks must go to the original creators of the British
dictionary, David Bartlett, Brian Kelk and Andrew Brown.

I wouldn't have started this without seeing the Australian
dictionary, thanks Kelvin Eldridge, Jean Hollis Weber and
David Wilson.

And thank you to all who've contributed to OpenOffice.org.

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Issues
~~~~~~
Many of the proper nouns already in the dictionary do not have
an affix for 's.
All my new words start after the z's of the original dictionary.

Contact
~~~~~~~
Contact Tristan Burtenshaw (hooty@slingshot.co.nz) with any words,
~~~~~~~

places or other suggestions for the dictionary.

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Version 2.1, February 1999

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Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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