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1.6 Async.js 0.2.9

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1.7 atmel-firmware 1.3 :7.el6

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/*** -*- linux-c -*- **********

Firmware loader for Atmel at76c502 at76c504 and at76c506 wireless cards.

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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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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

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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.

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1.17 binutils 2.20.51.0.2

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++++++++++++++++

Dean Elsner wrote the original gas for vax. [more details?]

Jay Fenlason maintained gas for a while, adding support for gdb-specific debug information and the 68k series machines, most of the preprocessing pass, and extensive changes in messages.c, input-file.c, write.c.

K. Richard Pixley maintained gas for a while, adding various enhancements and many bug fixes, including merging support for several processors, breaking gas up to handle multiple object file format backends (including heavy rewrite, testing, an integration of the coff and b.out backends), adding configuration including heavy testing and verification of cross assemblers and file splits and renaming, converted gas to strictly ansi C including full prototypes, added support for m680[34]0 & cpu32, considerable work on i960 including a coff port (including considerable amounts of reverse engineering), a sparc opcode file rewrite, decstation, rs6000, and hp300hpux host ports, updated "know" assertions and made them work, much other reorganization, cleanup, and lint.

Ken Raeburn wrote the high-level BFD interface code to replace most of the code in format-specific I/O modules.

The original Vax-VMS support was contributed by David L. Kashtan. Eric Youngdale and Pat Rankin have done much work with it since.

The Intel 80386 machine description was written by Eliot Dresselhaus.

Minh Tran-Le at IntelliCorp contributed some AIX 386 support.

The Motorola 88k machine description was contributed by Devon Bowen of Buffalo University and Torbjorn Granlund of the Swedish Institute of Computer Science.

Keith Knowles at the Open Software Foundation wrote the original MIPS back end (tc-mips.c, tc-mips.h), and contributed Rose format support that hasn't been merged in yet. Ralph Campbell worked with the MIPS code to support a.out format.

Support for the Zilog Z8k and Hitachi H8/300, H8/500 and SH processors (tc-z8k, tc-h8300, tc-h8500, tc-sh), and IEEE 695 object file format (obj-ieee), was written by Steve Chamberlain of Cygnus Solutions. Steve also modified the COFF back end (obj-coffbfd) to use BFD for some low-level operations, for use with the Hitachi, 29k and Zilog targets.

John Gilmore built the AMD 29000 support, added .include support, and simplified the configuration of which versions accept which pseudo-ops. He updated the 68k machine description so that Motorola's

opcodes always produced fixed-size instructions (e.g. jsr), while synthetic instructions remained shrinkable (jbsr). John fixed many bugs, including true tested cross-compilation support, and one bug in relaxation that took a week and required the proverbial one-bit fix.

Ian Lance Taylor of Cygnus Solutions merged the Motorola and MIT syntaxes for the 68k, completed support for some COFF targets (68k, i386 SVR3, and SCO Unix), wrote the ECOFF support based on Michael Meissner's mips-tfile program, wrote the PowerPC and RS/6000 support, and made a few other minor patches. He handled the binutils releases for versions 2.7 through 2.9.

David Edelsohn contributed fixes for the PowerPC and AIX support.

Steve Chamberlain made gas able to generate listings.

Support for the HP9000/300 was contributed by Glenn Engel of HP.

Support for ELF format files has been worked on by Mark Eichin of Cygnus Solutions (original, incomplete implementation), Pete Hoogenboom at the University of Utah (HPPA mainly), Michael Meissner of the Open Software Foundation (i386 mainly), and Ken Raeburn of Cygnus Solutions (sparc, initial 64-bit support).

Several engineers at Cygnus Solutions have also provided many small bug fixes and configuration enhancements.

The initial Alpha support was contributed by Carnegie-Mellon University. Additional work was done by Ken Raeburn of Cygnus Solutions. Richard Henderson then rewrote much of the Alpha support.

Ian Dall updated the support code for the National Semiconductor 32000 series, and added support for Mach 3 and NetBSD running on the PC532.

Klaus Kaempf ported the assembler and the binutils to openVMS/Alpha.

Steve Haworth contributed the support for the Texas Instruction c30 (tms320c30).

H.J. Lu has contributed many patches and much testing.

Alan Modra reworked much of the i386 backend, improving the error checking, updating the code, and improving the 16 bit support, using patches from the work of Martynas Kunigelis and H.J. Lu.

Many others have contributed large or small bugfixes and enhancements. If you've contributed significant work and are not mentioned on this list, and want to be, let us know. Some of the history has been lost; we aren't

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--- end ---

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1.20 busybox 1.15.1

1.21 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

1.22 c-ares19 1.9.1 :(18 Jun 2012)

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Written by Gordon Matzigkeit <gord@gnu.ai.mit.edu>, 1996

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1.23 ca-certificates/certdata.txt 2014.1.98 :65.1.el6

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1.33 coreutils 8.4

1.34 cpio 2.10 :12.el6_5

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Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

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

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Lesser General Public License for more details.

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/usr/share/common-licenses/LGPL-2.1 in the Debian GNU/Linux
distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

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

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> Nathan Neulinger EMail: nneul@um...
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In any case, I thank you both for working on sorting this out.

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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...)

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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])
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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.

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Happy now? :-)

-a

1.36 cronie 1.4.4 :12.el6

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*
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1.37 crontabs 1.10 :33.el6

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1.38 cryptiles 0.2.2

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1.39 csf2g_boost_1.44-modified 1.44

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1.41 curl 7.19.7

1.42 cyrus-sasl 2.1.23

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.\"
.TH sasl_getsimple_t "10 July 2001" SASL "SASL man pages"
.SH NAME
sasl_getsimple_t \- The SASL callback for username/authname/realm
/* sample-server.c -- sample SASL server
* Rob Earhart
* $Id: sample-server.c,v 1.31 2004/10/26 11:14:34 mel Exp $
*/
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* Rob Earhart
* $Id: sample-client.c,v 1.31 2004/10/26 11:14:33 mel Exp $
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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found

from:

http://jackson.codehaus.org/

which also has links to support forums such as mailing lists, as well

as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

* Reading (parsing) and writing (generation) of Json content

* Data-binding (data-mapping, [de-]serialization) support to

allow for converting between Json and Java objects

* Support for converting to/from other data formats and access APIs,

to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made

to support other non-standard platforms as well.

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1.46 Data Mapper for Jackson 1.8.6

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1.50 device-mapper-multipath 0.4.9

1.51 dhcp 4.1.1

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This LDAP module was written by Brian Masney <masneyb@gftp.org>. Its
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#! /usr/bin/perl -w

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use strict;
use English;
use Time::HiRes qw(sleep);
use Socket;

```
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# do NOT add the Client Identifier (required by DOCSIS and RFC 3315)
#$msg->add_option($OPT_CLIENTID, dhcp_client::duid());

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
 my $option_data = pack("NNN", ++$iaid, 0, 0);
 $msg->add_option($OPT_IA_NA, $option_data);
}
```

```
# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));


# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 1; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
 $mrd_end_time = time() + $MRD;
}
```

```
my $reply_msg;
do {
 # create our socket, and send our Solicit
 socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
 my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
 my $packet = $msg->packet();
 my $send_ret = send(SOCK, $packet, 0,
       pack_sockaddr_in6($server_port, $addr));
 if (not defined($send_ret)) {
  printf STDERR
   "Error \%d sending DHCPv6 Solicit message;\n\%s\n",
   0+$ERRNO, $ERRNO;
  exit(1);
 } elsif ($send_ret != length($packet)) {
  print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
  exit(1);
 }
 $count++;

 my $RAND = rand(0.2) - 0.1;
 if (defined $RT) {
  $RT = 2*$RT + $RAND*$RT;
  if (($RT > $MRT) && ($MRT != 0)) {
   $RT = $MRT + $RAND*$RT;
  }
 } else {
  $RT = $IRT + $RAND*$IRT;
 }

 my $rt_end_time = time() + $RT;
 if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
  $rt_end_time = $mrd_end_time;
 }

 for (;;) {
  my $timeout = $rt_end_time - time();
  if ($timeout < 0) {
#   print STDERR "Timeout waiting for DHCPv6 Advertise ",
#    "or Reply message.\n";
   last;
  }

  my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

  if (@ready) {
   my $reply;
   my $recv_ret;
```

```
   $recv_ret = recv(SOCK, $reply, 1500, 0);
   if (not defined $recv_ret) {
    printf STDERR
     "Error \%d receiving DHCPv6 " .
      "message;\n\%s\n",
     0+$ERRNO, $ERRNO;
    exit(1);
   }

   $reply_msg = dhcp_client::msg::decode($reply);
   if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
       ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
   }
  }
 }

} until ($reply_msg ||
  (($MRC != 0) && ($count > $MRC)) ||
  (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
 if (($MRC != 0) && ($count >= $MRC)) {
  print STDERR
   "No reply after maximum retransmission count.\n";
 } else {
  print STDERR
   "No reply after maximum retransmission duration.\n";
 }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
 print "Got DHCPv6 Reply message.\n";
 exit(0);
}

#$Data::Dumper::Useqq = 1;
#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
```

```
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
$msg->add_option($OPT_CLIENTID, dhcp_client::duid());

# add the Server Identifier (NOT ALLOWED by DOCSIS and RFC 3315)
$msg->add_option($OPT_SERVERID, dhcp_client::duid());

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
 my $option_data = pack("NNN", ++$iaid, 0, 0);
 $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));


# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;
```

```
$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 1; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
 $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
 # create our socket, and send our Solicit
 socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
 my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
 my $packet = $msg->packet();
 my $send_ret = send(SOCK, $packet, 0,
      pack_sockaddr_in6($server_port, $addr));
 if (not defined($send_ret)) {
  printf STDERR
   "Error \%d sending DHCPv6 Solicit message;\n\%s\n",
   0+$ERRNO, $ERRNO;
  exit(1);
 } elsif ($send_ret != length($packet)) {
  print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
  exit(1);
 }
 $count++;

 my $RAND = rand(0.2) - 0.1;
 if (defined $RT) {
  $RT = 2*$RT + $RAND*$RT;
  if (($RT > $MRT) && ($MRT != 0)) {
   $RT = $MRT + $RAND*$RT;
  }
 } else {
```

```
 $RT = $IRT + $RAND*$IRT;
 }

 my $rt_end_time = time() + $RT;
 if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
  $rt_end_time = $mrd_end_time;
 }

 for (;;) {
  my $timeout = $rt_end_time - time();
  if ($timeout < 0) {
#   print STDERR "Timeout waiting for DHCPv6 Advertise ",
#    "or Reply message.\n";
   last;
  }

  my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

  if (@ready) {
   my $reply;
   my $recv_ret;

   $recv_ret = recv(SOCK, $reply, 1500, 0);
   if (not defined $recv_ret) {
    printf STDERR
     "Error \%d receiving DHCPv6 " .
      "message;\n\%s\n",
     0+$ERRNO, $ERRNO;
    exit(1);
   }

   $reply_msg = dhcp_client::msg::decode($reply);
   if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
       ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
   }
  }
 }

} until ($reply_msg ||
  (($MRC != 0) && ($count > $MRC)) ||
  (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
 if (($MRC != 0) && ($count >= $MRC)) {
  print STDERR
   "No reply after maximum retransmission count.\n";
 } else {
```

```
  print STDERR
   "No reply after maximum retransmission duration.\n";
 }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
 print "Got DHCPv6 Reply message.\n";
 exit(0);
}

#$Data::Dumper::Useqq = 1;
#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;
```

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# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
$msg->add_option($OPT_CLIENTID, dhcp_client::duid());

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
 my $option_data = pack("NNN", ++$iaid, 0, 0);
 $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));
```

```
# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 4; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
 $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
 # create our socket, and send our Solicit
 socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
 my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
 my $packet = $msg->packet();
 my $send_ret = send(SOCK, $packet, 0,
```

```
      pack_sockaddr_in6($server_port, $addr));
 if (not defined($send_ret)) {
  printf STDERR
   "Error \%d sending DHCPv6 Solicit message;\n\%s\n",
   0+$ERRNO, $ERRNO;
  exit(1);
 } elsif ($send_ret != length($packet)) {
  print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
  exit(1);
 }
 $count++;

 my $RAND = rand(0.2) - 0.1;
 if (defined $RT) {
  $RT = 2*$RT + $RAND*$RT;
  if (($RT > $MRT) && ($MRT != 0)) {
   $RT = $MRT + $RAND*$RT;
  }
 } else {
  $RT = $IRT + $RAND*$IRT;
 }

 my $rt_end_time = time() + $RT;
 if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
  $rt_end_time = $mrd_end_time;
 }

 for (;;) {
  my $timeout = $rt_end_time - time();
  if ($timeout < 0) {
#   print STDERR "Timeout waiting for DHCPv6 Advertise ",
#    "or Reply message.\n";
   last;
  }

  my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

  if (@ready) {
   my $reply;
   my $recv_ret;

   $recv_ret = recv(SOCK, $reply, 1500, 0);
   if (not defined $recv_ret) {
    printf STDERR
     "Error \%d receiving DHCPv6 " .
      "message;\n\%s\n",
     0+$ERRNO, $ERRNO;
    exit(1);
```

```
   }

   $reply_msg = dhcp_client::msg::decode($reply, 1);
   if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
       ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
   }
  }
 }

} until ($reply_msg ||
  (($MRC != 0) && ($count > $MRC)) ||
  (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
 if (($MRC != 0) && ($count >= $MRC)) {
  print STDERR
   "No reply after maximum retransmission count.\n";
 } else {
  print STDERR
   "No reply after maximum retransmission duration.\n";
 }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
 print "Got DHCPv6 Reply message.\n";
 exit(0);
}

#$Data::Dumper::Useqq = 1;
#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;
$Data::Dumper::Useqq = 1;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
my $All_DHCP_Relay_Agents_and_Servers = "ff02::1:2";
my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
```

```
my $client_id = "\x00\x01\x00\x01\x0c\x00\xa1\x41\x00\x06\x5b\x50\x99\xf6";
#my $client_id = dhcp_client::duid(3);
$msg->add_option($OPT_CLIENTID, $client_id);
#$msg->add_option($OPT_CLIENTID, dhcp_client::duid(3));

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
 my $option_data = pack("NNN", ++$iaid, 0, 0);
 my $enc_opt = dhcp_client::msg->new(0);
 $enc_opt->add_option($OPT_CLIENTID, $client_id);
 $option_data .= $enc_opt->packed_options();
 $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
```

```
$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 4; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
 $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
 # create our socket, and send our Solicit
 socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
 my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
 my $packet = $msg->packet();
 my $send_ret = send(SOCK, $packet, 0,
      pack_sockaddr_in6($server_port, $addr));
 if (not defined($send_ret)) {
  printf STDERR
   "Error \%d sending DHCPv6 Solicit message;\n\%s\n",
   0+$ERRNO, $ERRNO;
  exit(1);
 } elsif ($send_ret != length($packet)) {
  print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
  exit(1);
 }
 $count++;

 my $RAND = rand(0.2) - 0.1;
 if (defined $RT) {
  $RT = 2*$RT + $RAND*$RT;
  if (($RT > $MRT) && ($MRT != 0)) {
   $RT = $MRT + $RAND*$RT;
  }
 } else {
  $RT = $IRT + $RAND*$IRT;
 }

 my $rt_end_time = time() + $RT;
```

```
 if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
  $rt_end_time = $mrd_end_time;
 }

 for (;;) {
  my $timeout = $rt_end_time - time();
  if ($timeout < 0) {
#   print STDERR "Timeout waiting for DHCPv6 Advertise ",
#    "or Reply message.\n";
   last;
  }

  my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

  if (@ready) {
   my $reply;
   my $recv_ret;

   $recv_ret = recv(SOCK, $reply, 1500, 0);
   if (not defined $recv_ret) {
    printf STDERR
     "Error \%d receiving DHCPv6 " .
      "message;\n\%s\n",
     0+$ERRNO, $ERRNO;
    exit(1);
   }

   $reply_msg = dhcp_client::msg::decode($reply, 1);
   if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
       ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
   }
  }
 }

} until ($reply_msg ||
  (($MRC != 0) && ($count > $MRC)) ||
  (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
 if (($MRC != 0) && ($count >= $MRC)) {
  print STDERR
   "No reply after maximum retransmission count.\n";
 } else {
  print STDERR
   "No reply after maximum retransmission duration.\n";
 }
}
```

```
if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
 print "Got DHCPv6 Reply message.\n";
#print Dumper($reply_msg), "\n";
 exit(0);
}

#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
#! /usr/bin/perl -w

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use strict;
use English;
use Time::HiRes qw( sleep );
use Socket;
use Socket6;
use IO::Select;

use dhcp_client;

# XXX: for debugging
use Data::Dumper;
$Data::Dumper::Useqq = 1;

# not-yet-standard options
my $OPT_TIME_SERVERS = 40;
```

```
my $OPT_TIME_OFFSET = 41;

# DOCSIS sub-options
my $DOCSIS_OPT_ORO = 1;
# 2 to 31 are reserved
my $DOCSIS_OPT_TFTP_SERVERS = 32;
my $DOCSIS_OPT_CONFIG_FILE_NAME = 33;
my $DOCSIS_OPT_SYSLOG_SERVERS = 34;
my $DOCSIS_OPT_TLV5 = 35;
my $DOCSIS_OPT_DEVICE_ID = 36;
my $DOCSIS_OPT_CCC = 37;
my $DOCSIS_OPT_VERS = 38;

# well-known addresses
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my $All_DHCP_Servers = "ff05::1:3";

# ports
my $client_port = 546;
my $server_port = 547;

# create a new Solicit message
my $msg = dhcp_client::msg->new($MSG_SOLICIT);

# add the Client Identifier (required by DOCSIS and RFC 3315)
my $client_id = "\x00\x01\x00\x01\x0c\x00\xa1\x41\x00\x06\x5b\x50\x99\xf6";
#my $client_id = dhcp_client::duid(3);
$msg->add_option($OPT_CLIENTID, $client_id);
#$msg->add_option($OPT_CLIENTID, dhcp_client::duid(3));

# add Elapsed Time, set to 0 on first packet (required by RFC 3315)
$msg->add_option($OPT_ELAPSED_TIME, "\x00\x00");

# add IA_NA for each interface (required by DOCSIS and RFC 3315)
# XXX: should this be a single interface only?
my $iaid = 0;
foreach my $iface (dhcp_client::iface()) {
 my $option_data = pack("NNN", ++$iaid, 0, 0);
 my $enc_opt = dhcp_client::msg->new(0);
 $enc_opt->add_option($OPT_CLIENTID, $client_id);
 $option_data .= $enc_opt->packed_options();
 $msg->add_option($OPT_IA_NA, $option_data);
}

# add Reconfigure Accept (required by DOCSIS)
$msg->add_option($OPT_RECONF_ACCEPT, "");

# add Options Request (required by DOCSIS, recommended by RFC 3315)
```

```
my @oro = ( $OPT_TIME_SERVERS, $OPT_TIME_OFFSET );
$msg->add_option($OPT_ORO, pack("n*", @oro));

# add Vendor Class option (required by DOCSIS)
$msg->add_option($OPT_VENDOR_CLASS, pack("N", 4491) . "docsis3.0");

# add Vendor-specific Information Option option (required by DOCSIS)
my $vsio = pack("N", 4491);

# ORO (required by DOCSIS)
my @docsis_oro = ( $DOCSIS_OPT_TFTP_SERVERS );
$vsio .= pack("nnC*", $DOCSIS_OPT_ORO, 0+@docsis_oro, @docsis_oro);

# TLV5 data: CMTS DOCSIS version number 3.0 (required by DOCSIS)
my $tlv5_data = "\x01\x02\x03\x0";
$vsio .= pack("nn", $DOCSIS_OPT_TLV5, length($tlv5_data)) . $tlv5_data;

# DOCSIS Device (required by DOCSIS)
my $docsis_device_id = dhcp_client::mac_addr_binary();
$vsio .= pack("nn", $DOCSIS_OPT_DEVICE_ID, length($docsis_device_id));
$vsio .= $docsis_device_id;

$msg->add_option($OPT_VENDOR_OPTS, $vsio);

# add Rapid Commit option (required by DOCSIS)
#$msg->add_option($OPT_RAPID_COMMIT, "");

# timeout parameters, from DOCSIS
my $IRT = $SOL_TIMEOUT;
my $MRT = $SOL_MAX_RT;
my $MRC = 4; # DOCSIS says 4, RFC 3315 says it SHOULD be 0
my $MRD = 0;

# sleep a random amount of time between 0 and 1 second, required by RFC 3315
# XXX: this seems pretty stupid
sleep(rand($SOL_MAX_DELAY));

my $RT;
my $count = 0;
my $mrd_end_time;
if ($MRD != 0) {
 $mrd_end_time = time() + $MRD;
}
my $reply_msg;
do {
 # create our socket, and send our Solicit
 socket(SOCK, PF_INET6, SOCK_DGRAM, getprotobyname('udp')) || die;
 my $addr = inet_pton(AF_INET6, $All_DHCP_Servers);
```

```
my $packet = $msg->packet();
my $send_ret = send(SOCK, $packet, 0,
      pack_sockaddr_in6($server_port, $addr));
if (not defined($send_ret)) {
 printf STDERR
  "Error \%d sending DHCPv6 Solicit message;\n\%s\n",
  0+$ERRNO, $ERRNO;
 exit(1);
} elsif ($send_ret != length($packet)) {
 print STDERR "Unable to send entire DHCPv6 Solicit message.\n";
 exit(1);
}
$count++;

my $RAND = rand(0.2) - 0.1;
if (defined $RT) {
 $RT = 2*$RT + $RAND*$RT;
 if (($RT > $MRT) && ($MRT != 0)) {
  $RT = $MRT + $RAND*$RT;
 }
} else {
 $RT = $IRT + $RAND*$IRT;
}

my $rt_end_time = time() + $RT;
if (defined($mrd_end_time) && ($mrd_end_time > $rt_end_time)) {
 $rt_end_time = $mrd_end_time;
}

for (;;) {
 my $timeout = $rt_end_time - time();
 if ($timeout < 0) {
#   print STDERR "Timeout waiting for DHCPv6 Advertise ",
#    "or Reply message.\n";
  last;
 }

 my @ready = IO::Select->new(\*SOCK)->can_read($timeout);

 if (@ready) {
  my $reply;
  my $recv_ret;

  $recv_ret = recv(SOCK, $reply, 1500, 0);
  if (not defined $recv_ret) {
   printf STDERR
    "Error \%d receiving DHCPv6 " .
     "message;\n\%s\n",
```

```
    0+$ERRNO, $ERRNO;
    exit(1);
   }

   $reply_msg = dhcp_client::msg::decode($reply, 1);
   if (($reply_msg->{msg_type} == $MSG_ADVERTISE) ||
       ($reply_msg->{msg_type} == $MSG_REPLY)) {
        last;
   }
  }
 }

} until ($reply_msg ||
  (($MRC != 0) && ($count > $MRC)) ||
  (defined($mrd_end_time) && ($mrd_end_time > time())));

unless ($reply_msg) {
 if (($MRC != 0) && ($count >= $MRC)) {
  print STDERR
   "No reply after maximum retransmission count.\n";
 } else {
  print STDERR
   "No reply after maximum retransmission duration.\n";
 }
}

if ($reply_msg && ($reply_msg->{msg_type} == $MSG_REPLY)) {
 print "Got DHCPv6 Reply message.\n";
#print Dumper($reply_msg), "\n";
 exit(0);
}

#print Dumper($msg), "\n";
#print Dumper($msg->packet()), "\n";
#
#print "packet length: ", length($msg->packet()), "\n";
```

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1.56 e2fsprogs 1.41.12

1.57 efibootmgr 0.5.4

1.58 elfutils 0.158

1.59 ethtool 3.5

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1.62 file 5.04

1.63 findutils 4.4.2 :6.el6

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1.69 gamin 0.1.10 :9.el6

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#
This script attempts to guess a canonical system name similar to
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#
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1.70 gawk 3.1.7 :10.el6

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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.

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1.71 gcc 4.4.7 :2012-03-13 Release Manager

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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

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That's all there is to it!

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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1.72 gdbm 1.8.0 :36.el6

1.72.1 Available under license :

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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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#
# 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
```

1.73 giflib 4.1.6 :3.1.el6

1.73.1 Available under license :

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1.74 glib 2.27.1

1.75 glib2 2.28.8

1.76 glibc 2.12 :2010-05-03 Ulrich Drepper

1.76.1 Available under license :

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1.77 glibc_patch_GPLv2 2.12 :2010-05-03 Ulrich Drepper

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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:

1.79 gnupg2 2.0.14

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1.82 grep 2.6.3

1.83 groff 1.18.1.4 :21.el6

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1.88 gstreamer-plugins-bad 0.10.22.1

1.89 gstreamer-plugins-base 0.10.35.1

1.90 gstreamer-plugins-good 0.10.30.1

1.91 gzip 1.3.12

1.92 handlebars.js 1.0.0

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1.102 iptables 1.4.7

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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.

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== Jackson Json-processor ==

This is the Jackson Json-processor package. Project home page can be found
from:

http://jackson.codehaus.org/

which also has links to support forums such as mailing lists, as well
as links to obtain source code and binary artifacts.

=== Functionality ===

Jackson implements functionality for:

* Reading (parsing) and writing (generation) of Json content
* Data-binding (data-mapping, [de-]serialization) support to
allow for converting between Json and Java objects
* Support for converting to/from other data formats and access APIs,
to improve interoperability.

=== Requirements ===

Jackson can be used on standard J2SE 1.5 platform. Some effort is made
to support other non-standard platforms as well.

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1.118 JAXB API bundle for GlassFish V3 2.2.2

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*/
package com.sun.jersey.server.impl;

import java.io.InputStream;
import java.util.Properties;

/**
*
* @author Paul.Sandoz@Sun.Com
*/
public final class BuildId {
  private static String buildId = _initiateBuildId();

  private static String _initiateBuildId() {
    String id = "Jersey";

    final InputStream in = getIntputStream();
    if (in != null) {
      try {
        Properties p = new Properties();
        p.load(in);
        String _id = p.getProperty("Build-Id");
        if (_id != null)
          id = id + ": " + _id;
      } catch (Exception e){
```

```
            // Ignore
        } finally {
            close(in);
        }
    }
    return id;
}

private static void close(InputStream in) {
    try {
        in.close();
    } catch (Exception ex) {
        // Ignore
    }
}

private static InputStream getIntputStream() {
    try {
        return BuildId.class.getResourceAsStream("build.properties");
    } catch (Exception ex) {
        return null;
    }
}

public static final String getBuildId() {
    return buildId;
}
}
```

1.125 jersey-json 1.16

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1.127 jettison 1.1

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1.136 keyutils 1.4

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\par
Appreciation Time!!!! There are far too many people to try to thank them all; many people have contributed to the development of Kerberos V5. This is only a partial listing....\par
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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
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
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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
@end smallexample

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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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lib/gssapi/mechglue/g_compare_name.c
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lib/gssapi/mechglue/g_dup_name.c
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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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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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```

```
*/

#include "krb5.h"
#include <stdio.h>
#include <string.h>

extern int optind;
extern char *optarg;

static char *prog;

static void
xusage(void)
{
  fprintf(stderr, "xusage: %s [-c ccache]\n", prog);
  exit(1);
}

void
main(
  int argc,
  char *argv[]
  )
{
  krb5_context kcontext;
  krb5_error_code code;
  krb5_ccache ccache=NULL;
  krb5_ccache mslsa_ccache=NULL;
  krb5_cc_cursor cursor;
  krb5_creds creds;
  krb5_principal princ;
  int initial_ticket = 0;
  int option;
  char * ccachestr = 0;

  prog = strrchr(argv[0], '/');
  prog = prog ? (prog + 1) : argv[0];

  while ((option = getopt(argc, argv, "c:h")) != -1) {
     switch (option) {
     case 'c':
        ccachestr = optarg;
        break;
     case 'h':
     default:
        xusage();
        break;
     }
```

```
}

if (code = krb5_init_context(&kcontext)) {
    com_err(argv[0], code, "while initializing kerberos library");
    exit(1);
}

if (code = krb5_cc_resolve(kcontext, "MSLSA:", &mslsa_ccache)) {
    com_err(argv[0], code, "while opening MS LSA ccache");
    krb5_free_context(kcontext);
    exit(1);
}

if (code = krb5_cc_set_flags(kcontext, mslsa_ccache, KRB5_TC_NOTICKET)) {
    com_err(argv[0], code, "while setting KRB5_TC_NOTICKET flag");
    krb5_cc_close(kcontext, mslsa_ccache);
    krb5_free_context(kcontext);
    exit(1);
}

/* Enumerate tickets from cache looking for an initial ticket */
if ((code = krb5_cc_start_seq_get(kcontext, mslsa_ccache, &cursor))) {
    com_err(argv[0], code, "while initiating the cred sequence of MS LSA ccache");
    krb5_cc_close(kcontext, mslsa_ccache);
    krb5_free_context(kcontext);
    exit(1);
}

while (!(code = krb5_cc_next_cred(kcontext, mslsa_ccache, &cursor, &creds)))
{
    if ( creds.ticket_flags & TKT_FLG_INITIAL ) {
        krb5_free_cred_contents(kcontext, &creds);
        initial_ticket = 1;
        break;
    }
    krb5_free_cred_contents(kcontext, &creds);
}
krb5_cc_end_seq_get(kcontext, mslsa_ccache, &cursor);

if (code = krb5_cc_set_flags(kcontext, mslsa_ccache, 0)) {
    com_err(argv[0], code, "while clearing flags");
    krb5_cc_close(kcontext, mslsa_ccache);
    krb5_free_context(kcontext);
    exit(1);
}

if ( !initial_ticket ) {
    fprintf(stderr, "%s: Initial Ticket Getting Tickets are not available from the MS LSA\n",
```

```
            argv[0]);
        krb5_cc_close(kcontext, mslsa_ccache);
        krb5_free_context(kcontext);
        exit(1);
    }

    if (code = krb5_cc_get_principal(kcontext, mslsa_ccache, &princ)) {
        com_err(argv[0], code, "while obtaining MS LSA principal");
        krb5_cc_close(kcontext, mslsa_ccache);
        krb5_free_context(kcontext);
        exit(1);
    }

    if (ccachestr)
        code = krb5_cc_resolve(kcontext, ccachestr, &ccache);
    else
        code = krb5_cc_default(kcontext, &ccache);
    if (code) {
        com_err(argv[0], code, "while getting default ccache");
        krb5_free_principal(kcontext, princ);
        krb5_cc_close(kcontext, mslsa_ccache);
        krb5_free_context(kcontext);
        exit(1);
    }
    if (code = krb5_cc_initialize(kcontext, ccache, princ)) {
        com_err (argv[0], code, "when initializing ccache");
        krb5_free_principal(kcontext, princ);
        krb5_cc_close(kcontext, mslsa_ccache);
        krb5_cc_close(kcontext, ccache);
        krb5_free_context(kcontext);
        exit(1);
    }

    if (code = krb5_cc_copy_creds(kcontext, mslsa_ccache, ccache)) {
        com_err (argv[0], code, "while copying MS LSA ccache to default ccache");
        krb5_free_principal(kcontext, princ);
        krb5_cc_close(kcontext, ccache);
        krb5_cc_close(kcontext, mslsa_ccache);
        krb5_free_context(kcontext);
        exit(1);
    }

    krb5_free_principal(kcontext, princ);
    krb5_cc_close(kcontext, ccache);
    krb5_cc_close(kcontext, mslsa_ccache);
    krb5_free_context(kcontext);
    return(0);
}
```

```
/* windows/ms2mit/mit2ms.c */
/*
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*/

#include "krb5.h"
#include <stdio.h>
#include <string.h>

extern int optind;
extern char *optarg;

static char *prog;

static void
xusage(void)
{
  fprintf(stderr, "xusage: %s [-c ccache]\n", prog);
  exit(1);
}

void
main(
  int argc,
  char *argv[]
  )
{
  krb5_context kcontext;
```

```
krb5_error_code code;
krb5_ccache ccache=NULL;
krb5_ccache mslsa_ccache=NULL;
krb5_cc_cursor cursor;
krb5_creds creds;
krb5_principal princ;
int initial_ticket = 0;
int option;
char * ccachestr = 0;

prog = strrchr(argv[0], '/');
prog = prog ? (prog + 1) : argv[0];

while ((option = getopt(argc, argv, "c:h")) != -1) {
    switch (option) {
    case 'c':
        ccachestr = optarg;
        break;
    case 'h':
    default:
        xusage();
        break;
    }
}

if (code = krb5_init_context(&kcontext)) {
    com_err(argv[0], code, "while initializing kerberos library");
    exit(1);
}

if (ccachestr)
    code = krb5_cc_resolve(kcontext, ccachestr, &ccache);
else
    code = krb5_cc_default(kcontext, &ccache);
if (code) {
    com_err(argv[0], code, "while getting default ccache");
    krb5_free_principal(kcontext, princ);
    krb5_free_context(kcontext);
    exit(1);
}

/* Enumerate tickets from cache looking for an initial ticket */
if ((code = krb5_cc_start_seq_get(kcontext, ccache, &cursor))) {
    com_err(argv[0], code, "while initiating the cred sequence of MS LSA ccache");
    krb5_cc_close(kcontext, ccache);
    krb5_free_context(kcontext);
    exit(1);
}
```

```
while (!(code = krb5_cc_next_cred(kcontext, ccache, &cursor, &creds)))
{
   if ( creds.ticket_flags & TKT_FLG_INITIAL ) {
      krb5_free_cred_contents(kcontext, &creds);
      initial_ticket = 1;
      break;
   }
   krb5_free_cred_contents(kcontext, &creds);
}
krb5_cc_end_seq_get(kcontext, ccache, &cursor);

if ( !initial_ticket ) {
   fprintf(stderr, "%s: Initial Ticket Getting Tickets are not available from the MIT default cache\n",
         argv[0]);
   krb5_cc_close(kcontext, ccache);
   krb5_free_context(kcontext);
   exit(1);
}

if (code = krb5_cc_get_principal(kcontext, ccache, &princ)) {
   com_err(argv[0], code, "while obtaining default MIT principal");
   krb5_cc_close(kcontext, ccache);
   krb5_free_context(kcontext);
   exit(1);
}

if (code = krb5_cc_resolve(kcontext, "MSLSA:", &mslsa_ccache)) {
   com_err(argv[0], code, "while opening MS LSA ccache");
   krb5_cc_close(kcontext, ccache);
   krb5_free_context(kcontext);
   exit(1);
}

if (code = krb5_cc_copy_creds(kcontext, ccache, mslsa_ccache)) {
   com_err (argv[0], code, "while copying default MIT ccache to MSLSA ccache");
   krb5_free_principal(kcontext, princ);
   krb5_cc_close(kcontext, ccache);
   krb5_cc_close(kcontext, mslsa_ccache);
   krb5_free_context(kcontext);
   exit(1);
}

krb5_free_principal(kcontext, princ);
krb5_cc_close(kcontext, ccache);
krb5_cc_close(kcontext, mslsa_ccache);
krb5_free_context(kcontext);
return(0);
```

}
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>
<head>
 <meta http-equiv="Content-Type"
content="text/html; charset=Windows-1252">
 <title>Leash Copyright</title>
</head>
<body bgcolor="#ffffff" text="#000000">
<object type="application/x-oleobject"
classid="clsid:1e2a7bd0-dab9-11d0-b93a-00c04fc99f9e"> <param
name="Keyword" value="copyright, Leash">
</object>

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</body>
</html>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 Final//EN">
<html>

```
<head>
 <meta http-equiv="Content-Type"
content="text/html; charset=Windows-1252">
 <title>Kerberos Copyright</title>
</head>
<body bgcolor="#ffffff" text="#000000">
<object type="application/x-oleobject"
classid="clsid:1e2a7bd0-dab9-11d0-b93a-00c04fc99f9e"> <param
name="Keyword" value="copyright, kerberos">
</object>
<p></p>
<h1><a name="id_help_kcopyright"></a>Kerberos Copyright</h1>
<p></p>
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</body>
</html>
/* A Bison parser, made by GNU Bison 2.4.3.  */

/* Skeleton implementation for Bison's Yacc-like parsers in C

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```

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/* As a special exception, you may create a larger work that contains
part or all of the Bison parser skeleton and distribute that work
under terms of your choice, so long as that work isn't itself a
parser generator using the skeleton or a modified version thereof
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version 2.2 of Bison. */

/* C LALR(1) parser skeleton written by Richard Stallman, by
simplifying the original so-called "semantic" parser. */

/* All symbols defined below should begin with yy or YY, to avoid
infringing on user name space. This should be done even for local
variables, as they might otherwise be expanded by user macros.
There are some unavoidable exceptions within include files to
define necessary library symbols; they are noted "INFRINGES ON
USER NAME SPACE" below. */

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Version 3, 29 June 2007

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1.139 less 436

1.140 libasyncns 0.8 :1.1.el6

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1.141 libcap 2.16 :5.5.el6

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1.142 libcap-ng 0.6.4 :3.el6_0.1

1.142.1 Available under license :

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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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

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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.

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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.

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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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(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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1.153 libjpeg-turbo 1.2.1 :3.el6_5

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==========

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DOCUMENTATION ROADMAP
==========

This file contains the following sections:

OVERVIEW General description of JPEG and the IJG software.
LEGAL ISSUES Copyright, lack of warranty, terms of distribution.
REFERENCES Where to learn more about JPEG.
ARCHIVE LOCATIONS Where to find newer versions of this software.
FILE FORMAT WARS Software *not* to get.

TO DO Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:
install.txt How to configure and install the IJG software.
usage.txt Usage instructions for cjpeg, djpeg, jpegtran,
rdjpgcom, and wrjpgcom.
*.1 Unix-style man pages for programs (same info as usage.txt).
wizard.txt Advanced usage instructions for JPEG wizards only.
change.log Version-to-version change highlights.
Programmer and internal documentation:
libjpeg.txt How to use the JPEG library in your own programs.
example.c Sample code for calling the JPEG library.
structure.txt Overview of the JPEG library's internal structure.
filelist.txt Road map of IJG files.
coderules.txt Coding style rules --- please read if you contribute code.

Please read at least the files install.txt and usage.txt. Some information can also be found in the JPEG FAQ (Frequently Asked Questions) article. See ARCHIVE LOCATIONS below to find out where to obtain the FAQ article.

If you want to understand how the JPEG code works, we suggest reading one or more of the REFERENCES, then looking at the documentation files (in roughly the order listed) before diving into the code.

OVERVIEW
========

This package contains C software to implement JPEG image encoding, decoding, and transcoding. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG's strong suit is compressing photographic images or other types of images that have smooth color and brightness transitions between neighboring pixels. Images with sharp lines or other abrupt features may not compress well with JPEG, and a higher JPEG quality may have to be used to avoid visible compression artifacts with such images.

JPEG is lossy, meaning that the output pixels are not necessarily identical to the input pixels. However, on photographic content and other "smooth" images, very good compression ratios can be obtained with no visible compression artifacts, and extremely high compression ratios are possible if you are willing to sacrifice image quality (by reducing the "quality" setting in the compressor.)

This software implements JPEG baseline, extended-sequential, and progressive compression processes. Provision is made for supporting all variants of these

processes, although some uncommon parameter settings aren't implemented yet. We have made no provision for supporting the hierarchical or lossless processes defined in the standard.

We provide a set of library routines for reading and writing JPEG image files, plus two sample applications "cjpeg" and "djpeg", which use the library to perform conversion between JPEG and some other popular image file formats. The library is intended to be reused in other applications.

In order to support file conversion and viewing software, we have included considerable functionality beyond the bare JPEG coding/decoding capability; for example, the color quantization modules are not strictly part of JPEG decoding, but they are essential for output to colormapped file formats or colormapped displays. These extra functions can be compiled out of the library if not required for a particular application.

We have also included "jpegtran", a utility for lossless transcoding between different JPEG processes, and "rdjpgcom" and "wrjpgcom", two simple applications for inserting and extracting textual comments in JFIF files.

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.

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that you must include source code if you redistribute it. (See the file
ansi2knr.c for full details.) However, since ansi2knr.c is not needed as part
of any program generated from the IJG code, this does not limit you more than
the foregoing paragraphs do.

The Unix configuration script "configure" was produced with GNU Autoconf.
It is copyright by the Free Software Foundation but is freely distributable.
The same holds for its supporting scripts (config.guess, config.sub,
ltmain.sh). Another support script, install-sh, is copyright by X Consortium
but is also freely distributable.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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REFERENCES
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We recommend reading one or more of these references before trying to understand the innards of the JPEG software.

The best short technical introduction to the JPEG compression algorithm is
Wallace, Gregory K. "The JPEG Still Picture Compression Standard", Communications of the ACM, April 1991 (vol. 34 no. 4), pp. 30-44. (Adjacent articles in that issue discuss MPEG motion picture compression, applications of JPEG, and related topics.) If you don't have the CACM issue handy, a PostScript file containing a revised version of Wallace's article is available at http://www.ijg.org/files/wallace.ps.gz. The file (actually a preprint for an article that appeared in IEEE Trans. Consumer Electronics) omits the sample images that appeared in CACM, but it includes corrections and some added material. Note: the Wallace article is copyright ACM and IEEE, and it may not be used for commercial purposes.

A somewhat less technical, more leisurely introduction to JPEG can be found in "The Data Compression Book" by Mark Nelson and Jean-loup Gailly, published by M&T Books (New York), 2nd ed. 1996, ISBN 1-55851-434-1. This book provides good explanations and example C code for a multitude of compression methods including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...

The best currently available description of JPEG is the textbook "JPEG Still Image Data Compression Standard" by William B. Pennebaker and Joan L. Mitchell, published by Van Nostrand Reinhold, 1993, ISBN 0-442-01272-1. Price US$59.95, 638 pp. The book includes the complete text of the ISO JPEG standards (DIS 10918-1 and draft DIS 10918-2).

The original JPEG standard is divided into two parts, Part 1 being the actual

specification, while Part 2 covers compliance testing methods. Part 1 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 1: Requirements and guidelines" and has document numbers ISO/IEC IS 10918-1, ITU-T T.81. Part 2 is titled "Digital Compression and Coding of Continuous-tone Still Images, Part 2: Compliance testing" and has document numbers ISO/IEC IS 10918-2, ITU-T T.83.

The JPEG standard does not specify all details of an interchangeable file format. For the omitted details we follow the "JFIF" conventions, revision 1.02. JFIF 1.02 has been adopted as an Ecma International Technical Report and thus received a formal publication status. It is available as a free download in PDF format from http://www.ecma-international.org/publications/techreports/E-TR-098.htm. A PostScript version of the JFIF document is available at http://www.ijg.org/files/jfif.ps.gz. There is also a plain text version at http://www.ijg.org/files/jfif.txt.gz, but it is missing the figures.

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6). Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from http://www.ijg.org/files/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design. Although IJG's own code does not support TIFF/JPEG, the free libtiff library uses our library to implement TIFF/JPEG per the Note.

ARCHIVE LOCATIONS
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The "official" archive site for this software is www.ijg.org. The most recent released version can always be found there in directory "files". This particular version will be archived as http://www.ijg.org/files/jpegsrc.v8d.tar.gz, and in Windows-compatible "zip" archive format as http://www.ijg.org/files/jpegsr8d.zip.

The JPEG FAQ (Frequently Asked Questions) article is a source of some general information about JPEG.
It is available on the World Wide Web at http://www.faqs.org/faqs/jpeg-faq/ and other news.answers archive sites, including the official news.answers archive at rtfm.mit.edu: ftp://rtfm.mit.edu/pub/usenet/news.answers/jpeg-faq/.
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(In any case, our decoder will remain capable of reading existing JPEG image files indefinitely.)

TO DO
=====

Please send bug reports, offers of help, etc. to jpeg-info@jpegclub.org.

1.154 libnih 1.0.1 :7.el6

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1.155 libogg 1.1.4 :2.1.el6

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1.156 liboil 0.3.16.1

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1.157 libpciaccess 0.13.3

1.158 libpng 1.2.49 :1.el6_2

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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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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 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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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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1.162 libSM 1.2.1 :2.el6

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/* Note: This include file is only needed for using the
* publickey SUBSYSTEM which is not the same as publickey
* authentication.  For authentication you only need libssh2.h
*
* For more information on the publickey subsystem,
* refer to IETF draft: secsh-publickey
*/

#ifndef LIBSSH2_PUBLICKEY_H
#define LIBSSH2_PUBLICKEY_H 1

#include "libssh2.h"

typedef struct _LIBSSH2_PUBLICKEY              LIBSSH2_PUBLICKEY;

typedef struct _libssh2_publickey_attribute {
  const char *name;
  unsigned long name_len;
  const char *value;
  unsigned long value_len;
  char mandatory;
} libssh2_publickey_attribute;

typedef struct _libssh2_publickey_list {
  unsigned char *packet; /* For freeing */

  const unsigned char *name;
  unsigned long name_len;
```

```
  const unsigned char *blob;
  unsigned long blob_len;
  unsigned long num_attrs;
  libssh2_publickey_attribute *attrs; /* free me */
} libssh2_publickey_list;

/* Generally use the first macro here, but if both name and value are string literals, you can use _fast() to take
advantage of preprocessing */
#define libssh2_publickey_attribute(name, value, mandatory) \
 { (name), strlen(name), (value), strlen(value), (mandatory) },
#define libssh2_publickey_attribute_fast(name, value, mandatory) \
 { (name), sizeof(name) - 1, (value), sizeof(value) - 1, (mandatory) },

#ifdef __cplusplus
extern "C" {
#endif

/* Publickey Subsystem */
LIBSSH2_API LIBSSH2_PUBLICKEY *libssh2_publickey_init(LIBSSH2_SESSION *session);

LIBSSH2_API int libssh2_publickey_add_ex(LIBSSH2_PUBLICKEY *pkey,
                                         const unsigned char *name,
                                         unsigned long name_len,
                                         const unsigned char *blob,
                                         unsigned long blob_len, char overwrite,
                                         unsigned long num_attrs,
                                         const libssh2_publickey_attribute attrs[]);
#define libssh2_publickey_add(pkey, name, blob, blob_len, overwrite, \
                              num_attrs, attrs)                      \
 libssh2_publickey_add_ex((pkey), (name), strlen(name), (blob), (blob_len), \
                          (overwrite), (num_attrs), (attrs))

LIBSSH2_API int libssh2_publickey_remove_ex(LIBSSH2_PUBLICKEY *pkey,
                                            const unsigned char *name,
                                            unsigned long name_len,
                                            const unsigned char *blob,
                                            unsigned long blob_len);
#define libssh2_publickey_remove(pkey, name, blob, blob_len) \
 libssh2_publickey_remove_ex((pkey), (name), strlen(name), (blob), (blob_len))

LIBSSH2_API int
libssh2_publickey_list_fetch(LIBSSH2_PUBLICKEY *pkey,
                             unsigned long *num_keys,
                             libssh2_publickey_list **pkey_list);
LIBSSH2_API void libssh2_publickey_list_free(LIBSSH2_PUBLICKEY *pkey,
                                             libssh2_publickey_list *pkey_list);

LIBSSH2_API int libssh2_publickey_shutdown(LIBSSH2_PUBLICKEY *pkey);
```

```
#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* ifndef: LIBSSH2_PUBLICKEY_H */
```

1.165 libtasn1 2.3 :6.el6_5

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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 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.

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A "library" means a collection of software functions and/or data

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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.

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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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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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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we have made it clear that any patent must be licensed for everyone's
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Most GNU software, including some libraries, is covered by the ordinary
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license, the GNU Library General Public License, applies to certain
designated libraries. This license is quite different from the ordinary
one; be sure to read it in full, and don't assume that anything in it is
the same as in the ordinary license.

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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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.

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

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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.)

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1.171 libvorbis 1.2.3 :4.el6_2.1

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1.172 libX11 1.6.0

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py-compile - Compile a Python program

scriptversion=2005-05-14.22

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1.179 libxml2 2.9.1

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1.180 libxml2-2.7.7 2.7.7

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1.181 libXrender 0.9.7 :Jan 2 2012 Emanuele Giaquinta

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1.182 libXtst 1.2.2

1.183 log4cxx 0.10.0

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1.184 logrotate 3.7.8 :17.el6

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1.185 lsof 4.82 :4.el6

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1.188 lzo 2.03

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```
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```

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1.189 m4 1.4.13 :5.el6

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Version 3, 29 June 2007

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<one line to give the program's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1989
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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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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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:

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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.)

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.

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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.

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Appendix: How to Apply These Terms to Your New Libraries

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1.201 mysql-libs 5.1.73 :3.el6_5

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# Please send patches to <config-patches@gnu.org>.  Submit a context
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#
# This script attempts to guess a canonical system name similar to
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```

1.203 net-tools 1.60 :110.el6_2

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1.206 node-mime 1.2.9

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1.207 node-mkdirp 0.3.5

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1.208 nodejs 0.10.36

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
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FreeBSD 2.1.5
gcc 2.7.2.2

SSLeay 0.7.0 30-Jan-1997
built on Tue Apr 22 12:14:36 EST 1997
options:bn(64,32) md2(int) rc4(idx,int) des(ptr,risc1,16,long) idea(int) blowfish(ptr2)
C flags:gcc -DTERMIOS -D_ANSI_SOURCE -fomit-frame-pointer -O3 -m486 -Wall
The 'numbers' are in 1000s of bytes per second processed.

type	8 bytes	64 bytes	256 bytes	1024 bytes	8192 bytes
md2	130.99k	367.68k	499.09k	547.04k	566.50k
md5	1924.98k	8293.50k	13464.41k	16010.39k	16820.68k
sha	1250.75k	5330.43k	8636.88k	10227.36k	10779.14k
sha1	1071.55k	4572.50k	7459.98k	8791.96k	9341.61k
rc4	10724.22k	14546.25k	15240.18k	15259.50k	15265.63k
des cbc	3309.11k	3883.01k	3968.25k	3971.86k	3979.14k
des ede3	1442.98k	1548.33k	1562.48k	1562.00k	1563.33k
idea cbc	2195.69k	2506.39k	2529.59k	2545.66k	2546.54k
rc2 cbc	806.00k	833.52k	837.58k	838.52k	836.69k
blowfish cbc	4687.34k	5949.97k	6182.43k	6248.11k	6226.09k

rsa 512 bits 0.010s
rsa 1024 bits 0.045s
rsa 2048 bits 0.260s
rsa 4096 bits 1.690s
Motorolla 68020 20mhz, NetBSD

SSLeay 0.9.0t 29-May-1998
built on Fri Jun 5 12:42:23 EST 1998
options:bn(64,32) md2(char) rc4(idx,int) des(idx,cisc,16,long) idea(int) blowfish(idx)
C flags:gcc -DTERMIOS -O3 -fomit-frame-pointer -Wall -DB_ENDIAN
The 'numbers' are in 1000s of bytes per second processed.

```
type             8 bytes     64 bytes    256 bytes   1024 bytes   8192 bytes
md2              2176.00     5994.67     8079.73     8845.18      9077.01
mdc2             5730.67     6122.67     6167.66     6176.51      6174.87
md5              29.10k      127.31k     209.66k     250.50k      263.99k
hmac(md5)        12.33k      73.02k      160.17k     228.04k      261.15k
sha1             11.27k      49.37k      84.31k      102.40k      109.23k
rmd160           11.69k      48.62k      78.76k      93.15k       98.41k
rc4              117.96k     148.94k     152.57k     153.09k      152.92k
des cbc          27.13k      30.06k      30.38k      30.38k       30.53k
des ede3         10.51k      10.94k      11.01k      11.01k       11.01k
idea cbc         26.74k      29.23k      29.45k      29.60k       29.74k
rc2 cbc          34.27k      39.39k      40.03k      40.07k       40.16k
rc5-32/12 cbc    64.31k      83.18k      85.70k      86.70k       87.09k
blowfish cbc     48.86k      59.18k      60.07k      60.42k       60.78k
cast cbc         42.67k      50.01k      50.86k      51.20k       51.37k
                 sign    verify    sign/s verify/s
rsa  512 bits   0.7738s   0.0774s     1.3     12.9
rsa 1024 bits   4.3967s   0.2615s     0.2      3.8
rsa 2048 bits  29.5200s   0.9664s     0.0      1.0
                 sign    verify    sign/s verify/s
dsa  512 bits   0.7862s   0.9709s     1.3      1.0
dsa 1024 bits   2.5375s   3.1625s     0.4      0.3
dsa 2048 bits   9.2150s  11.8200s     0.1      0.1
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1.221 OpenSSL patch to 0.9.8 branch to add RFC5649 (key wrap with pad) 1.0

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```
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/* Written by Dr Stephen N Henson (steve@openssl.org) for the OpenSSL
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*/
```

1.222 ORBit2 2.14.17

1.223 p11-kit 0.18.5

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1.224 pam 1.1.1

1.225 passwd 0.77 :4.el6_2.2

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1.226 pciutils 3.1.10

1.227 pcre 7.8 :6.el6

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Written by: Philip Hazel
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1.228 perl 5.10.1

1.229 perl-URI 1.40 :2.el6

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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.

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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.)

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.)

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.

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.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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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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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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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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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.)

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1.233 plymouth 0.8.3

1.234 policycoreutils 2.0.83

1.235 popt 1.13 :7.el6

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1.236 postfix 2.6.6 :6.el6_5

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*/
```

1.237 procps 3.2.8

1.238 psmisc 22.6

1.239 pth 2.0.7 :9.3.el6

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```
____  _   _
|  _ \| |_| |__          "Ian Fleming was a UNIX fan!
| |_) | __| '_ \           How do I know? Well, James Bond
|  __/| |_| | | |         had the (license to kill) number 007,
|_|    \__|_| |_|          i.e., he could execute anyone!"
```

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1.240 pulseaudio 0.9.21

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-- Lennart Poettering, April 20th, 2006.

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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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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

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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.

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# Print a version string.
scriptversion=2008-04-08.07

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# This script is derived from GIT-VERSION-GEN from GIT: http://git.or.cz/.
# It may be run two ways:
# - from a git repository in which the "git describe" command below
#   produces useful output (thus requiring at least one signed tag)
# - from a non-git-repo directory containing a .tarball-version file, which
#   presumes this script is invoked like "./git-version-gen .tarball-version".

# In order to use intra-version strings in your project, you will need two
# separate generated version string files:
#
# .tarball-version - present only in a distribution tarball, and not in
#   a checked-out repository.  Created with contents that were learned at
#   the last time autoconf was run, and used by git-version-gen.  Must not
#   be present in either $(srcdir) or $(builddir) for git-version-gen to
#   give accurate answers during normal development with a checked out tree,
#   but must be present in a tarball when there is no version control system.
```

```
#   Therefore, it cannot be used in any dependencies.  GNUmakefile has
#   hooks to force a reconfigure at distribution time to get the value
#   correct, without penalizing normal development with extra reconfigures.
#
# .version - present in a checked-out repository and in a distribution
#   tarball.  Usable in dependencies, particularly for files that don't
#   want to depend on config.h but do want to track version changes.
#   Delete this file prior to any autoconf run where you want to rebuild
#   files to pick up a version string change; and leave it stale to
#   minimize rebuild time after unrelated changes to configure sources.
#
# It is probably wise to add these two files to .gitignore, so that you
# don't accidentally commit either generated file.
#
# Use the following line in your configure.ac, so that $(VERSION) will
# automatically be up-to-date each time configure is run (and note that
# since configure.ac no longer includes a version string, Makefile rules
# should not depend on configure.ac for version updates).
#
# AC_INIT([GNU project],
#         m4_esyscmd([build-aux/git-version-gen .tarball-version]),
#         [bug-project@example])
#
# Then use the following lines in your Makefile.am, so that .version
# will be present for dependencies, and so that .tarball-version will
# exist in distribution tarballs.
#
# BUILT_SOURCES = $(top_srcdir)/.version
# $(top_srcdir)/.version:
# echo $(VERSION) > $@-t && mv $@-t $@
# dist-hook:
# echo $(VERSION) > $(distdir)/.tarball-version
```

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Version 3, 29 June 2007

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1.242 python 2.6.6 :52.el6

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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.

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2.3.1	2.3	2002-2003	PSF	yes
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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
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2.4.4	2.4.3	2006	PSF	yes
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2.5.1	2.5	2007	PSF	yes
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1.243 python-iniparse 0.3.1 :2.1.el6

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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
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1.244 python-pycurl 7.19.0 :8.el6

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1.245 python-pymongo 2.5.2 :3.el6

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1.246 python-urlgrabber 3.9.1 :9.el6

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1.248 readline 6.0 :4.el6

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1.249 redhat-logos 60.0.14 :12.el6.centos

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1.250 rhino 1.7 :0.7.r2.2.el6

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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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This option is useful when you wish to copy part of the code of
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under the terms of Sections 1 and 2 above provided that you accompany
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medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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5. A program that contains no derivative of any portion of the
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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

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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.

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) 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.

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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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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<one line to give the library's name and a brief idea of what it does.>
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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!

1.252 rsyslog 5.8.10

1.253 sed 4.2.1 :10.el6

1.253.1 Available under license :

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Version 3, 29 June 2007

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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.

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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
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Corresponding Source in the same way through the same place at no
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1.256 shared-mime-info 0.70

1.257 slf4j-api 1.7.2

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1.258 slf4j-log4j12 1.7.2

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1.259 snappy 1.1.0

1.260 sntp 0.2.4

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1.261 spin.js 1.3.3

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1.262 Streaming API for XML 1.0-2

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1.263 sudo 1.8.6p3

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The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

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*/

#include <config.h>

#include <sys/types.h>
#include <sys/param.h>
#include <sys/stat.h>

#include <stdio.h>
#ifdef STDC_HEADERS
# include <stdlib.h>
# include <stddef.h>
#else
# ifdef HAVE_STDLIB_H
#  include <stdlib.h>
# endif
```

```
#endif /* STDC_HEADERS */
#ifdef HAVE_STDBOOL_H
# include <stdbool.h>
#else
# include "compat/stdbool.h"
#endif /* HAVE_STDBOOL_H */
#ifdef HAVE_STRING_H
# if defined(HAVE_MEMORY_H) && !defined(STDC_HEADERS)
#  include <memory.h>
# endif
# include <string.h>
#endif /* HAVE_STRING_H */
#ifdef HAVE_STRINGS_H
# include <strings.h>
#endif /* HAVE_STRINGS_H */
#ifdef HAVE_UNISTD_H
# include <unistd.h>
#endif /* HAVE_UNISTD_H */
#include <ctype.h>
#include <errno.h>
#include <fcntl.h>
#include <limits.h>
#include <grp.h>
#include <pwd.h>

#include "sudo_plugin.h"
#include "missing.h"

/*
* Sample sudoers group plugin that uses an extra group file with the
* same format as /etc/group.
*/

static sudo_printf_t sudo_log;

extern void mysetgrfile(const char *);
extern void mysetgrent(void);
extern void myendgrent(void);
extern struct group *mygetgrnam(const char *);

static int
sample_init(int version, sudo_printf_t sudo_printf, char *const argv[])
{
  struct stat sb;

  sudo_log = sudo_printf;

  if (GROUP_API_VERSION_GET_MAJOR(version) != GROUP_API_VERSION_MAJOR) {
```

```
 sudo_log(SUDO_CONV_ERROR_MSG,
    "sample_group: incompatible major version %d, expected %d\n",
    GROUP_API_VERSION_GET_MAJOR(version),
    GROUP_API_VERSION_MAJOR);
 return -1;
   }

  /* Sanity check the specified group file. */
  if (argv == NULL || argv[0] == NULL) {
 sudo_log(SUDO_CONV_ERROR_MSG,
    "sample_group: path to group file not specified\n");
 return -1;
   }
  if (stat(argv[0], &sb) != 0) {
 sudo_log(SUDO_CONV_ERROR_MSG,
    "sample_group: %s: %s\n", argv[0], strerror(errno));
 return -1;
   }
  if ((sb.st_mode & (S_IWGRP|S_IWOTH)) != 0) {
 sudo_log(SUDO_CONV_ERROR_MSG,
    "%s must be only be writable by owner\n", argv[0]);
 return -1;
   }

  mysetgrfile(argv[0]);
  mysetgrent();

  return true;
}

static void
sample_cleanup(void)
{
  myendgrent();
}

/*
* Returns true if "user" is a member of "group", else false.
*/
static int
sample_query(const char *user, const char *group, const struct passwd *pwd)
{
  struct group *grp;
  char **member;

  grp = mygetgrnam(group);
  if (grp != NULL) {
 for (member = grp->gr_mem; *member != NULL; member++) {
```

```
    if (strcasecmp(user, *member) == 0)
  return true;
 }
   }

  return false;
}

struct sudoers_group_plugin group_plugin = {
  GROUP_API_VERSION,
  sample_init,
  sample_cleanup,
  sample_query
};
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```

```
*/
# ============================================================================
#   http://www.gnu.org/software/autoconf-archive/ax_check_link_flag.html
# ============================================================================
#
# SYNOPSIS
#
#   AX_CHECK_LINK_FLAG(FLAG, [ACTION-SUCCESS], [ACTION-FAILURE], [EXTRA-FLAGS])
#
# DESCRIPTION
#
#   Check whether the given FLAG works with the linker or gives an error.
#   (Warnings, however, are ignored)
#
#   ACTION-SUCCESS/ACTION-FAILURE are shell commands to execute on
#   success/failure.
#
#   If EXTRA-FLAGS is defined, it is added to the linker's default flags
#   when the check is done.  The check is thus made with the flags: "LDFLAGS
#   EXTRA-FLAGS FLAG".  This can for example be used to force the linker to
#   issue an error when a bad flag is given.
#
#   NOTE: Implementation based on AX_CFLAGS_GCC_OPTION. Please keep this
#   macro in sync with AX_CHECK_{PREPROC,COMPILE}_FLAG.
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1.264 sysstat 9.0.4 :2009/07/19

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1.267 tar 1.23 :11.el6

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1.269 tcp_wrappers 7.6 :57.el6

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iQCVAwUBOxo3X9yA8qbVMny5AQHT8wP9FZOtWxEM4SMj4Sj9QezMERz31n5fd0pC
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v8BeBE0bdjeVmOQYRQfXgt3J2q0b8x8Q5a/LCLVLh8k6DFGg8AfEbLDQWhi1JiXC
0JsaB8crR3M=
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```
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```

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```
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under certain conditions; type `show c' for details.
```

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1.271 Tomcat 7.0.29

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1.276 udev 147

1.277 unboundid-ldapsdk 2.3.1

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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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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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*
*
* Based on scriptreplay.pl by Joey Hess <joey@kitenet.net>
*/
/*
  NetBSD disklabel editor for Linux fdisk
  Written by Bernhard Fastenrath (fasten@informatik.uni-bonn.de)
  with code from the NetBSD disklabel command:

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Changes:
19990319 - Arnaldo Carvalho de Melo <acme@conectiva.com.br> - i18n/nls

20000101 - David Huggins-Daines <dhuggins@linuxcare.com> - Better
support for OSF/1 disklabels on Alpha.
Also fixed unaligned accesses in alpha_bootblock_checksum()
*/
/*
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/**********
*

```
*     CFDISK
*
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*
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* along with cfdisk; if not, write to the Free Software Foundation,
* Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* Created: Fri Jan 28 22:46:58 1994, martin@cs.unc.edu
* >2GB patches: Sat Feb 11 09:08:10 1995, faith@cs.unc.edu
* Prettier menus: Sat Feb 11 09:08:25 1995, Janne Kukonlehto
*                                 <jtklehto@stekt.oulu.fi>
* Versions 0.8e-p: aeb@cwi.nl
* Rebaptised 2.9p, following util-linux versioning.
*
*  Recognition of NTFS / HPFS difference inspired by patches
*  from Marty Leisner <leisner@sdsp.mc.xerox.com>
*  Exit codes by Enrique Zanardi <ezanardi@ull.es>:
*     0: all went well
*     1: command line error, out of memory
*     2: hardware problems [Cannot open/seek/read/write disk drive].
*     3: ioctl(fd, HDIO_GETGEO,...) failed. (Probably it is not a disk.)
*     4: bad partition table on disk. [Bad primary/logical partition].
*
* Sat, 23 Jan 1999 19:34:45 +0100 <Vincent.Renardias@ldsol.com>
*  Internationalized + provided initial French translation.
* Sat Mar 20 09:26:34 EST 1999 <acme@conectiva.com.br>
*  Some more i18n.
* Sun Jul 18 03:19:42 MEST 1999 <aeb@cwi.nl>
*  Terabyte-sized disks.
* Sat Jun 30 05:23:19 EST 2001 <nathans@sgi.com>
```

```
*  XFS label recognition.
* Thu Nov 22 15:42:56 CET 2001 <flavio.stanchina@tin.it>
*  ext3 and ReiserFS recognition.
* Sun Oct 12 17:43:43 CEST 2003 <flavio.stanchina@tin.it>
*  JFS recognition; ReiserFS label recognition.
*
*****************************************************************************/
```

/partitions/blkid_parttypes.h8.el6/util-linux-ng-2.17.2-12.18.el6.src.rpm-hxIdy1eG/util-linux-ng-2.17.2.tar.bz2-0WzULrAK/util-linux-ng-2.17.2/shlibs/blkid/src

```
/*
* Partition types
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*/
```

1.283 v8 3.14.5.10

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```

Inspired by and based on:
http://src.chromium.org/viewvc/chrome/trunk/src/tools/bash-completion

Flag completion rule for bash.
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// from the Smalltalk implementation by John Maloney and Mario
// Wolczko. Some parts have been translated directly, whereas
// others have been modified more aggresively to make it feel
// more like a JavaScript program.

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==========
Visual Studio - Vim Integration
==========

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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

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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!

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Heiko.Erhardt@munich.netsurf.de

uganda.txt For Vim version 7.2. Last change: 2008 Jun 21

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==========
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',",")
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("000000000000000000",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("000000000000000000",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>

==========

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:

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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.

The WordNet database, which was used in the creation of the Inflections database, is under the following copyright:

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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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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. The Ispell word lists are under the same copyright of Ispell itself which is:

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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:

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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
==========
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NZ English Dictionary v0.9 beta - Build 06SEP03
~~~~~~
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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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1.286 wget 1.12

1.287 which 2.19 :6.el6

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1.288 Xalan-J 2.5.2

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1.289 xercesImpl 2.5.0

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1.290 Xml Compatibility extensions for Jackson 1.9.2

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1.291 xorg-x11-font-utils 7.2 :11.el6

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1.292 xorg-x11-fonts 7.2 :9.1.el6

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1.297 yum 3.2.29

1.298 yum-metadata-parser 1.1.2 :16.el6

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1.299 yum-utils 1.1.30

1.300 zd1211-firmware 1.4 :4.el6

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1.301 zlib 1.2.3 :29.el6

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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).
*/

'zlib' general purpose compression library version 1.1.4, March 11th, 2002

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1.302 zlib 1.2.3

1.302.1 Available under license :

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