

NAME

Date::Manip::Changes5 – changes in Date::Manip 5.xx

SYNOPSIS

This describes the changes made to the Date::Manip module up to the time that 6.00 was released. Because 6.00 required a newer version of perl (5.10 or higher), the old version was maintained.

When Date::Manip 6.10 was released, both versions were bundled together (though how it was bundled changed when 6.14 was released).

This document describes all changes made to the old version of Date::Manip.

For the most part, Date::Manip has remained backward compatible at every release, but occasionally, a change is made which is backward incompatible. These are marked with an exclamation mark (!).

VERSION 5.66 (Released with 6.51)

Fixed a bug in Date_ConvTZ

Applied a patch supplied by Zhenyi Zhou which fixes a bug in Date_ConvTZ where passing in an empty string did not work.

VERSION 5.65 (Released with 6.37)

As of December 2012, Version 5 of Date::Manip will no longer be modified. The 5.xx version was updated to 5.65 (but no changes were made), and this version is expected to be the final release in the 5.xx series.

The one exception is that if someone submits a patch that applies cleanly and causes zero failures in the test suite, I will consider adding it on a case-by-case basis.

Please use Date::Manip 6.xx instead.

VERSION 5.64 (Released with 6.32)

Better handling of '0000' timezone

Applied a patch supplied by Ed Avis that improves handling of the '0000' timezone..

VERSION 5.63 (Released with 6.26)

Fixed business mode calculation

Applied a patch that I received some time ago to fix a business mode calculation. Steve Tempest

VERSION 5.62 (Released with 6.21)

No changes

VERSION 5.61 (Released with 6.20)

No changes

VERSION 5.60 (Released with 6.14)

Fully integrated with 6.xx

As of Date::Manip 6.14, the 5.xx release is fully integrated into the distribution. Both will be installed automatically and you can switch between them (if you have a recent version of perl). This simplifies the package management process considerably. The downside is that Date::Manip 6.xx will be installed, even if you do not have a recent version of perl and cannot use it.

VERSION 5.59 (Released with 6.12)

Test fixes

Fix tests to work better on windows.

VERSION 5.58 (Released with 6.11)

Test fixes

Fixed a bug in some of the tests that were causing two tests to fail. JD

Explicitly set TZ in all tests to avoid some failures (it got left out of a few when it was bundled with 6.10).

VERSION 5.57 (Released with 6.10)

(*) Combined 5.xx and 6.xx

As of 6.10, Date-Manip-6.xx will contain both the Date::Manip 5.xx and 6.xx modules. If perl 5.10 or higher is available, the 6.xx version will be installed. For older versions of perl, the 5.xx version

will be installed.

This will allow all of the automatic module tools to work correctly.

Bug fixes

Fixed a bug where years earlier than 1000 AD failed in calculations. John

Time zone fixes

Improved time zone detection. Stepan Kasal

Documentation fixes

Minor improvements. Josef Kreulich

VERSION 5.56 (2010-02-24)

Bug fixes

Date_PrevWorkDay and documentation fix. RT #17005

I accidentally included a require 5.10 which made Date::Manip not work with earlier versions of perl.
Nicholas Riley

VERSION 5.55 (2010-02-22)

(*) **Added time zone abbreviations**

Date::Manip 5.xx now includes all of the time zone abbreviations from version 6.xx (i.e. all of the abbreviations from the Olsen database).

Documentation fixes

Typo fix. ddascalescu

VERSION 5.54 (2008-05-09)

Released

VERSION 5.53 (DEVELOPMENT)

Bug fixes

Fix so it won't fail with "Too early to specify a build action"

CPANTS changes

Final changes to meet requirements on <http://cpants.perl.org/>

VERSION 5.52 (2008-05-08)

Released

VERSION 5.51 (DEVELOPMENT)

Bug fixes

Fixed bug where the wrong version was in Build.PL

CPANTS changes

Additional changes to meet requirements on <http://cpants.perl.org/>

VERSION 5.50 (2008-05-05)

Released

VERSION 5.49 (DEVELOPMENT)

New features

Added "ereyesterday". Ed Avis

Time zone fixes

Added time zones. Damyan Ivanov, Ernesto Hernandez-Novich, Gregor Herrmann, Nicholas Riley, Enrique Verdes, Alexander Litvinov

Documentation fixes

Corrected typo in %G and %L format descriptions. Troy A. Bollinger

CPANTS changes

Added Build.PL and several other things to meet requirements on <http://cpants.perl.org/>

VERSION 5.48 (2007-11-27)

Released

VERSION 5.47 (DEVELOPMENT)

Bug fixes

Fixed the version number. John R. Daily

Fixed a warning when the date command not present. Daniel Hahler

Fixed a bug where recurrences of the form 0:1*, 0:0:1*, etc., incorrectly required a base date. Gerry Lawrence

Fixed a bug where “substring” was used instead of “substr”.

Time zone fixes

Fixed a problem in the WEST time zone. Cristina Nunes

Added time zone. Kimmo R. M. Hovi

Documentation fixes

Revised some of the documentation about Y2K (given that it’s in the past) and the 2007 US daylight saving time rule changes.

VERSION 5.46 (2007-02-21)

Released

VERSION 5.45 (DEVELOPMENT)

New features

Added “overmorrow”. Ed Avis

Bug fixes

Fixed bug in parsing ISO 8601 dates. Paul Schinder

Fixed a bug in UnixDate for years before 1000 AD. Joaquin Ferrero

Fixed a bug where “today” wasn’t case insensitive. Pedro Rodrigues

Fixed a bug where business/approximate mode wasn’t correctly used in DateCalc. Mark T. Kennedy

Bug in DateCalc where you couldn’t pass undef as the errref. Alex Howansky

Bug where cygwin wasn’t using the date command. Rafael Kitover

Time zone fixes

New time zones. Khairil Yusof, Andy Spiegel, Ernesto Rapetti

New time zones. Robin Norwood

Fixed Russian time zones. Yuri Kovalenko

Language fixes

Language fix for Danish. Claus Rasmussen

Language fix for German. Andreas Dembach

Documentation fixes

Minor documentation improvement. Caminati Carlo

Lots of spelling fixes. Asaf Bartov

VERSION 5.44 (2005-06-02)

Released

VERSION 5.43 (DEVELOPMENT)

(!) (*) Recurrences revisited

The behavior of some elements of recurrences changed. These included making the week element (N) refer to the Nth occurrence of a day of the week in the week, month, or year. It is now possible to look at the 3rd Friday of every month for example.

Y-0-WOY-DOW now refers to the WOY'th occurrence of DOW instead of the ISO 8601 date Y-W(WOY)-DOY. Also, changed Y-0-WOY-0 to refer to the WOY'th occurrence of FirstDay, and got rid of the MW and MD flags. Many other similar changes.

(!) **Changed %x format in UnixDate**

The %x format used to be equivalent to %D (%m/%d/%y), but it has been modified to use the DateFormat config variable, so it may return %d/%m/%y if a non-US DateFormat is specified.

New features

Added TodayIsMidnight. Reuben Thomas

Added "approx" mode to Delta_Format and reversed change to default Delta_Format behavior to the one from version 5.40. Based on discussion with Adam Spiers.

Added %O UnixDate format. Martin Thurn

Bug fixes

Fixed a bug in ParseRecur where values passed in were no overriding old values in the recurrence. Scott Barker (reported to the Debian bugs list).

Fix for a potential problem in the "0000" time zone. Ed Avis

Changed taint check to be the one in **perlsec**(1). Max Kalika

Minor fix so DateInit("VAR=") will work. Thomas Bohme

Fixed a bug where business mode was kept operative even after the calculation was over. Emiliano Bruni

Minor change to run under cygwin. Niel Markwick

Minor VMS fix. Martin P.J. Zinser

Small fix to taint checking. David Worenklein

Fixed a problem where deltas were getting misinterpreted as dates. Harry Zhu

Fixed a bug in ParseRecur where "last day of every March" couldn't be done. Andras Karacsony

Fixed a bug in business mode calculations. Tracy L Sanders

Sorted all events and dates returned by Events_List. This fixes problems with tests on some versions of perl. Tulan

Modified %x UnixDate format to use DateFormat config variable. Matt Lyons

Time zone fixes

Fixed a problem with single character military time zones (T and W) conflicting with ISO 8601 T and W dates. Hugo Cornelis

Small correction to Brazil time zones. John McDonald

Added time zones. Michael Wood-Vasey, Don Robertson, Michael D. Setzer II, Andres Tarallo

Language fixes

Fixed German translations. Oliver Scheit

Minor corrections to Italian. Nicola Pedrozzi

Added the language Catalan. Xavi Drudis

Documentation fixes

Minor doc fixes Reuben Thomas, Ed Avis, Thomas Winzig

Clarified documentation on %W/%G/%U/%L formats. Joel Savignon

VERSION 5.42a 2003-07-03

Test fixes

A quick fix to replace a faulty test.

VERSION 5.42 (2003-07-02)

Released

Number changed to distinguish between the development release (5.41) and the official release.

VERSION 5.41 (DEVELOPMENT)

As of 5.41, odd numbered releases are development (and appear only on my page). Even number releases are official releases submitted to CPAN.

(!) Changed path separator for VMS

Since “:” is used in some VMS paths, it should not have been used as the path separator. It has been changed to a newline (“\n”) character.

(!) Delta_Format behavior changed

The entire delta is exact if no month component is present (previously, no year or month component could be present). Due to discussion with Tim Turner.

Bug fixes

Small patch for OpenVMS. Martin P.J. Zinser

Minor enhancement to ParseRecur. Randy Harmon

Fixed a bug involving business deltas with negative hours. Ludovic Dubost

Added some support for NetWare. Chris Shields

Applied some robustness patches. Ed Avis

Fixed a bug with years <1000. Jonathan Callahan

Patch to make Manip.pm –Mstrict clean and better VMS support. Peter Prymmer

Fixed a bug in “1st Saturday of 2005” format. Maurice Aubrey

Taint check insecure \$ENV{PATH} fix. Ed Avis

Patch to allow deltas of the form “+ –1 day” to work. Ed Avis

Removed ampersands from function calls in documentation to fit new perl coding standards. Bill Pollock

Fixed a bug where spaces in a date caused problems in German (due to the number 1st, 2nd, etc. being 1., 2., etc.). Erik Roderwald

Time zone fixes

Minor bug fix where /etc/time zone not correctly read. Jacek Nowacki

Made the UnixDate %Z format work with numeric time zones. Michael Isard

Fixed bug where –HH:MM and +HH:MM were not being accepted as valid time zones. Hank Barta

Fixed a bug where time zones –HH:MM weren’t handled in ISO 8601 dates. Ed Avis

Added some help for VMS time zones. Don Slutz

Added some checking to the time zone determination. Ed Avis

Added time zones. David Coppit, Daniel Serodio, Fabian Mandelbaum, Raul Dias, Pedro Melo CUNHA, Roman Y Malakhov, David Whiting, Khaled Mostaguir, Jason King

Language fixes

(*) Replaced all non-ASCII characters with hex representations to avoid the malformed UTF-8 character warnings. Ed Avis

Added Russian translation. Dapi

Additions to Dutch translation. Willem

Patch to French support. Patrick Turmel

Added Tues/Thur abbreviations. Martin Thurn

Added Turkish. Giray

Added Danish. Jesper Dalberg

A patch for Danish was send by Jorgen Norgaard previously, and I somehow overlooked it. I apologize for that.

Test fixes

Added runtests.bat contributed by Lon Amick

Documentation fixes

Minor doc fix. Jeremy Tietsort

Fixed spelling of Veteran's day. Dirk Eddelbuettel

Documentation improvements. James Olsen

VERSION 5.40 (2001-06-07)

New features

Added support for negative values is "epoch SECS" type dates. Larry Warner

Added NWD/PWD/DWD flags to ParseRecur. Peter Wyngaard

Bug fixes

Fixed a warning. Edward Avis

Fixed a bug where the date wasn't rolling over when parsing dates containing only times. James L. Gordon

Fixed a bug where some times were defaulting to the current time instead of 00:00:00. Edward Avis

Fixed a bug in Date_NthDayOfYear with decimal days. Olga Polyakov

Fixed a bug where ParseDateDelta returned a delta if nothing was passed in. Jim Hranicky

Fixed a bug where noon was case sensitive. Bion Pohl

Fixed a bug where dateTtime wasn't parsed. Jeremy Brinkley

Fixed a bug in holiday parsing involving recurrences. Jerry Wilcox

Fixed a bug where an invalid date passed to Date_IsWorkDay produced an error message. Mark Rejhon

Fixed a bug where EraseHolidays wasn't taking affect correctly. Chateauvieux Martial

Fixed a bug where the list produced by Date_Init couldn't be passed back in to Date_Init. James Elson

Time zone fixes

Added 'date +%Z' support in Date_TimeZone. Mike Bristow

Fixed a warning if the time zone is supplied as a +HHMM format. Viola Mauro

Fixed South African time zone. David Sieborger

Documentation fixes

Added an example. Philip Jones

VERSION 5.39 (2000-06-27)

Bug fixes

'date' uses the user's path unless taint checking is on.

@::DatePath used instead of @Date::Manip::DatePath incorrectly. Fixed by John Labovitz.

Fixed a bug where times such as “5 seconds ago” were not changing over time. Matthew R. Sheahan

Time zone fixes

Added /etc/time zone support to &Date_TimeZone. Dirk Eddelbuettel

Added time zones. Dirk Eddelbuettel, Eli Selinger

VERSION 5.38 (2000-05-23)

(*) Added Events

Added Events section to config file and Events_List routine. Prompted by Greg Schiedler and paid for by Alan Cezar.

(!) Removed Date_DaysSince999

The Date_DaysSince999 function (deprecated in 5.35) has been removed.

New features

Added support for ISO8601 dates of the format dateTtime. Jason Pierce

Got rid of the “use Cwd” and ENV{PATH} lines which means no more taint problems.

Bug fixes

Fixed “dofw” format to return the day of the current week as documented instead of next week. Dennis Ingram

Fixed a bug where dates in years 1900, 1800, etc. (but not 2000 or other 400th years) were off by one day in DayOfWeek. Noble Thomas

Fixed a bug in ParseRecur (2-digit years not treated correctly). Brian Rectanus

Time zone fixes

Added time zones. Nelson Ferreira, David Harper

Documentation fixes

Fixed some typos. Thanks to Alex Kapranoff

Typo fixed. Jim Hranicky

VERSION 5.37 (2000-02-14)

Bug fixes

Set ENV{PATH} to help with taint checking. Joe Lipson

Fixed a serious bug where HH:24:00 was broken due to support from 24:00:00. Scott Egashira

Time zone fixes

Fixed the sign on the military time zones. John Scott

VERSION 5.36 (2000-01-21)

New features

Added support for 24:00:00 to ParseDate. William H Asquith

Bug fixes

Fixed a bug in ParseRecur. Lewis Tsao

Fixed a bug is UnixDate (%l format). Jon Hedley

Fixed a bug in Date_GetNext/Prev. Christoph Haas

Fixed a bug in Date_IsHoliday. Report and patch by Rolf Beutner

Fixed a bug in UnixDate. Patch by Kurtis D. Rader

Rewrote IsInt routine based on discussion with Sean Hunter (approximately 30% faster on a SPARC).

Time zone fixes

Added time zone. Paul Arzul

Documentation fixes

Fixed a documentation problem with Date_ConvTZ. Diab Jerius

VERSION 5.35 (1999-07-06)**(!) Deprecated Date_DaysSince999**

In fixing support for the years 0001-0999, I rewrote Date_DaysSince999 to be Date_DaysSince1BC. The Date_DaysSince999 function will be removed.

(*) (!) Added PathSep variable

In order to better support Win32 platforms, I added the PathSep config variable. This will allow the use of paths such as "c:\date" on Win32 platforms. Old config files on Win32 platforms (which were not working correctly in many cases) may not work if they contain path information to the personal config file.

(*) Recurrences now support flags

Flags for modifying recurrence dates are now supported.

(*) Improved holiday support considerably

Added support for recurrences and one-year-only holidays (the latter requested first by Vishal Bhatia.

(*) Date_Init improved

Date_Init can now return a list of config variables if called in array context. Based on a suggestion by Matt Tuttle.

New features

Modified Date_GetPrev/Date_GetNext to take \$curr=2.

Now parses the Apache log file format "dd/mm/yyyy:hh:mm:ss (time zone)". Mark Ferguson

Added OS/2 support. Michael B. Babakov

Added Date_IsHoliday routine. Joe Pepin

Added recurrence support for Easter (first suggested by Abigail).

Bug fixes

Made "epoch" not case sensitive and fixed a bug where it would fail in some languages. Caught because of Iosif's thorough Romanian test file.

Fixed a problem where "in 5 days/weeks/months" sometimes wouldn't get correctly parsed in other languages. Caught because of Iosif's thorough Romanian test file.

Fixed a weakness in ParseDateDelta brought out by the Romanian delta test file.

Fixed a bug causing warnings in the beta version of perl. Patch by Paul Johnson.

Fixed support for years 0000-0999. Requested by Chris Vaughan

Several recurrence bug fixes.

Put all the my'ed global variables in a couple hashes to clean up the namespace and to make a few future enhancements easier to do.

Fixed a bug where business weeks weren't being used correctly. Qian Miao

Fixed a serious typo in the DaysSince1BC routine. Qian Miao

Fixed Veteran's day, added Good Friday (off by default). Peter Chen

Cleaned up holiday variables and re-did holiday routines.

Time zone fixes

Added time zones. Oded Cohen

Language fixes

Added Romanian support (including 2 test files). Iosif Fettich

Corrected Swedish translations. Danne Solli

Some fixes to German translations. Peter Ehrenberg

Added Italian. Nicola Pedrozzi

Test fixes

Added recurrence test suite

Documentation fixes

Several documentation updates.

New recurrence documentation.

VERSION 5.34 (1999-04-13)

(! (*) All Date::Manip variables are no longer accessible

Previously, Date::Manip variables were declared using a full package name. Now, they are declared with the **my()** function. This means that internal variables are no longer accessible outside of the module. Based on suggestion by Tom Christiansen

(!) Week interpretation in business mode deltas

A business mode delta containing a week value used to be treated as 7 days. A much more likely interpretation of a week is Monday to Monday, regardless of holidays, so this is now the behavior.

(!) %z UnixDate format

The %z UnixDate format used to return the time zone abbreviation. It now returns it as a GMT offset (i.e. -0500). %Z still returns the time zone abbreviation. Suggested by Tuc.

(!) Formats “22nd Sunday” returns the intuitive value

The date “22nd Sunday” used to return the Sunday of the 22nd week of the year (which could be the 21st, 22nd, or 23rd Sunday of the year depending on how weeks were defined). Now, it returns the 22nd Sunday of the year regardless.

(!) Separator in DD/YYmmm and mmmDD/YY formats no longer optional

Previously, the date “Dec1065” would return Dec 10, 1965. After adding the YYYYmmm and mmmYYYY formats, this was no longer possible. The separator between DD and YY is no longer optional, so

```
Dec1065      returns December 1, 1065
Dec10/65     returns December 10, 1965
```

(*) Date_Cmp added

In one of the next versions of Date::Manip, the internal format of the date will change to include time zone information. All date comparisons should be made using Date_Cmp (which currently does nothing more than call the Perl “cmp” command, but which will be important when comparing dates that include the time zone).

Added now in response to a question by Al Sorrell (I should have added it earlier).

New features

Added exact business mode. Ian Duplissee

Added “mmmYYYY” and “YYYYmmm” formats. As a result, “DDYYmmm” and “mmmDDYY” formats changed to “DD/YYmmm” and “mmmDD/YY” as described above. David Twomey

Bug fixes

Fixed a bug where a date passed in as an array wasn’t getting the date removed from the array. Rick Wise

Added tests for MPE/iX OS. John Testa

Fixed a bug where WorkDayBeg=8:00 went into an infinite loop. Mark Martinec

Changed a business week to be the same as an exact week. Abigail

Fixed a bug where “Sunday week 0” didn’t work (only affected week 0) Gerald Rinske

Minor bug (my variable declared twice). Paul J. Schinder

Fixed a bug where “epoch SECONDS” was getting parsed wrong (for SECONDS which could be interpreted as an ISO–8601 date). N. Thomas

Fixed a problem where init files were not being read. Mike Reetz

Time zone fixes

At the request of the UN, I added the SAT time zone. :-) Howard Hendler

Fixed a bug where time zones were converted multiple times if ConvTZ was set and DateCalc called. Steven Hartland

Language fixes

Added Portuguese. Rui Pedro da Silva Leite Pereira

Documentation fixes

A number of typos fixed. Ron Pero

VERSION 5.33 (1998–08–20)

Bug fixes

Fixed a bug where “1 month ago” was no longer working (and added it to the test cases). This broke when I fixed the “–1second” bug in the previous version. A result of this is that a number of “deltas” can be parsed as dates (i.e. &ParseDate(“1 hour 20 minutes ago”) is equivalent to &DateCalc(“now”, “1 hour 20 minutes ago”). Only text deltas can be used in this way (i.e. &ParseDate(“–0:0:0:0:1:20:0”) will not work).

Language fixes

Added Spanish support. Bautista Jasso Javier

VERSION 5.32 (1998–08–17)

(!) **Date_Init arguments**

The old style Date_Init arguments that were deprecated in version 5.07 have been removed.

(!) (*) **DateManip.cnf change**

Changed .DateManip.cnf to Manip.cnf (to get rid of problems on OS’s that insist on 8.3 filenames) for all non-Unix platforms (Windows, VMS, Mac). For all Unix platforms, it’s still .DateManip.cnf . It will only look in the user’s home directory on VMS and Unix.

New features

Added “in N days” and “N days ago” formats. Tony Bowden.

Added cYYYY format to YYtoYYYY variable. Mark Rejhon.

Added 2 days/weeks/months later in both ParseDate and ParseDelta (for Dutch support). Abigail.

Added “Y:M:0*–DOM:0:0:0” to ParseRecur. Jeff Yoak.

Bug fixes

Fixed a bug where the deltas could be off by up to a couple minutes in some rare cases. Herman Horsten.

Fixed an “uninitialized symbol” warning. Mark D. Anderson.

Fixed a bug where holidays weren’t erased. Jonathan Wright.

Applied a bug fix from Joe Chapman where the %W/%U UnixDate formats were frequently wrong.

Several minor fixes and improvements. Abigail.

Added some VMS support. Charles Lane.

Fixed a bug which caused a test to fail on some systems. Charles Lane.

Fixed a bug where “–1second” was treated as a date rather than a delta in DateCalc. Kenneth Ingham

Added a bit to the Makefile.PL (as it was distributed in the Win32 Perl Resource Kit). Murray Nesbitt

Time zone fixes

Allowed time zones of the format STD-#DST-#. Peter Gordon.

Added time zone support for “+0500 (EST)”. Tom Christiansen.

Restricted time zones parsing to 0000–2359 instead of 0000–9999. Frank Cusack

Added time zones. W. Phillip Moore, Michael Smith, Samuli Karkkainen

Language fixes

Added Polish support. Ian Wojtowicz.

Added Dutch support. Abigail.

Added A.M. and P.M. parsing (not just AM and PM). William W. Arnold.

Fixed a German initialization problem. Thomas Horster-Moller and Christian Reithmaier

Documentation fixes

Documentation fix. Peter Gordon.

Minor documentation changes. Yamamoto Hiroshi.

Added info about the RCS problem. Supplied by Kipp E. Howard.

VERSION 5.31 (1998–04–08)

New features

Added “epoch SECS” format to ParseDateString. Thanks to: Joshua M. Burgin.

Added a patch by Blair Zajac to make Date_NthDayOfYear work with decimal days.

Bug fixes

Fixed a bug in ParseDateDelta (seems to appear only in 5.005 pre-releases). Found by Larry W. Virden.

Missed one form in ParseDate. Noted by Tuc.

Fixed a bug where “15:00:00” couldn’t be parsed. Michael Pizolato.

Split Manip.pm. New files are HISTORY, TODO, Manip.pod.

Fixed a bug in ParseDateDelta. Antonio Rosella.

Removed the only occurrence of \$& (which may speed some things up). Fix by Ken Williams. First suggested by Abigail.

Fixed an overflow bug in doing date calculations with 2 dates more than 70 years apart. Fix by Vishal Bhatia.

Fixed a bug where “5:00pm” wasn’t always parsed correctly. Thanks to Jim Trocki.

Fixed a bug in UnixDate (it wouldn’t return the correct string for a format who’s last character was ‘0’) noted by Ramin V.

Time zone fixes

Relaxed some restrictions on time zones so ISO–8601 dates can use non–ISO–8601 time zones. Noted by John Chambers.

Fixed a bug in converting time zones with a minutes field (+1030). Found by Paul O.

Language fixes

Some fixes to the French translations by Emmanuel Bataille.

Added German support. Thanks to Andreas C. Poszvek.

Documentation fixes

Minor documentation fixes. Will Linden.

Fixed a documentation problem with Date_GetPrev. It was still 0–6 instead of 1–7. Thanks to Robert Klep.

VERSION 5.30 (1998–01–21)**(!) (*) Delta format changed**

A week field has been added to the internal format of the delta. It now reads “Y:M:W:D:H:MN:S” instead of “Y:M:D:H:MN:S”.

(*) Now handles recurring events

Added ParseRecur. First suggested by Chris Jackson.

New features

All routines can now take either a 2– or 4–digit year.

Added Delta_Format. First suggested by Alan Burlison.

Added Date_SetDateField. Thanks to Martin Thurn.

Bug fixes

Made the \$err argument to DateCalc optional.

Changed the name of several of the library routines (not the callable ones) to standardize naming.

VERSION 5.21 (1998–01–15)**(!) Long running processes may give incorrect time zone**

A process that runs during a time zone change (Daylight Saving Time specifically) may report the wrong time zone. See the UpdateCurrTZ variable for more information.

(!) UnixDate “%J”, “%W”, and “%U” formats fixed

The %J, %W, and %U will no longer report a week 0 or a week 53 if it should really be week 1 of the following year. They now report the correct week number according to ISO 8601.

New features

Added YYtoYYYY variable. Suggested by Michel van der List.

Added the UpdateCurrTZ variable to increase speed at the cost of being wrong on the time zone.

Added British date formats. Thanks to Piran Montford.

Monday week

today week

as well as some US formats

in 2 months

next month

Time can now be written 5pm. Piran Montford.

Added the TomorrowFirst variable and Date_NearestWorkDay function.

Added UnixDate formats %G and %L to correctly handle the year. Thanks to Samuli Karkkainen.

Added ForceDate variable. Based on a suggestion by Christian Campbell.

Bug fixes

Now passes Taint checks. Thanks to Mike Fuhr, Ron E. Nelson, and Jason L Tibbitts III.

Put everything in a “use integer” pragma.

Added a missing space in the %g UnixDate format. Thanks to Mike Booth.

Removed all mandatory call to Date_Init (only called when current time is required). Significantly faster.

Fixed a bug in Date_ConvTZ. Thanks to Patrick K Malone.

Fixed a bug in Date_IsWorkDay.

Time zone fixes

Fixed some Australian time zones. Kim Davies.

Language fixes

Cleaned up multi-lingual initialization and added the IntCharSet variable.

Improved French translations. Thanks to Emmanuel Bataille.

Added “Sept” as a recognized abbreviation. Thanks to Martin Thurn.

Typo in the French initialization. Thanks to Michel Minsoul.

Test fixes

Fixed the tests to not fail in 1998.

Documentation fixes

Documented how to get around Micro\$oft problem. Based on a mail by Patrick Stepp.

VERSION 5.20 (1997–10–12)

(*) ISO 8601 support

ISO 8601 dates are now parsed. This resulted in several other changes specified below.

(!) (*) ParseDate formats removed

As a result of ISO 8601 support, some formats which previously worked may no longer be parsed since they conflict with an ISO 8601 format. These include MM-DD-YY (conflicts with YY-MM-DD) and YYMMDD (conflicts with YYYYMM). MM/DD/YY still works, so the first form can be kept easily by changing “-” to “/”. YYMMDD can be changed to YY-MM-DD before being parsed. Whenever parsing dates using dashes as separators, they will be treated as ISO 8601 dates. You can get around this by converting all dashes to slashes.

(!) (*) Week day numbering

The day numbering was changed from 0–6 (Sun-Sat) to 1–7 (Mon-Sun) to be ISO 8601 compatible. Weeks start on Monday (though this can be overridden using the FirstDay config variable) and the 1st week of the year contains Jan 4 (though it can be forced to contain Jan 1 with the Jan1Week1 config variable).

New features

Several new parsing formats added, including:

“Friday” suggested by Rob Perelman
 “12th” suggested by Rob Perelman
 “last day of MONTH” suggested by Chadd Westhoff

Added ParseDateString for speed (and simplicity for modifying ParseDate)

Added %J and %K formats to UnixDate.

Added Date_DaysInMonth.

Bug fixes

Reorganized ParseDate more efficiently.

Fixed some incorrect uses of \$in instead of \$future in ParseDate. Thanks to Erik Corry.

Added some speedups (more to come).

Test fixes

Cleaned up testing mechanism a bit and added tests for ISO 8601 formats.

VERSION 5.11 (1997–08–07)

Version 5.11 was never released to CPAN.

Bug fixes

Added one more check for NT perl. Thanks to Rodney Haywood.

Added some comments to help me keep my personal libraries up-to-date with respect to Date::Manip and vice-versa.

Fixed a bug which showed up in French dates (though it could happen in other languages as well). Thanks to Georges Martin.

Fixed a bug in DateCalc. Thanks to Thomas Winzig.

Removed the “eval” statement from CheckFilePath which causes a suid c wrapper program to die when it calls a Date::Manip script. Thanks to Hank Hughes.

Fixed a bug in business mode calculations. Thanks to Sterling Swartwout.

Fixed a bug in which “1997023100:00:00” was accepted as valid. Thanks to Doug Emerald.

Fixed a bug in which ConvTZ was not used correctly in ParseDate. Re-did portions of Date_ConvTZ. Thanks to Vivek Khera.

Fixed a bug in business mode calculations. Thanks to Ian Duplisie.

Added \$^X check for Win95 perl. Thanks to Walter Soldierer.

Missed one call to NormalizeDelta so the output was wrong. Thanks to Brad A. Buikema.

Time zone fixes

Added time zones. Paul Gillingwater, Rosella Antonio, Kang Taewook

VERSION 5.10 (1997-03-19)

Bug fixes

Cleaned up In, At, and On regexps.

Added 2 checks for MSWin32 (date command and getpw* didn't work). Thanks to Alan Humphrey.

Fixed two bugs in the DateCalc routines. Pointed out by Kevin Baker.

Added a check for Windows_95. Thanks to Charlie W.

Cleaned up checks for MacOS and Microsoft OS's. Hopefully I'm catching everything. Thanks to Charlie Wu for one more check.

Fixed a typo which broke Time%Date (Date=dd%mmm%yy) format. Thanks to Timothy Kimball.

Time zone fixes

Fixed some problems with how “US/Eastern” type time zones were used. Thanks to Marvin Solomon.

Test fixes

Tests will now run regardless of the time zone you are in.

Test will always read the DateManip.cnf file in t/ now.

A failed test will now give slightly more information.

DateManip.cnf file in t/ now sets ALL options to override any changes made in the Manip.pm file.

Documentation fixes

Added documentation for backwards incompatibilities to POD.

Fixed some problems in POD documentation. Thanks to Marvin Solomon.

Fixed minor POD error pointed out by John Perkins.

Changed documentation for Date_IsWorkDay (it was quite confusing using a variable named \$time). Thanks to Erik M. Schwartz.

Fixed typo in documentation (midnight misspelled). Thanks to Timothy Kimball.

VERSION 5.09 (1997-01-28)

Bug fixes

Upgraded to 5.003_23 and fixed one problem associated with it.

Used carp and changed all die's to confess.

Replaced some UNIX commands with perl equivalents (date with localtime in the tests, pwd with cwd in the path routines).

Cleaned up all routines working with the path.

Test fixes

Tests work again (broke in 5.08). Thanks to Alex Lewin and Michael Fuhr for running debugging tests.

VERSION 5.08 (1997-01-24)

Bug fixes

(*) **Fixed serious bug in ConvTZ pointed out by David Hall.**

(*) **Modified Date_ConvTZ (and documented it).**

VERSION 5.07p2 1997-01-03

Released two patches for 5.07.

Bug fixes

Fixed a bug where a delta component of "-0" would mess things up. Reported by Nigel Chapman.

Time zone fixes

(*) **Can now understand PST8PDT type zones (but only in Date_TimeZone).**

Added lots of time zone abbreviations.

Test fixes

Fixed some tests (good for another year).

VERSION 5.07 (1996-12-10)(!) **UnixDate "%s" format**

Used to return the number of seconds since 1/1/1970 in the current time zone. It now returns the number of seconds since 1/1/1970 GMT. The "%o" format was added which returns what "%s" previously did.

(!) (*) **Internal format of delta**

The format for the deltas returned by ParseDateDelta changed. Previously, each element of a delta had a sign attached to it (+1:+2:+3:+4:+5:+6). The new format removes all unnecessary signs by default (+1:2:3:4:5:6). Also, because of the way deltas are normalized (see documentation on ParseDateDelta), at most two signs are included. For backwards compatibility, the config variable DeltaSigns was added. If set to 1, all deltas include all 6 signs.

(!) (*) **Date_Init arguments**

The format of the Date_Init calling arguments changed. The old method

```
Date_Init($language,$format,$tz,$convtz);
```

is still supported, but this support will likely disappear in the future. Use the new calling format instead:

```
Date_Init("var=val","var=val",...);
```

NOTE: The old format is no longer supported as of version 5.32.

(*) **Added weeks to ParseDateDelta.**

Suggested by Mike Bassman. Note that since this is a late addition, I did not change the internal format of a delta. Instead, it is added to the days field.

(*) Now reads a config file.

Refer to the Date_Init documentation for details.

(*) Added business mode.

See documentation. Suggested by Mike Bassman.

New features**(*) Modified how deltas are normalized and added the DeltaSigns config variable.**

Added %q format "YYYYMMDDHHMMSS" to UnixDate. Requested by Rob Perelman. Also added %P format "YYYYMMDDHH:MM:SS".

Added a new config variable to allow you to work with multiple internal formats (with and without colons). Requested by Rob Perelman. See Date_Init documentation.

Added the following formats suggested by Andreas Johansson:

Sunday week 22 [in 1996] [at 12:00]
 22nd Sunday [in 1996] [at 12:00]
 Sunday 22nd week [in 1996] [at 12:00]

Added a new config variable to allow you to define the first day of the week. See Date_Init documentation.

Added the following formats to ParseDate for convenience (some were suggested by Mike Bassman):

next/last Friday [at time]
 next/last week [at time]
 in 2 weeks [at time]
 2 weeks ago [at time]
 Friday in 2 weeks
 in 2 weeks on Friday
 Friday 2 weeks ago
 2 weeks ago Friday

Added Date_SecsSince1970GMT, moved the %s format to %o (secs since 1/1/70) and added %S format (secs since 1/1/70 GMT). Based on suggestions by Mark Osbourne. Note this introduces a minor backward incompatibility described above.

Date_SetTime now works with international time separators.

Added the %g format (%a, %d %b %Y %H:%M:%S %z) for an RFC 1123 date. Suggested by Are Bryne.

Added options to delete existing holidays and ignore global config file.

Date_GetNext and Date_GetPrev now return the next/prev occurrence of a time as well as a day. Suggested by Are Bryne.

In approximate mode, deltas now come out completely normalized (only 1 sign). Suggested by Rob Perelman.

Added Date::Manip::InitDone so initialization isn't duplicated.

Added a 3rd internal format to store YYYY-MM-DD HH:MM:SS (iso 8601).

Added a config variable to allow you to work with 24 hour business days. Suggested by Mike Bassman.

ParseDateDelta now returns "" rather than "+0:0:0:0:0" when there is an error.

Bug fixes**(*) The d:h:mn:s of ALL deltas are normalized.**

Huge number of code changes to clean things up.

Subroutines now check to see if 4 digit years are entered. Suggested by Are Bryne.

Added local(\$_) to all routines which use \$_. Suggested by Rob Perelman.

Complete rewrite of DateCalc.

Fixed a bug where UnixDate %E format didn't work with single digit dates. Patch supplied by Jyrgen Nyrgaard.

Fixed a bug where "today" was not converted to the correct time zone.

Time zone fixes

Fixed bug in Date_TimeZone where it didn't recognize +HHMN type time zones. Thanks to Are Bryne.

Added WindowsNT check to Date_TimeZone to get around NT's weird date command. Thanks to Are Bryne.

Fixed typo (CSD instead of CST).

Fixed sign in military time zones making Date::Manip RFC 1123 compliant (except that time zone information is not stored in any format)

Test fixes

(*) **Added test suite!**

VERSION 5.06 (1996-10-25)

New features

Added "today at time" formats.

ParseDateDelta now normalizes the delta as well as DateCalc.

Added %Q format "YYYYMMDD" to UnixDate. Requested by Rob Perelman.

Bug fixes

Fixed another two places where a variable was declared twice using my (thanks to Ric Steinberger).

Fixed a bug where fractional seconds weren't parsed correctly.

Fixed a bug where "noon" and other special times were not parsed in the "which day of month" formats.

Fixed a minor bug where a few matches were case sensitive.

The command "date +%Z" doesn't work on SunOS machines (and perhaps others) so 5.05 is effectively broken. 5.06 released to fix this. Reported by Rob Perelman.

VERSION 5.05 (1996-10-11)

New features

Changed deltas to be all positive or all negative when produced by DateCalc. Suggested by Steve Braun

Added DateManipVersion routine.

(*) **Parses RFC 822 dates (thanks to J.B. Nicholson-Owens for suggestion).**

Parses ctime() date formats (suggested by Matthew R. Sheahan).

Now supports times like "noon" and "midnight".

Bug fixes

Fixed bug introduced in 5.04 when default day set to 1. When no date given, have day default to today rather than 1. It only defaults to one if a partial date is given.

Fixed bug where Date_DaysSince999 returned the wrong value (the error did not affect any other functions in Date::Manip due to the way it was called and the nature of the error). Pointed out by Jason Baker

Dates with commas in them are now read properly.

Fixed two places where a variable was declared twice using my (thanks to Ric Steinberger).

Hopefully fixed installation problems.

Got rid of the last (I think) couple of US specific strings.

Fixed bug in Date_SetTime (didn't work with \$hr,\$min,\$sec < 10).

Added ModuloAddition routine and simplified DateCalc.

Time zone fixes

(*) **Now supports time zones.**

(*) **Added Date_ConvTZ routine for time zone support.**

Date_TimeZone will now also check 'date '+%Z' suggested by Aharon Schkolnik.

Language fixes

Added Swedish translation (thanks to Andreas Johansson)

The time separators are now language specific so the French can write "10h30" and the Swedes can write "10.30". Suggested by Andreas Johansson.

Documentation fixes

Fixed bad mistake in documentation (use Date::Manip instead of use DateManip) pointed out by tuc@valhalla.stormking.com

Minor improvements to documentation.

Documented the 'sort within a sort' bug.

Fixed type in documentation/README pointed out by James K. Bence.

VERSION 5.04 (1996-08-01)

New features

Added support for fractional seconds (as generated by Sybase). They are parsed and ignored. Added by Kurt Stephens

Bug fixes

Fixed bugs reported by J.B. Nicholson-Owens

"Tue Jun 25 1996" wasn't parsed correctly (regexp was case sensitive)

full day names not parsed correctly

the default day in ErrorCheck should be 1, NOT currd since when currd>28, it may not be a valid date for the month

VERSION 5.03 (1996-07-17)

Bug fixes

Fixed a couple of bugs in UnixDate.

Declared package variables to avoid warning "Identifier XXX used only once". Thanks to Peter Bray for the suggestion.

VERSION 5.02 (1996-07-15)

New features

(*) **Added some internationalization (most of the routines had to be modified at least slightly)**

Bug fixes

Fixed a bug where repeated calls to ParseDate("today") was not reset

Replaced the %Date::Manip::Date variable with a large number of other, more flexible variables

Rewrote the Init routine

VERSION 5.01 (1996-06-24)

New features

Added %F format to UnixDate. Rob Perelman

Added “Date at Time” types

Weekdays can be entered and checked

Two digit years fall in the range CurrYear-89 to CurrYear+10

Bug fixes

Reworked a number of the ParseDate regular expressions to make them more flexible

Documentation fixes

Fixed a typo (Friday misspelled Fridat). Rob Perelman

Documentation problem for \%serr in DateCalc. Rob Perelman

VERSION 5.00 (1996-06-21)**(*) Switched to a package.**

Patch supplied by Peter Bray:

renamed to Date::Manip

changed version number to 2 decimal places

added POD documentation

Thanks to Peter Bray, Randal Schwartz, Andreas Koenig for suggestions

Bug fixes

Fixed a bug pointed out by Peter Bray where it was complaining of an uninitialized variable.

VERSION 4.3 (1995-10-26)

New features

Added “which dow in mmm” formats to ParseDate. Mark Dedlow

Bug fixes

Added a bugfix of Adam Nevins where “12:xx pm” used to be parsed “24:xx:00”.

VERSION 4.2 (1995-10-23)

New features

UnixDate will now return a scalar or list depending on context

ParseDate/ParseDateDelta will now take a scalar, a reference to a scalar, or a reference to an array

(*) Simple time zone handling

(*) Added Date_SetTime, Date_GetPrev, Date_GetNext

Bug fixes

Added copyright notice (requested by Tim Bunce)

VERSION 4.1 (1995-10-18)

New features

(*) Added DateCalc

Bug fixes

Changed %DATE_ to %DateManip::Date

(*) Rewrote ParseDateDelta

VERSION 4.0 (1995-08-13)**(*) First public release**

New features

Added time first formats to ParseDate

Bug fixes

(*) **Switched to perl 5**

Cleaned up ParseDate, ParseDateDelta

VERSION 3.0 (1995-05-03)

New features

Added today/tomorrows/etc. formats

(*) **Added UnixDate**

(*) **Added ParseDateDelta**

Bug fixes

Added %DATE_ global variable to clean some stuff up

Simplified several routines

VERSION 2.0 (1995-04-17)

New features

Included ideas from Time::ParseDate (David Muir Sharnoff)

Included ideas from date.pl 3.2 (Terry McGonigal)

(*) **Added seconds to ParseDate**

Bug fixes

Made error checking much nicer

VERSION 1.2 (1995-03-31)

New features

Added a few date formats

Bug fixes

Made months case insensitive

VERSION 1.1 (1995-02-08)

New features

Added leap year checking

Both “Feb” and “February” formats available

VERSION 1.0 (1995-01-20)

(*) **Initial release**

Though not released to the public, the initial released combined routines from several scripts into one library.

BUGS AND QUESTIONS

Please refer to the Date::Manip::Problems documentation for information on submitting bug reports or questions to the author.

SEE ALSO

Date::Manip – main module documentation

LICENSE

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