

Changes in R

From version 3.5.0 patched to version 3.5.2

by R Core Team

CHANGES IN R 3.5.2

PACKAGE INSTALLATION

- New macro ‘CXX_VISIBILITY’ analogous to ‘C_VISIBILITY’ (which several packages have been misusing for C++ code) for the default C++ compiler (but not necessarily one used for non-default C++ dialects like C++14).

TESTING

- The random number generator tests in ‘tests/p-r-random-tests.R’ no longer fail occasionally as they now randomly sample from “certified” random seeds.

BUG FIXES

- The “glm” method of `drop1()` miscalculated the score test (`test="Rao"`) when the model contained an offset.
- Linear multiple empty models such as `lm(y ~ 0)` now have a correctly dimensioned empty coefficient matrix; reported by Brett Presnell.
- `vcov(<empty mlm>)` and hence `confint()` now work (via a consistency change in `summary.lm()`).
- `confint(<multiple lm>)` now works correctly; reported on R-devel by Steven Pav.
- `quade.test()` now also works correctly when its arguments are not yet sorted along groups, fixing [PR#15842](#).
- Installation on a Unix-alike tries harder to link to the ‘pthread’ library where required (rather than relying on OpenMP to provide it: configuring with ‘--disable-openmp’ was failing on some Linux systems).
- The `data.frame` method for `print(x)` is fast now also for large data frames `x` and got an optional argument `max`, thanks to suggestions by Juan Telleria.
- `hist()` no longer integer overflows in very rare cases, fixing [PR#17450](#).
- `untar()` ignored a character compressed argument: however many external tar programs ignore the flags which should have been set and automatically choose the compression type, and if appropriate `gzip` or `bzip2` compression would have been chosen from the magic header of the tarball.
- `zapsmall(x)` now works for more “number-like” objects.
- The tools-internal function called from R CMD INSTALL now gets a `warnOption = 1` argument and only sets `options(warn = warnOption)` when that increases the warning level ([PR#17453](#)).
- Analogously, the tools-internal function called from R CMD check gets a `warnOption = 1` argument and uses the larger of that and `getOption("warn")`, also allowing to be run with increased warning level.
- Parse data now have deterministic parent nodes ([PR#16041](#)).

- Calling `match()` with length one `x` and `POSIXlt` table gave a segfault ([PR#17459](#)).
- Fork clusters could hang due to a race condition in cluster initialization (`makeCluster()`).
- `nextn(n)` now also works for larger `n` and no longer loops infinitely for e.g. `n <-214e7`.
- `cooks.distance()` and `rstandard()` now work correctly for multiple linear models ("`mlm`").
- `polym()` and corresponding `lm()` prediction now also work for a boundary "vector" case fixing [PR#17474](#), reported by Alexandre Courtiol.
- With a very large number of variables `terms()` could segfault ([PR#17480](#)).
- `cut(rep(0,7))` now works, thanks to Joey Reid and Benjamin Tyner ([PR#16802](#)).
- `download.file(*,method = "curl",cacheOK = FALSE)` should work now on Windows, thanks to Kevin Ushey's patch in [PR#17323](#).
- `duplicated(<dataframe with 'f'>)` now works, too, thanks to Andreas Kersting's [PR#17485](#); ditto for `anyDuplicated()`.
- `legend(*,cex = 1:2)` now works less badly.
- The `print()` method for `POSIXct` and `POSIXlt` now correctly obeys `getOption("max.print")`, fixing a long-standing typo, and it also gets a corresponding optional `max` argument.
- Unserialization of raw vectors serialized in ASCII representation now works correctly.
- `<data frame>[TRUE,<new>] <-list(c1,c2)` now works correctly, thanks to Suharto Anggono's [PR#15362](#) and Emil Bode's patch in [PR#17504](#).
- `seq.int(*,by=by,length=n)` no longer wrongly "drops fractional parts" when `by` is integer, thanks to Suharto Anggono's report [PR#17506](#).
- Buffering is disabled for `file()` connections to non-regular files (like sockets), as well as `fifo()` and `pipe()` connections. Fixes [PR#17470](#), reported by Chris Culnane.

CHANGES IN R 3.5.1

BUG FIXES

- `file("stdin")` is no longer considered seekable.
- `dput()` and `dump()` are no longer truncating when `options(deparse.max.lines = *)` is set.
- Calls with an S3 class are no longer evaluated when printed, fixing part of [PR#17398](#), thanks to a patch from Lionel Henry.
- Allow `file` argument of `Rscript` to include space even when it is first on the command line.
- `callNextMethod()` uses the generic from the environment of the calling method. Reported by Hervé Pagès with well documented examples.
- Compressed file connections are marked as blocking.
- `optim(*,lower = c(-Inf,-Inf))` no longer warns (and switches the method), thanks to a suggestion by John Nash.

- `predict(fm,newdata)` is now correct also for models where the formula has terms such as `splines::ns(..)` or `stats::poly(..)`, fixing [PR#17414](#), based on a patch from Duncan Murdoch.
- `simulate.lm(glm(*,gaussian(link = <non-default>)))` has been corrected, fixing [PR#17415](#) thanks to Alex Courtiol.
- `unlist(x)` no longer fails in some cases of nested empty lists. Reported by Steven Nydick.
- `qr.coef(qr(<all 0,w/ colnames>))` now works. Reported by Kun Ren.
- The radix sort is robust to vectors with >1 billion elements (but long vectors are still unsupported). Thanks to Matt Dowle for the fix.
- Terminal connections (e.g., `stdin`) are no longer buffered. Fixes [PR#17432](#).
- `deparse(x)`, `dput(x)` and `dump()` now respect `c()`'s argument names `recursive` and `use.names`, e.g., for `x <-setNames(0,"recursive")`, thanks to Suharto Anggono's [PR#17427](#).
- Unbuffered connections now work with encoding conversion. Reported by Stephen Berman.
- `'.Renviron'` on Windows with `Rgui` is again by default searched for in user documents directory when invoked *via* the launcher icon. Reported by Jeroen Ooms.
- `printCoefmat()` now also works with explicit `right=TRUE`.
- `print.noquote()` now also works with explicit `quote=FALSE`.
- The default method for `pairs(..,horInd=*,verInd=*)` now gets the correct order, thanks to reports by Chris Andrews and Gerrit Eichner. Additionally, when `horInd` or `verInd` contain only a subset of variables, all the axes are labeled correctly now.
- `agrep("..|..",..,fixed=FALSE)` now matches when it should, thanks to a reminder by Andreas Kolter.
- `str(ch)` now works for more invalid multibyte strings.