

Status for build **mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0** (/status/mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0), package mrgsolve, version 0.8.5

Package: mrgsolve
Version: 0.8.5
Status: success
Duration: 17 minutes 0.7 seconds

Preparing

```
1  #> Started by user r-hub Jenkins admin
2  #> Building remotely on 10.2.0.6-d57693d5 (slave swarm linux) in workspace
   /home/ubuntu/workspace/mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0
3  #> [mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0] $ /bin/sh -xe /tmp/hudson7551661475959897413.sh

4  date -u +%Y-%m-%dT%H:%M:%SZ
5  wget https://builder.r-hub.io/build/in-progress/mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0/2017-03-14T16:17:51Z

6  #> --2017-03-14 16:17:51-- https://builder.r-hub.io/build/in-progress/mrgsolve_0.8.5.tar.gz-
   0e6d48161a420390950c7be4eeab50c0/2017-03-14T16:17:51Z
7  #> Resolving builder.r-hub.io (builder.r-hub.io)... 54.67.48.72
8  #> Connecting to builder.r-hub.io (builder.r-hub.io)|54.67.48.72|:443... connected.
9  #> HTTP request sent, awaiting response... 200 OK
10 #> Syntax error in Set-Cookie: r-hub frontend=s%3A094fe736-a8ce-481e-b46f-
   f31ef46900e2.plXd1hsg21GLCh1bqD7nFeRGdY21c2pQEdQcvYXpxh8; Path=/; Expires=Wed, 15 Mar 2017 02:24:54 GMT at position
   0.
11 #> Length: unspecified [application/json]
12 #> Saving to: '2017-03-14T16:17:51Z'
13 #> 0K 1.47M=0s
14 #> 2017-03-14 16:17:52 (1.47 MB/s) - '2017-03-14T16:17:51Z' saved [15]

15 docker run --user docker --rm rhub/rocker-gcc-san bash -c echo $RHUB_PLATFORM
16 export RHUB_PLATFORM=linux-x86_64-debian-gcc
```

Downloading and unpacking package file

```
19  wget -O mrgsolve_0.8.5.tar.gz http://builder.r-hub.io/file/0e6d48161a420390950c7be4eeab50c0

20 #> --2017-03-14 16:17:53-- http://builder.r-hub.io/file/0e6d48161a420390950c7be4eeab50c0
21 #> Resolving builder.r-hub.io (builder.r-hub.io)... 54.67.48.72
22 #> Connecting to builder.r-hub.io (builder.r-hub.io)|54.67.48.72|:80... connected.
23 #> HTTP request sent, awaiting response... 301 Moved Permanently
24 #> Location: https://builder.r-hub.io:443/file/0e6d48161a420390950c7be4eeab50c0 [following]
25 #> --2017-03-14 16:17:53-- https://builder.r-hub.io/file/0e6d48161a420390950c7be4eeab50c0
26 #> Connecting to builder.r-hub.io (builder.r-hub.io)|54.67.48.72|:443... connected.
27 #> HTTP request sent, awaiting response... 200 OK
28 #> Syntax error in Set-Cookie: r-hub frontend=s%3Aa0b4621f-a2ff-4a10-8116-
   ff44a7db6d7c.RL37o7yEOAaIn54Ke%2FpLTufJhCZQXqRHltFYdZ8EcqM; Path=/; Expires=Wed, 15 Mar 2017 02:24:56 GMT at
   position 0.
29 #> Length: 358045 (350K) [application/octet-stream]
30 #> Saving to: 'mrgsolve_0.8.5.tar.gz'
31 #> 0K ..... 14% 11.8M 0s
32 #> 50K ..... 28% 12.5M 0s
33 #> 100K ..... 42% 21.5M 0s
34 #> 150K ..... 57% 12.9M 0s
35 #> 200K ..... 71% 13.7M 0s
36 #> 250K ..... 85% 25.9M 0s
37 #> 300K ..... 100% 26.5M=0.02s
38 #> 2017-03-14 16:17:53 (16.0 MB/s) - 'mrgsolve_0.8.5.tar.gz' saved [358045/358045]

39  grep ^[/]*/DESCRIPTION$
40  tar tzf mrgsolve_0.8.5.tar.gz
41  DESC=mrgsolve/DESCRIPTION
42  tar xzf mrgsolve_0.8.5.tar.gz mrgsolve/DESCRIPTION
```

Querying system requirements

```
45  Rscript -e library(sysreqs); cat(sysreq_commands("mrgsolve/DESCRIPTION"))
```

```
46 sysreqs=export DEBIAN_FRONTEND=noninteractive; apt-get -y update && apt-get install -y libxml2-dev pandoc pandoc-  
citeproc  
47 rm -rf mrgsolve_0.8.5.tar.gz mrgsolve/DESCRIPTION
```

Installing system requirements

```
50 [ ! -z export DEBIAN_FRONTEND=noninteractive; apt-get -y update && apt-get install -y libxml2-dev pandoc pandoc-  
citeproc ]  
51 echo export DEBIAN_FRONTEND=noninteractive; apt-get -y update && apt-get install -y libxml2-dev pandoc pandoc-  
citeproc  
52 pwd  
53 docker run -d --user root --name mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0-1 -v  
/home/ubuntu/workspace/mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0/sysreqs.sh:/root/sysreqs.sh  
rhub/rocker-gcc-san bash /root/sysreqs.sh  
  
54 #> 6ebf2734cccbe81019d7b9bb1d44e7766cb5b4aa64507448aa4e12637d57f33f  
  
55 docker attach mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0-1  
  
56 #> Get:1 http://security.debian.org testing/updates InRelease [62.9 kB]  
57 #> Get:2 http://cdn-fastly.deb.debian.org/debian testing InRelease [184 kB]  
58 #> Get:3 http://cdn-fastly.deb.debian.org/debian testing-updates InRelease [88.5 kB]  
59 #> Get:5 http://cdn-fastly.deb.debian.org/debian testing/main amd64 Packages.diff/Index [27.9 kB]  
60 #> Get:5 http://cdn-fastly.deb.debian.org/debian testing/main amd64 Packages.diff/Index [27.9 kB]  
61 #> Get:4 http://cdn-fastly.deb.debian.org/debian sid InRelease [231 kB]  
62 #> Get:6 http://cdn-fastly.deb.debian.org/debian testing/main amd64 Packages [9,509 kB]  
63 #> Get:7 http://cdn-fastly.deb.debian.org/debian sid/main amd64 Packages.diff/Index [27.9 kB]  
64 #> Get:7 http://cdn-fastly.deb.debian.org/debian sid/main amd64 Packages.diff/Index [27.9 kB]  
65 #> Get:8 http://cdn-fastly.deb.debian.org/debian sid/main amd64 Packages [10.0 MB]  
66 #> Fetched 20.1 MB in 2s (8,340 kB/s)  
67 #> Reading package lists...  
68 #> Reading package lists...  
69 #> Building dependency tree...  
70 #> Reading state information...  
71 #> The following packages were automatically installed and are no longer required:  
72 #> g++-5 gfortran-5 libgfortran-5-dev libicu55 libpsl0  
73 #> Use 'apt autoremove' to remove them.  
74 #> The following additional packages will be installed:  
75 #> libbibutils2 libghc-pandoc-citeproc-data liblua5.1-0 libluajit-5.1-2  
76 #> liblua5.1-0-common libxml2-dev libyaml-0-2 pandoc-data  
77 #> Suggested packages:  
78 #> texlive-xetex texlive-luatex wkhtmltopdf  
79 #> Recommended packages:  
80 #> xml-core  
81 #> The following NEW packages will be installed:  
82 #> libbibutils2 libghc-pandoc-citeproc-data liblua5.1-0 liblua5.1-0-common liblua5.1-0  
83 #> liblua5.1-0-common libxml2-dev libyaml-0-2 pandoc pandoc-citeproc  
84 #> pandoc-data  
85 #> The following packages will be upgraded:  
86 #> libxml2  
87 #> 1 upgraded, 10 newly installed, 0 to remove and 431 not upgraded.  
88 #> Need to get 19.3 MB of archives.  
89 #> After this operation, 141 MB of additional disk space will be used.  
90 #> Get:1 http://cdn-fastly.deb.debian.org/debian testing/main amd64 libxml2 amd64 2.9.4+dfsg1-2.2 [919 kB]  
91 #> Get:2 http://cdn-fastly.deb.debian.org/debian testing/main amd64 libbibutils2 amd64 4.12-5+b2 [212 kB]  
92 #> Get:3 http://cdn-fastly.deb.debian.org/debian testing/main amd64 liblua5.1-0 amd64 5.1.5-8.1+b2 [111 kB]  
93 #> Get:4 http://cdn-fastly.deb.debian.org/debian testing/main amd64 liblua5.1-0-common all 2.0.4+dfsg-1 [36.6  
kB]  
94 #> Get:5 http://cdn-fastly.deb.debian.org/debian testing/main amd64 liblua5.1-2 amd64 2.0.4+dfsg-1+b1 [207 kB]  
95 #> Get:6 http://cdn-fastly.deb.debian.org/debian testing/main amd64 libxml2-dev amd64 2.9.4+dfsg1-2.2 [811 kB]  
96 #> Get:7 http://cdn-fastly.deb.debian.org/debian testing/main amd64 libyaml-0-2 amd64 0.1.7-2 [47.6 kB]  
97 #> Get:8 http://cdn-fastly.deb.debian.org/debian testing/main amd64 pandoc-data all 1.17.2~dfsg-3 [265 kB]  
98 #> Get:9 http://cdn-fastly.deb.debian.org/debian testing/main amd64 pandoc amd64 1.17.2~dfsg-3 [9,104 kB]  
99 #> Get:10 http://cdn-fastly.deb.debian.org/debian testing/main amd64 libghc-pandoc-citeproc-data all 0.10.2.2-1  
[67.3 kB]  
100 #> Get:11 http://cdn-fastly.deb.debian.org/debian testing/main amd64 pandoc-citeproc amd64 0.10.2.2-1+b2 [7,561  
kB]  
101 #> debconf: delaying package configuration, since apt-utils is not installed  
102 #> Fetched 19.3 MB in 0s (22.0 MB/s)  
103 #> (Reading database ...  
104 #> (Reading database ... 5%  
105 #> (Reading database ... 10%  
106 #> (Reading database ... 15%  
107 #> (Reading database ... 20%  
108 #> (Reading database ... 25%  
109 #> (Reading database ... 30%  
110 #> (Reading database ... 35%  
111 #> (Reading database ... 40%
```

```

112 #> (Reading database ... 45%
113 #> (Reading database ... 50%
114 #> (Reading database ... 55%
115 #> (Reading database ... 60%
116 #> (Reading database ... 65%
117 #> (Reading database ... 70%
118 #> (Reading database ... 75%
119 #> (Reading database ... 80%
120 #> (Reading database ... 85%
121 #> (Reading database ... 90%
122 #> (Reading database ... 95%
123 #> (Reading database ... 100%
124 #> (Reading database ... 102983 files and directories currently installed.)
125 #> Preparing to unpack .../00-libxml2_2.9.4+dfsg1-2.2_amd64.deb ...
126 #> Unpacking libxml2:amd64 (2.9.4+dfsg1-2.2) over (2.9.4+dfsg1-2) ...
127 #> Selecting previously unselected package libbibutils2.
128 #> Preparing to unpack .../01-libbibutils2_4.12-5+b2_amd64.deb ...
129 #> Unpacking libbibutils2 (4.12-5+b2) ...
130 #> Selecting previously unselected package liblua5.1-0:amd64.
131 #> Preparing to unpack .../02-liblua5.1-0_5.1.5-8.1+b2_amd64.deb ...
132 #> Unpacking liblua5.1-0:amd64 (5.1.5-8.1+b2) ...
133 #> Selecting previously unselected package libluajit-5.1-common.
134 #> Preparing to unpack .../03-liblua5.1-common_2.0.4+dfsg-1_all.deb ...
135 #> Unpacking liblua5.1-common (2.0.4+dfsg-1) ...
136 #> Selecting previously unselected package liblua5.1-2:amd64.
137 #> Preparing to unpack .../04-liblua5.1-2_2.0.4+dfsg-1+b1_amd64.deb ...
138 #> Unpacking liblua5.1-2:amd64 (2.0.4+dfsg-1+b1) ...
139 #> Selecting previously unselected package libxml2-dev:amd64.
140 #> Preparing to unpack .../05-libxml2-dev_2.9.4+dfsg1-2.2_amd64.deb ...
141 #> Unpacking libxml2-dev:amd64 (2.9.4+dfsg1-2.2) ...
142 #> Selecting previously unselected package libyaml-0-2:amd64.
143 #> Preparing to unpack .../06-libyaml-0-2_0.1.7-2_amd64.deb ...
144 #> Unpacking libyaml-0-2:amd64 (0.1.7-2) ...
145 #> Selecting previously unselected package pandoc-data.
146 #> Preparing to unpack .../07-pandoc-data_1.17.2~dfsg-3_all.deb ...
147 #> Unpacking pandoc-data (1.17.2~dfsg-3) ...
148 #> Selecting previously unselected package pandoc.
149 #> Preparing to unpack .../08-pandoc_1.17.2~dfsg-3_amd64.deb ...
150 #> Unpacking pandoc (1.17.2~dfsg-3) ...
151 #> Selecting previously unselected package libghc-pandoc-citeproc-data.
152 #> Preparing to unpack .../09-libghc-pandoc-citeproc-data_0.10.2.2-1_all.deb ...
153 #> Unpacking libghc-pandoc-citeproc-data (0.10.2.2-1) ...
154 #> Selecting previously unselected package pandoc-citeproc.
155 #> Preparing to unpack .../10-pandoc-citeproc_0.10.2.2-1+b2_amd64.deb ...
156 #> Unpacking pandoc-citeproc (0.10.2.2-1+b2) ...
157 #> Setting up libbibutils2 (4.12-5+b2) ...
158 #> Setting up liblua5.1-common (2.0.4+dfsg-1) ...
159 #> Setting up pandoc-data (1.17.2~dfsg-3) ...
160 #> Setting up libghc-pandoc-citeproc-data (0.10.2.2-1) ...
161 #> Setting up libxml2:amd64 (2.9.4+dfsg1-2.2) ...
162 #> Setting up libxml2-dev:amd64 (2.9.4+dfsg1-2.2) ...
163 #> Setting up libyaml-0-2:amd64 (0.1.7-2) ...
164 #> Processing triggers for libc-bin (2.24-3) ...
165 #> Setting up liblua5.1-2:amd64 (2.0.4+dfsg-1+b1) ...
166 #> Processing triggers for man-db (2.7.5-1) ...
167 #> Setting up liblua5.1-0:amd64 (5.1.5-8.1+b2) ...
168 #> Setting up pandoc (1.17.2~dfsg-3) ...
169 #> Setting up pandoc-citeproc (0.10.2.2-1+b2) ...
170 #> Processing triggers for libc-bin (2.24-3) ...

171 docker commit mrgsolve_0.8.5.tar.gz-0e6d48161a420390950c7be4eeab50c0-1
172 newimage=sha256:8c41e35167fbab81205cbcf2d43d2ca5963d4d64a1ff9ddade74064382e75482
173 tempfile
174 env=/tmp/file80aril
175 echo url=http://builder.r-hub.io/file/0e6d48161a420390950c7be4eeab50c0
176 echo package=mrgsolve_0.8.5.tar.gz
177 echo checkArgs=
178 echo

```

Starting Docker container

```

181 docker run -i --user docker --env-file /tmp/file80aril --name mrgsolve_0.8.5.tar.gz-
0e6d48161a420390950c7be4eeab50c0-2 sha256:8c41e35167fbab81205cbcf2d43d2ca5963d4d64a1ff9ddade74064382e75482 /bin/bash
-l

182 #> ls: cannot access '/opt/R-*': No such file or directory
183 #> R Under development (unstable) (2016-09-18 r71304) -- "Unsuffered Consequences"

```

```

184 #> Copyright (C) 2016 The R Foundation for Statistical Computing
185 #> Platform: x86_64-pc-linux-gnu (64-bit)
186 #> R is free software and comes with ABSOLUTELY NO WARRANTY.
187 #> You are welcome to redistribute it under certain conditions.
188 #> Type 'license()' or 'licence()' for distribution details.
189 #> Natural language support but running in an English locale
190 #> R is a collaborative project with many contributors.
191 #> Type 'contributors()' for more information and
192 #> 'citation()' on how to cite R or R packages in publications.
193 #> Type 'demo()' for some demos, 'help()' for on-line help, or
194 #> 'help.start()' for an HTML browser interface to help.
195 #> Type 'q()' to quit R.
196 #> > source('https://bioconductor.org/biocLite.R')
197 #> Installing package into '/home/docker/R'
198 #> (as 'lib' is unspecified)
199 #> trying URL 'https://bioconductor.org/packages/3.5/bioc/src/contrib/BiocInstaller_1.25.3.tar.gz'
200 #> Content type 'application/x-gzip' length 18091 bytes (17 KB)
201 #> =====
202 #> downloaded 17 KB
203 #> * installing *source* package 'BiocInstaller' ...
204 #> ** R
205 #> ** inst
206 #> ** preparing package for lazy loading
207 #> ** help
208 #> *** installing help indices
209 #> ** building package indices
210 #> ** testing if installed package can be loaded
211 #> Bioconductor version 3.5 (BiocInstaller 1.25.3), ?biocLite for help
212 #> * DONE (BiocInstaller)
213 #> The downloaded source packages are in
214 #> '/tmp/RtmpgMkIhQ/downloaded_packages'
215 #> Bioconductor version 3.5 (BiocInstaller 1.25.3), ?biocLite for help
216 #> >
217 #> >

```

Querying package dependencies

```

219 #> % Total % Received % Xferd Average Speed Time Time Time Current
220 #> Dload Upload Total Spent Left Speed
221 #> 0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
222 #> 3 56854 3 1925 0 0 5872 0 0:00:09 --:--:-- 0:00:09 5868
223 #> 100 56854 100 56854 0 0 153k 0 --:--:-- --:--:-- --:--:-- 153k
224 #> R Under development (unstable) (2016-09-18 r71304) -- "Unsuffered Consequences"
225 #> Copyright (C) 2016 The R Foundation for Statistical Computing
226 #> Platform: x86_64-pc-linux-gnu (64-bit)
227 #> R is free software and comes with ABSOLUTELY NO WARRANTY.
228 #> You are welcome to redistribute it under certain conditions.
229 #> Type 'license()' or 'licence()' for distribution details.
230 #> Natural language support but running in an English locale
231 #> R is a collaborative project with many contributors.
232 #> Type 'contributors()' for more information and
233 #> 'citation()' on how to cite R or R packages in publications.
234 #> Type 'demo()' for some demos, 'help()' for on-line help, or
235 #> 'help.start()' for an HTML browser interface to help.
236 #> Type 'q()' to quit R.
237 #> > source("install-github.R")$value("mangothecat/remotes")
238 #> Downloading GitHub repo mangothecat/remotes@master
239 #> Installing package into '/home/docker/R'
240 #> (as 'lib' is unspecified)
241 #> * installing *source* package 'remotes' ...
242 #> ** R
243 #> ** inst
244 #> ** preparing package for lazy loading
245 #> ** help
246 #> *** installing help indices
247 #> ** building package indices
248 #> ** testing if installed package can be loaded
249 #> * DONE (remotes)
250 #> >
251 #> >
252 #> % Total % Received % Xferd Average Speed Time Time Time Current
253 #> Dload Upload Total Spent Left Speed
254 #> 0 0 0 0 0 0 0 0 --:--:-- --:--:-- --:--:-- 0
255 #> 100 178 100 178 0 0 17634 0 --:--:-- --:--:-- --:--:-- 17800
256 #> 100 349k 100 349k 0 0 2058k 0 --:--:-- --:--:-- --:--:-- 2058k

```

Installing package dependencies

```

258 #> /bin:/usr/local/bin:/usr/bin:/bin:/usr/local/games:/usr/games
259 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer
260 #> gcc (Debian 6.1.1-11) 6.1.1 20160802
261 #> Copyright (C) 2016 Free Software Foundation, Inc.
262 #> This is free software; see the source for copying conditions. There is NO
263 #> warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
264 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr
265 #> g++ (Debian 6.1.1-11) 6.1.1 20160802
266 #> Copyright (C) 2016 Free Software Foundation, Inc.
267 #> This is free software; see the source for copying conditions. There is NO
268 #> warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
269 #> Pandoc:
270 #> /usr/bin/pandoc
271 #> -rwxr-xr-x 1 root root 70794632 Nov 12 03:46 /usr/bin/pandoc
272 #> -rwxr-xr-x 1 root root 62233992 Nov 1 01:03 /usr/bin/pandoc-citeproc
273 #> R Under development (unstable) (2016-09-18 r71304) -- "Unsurpassed Consequences"
274 #> Copyright (C) 2016 The R Foundation for Statistical Computing
275 #> Platform: x86_64-pc-linux-gnu (64-bit)
276 #> R is free software and comes with ABSOLUTELY NO WARRANTY.
277 #> You are welcome to redistribute it under certain conditions.
278 #> Type 'license()' or 'licence()' for distribution details.
279 #> Natural language support but running in an English locale
280 #> R is a collaborative project with many contributors.
281 #> Type 'contributors()' for more information and
282 #> 'citation()' on how to cite R or R packages in publications.
283 #> Type 'demo()' for some demos, 'help()' for on-line help, or
284 #> 'help.start()' for an HTML browser interface to help.
285 #> Type 'q()' to quit R.
286 #> > remotes::install_local("mrgsolve_0.8.5.tar.gz", dependencies = TRUE, INSTALL_opts = "--build")
287 #> Installing 31 packages: assertthat, backports, base64enc, BH, bitops, caTools, crayon, DBI, digest, dplyr,
    evaluate, highr, htmltools, jsonlite, knitr, lattice, lazyeval, markdown, mime, praise, R6, Rcpp, RcppArmadillo,
    rmarkdown, rprojroot, stringi, stringr, testthat, tibble, XML, yaml
288 #> Installing packages into '/home/docker/R'
289 #> (as 'lib' is unspecified)
290 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/assertthat_0.1.tar.gz'
291 #> Content type 'application/x-gzip' length 10187 bytes
292 #> =====
293 #> downloaded 10187 bytes
294 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/backports_1.0.5.tar.gz'
295 #> Content type 'application/x-gzip' length 6869 bytes
296 #> =====
297 #> downloaded 6869 bytes
298 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/base64enc_0.1-
    3.tar.gz'
299 #> Content type 'application/x-gzip' length 7833 bytes
300 #> =====
301 #> downloaded 7833 bytes
302 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/BH_1.62.0-1.tar.gz'
303 #> Content type 'application/x-gzip' length 10181096 bytes (9.7 MB)
304 #> =====
305 #> downloaded 9.7 MB
306 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/bitops_1.0-6.tar.gz'
307 #> Content type 'application/x-gzip' length 8734 bytes
308 #> =====
309 #> downloaded 8734 bytes
310 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/caTools_1.17.1.tar.gz'
311 #> Content type 'application/x-gzip' length 63358 bytes (61 KB)
312 #> =====
313 #> downloaded 61 KB
314 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/crayon_1.3.2.tar.gz'
315 #> Content type 'application/x-gzip' length 656168 bytes (640 KB)
316 #> =====
317 #> downloaded 640 KB
318 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/DBI_0.6.tar.gz'
319 #> Content type 'application/x-gzip' length 611282 bytes (596 KB)
320 #> =====
321 #> downloaded 596 KB
322 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/digest_0.6.12.tar.gz'
323 #> Content type 'application/x-gzip' length 120337 bytes (117 KB)
324 #> =====
325 #> downloaded 117 KB

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326 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/dplyr_0.5.0.tar.gz'
327 #> Content type 'application/x-gzip' length 708476 bytes (691 KB)
328 #> =====
329 #> downloaded 691 KB
330 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/evaluate_0.10.tar.gz'
331 #> Content type 'application/x-gzip' length 21914 bytes (21 KB)
332 #> =====
333 #> downloaded 21 KB
334 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/highr_0.6.tar.gz'
335 #> Content type 'application/x-gzip' length 17294 bytes (16 KB)
336 #> =====
337 #> downloaded 16 KB
338 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/htmltools_0.3.5.tar.gz'
339 #> Content type 'application/x-gzip' length 44048 bytes (43 KB)
340 #> =====
341 #> downloaded 43 KB
342 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/jsonlite_1.3.tar.gz'
343 #> Content type 'application/x-gzip' length 1060613 bytes (1.0 MB)
344 #> =====
345 #> downloaded 1.0 MB
346 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/knitr_1.15.1.tar.gz'
347 #> Content type 'application/x-gzip' length 1027808 bytes (1003 KB)
348 #> =====
349 #> downloaded 1003 KB
350 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/lattice_0.20-
    34.tar.gz'
351 #> Content type 'application/x-gzip' length 353702 bytes (345 KB)
352 #> =====
353 #> downloaded 345 KB
354 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/lazyeval_0.2.0.tar.gz'
355 #> Content type 'application/x-gzip' length 317272 bytes (309 KB)
356 #> =====
357 #> downloaded 309 KB
358 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/markdown_0.7.7.tar.gz'
359 #> Content type 'application/x-gzip' length 79427 bytes (77 KB)
360 #> =====
361 #> downloaded 77 KB
362 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/mime_0.5.tar.gz'
363 #> Content type 'application/x-gzip' length 12634 bytes (12 KB)
364 #> =====
365 #> downloaded 12 KB
366 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/praise_1.0.0.tar.gz'
367 #> Content type 'application/x-gzip' length 6100 bytes
368 #> =====
369 #> downloaded 6100 bytes
370 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/R6_2.2.0.tar.gz'
371 #> Content type 'application/x-gzip' length 203498 bytes (198 KB)
372 #> =====
373 #> downloaded 198 KB
374 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/Rcpp_0.12.9.tar.gz'
375 #> Content type 'application/x-gzip' length 2372283 bytes (2.3 MB)
376 #> =====
377 #> downloaded 2.3 MB
378 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/RcppArmadillo_0.7.700.0.0.tar.gz'
379 #> Content type 'application/x-gzip' length 1075328 bytes (1.0 MB)
380 #> =====
381 #> downloaded 1.0 MB
382 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/rmarkdown_1.3.tar.gz'
383 #> Content type 'application/x-gzip' length 2073859 bytes (2.0 MB)
384 #> =====
385 #> downloaded 2.0 MB
386 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/rprojroot_1.2.tar.gz'
387 #> Content type 'application/x-gzip' length 42063 bytes (41 KB)
388 #> =====
389 #> downloaded 41 KB
390 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/stringi_1.1.2.tar.gz'
391 #> Content type 'application/x-gzip' length 3644855 bytes (3.5 MB)
392 #> =====
393 #> downloaded 3.5 MB
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394 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/stringr_1.2.0.tar.gz'
395 #> Content type 'application/x-gzip' length 94095 bytes (91 KB)
396 #> =====
397 #> downloaded 91 KB
398 #> trying URL
    'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/testthat_1.0.2.tar.gz'
399 #> Content type 'application/x-gzip' length 147298 bytes (143 KB)
400 #> =====
401 #> downloaded 143 KB
402 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/tibble_1.2.tar.gz'
403 #> Content type 'application/x-gzip' length 54517 bytes (53 KB)
404 #> =====
405 #> downloaded 53 KB
406 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/XML_3.98-1.5.tar.gz'
407 #> Content type 'application/x-gzip' length 1599213 bytes (1.5 MB)
408 #> =====
409 #> downloaded 1.5 MB
410 #> trying URL 'http://jenkins.iotwjus4p5merbek114fbzbqud.dx.internal.cloudapp.net/src/contrib/yaml_2.1.14.tar.gz'
411 #> Content type 'application/x-gzip' length 81095 bytes (79 KB)
412 #> =====
413 #> downloaded 79 KB
414 #> * installing *source* package 'assertthat' ...
415 #> ** package 'assertthat' successfully unpacked and MD5 sums checked
416 #> ** R
417 #> ** inst
418 #> ** preparing package for lazy loading
419 #> ** help
420 #> *** installing help indices
421 #> ** building package indices
422 #> ** testing if installed package can be loaded
423 #> * creating tarball
424 #> packaged installation of 'assertthat' as 'assertthat_0.1_R_x86_64-pc-linux-gnu.tar.gz'
425 #> * DONE (assertthat)
426 #> * installing *source* package 'backports' ...
427 #> ** package 'backports' successfully unpacked and MD5 sums checked
428 #> ** R
429 #> ** byte-compile and prepare package for lazy loading
430 #> ** help
431 #> *** installing help indices
432 #> ** building package indices
433 #> ** testing if installed package can be loaded
434 #> * creating tarball
435 #> packaged installation of 'backports' as 'backports_1.0.5_R_x86_64-pc-linux-gnu.tar.gz'
436 #> * DONE (backports)
437 #> * installing *source* package 'base64enc' ...
438 #> ** package 'base64enc' successfully unpacked and MD5 sums checked
439 #> ** libs
440 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c base64.c -o base64.o
441 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c uriencode.c -o uriencode.o
442 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c utf8.c -o utf8.o
443 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
    L/usr/local/lib -o base64enc.so base64.o uriencode.o utf8.o -L/usr/local/lib/R/lib -lR
444 #> installing to /home/docker/R/base64enc/libs
445 #> ** R
446 #> ** preparing package for lazy loading
447 #> ** help
448 #> *** installing help indices
449 #> ** building package indices
450 #> ** testing if installed package can be loaded
451 #> * creating tarball
452 #> packaged installation of 'base64enc' as 'base64enc_0.1-3_R_x86_64-pc-linux-gnu.tar.gz'
453 #> * DONE (base64enc)
454 #> * installing *source* package 'BH' ...
455 #> ** package 'BH' successfully unpacked and MD5 sums checked
456 #> ** inst
457 #> ** help
458 #> *** installing help indices
459 #> ** building package indices
460 #> ** testing if installed package can be loaded
461 #> * creating tarball
462 #> packaged installation of 'BH' as 'BH_1.62.0-1_R_x86_64-pc-linux-gnu.tar.gz'
463 #> * DONE (BH)
464 #> * installing *source* package 'bitops' ...

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465 #> ** package 'bitops' successfully unpacked and MD5 sums checked
466 #> ** libs
467 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c bit-ops.c -o bit-ops.o
468 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c cksum.c -o cksum.o
469 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
L/usr/local/lib -o bitops.so bit-ops.o cksum.o -L/usr/local/lib/R/lib -lR
470 #> installing to /home/docker/R/bitops/libs
471 #> ** R
472 #> ** preparing package for lazy loading
473 #> ** help
474 #> *** installing help indices
475 #> ** building package indices
476 #> ** testing if installed package can be loaded
477 #> * creating tarball
478 #> packaged installation of 'bitops' as 'bitops_1.0-6_R_x86_64-pc-linux-gnu.tar.gz'
479 #> * DONE (bitops)
480 #> * installing *source* package 'crayon' ...
481 #> ** package 'crayon' successfully unpacked and MD5 sums checked
482 #> ** R
483 #> ** inst
484 #> ** preparing package for lazy loading
485 #> ** help
486 #> *** installing help indices
487 #> ** building package indices
488 #> ** testing if installed package can be loaded
489 #> * creating tarball
490 #> packaged installation of 'crayon' as 'crayon_1.3.2_R_x86_64-pc-linux-gnu.tar.gz'
491 #> * DONE (crayon)
492 #> * installing *source* package 'DBI' ...
493 #> ** package 'DBI' successfully unpacked and MD5 sums checked
494 #> ** R
495 #> ** inst
496 #> ** preparing package for lazy loading
497 #> ** help
498 #> *** installing help indices
499 #> ** building package indices
500 #> ** installing vignettes
501 #> ** testing if installed package can be loaded
502 #> * creating tarball
503 #> packaged installation of 'DBI' as 'DBI_0.6_R_x86_64-pc-linux-gnu.tar.gz'
504 #> * DONE (DBI)
505 #> * installing *source* package 'digest' ...
506 #> ** package 'digest' successfully unpacked and MD5 sums checked
507 #> ** libs
508 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c aes.c -o aes.o
509 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c crc32.c -o crc32.o
510 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c digest.c -o digest.o
511 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c init.c -o init.o
512 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c md5.c -o md5.o
513 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c pmurhash.c -o pmurhash.o
514 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c raes.c -o raes.o
515 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c sha1.c -o sha1.o
516 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c sha2.c -o sha2.o
517 #> sha2.c:304:26: warning: 'sha384_initial_hash_value' defined but not used [-Wunused-const-variable=]
518 #> const static sha2_word64 sha384_initial_hash_value[8] = {
519 #> ^~~~~~
520 #> sha2.c:248:26: warning: 'sha256_initial_hash_value' defined but not used [-Wunused-const-variable=]
521 #> const static sha2_word32 sha256_initial_hash_value[8] = {
522 #> ^~~~~~
523 #> sha2.c:228:26: warning: 'K256' defined but not used [-Wunused-const-variable=]
524 #> const static sha2_word32 K256[64] = {
525 #> ^~~~
526 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c sha256.c -o sha256.o
527 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c xxhash.c -o xxhash.o

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528 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
    L/usr/local/lib -o digest.so aes.o crc32.o digest.o init.o md5.o pmurhash.o raes.o sha1.o sha2.o sha256.o xxhash.o -
    L/usr/local/lib/R/lib -lR
529 #> installing to /home/docker/R/digest/libs
530 #> ** R
531 #> ** inst
532 #> ** preparing package for lazy loading
533 #> ** help
534 #> *** installing help indices
535 #> ** building package indices
536 #> ** installing vignettes
537 #> ** testing if installed package can be loaded
538 #> * creating tarball
539 #> packaged installation of 'digest' as 'digest_0.6.12_R_x86_64-pc-linux-gnu.tar.gz'
540 #> * DONE (digest)
541 #> * installing *source* package 'highr' ...
542 #> ** package 'highr' successfully unpacked and MD5 sums checked
543 #> ** R
544 #> ** inst
545 #> ** preparing package for lazy loading
546 #> ** help
547 #> *** installing help indices
548 #> ** building package indices
549 #> ** installing vignettes
550 #> ** testing if installed package can be loaded
551 #> * creating tarball
552 #> packaged installation of 'highr' as 'highr_0.6_R_x86_64-pc-linux-gnu.tar.gz'
553 #> * DONE (highr)
554 #> * installing *source* package 'jsonlite' ...
555 #> ** package 'jsonlite' successfully unpacked and MD5 sums checked
556 #> ** libs
557 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c base64.c -o
    base64.o
558 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c collapse_array.c
    -o collapse_array.o
559 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c collapse_object.c
    -o collapse_object.o
560 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c collapse_pretty.c
    -o collapse_pretty.o
561 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c escape_chars.c -o
    escape_chars.o
562 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c integer64_to_na.c
    -o integer64_to_na.o
563 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c is_recordlist.c -
    o is_recordlist.o
564 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c is_scalarlist.c -
    o is_scalarlist.o
565 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c modp_numtoa.c -o
    modp_numtoa.o
566 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c null_to_na.c -o
    null_to_na.o
567 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c num_to_char.c -o
    num_to_char.o
568 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c parse.c -o
    parse.o
569 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c prettify.c -o
    prettify.o
570 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c push_parser.c -o
    push_parser.o
571 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c r-base64.c -o r-
    base64.o
572 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c register.c -o
    register.o
```

```

573 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c row_collapse.c -o
    row_collapse.o
574 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c transpose_list.c
    -o transpose_list.o
575 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c validate.c -o
    validate.o
576 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c yajl/yajl.c -o
    yajl/yajl.o
577 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c yajl/yajl_alloc.c
    -o yajl/yajl_alloc.o
578 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c yajl/yajl_buf.c -
    o yajl/yajl_buf.o
579 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c
    yajl/yajl_encode.c -o yajl/yajl_encode.o
580 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c yajl/yajl_gen.c -
    o yajl/yajl_gen.o
581 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c yajl/yajl_lex.c -
    o yajl/yajl_lex.o
582 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c
    yajl/yajl_parser.c -o yajl/yajl_parser.o
583 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    Iyajl/api -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c yajl/yajl_tree.c
    -o yajl/yajl_tree.o
584 #> ar rcs libstatyajl.a yajl/yajl.o yajl/yajl_alloc.o yajl/yajl_buf.o yajl/yajl_encode.o yajl/yajl_gen.o
    yajl/yajl_lex.o yajl/yajl_parser.o yajl/yajl_tree.o
585 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
    L/usr/local/lib -o jsonlite.so base64.o collapse_array.o collapse_object.o collapse_pretty.o escape_chars.o
    integer64_to_na.o is_recordlist.o is_scalarlist.o modp_numtoa.o null_to_na.o num_to_char.o parse.o prettify.o
    push_parser.o r-base64.o register.o row_collapse.o transpose_list.o validate.o -L. -lstatyajl -L/usr/local/lib/R/lib
    -lR
586 #> installing to /home/docker/R/jsonlite/libs
587 #> ** R
588 #> ** inst
589 #> ** preparing package for lazy loading
590 #> ** help
591 #> *** installing help indices
592 #> ** building package indices
593 #> ** installing vignettes
594 #> ** testing if installed package can be loaded
595 #> * creating tarball
596 #> packaged installation of 'jsonlite' as 'jsonlite_1.3_R_x86_64-pc-linux-gnu.tar.gz'
597 #> * DONE (jsonlite)
598 #> * installing *source* package 'lattice' ...
599 #> ** package 'lattice' successfully unpacked and MD5 sums checked
600 #> ** libs
601 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c init.c -o init.o
602 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c threeDplot.c -o threeDplot.o
603 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
    L/usr/local/lib -o lattice.so init.o threeDplot.o -L/usr/local/lib/R/lib -lR
604 #> installing to /home/docker/R/lattice/libs
605 #> ** R
606 #> ** data
607 #> *** moving datasets to lazyload DB
608 #> ** demo
609 #> ** inst
610 #> ** preparing package for lazy loading
611 #> ** help
612 #> *** installing help indices
613 #> ** building package indices
614 #> ** testing if installed package can be loaded
615 #> * creating tarball
616 #> packaged installation of 'lattice' as 'lattice_0.20-34_R_x86_64-pc-linux-gnu.tar.gz'
617 #> * DONE (lattice)
618 #> * installing *source* package 'lazyeval' ...
619 #> ** package 'lazyeval' successfully unpacked and MD5 sums checked
620 #> ** libs

```

```

621 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c expr.c -o expr.o
622 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c interp.c -o interp.o
623 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c lazy.c -o lazy.o
624 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c name.c -o name.o
625 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c utils.c -o utils.o
626 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
L/usr/local/lib -o lazyeval.so expr.o interp.o lazy.o name.o utils.o -L/usr/local/lib/R/lib -lR
627 #> installing to /home/docker/R/lazyeval/libs
628 #> ** R
629 #> ** inst
630 #> ** preparing package for lazy loading
631 #> ** help
632 #> *** installing help indices
633 #> ** building package indices
634 #> ** installing vignettes
635 #> ** testing if installed package can be loaded
636 #> * creating tarball
637 #> packaged installation of 'lazyeval' as 'lazyeval_0.2.0_R_x86_64-pc-linux-gnu.tar.gz'
638 #> * DONE (lazyeval)
639 #> * installing *source* package 'mime' ...
640 #> ** package 'mime' successfully unpacked and MD5 sums checked
641 #> ** libs
642 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c rawmatch.c -o rawmatch.o
643 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
L/usr/local/lib -o mime.so rawmatch.o -L/usr/local/lib/R/lib -lR
644 #> installing to /home/docker/R/mime/libs
645 #> ** R
646 #> ** preparing package for lazy loading
647 #> ** help
648 #> *** installing help indices
649 #> ** building package indices
650 #> ** testing if installed package can be loaded
651 #> * creating tarball
652 #> packaged installation of 'mime' as 'mime_0.5_R_x86_64-pc-linux-gnu.tar.gz'
653 #> * DONE (mime)
654 #> * installing *source* package 'praise' ...
655 #> ** package 'praise' successfully unpacked and MD5 sums checked
656 #> ** R
657 #> ** inst
658 #> ** preparing package for lazy loading
659 #> ** help
660 #> *** installing help indices
661 #> ** building package indices
662 #> ** testing if installed package can be loaded
663 #> * creating tarball
664 #> packaged installation of 'praise' as 'praise_1.0.0_R_x86_64-pc-linux-gnu.tar.gz'
665 #> * DONE (praise)
666 #> * installing *source* package 'R6' ...
667 #> ** package 'R6' successfully unpacked and MD5 sums checked
668 #> ** R
669 #> ** inst
670 #> ** preparing package for lazy loading
671 #> ** help
672 #> *** installing help indices
673 #> ** building package indices
674 #> ** installing vignettes
675 #> ** testing if installed package can be loaded
676 #> * creating tarball
677 #> packaged installation of 'R6' as 'R6_2.2.0_R_x86_64-pc-linux-gnu.tar.gz'
678 #> * DONE (R6)
679 #> * installing *source* package 'Rcpp' ...
680 #> ** package 'Rcpp' successfully unpacked and MD5 sums checked
681 #> ** libs
682 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include/ -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -
mtune=native -c Date.cpp -o Date.o
683 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include/ -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -
mtune=native -c Module.cpp -o Module.o
684 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include/ -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -
mtune=native -c Rcpp_init.cpp -o Rcpp_init.o

```

```

685 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include/ -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -
    mtune=native -c api.cpp -o api.o
686 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include/ -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -
    mtune=native -c attributes.cpp -o attributes.o
687 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include/ -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -
    mtune=native -c barrier.cpp -o barrier.o
688 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
    L/usr/local/lib/R/lib -L/usr/local/lib -o Rcpp.so Date.o Module.o Rcpp_init.o api.o attributes.o barrier.o -
    L/usr/local/lib/R/lib -lR
689 #> installing to /home/docker/R/Rcpp/libs
690 #> ** R
691 #> ** inst
692 #> ** preparing package for lazy loading
693 #> code for methods in class "C++OverloadedMethods" was not checked for suspicious field assignments (recommended
    package 'codetools' not available?)
694 #> code for methods in class "RcppClass" was not checked for suspicious field assignments (recommended package
    'codetools' not available?)
695 #> code for methods in class "RcppClass" was not checked for suspicious field assignments (recommended package
    'codetools' not available?)
696 #> ** help
697 #> *** installing help indices
698 #> ** building package indices
699 #> ** installing vignettes
700 #> ** testing if installed package can be loaded
701 #> * creating tarball
702 #> packaged installation of 'Rcpp' as 'Rcpp_0.12.9_R_x86_64-pc-linux-gnu.tar.gz'
703 #> * DONE (Rcpp)
704 #> * installing *source* package 'stringi' ...
705 #> ** package 'stringi' successfully unpacked and MD5 sums checked
706 #> checking for local ICU4C DIR... icu55/data
707 #> checking for R_HOME... /usr/local/lib/R
708 #> checking for R... /usr/local/lib/R/bin/R
709 #> checking for R >= 3.1.0... yes
710 #> checking for cat... /bin/cat
711 #> checking for gcc... gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer
712 #> checking whether the C compiler works... yes
713 #> checking for C compiler default output file name... a.out
714 #> checking for suffix of executables...
715 #> checking whether we are cross compiling... no
716 #> checking for suffix of object files... o
717 #> checking whether we are using the GNU C compiler... yes
718 #> checking whether gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer accepts -g... yes
719 #> checking for gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer option to accept ISO C89...
    none needed
720 #> checking how to run the C preprocessor... g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-
    pointer -fno-sanitize=object-size,vptr -E
721 #> checking for grep that handles long lines and -e... /bin/grep
722 #> checking for egrep... /bin/grep -E
723 #> checking for ANSI C header files... yes
724 #> checking for sys/types.h... yes
725 #> checking for sys/stat.h... yes
726 #> checking for stdlib.h... yes
727 #> checking for string.h... yes
728 #> checking for memory.h... yes
729 #> checking for strings.h... yes
730 #> checking for inttypes.h... yes
731 #> checking for stdint.h... yes
732 #> checking for unistd.h... yes
733 #> checking elf.h usability... yes
734 #> checking elf.h presence... yes
735 #> checking for elf.h... yes
736 #> checking whether we are using the GNU C++ compiler... yes
737 #> checking whether g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-
    size,vptr -std=gnu++11 accepts -g... yes
738 #> checking whether the C++ compiler supports the long long type... yes
739 #> checking whether the compiler implements namespaces... yes
740 #> checking whether the compiler supports Standard Template Library... yes
741 #> checking whether std::map is available... yes
742 #> checking for pkg-config... /usr/bin/pkg-config
743 #> checking with pkg-config for ICU4C installed... 57.1
744 #> checking for ICU4C >= 50... yes
745 #> checking for proper CPPFLAGS, LDFLAGS, and LIBS... done
746 #> checking whether we may build an ICU-based project... yes
747 #> checking for available ICU data library (ucnv, uloc, utrans)... yes
748 #> checking for available ICU data library (ucol)... yes

```

```
749 #> configure: creating ./config.status
750 #> config.status: creating src/Makevars
751 #> config.status: creating src/uconfig_local.h
752 #> config.status: creating src/install.libs.R
753 #> *** stringi configure summary:
754 #> ICU_FOUND=1
755 #> ICUDT_DIR=icu55/data
756 #> STRINGI_CXXSTD=CXX_STD=CXX11
757 #> STRINGI_CFLAGS= -fpic
758 #> STRINGI_CPPFLAGS=-I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H
759 #> STRINGI_CXXFLAGS= -fpic
760 #> STRINGI_LDFLAGS=-L/usr/lib/x86_64-linux-gnu
761 #> STRINGI_LIBS=-licui18n -licuuc -licudata
762 #> *** compiler settings used:
763 #> CC=gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer
764 #> CPP=g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -E
765 #> LD=g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr
766 #> CFLAGS=-pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -fpic
767 #> CPPFLAGS=-I/usr/local/include -UDEBUG -DNDEBUG
768 #> CXX=g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11
769 #> CXXFLAGS=-pipe -Wall -pedantic -O2 -mtune=native -fpic
770 #> LDFLAGS=
771 #> LIBS=
772 #> ** libs
773 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_brkiter.cpp -o stri_brkiter.o
774 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_collator.cpp -o stri_collator.o
775 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_common.cpp -o stri_common.o
776 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_compare.cpp -o stri_compare.o
777 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_base.cpp -o stri_container_base.o
778 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_bytsearch.cpp -o stri_container_bytsearch.o
779 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_listint.cpp -o stri_container_listint.o
780 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_listraw.cpp -o stri_container_listraw.o
781 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_listutf8.cpp -o stri_container_listutf8.o
782 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_regex.cpp -o stri_container_regex.o
783 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_uresearch.cpp -o stri_container_uresearch.o
784 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_utf16.cpp -o stri_container_utf16.o
785 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_utf8.cpp -o stri_container_utf8.o
786 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_container_utf8_indexable.cpp -o stri_container_utf8_indexable.o
787 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_encoding_conversion.cpp -o stri_encoding_conversion.o
788 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_encoding_detection.cpp -o stri_encoding_detection.o
789 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_encoding_management.cpp -o stri_encoding_management.o
790 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_escape.cpp -o stri_escape.o
```



```
816 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -  
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic  
-pipe -Wall -pedantic -O2 -mtune=native -c stri_search_coll_subset.cpp -o stri_search_coll_subset.o
```



```
842 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -  
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic  
-pipe -Wall -pedantic -O2 -mtune=native -c stri_stringi.cpp -o stri_stringi.o
```

```

843 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_sub.cpp -o stri_sub.o
844 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_test.cpp -o stri_test.o
845 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_time_zone.cpp -o stri_time_zone.o
846 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_time_calendar.cpp -o stri_time_calendar.o
847 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_time_symbols.cpp -o stri_time_symbols.o
848 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_time_format.cpp -o stri_time_format.o
849 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_trans_casemap.cpp -o stri_trans_casemap.o
850 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_trans_other.cpp -o stri_trans_other.o
851 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_trans_normalization.cpp -o stri_trans_normalization.o
852 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_trans_transliterate.cpp -o stri_trans_transliterate.o
853 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_ucnv.cpp -o stri_ucnv.o
854 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_uloc.cpp -o stri_uloc.o
855 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_utils.cpp -o stri_utils.o
856 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -I/usr/local/lib/R/include -DNDEBUG -I. -UDEBUG -DNDEBUG -DU_HAVE_ELF_H -I/usr/local/include -fpic -fpic
-pipe -Wall -pedantic -O2 -mtune=native -c stri_wrap.cpp -o stri_wrap.o
857 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
std=gnu++11 -shared -L/usr/local/lib/R/lib -L/usr/local/lib -o stringi.so stri_brkiter.o stri_collator.o
stri_common.o stri_compare.o stri_container_base.o stri_container_bytsearch.o stri_container_listint.o
stri_container_listraw.o stri_container_listutf8.o stri_container_regex.o stri_container_usearch.o
stri_container_utf16.o stri_container_utf8.o stri_container_utf8_indexable.o stri_encoding_conversion.o
stri_encoding_detection.o stri_encoding_management.o stri_escape.o stri_exception.o stri_ICU_settings.o stri_join.o
stri_length.o stri_pad.o stri_prepare_arg.o stri_random.o stri_reverse.o stri_search_class_count.o
stri_search_class_detect.o stri_search_class_extract.o stri_search_class_locate.o stri_search_class_replace.o
stri_search_class_split.o stri_search_class_startswith.o stri_search_class_subset.o stri_search_class_trim.o
stri_search_common.o stri_search_coll_count.o stri_search_coll_detect.o stri_search_coll_extract.o
stri_search_coll_locate.o stri_search_coll_replace.o stri_search_coll_split.o stri_search_coll_startswith.o
stri_search_coll_subset.o stri_search_boundaries_count.o stri_search_boundaries_extract.o
stri_search_boundaries_locate.o stri_search_boundaries_split.o stri_search_fixed_count.o stri_search_fixed_detect.o
stri_search_fixed_extract.o stri_search_fixed_locate.o stri_search_fixed_replace.o stri_search_fixed_split.o
stri_search_fixed_subset.o stri_search_fixed_startswith.o stri_search_in.o stri_search_other_replace.o
stri_search_other_split.o stri_search_regex_count.o stri_search_regex_detect.o stri_search_regex_extract.o
stri_search_regex_locate.o stri_search_regex_match.o stri_search_regex_replace.o stri_search_regex_split.o
stri_search_regex_subset.o stri_sort.o stri_stats.o stri_stringi.o stri_sub.o stri_test.o stri_time_zone.o
stri_time_calendar.o stri_time_symbols.o stri_time_format.o stri_trans_casemap.o stri_trans_other.o
stri_trans_normalization.o stri_trans_transliterate.o stri_ucnv.o stri_uloc.o stri_utils.o stri_wrap.o -
L/usr/lib/x86_64-linux-gnu -licui18n -licuuc -licudata -L/usr/local/lib/R/lib -LR
858 #> installing via 'install.libs.R' to /home/docker/R/stringi
859 #> ** R
860 #> ** inst
861 #> ** preparing package for lazy loading
862 #> ** help
863 #> *** installing help indices
864 #> ** building package indices
865 #> ** testing if installed package can be loaded
866 #> * creating tarball
867 #> packaged installation of 'stringi' as 'stringi_1.1.2_R_x86_64-pc-linux-gnu.tar.gz'
868 #> * DONE (stringi)
869 #> * installing *source* package 'XML' ...
870 #> ** package 'XML' successfully unpacked and MD5 sums checked
871 #> checking for gcc... gcc
872 #> checking for C compiler default output file name... a.out
873 #> checking whether the C compiler works... yes
874 #> checking whether we are cross compiling... no

```

```

875 #> checking for suffix of executables...
876 #> checking for suffix of object files... o
877 #> checking whether we are using the GNU C compiler... yes
878 #> checking whether gcc accepts -g... yes
879 #> checking for gcc option to accept ISO C89... none needed
880 #> checking how to run the C preprocessor... gcc -E
881 #> checking for sed... /bin/sed
882 #> checking for pkg-config... /usr/bin/pkg-config
883 #> checking for xml2-config... /usr/bin/xml2-config
884 #> USE_XML2 = yes
885 #> SED_EXTENDED_ARG: -E
886 #> Minor 9, Patch 4 for 2.9.4
887 #> Located parser file -I/usr/include/libxml2/parser.h
888 #> Checking for 1.8: -I/usr/include/libxml2
889 #> Using libxml2.*
890 #> checking for gzopen in -lz... yes
891 #> checking for xmlParseFile in -lxml2... yes
892 #> checking for xmlHashSize in -lxml2... yes
893 #> Using built-in xmlHashSize
894 #> Checking DTD parsing (presence of externalSubset)...
895 #> checking for xmlHashSize in -lxml2... yes
896 #> Found xmlHashSize
897 #> checking for xmlOutputBufferCreateBuffer in -lxml2... yes
898 #> have xmlOutputBufferCreateBuffer()
899 #> checking for xmlDocDumpFormatMemoryEnc in -lxml2... yes
900 #> checking libxml/xmlversion.h usability... yes
901 #> checking libxml/xmlversion.h presence... yes
902 #> checking for libxml/xmlversion.h... yes
903 #> Expat: FALSE
904 #> Checking for return type of xmlHashScan element routine.
905 #> No return value for xmlHashScan
906 #> xmlNs has a context field
907 #> Checking for cetype_t enumeration
908 #> Using recent version of R with cetype_t enumeration type for encoding
909 #> checking for xmlsec1-config... no
910 #> nodegc default
911 #> xml-debug default
912 #> Version has XML_WITH_ZLIB
913 #> Version has xmlHasFeature()
914 #> *****
915 #> Configuration information:
916 #> Libxml settings
917 #> libxml include directory: -I/usr/include/libxml2
918 #> libxml library directory: -lxml2 -lz -lxml2
919 #> libxml 2: -DLIBXML2=1
920 #> Compilation flags: -DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -
DDUMP_WITH_ENCODING=1 -DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -
DNO_XML_HASH_SCANNER_RETURN=1 -DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -
DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1
921 #> Link flags: -lxml2 -lz -lxml2
922 #> *****
923 #> configure: creating ./config.status
924 #> config.status: creating src/Makevars
925 #> config.status: creating R/supports.R
926 #> config.status: creating inst/scripts/RXML.csh
927 #> config.status: creating inst/scripts/RXML.bsh
928 #> ** libs
929 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c DocParse.c -o DocParse.o
930 #> In file included from DocParse.c:13:0:
931 #> DocParse.c: In function 'RS_XML_convertXMLDoc':
932 #> Utils.h:12:31: warning: pointer targets in passing argument 2 of 'CreateCharSexpWithEncoding' differ in
signedness [-Wpointer-sign]
933 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
934 #> ^
935 #> Utils.h:235:74: note: in expansion of macro 'CHAR_TO_XMLCHAR'
936 #> #define ENC_COPY_TO_USER_STRING(x) CreateCharSexpWithEncoding(encoding, CHAR_TO_XMLCHAR (x))
937 #> ^~~~~~
938 #> DocParse.c:375:60: note: in expansion of macro 'ENC_COPY_TO_USER_STRING'
939 #> SET_STRING_ELT(VECTOR_ELT(rdoc, FILE_ELEMENT_NAME), 0, ENC_COPY_TO_USER_STRING(doc->name ? XMLCHAR_TO_CHAR(doc-
>name) : fileName));
940 #> ^~~~~~
941 #> In file included from DocParse.c:13:0:

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942 #> Utils.h:220:6: note: expected 'const xmlChar * {aka const unsigned char *}' but argument is of type 'const char
    *'
943 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);
944 #> ^~~~~~
945 #> In file included from DocParse.c:13:0:
946 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
    sign]
947 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
948 #> ^
949 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
950 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
951 #> ^~~~~~
952 #> DocParse.c:376:54: note: in expansion of macro 'COPY_TO_USER_STRING'
953 #> SET_STRING_ELT(rdoc_el_names, FILE_ELEMENT_NAME, COPY_TO_USER_STRING("file"));
954 #> ^~~~~~
955 #> In file included from RSCommon.h:54:0,
956 #> from DocParse.h:11,
957 #> from DocParse.c:10:
958 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
    {aka unsigned char *}'
959 #> SEXP Rf_mkChar(const char *);
960 #> ^~~~~~
961 #> In file included from DocParse.c:13:0:
962 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
    sign]
963 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
964 #> ^
965 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
966 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
967 #> ^~~~~~
968 #> DocParse.c:384:38: note: in expansion of macro 'COPY_TO_USER_STRING'
969 #> COPY_TO_USER_STRING(version));
970 #> ^~~~~~
971 #> In file included from RSCommon.h:54:0,
972 #> from DocParse.h:11,
973 #> from DocParse.c:10:
974 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
    {aka unsigned char *}'
975 #> SEXP Rf_mkChar(const char *);
976 #> ^~~~~~
977 #> In file included from DocParse.c:13:0:
978 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
    sign]
979 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
980 #> ^
981 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
982 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
983 #> ^~~~~~
984 #> DocParse.c:385:55: note: in expansion of macro 'COPY_TO_USER_STRING'
985 #> SET_STRING_ELT(rdoc_el_names, VERSION_ELEMENT_NAME, COPY_TO_USER_STRING("version"));
986 #> ^~~~~~
987 #> In file included from RSCommon.h:54:0,
988 #> from DocParse.h:11,
989 #> from DocParse.c:10:
990 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
    {aka unsigned char *}'
991 #> SEXP Rf_mkChar(const char *);
992 #> ^~~~~~
993 #> In file included from DocParse.c:13:0:
994 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
    sign]
995 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
996 #> ^
997 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
998 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
999 #> ^~~~~~
1000 #> DocParse.c:405:56: note: in expansion of macro 'COPY_TO_USER_STRING'
1001 #> SET_STRING_ELT(rdoc_el_names, CHILDREN_ELEMENT_NAME, COPY_TO_USER_STRING("children"));
1002 #> ^~~~~~
1003 #> In file included from RSCommon.h:54:0,
1004 #> from DocParse.h:11,
1005 #> from DocParse.c:10:
1006 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
    {aka unsigned char *}'
1007 #> SEXP Rf_mkChar(const char *);
1008 #> ^~~~~~
1009 #> In file included from DocParse.c:13:0:
```

```
1010 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-  
sign]  
1011 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)  
1012 #> ^  
1013 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'  
1014 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))  
1015 #> ^~~~~~  
1016 #> DocParse.c:410:28: note: in expansion of macro 'COPY_TO_USER_STRING'  
1017 #> SET_STRING_ELT(klass, 0, COPY_TO_USER_STRING("XMLDocumentContent"));  
1018 #> ^~~~~~  
1019 #> In file included from RSCommon.h:54:0,  
1020 #> from DocParse.h:11,  
1021 #> from DocParse.c:10:  
1022 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char **' but argument is of type 'xmlChar *  
{aka unsigned char *}'  
1023 #> SEXP Rf_mkChar(const char *);  
1024 #> ^~~~~~  
1025 #> In file included from DocParse.c:13:0:  
1026 #> DocParse.c: In function 'RS_XML_createXMLNode':  
1027 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-  
sign]  
1028 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)  
1029 #> ^  
1030 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'  
1031 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))  
1032 #> ^~~~~~  
1033 #> DocParse.c:615:53: note: in expansion of macro 'COPY_TO_USER_STRING'  
1034 #> SET_STRING_ELT(ans_el_names, NUM_NODE_ELEMENTS, COPY_TO_USER_STRING("value"));  
1035 #> ^~~~~~  
1036 #> In file included from RSCommon.h:54:0,  
1037 #> from DocParse.h:11,  
1038 #> from DocParse.c:10:  
1039 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char **' but argument is of type 'xmlChar *  
{aka unsigned char *}'  
1040 #> SEXP Rf_mkChar(const char *);  
1041 #> ^~~~~~  
1042 #> In file included from DocParse.c:13:0:  
1043 #> DocParse.c: In function 'RS_XML_createNameSpaceIdentifier':  
1044 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-  
sign]  
1045 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)  
1046 #> ^  
1047 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'  
1048 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))  
1049 #> ^~~~~~  
1050 #> DocParse.c:768:31: note: in expansion of macro 'COPY_TO_USER_STRING'  
1051 #> SET_STRING_ELT(klass, 0, COPY_TO_USER_STRING("XMLNamespaceDefinition"));  
1052 #> ^~~~~~  
1053 #> In file included from RSCommon.h:54:0,  
1054 #> from DocParse.h:11,  
1055 #> from DocParse.c:10:  
1056 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char **' but argument is of type 'xmlChar *  
{aka unsigned char *}'  
1057 #> SEXP Rf_mkChar(const char *);  
1058 #> ^~~~~~  
1059 #> In file included from DocParse.c:13:0:  
1060 #> DocParse.c: In function 'RS_XML_xmlNodeChildrenReferences':  
1061 #> Utils.h:12:31: warning: pointer targets in passing argument 2 of 'CreateCharSexpWithEncoding' differ in  
signedness [-Wpointer-sign]  
1062 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)  
1063 #> ^  
1064 #> Utils.h:235:74: note: in expansion of macro 'CHAR_TO_XMLCHAR'  
1065 #> #define ENC_COPY_TO_USER_STRING(x) CreateCharSexpWithEncoding(encoding, CHAR_TO_XMLCHAR (x))  
1066 #> ^~~~~~  
1067 #> DocParse.c:1226:31: note: in expansion of macro 'ENC_COPY_TO_USER_STRING'  
1068 #> SET_STRING_ELT(names, i, ENC_COPY_TO_USER_STRING(ptr->name ? XMLCHAR_TO_CHAR(ptr->name) : ""));  
1069 #> ^~~~~~  
1070 #> In file included from DocParse.c:13:0:  
1071 #> Utils.h:220:6: note: expected 'const xmlChar * {aka const unsigned char *}' but argument is of type 'char *'  
1072 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);  
1073 #> ^~~~~~  
1074 #> DocParse.c: In function 'RS_XML_xmlXIncludeProcessTreeFlags':  
1075 #> DocParse.c:1351:22: warning: variable 'parent' set but not used [-Wunused-but-set-variable]  
1076 #> xmlNodePtr prev, parent;  
1077 #> ^~~~~~  
1078 #> DocParse.c:1351:16: warning: variable 'prev' set but not used [-Wunused-but-set-variable]  
1079 #> xmlNodePtr prev, parent;
```



```

1080 #> ^~~~
1081 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c EventParse.c -o EventParse.o
1082 #> In file included from EventParse.c:15:0:
1083 #> EventParse.c: In function 'RS_XML_entityDeclarationHandler':
1084 #> Utils.h:12:31: warning: pointer targets in passing argument 2 of 'CreateCharSexpWithEncoding' differ in
signedness [-Wpointer-sign]
1085 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1086 #> ^
1087 #> Utils.h:235:74: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1088 #> #define ENC_COPY_TO_USER_STRING(x) CreateCharSexpWithEncoding(encoding, CHAR_TO_XMLCHAR (x))
1089 #> ^~~~~~
1090 #> EventParse.c:218:45: note: in expansion of macro 'ENC_COPY_TO_USER_STRING'
1091 #> SET_STRING_ELT(VECTOR_ELT(opArgs, i), 0, ENC_COPY_TO_USER_STRING(xml_args[i] ? xml_args[i] : ""));
1092 #> ^~~~~~
1093 #> In file included from EventParse.c:15:0:
1094 #> Utils.h:220:6: note: expected 'const xmlChar * {aka const unsigned char *}' but argument is of type 'const char
*'
1095 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);
1096 #> ^~~~~~
1097 #> EventParse.c: In function 'RS_XML_textHandler':
1098 #> EventParse.c:405:6: warning: pointer targets in assignment differ in signedness [-Wpointer-sign]
1099 #> tmp = strdup("");
1100 #> ^
1101 #> EventParse.c:419:2: warning: this 'if' clause does not guard... [-Wmisleading-indentation]
1102 #> if(s == (XML_Char*)NULL || s[0] == (XML_Char)0 || len == 0
1103 #> ^~
1104 #> EventParse.c:425:5: note: ...this statement, but the latter is misleadingly indented as if it is guarded by the
'if'
1105 #> tmp = tmpString = (char*)calloc(len+1, sizeof(char));
1106 #> ^~~
1107 #> EventParse.c: In function 'RS_XML_callUserFunction':
1108 #> EventParse.c:492:7: warning: variable 'general' set but not used [-Wunused-but-set-variable]
1109 #> int general = 0;
1110 #> ^~~~~~
1111 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c ExpatParse.c -o ExpatParse.o
1112 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c HTMLParse.c -o HTMLParse.o
1113 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c NodeGC.c -o NodeGC.o
1114 #> NodeGC.c: In function 'clearNodeMemoryManagement':
1115 #> NodeGC.c:385:96: warning: comparison between pointer and integer
1116 #> int isOurs = (a = node->_private != &RS_XML_NoMemoryMgmt) && (b = ((int *) (node->_private))[1] == (int *)
&RS_XML_MemoryMgrMarker);
1117 #> ^~
1118 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c RSDTD.c -o RSDTD.o
1119 #> In file included from RSDTD.c:21:0:
1120 #> RSDTD.c: In function 'RS_xmlElementTableConverter':
1121 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1122 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1123 #> ^
1124 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1125 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1126 #> ^~~~~~
1127 #> RSDTD.c:325:56: note: in expansion of macro 'COPY_TO_USER_STRING'
1128 #> SET_STRING_ELT(scanData->dtdNames, scanData->counter, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(name)));

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1129 #> ^~~~~~
1130 #> In file included from RSCommon.h:54:0,
1131 #> from RSDTD.h:9,
1132 #> from RSDTD.c:13:
1133 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1134 #> SEXP Rf_mkChar(const char *);
1135 #> ^~~~~~
1136 #> In file included from RSDTD.c:21:0:
1137 #> RSDTD.c: In function 'RS_xmlEntityTableConverter':
1138 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1139 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1140 #> ^
1141 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1142 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1143 #> ^~~~~~
1144 #> RSDTD.c:399:56: note: in expansion of macro 'COPY_TO_USER_STRING'
1145 #> SET_STRING_ELT(scanData->dttdNames, scanData->counter, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(name)));
1146 #> ^~~~~~
1147 #> In file included from RSCommon.h:54:0,
1148 #> from RSDTD.h:9,
1149 #> from RSDTD.c:13:
1150 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1151 #> SEXP Rf_mkChar(const char *);
1152 #> ^~~~~~
1153 #> In file included from RSDTD.c:21:0:
1154 #> RSDTD.c: In function 'RS_XML_createDTDEntity':
1155 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1156 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1157 #> ^
1158 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1159 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1160 #> ^~~~~~
1161 #> RSDTD.c:434:60: note: in expansion of macro 'COPY_TO_USER_STRING'
1162 #> SET_STRING_ELT(VECTOR_ELT(ans, DTD_ENTITY_NAME_SLOT), 0, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(entity->name)));
1163 #> ^~~~~~
1164 #> In file included from RSCommon.h:54:0,
1165 #> from RSDTD.h:9,
1166 #> from RSDTD.c:13:
1167 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1168 #> SEXP Rf_mkChar(const char *);
1169 #> ^~~~~~
1170 #> In file included from RSDTD.c:21:0:
1171 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1172 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1173 #> ^
1174 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1175 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1176 #> ^~~~~~
1177 #> RSDTD.c:445:64: note: in expansion of macro 'COPY_TO_USER_STRING'
1178 #> SET_STRING_ELT(VECTOR_ELT(ans, DTD_ENTITY_CONTENT_SLOT), 0, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(value)));
1179 #> ^~~~~~
1180 #> In file included from RSCommon.h:54:0,
1181 #> from RSDTD.h:9,
1182 #> from RSDTD.c:13:
1183 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1184 #> SEXP Rf_mkChar(const char *);
1185 #> ^~~~~~
1186 #> In file included from RSDTD.c:21:0:
1187 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1188 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1189 #> ^
1190 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1191 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1192 #> ^~~~~~
1193 #> RSDTD.c:449:64: note: in expansion of macro 'COPY_TO_USER_STRING'
1194 #> SET_STRING_ELT(VECTOR_ELT(ans, DTD_ENTITY_ORIG_SLOT), 0, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(entity->orig)));
1195 #> ^~~~~~
1196 #> In file included from RSCommon.h:54:0,
1197 #> from RSDTD.h:9,
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1198 #> from RSDTD.c:13:
1199 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1200 #> SEXP Rf_mkChar(const char *);
1201 #> ^~~~~~
1202 #> In file included from RSDTD.c:21:0:
1203 #> RSDTD.c: In function 'RS_XML_createdTDElement':
1204 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1205 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1206 #> ^
1207 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1208 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1209 #> ^~~~~~
1210 #> RSDTD.c:491:60: note: in expansion of macro 'COPY_TO_USER_STRING'
1211 #> SET_STRING_ELT(VECTOR_ELT(re1, DTD_ELEMENT_NAME_SLOT), 0, COPY_TO_USER_STRING( XMLCHAR_TO_CHAR( ( e1->name ?
e1->name : (xmlChar*)""))));
1212 #> ^~~~~~
1213 #> In file included from RSCommon.h:54:0,
1214 #> from RSDTD.h:9,
1215 #> from RSDTD.c:13:
1216 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1217 #> SEXP Rf_mkChar(const char *);
1218 #> ^~~~~~
1219 #> In file included from RSDTD.c:21:0:
1220 #> RSDTD.c: In function 'RS_XML_createdTDElementContents':
1221 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1222 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1223 #> ^
1224 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1225 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1226 #> ^~~~~~
1227 #> RSDTD.c:578:71: note: in expansion of macro 'COPY_TO_USER_STRING'
1228 #> SET_STRING_ELT(VECTOR_ELT(ans, DTD_CONTENT_ELEMENTS_SLOT), 0, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(vals-
>name)));
1229 #> ^~~~~~
1230 #> In file included from RSCommon.h:54:0,
1231 #> from RSDTD.h:9,
1232 #> from RSDTD.c:13:
1233 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1234 #> SEXP Rf_mkChar(const char *);
1235 #> ^~~~~~
1236 #> In file included from RSDTD.c:21:0:
1237 #> RSDTD.c: In function 'RS_XML_createdTDElementAttributes':
1238 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1239 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1240 #> ^
1241 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1242 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1243 #> ^~~~~~
1244 #> RSDTD.c:678:33: note: in expansion of macro 'COPY_TO_USER_STRING'
1245 #> SET_STRING_ELT(names, i, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(tmp->name)));
1246 #> ^~~~~~
1247 #> In file included from RSCommon.h:54:0,
1248 #> from RSDTD.h:9,
1249 #> from RSDTD.c:13:
1250 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1251 #> SEXP Rf_mkChar(const char *);
1252 #> ^~~~~~
1253 #> In file included from RSDTD.c:21:0:
1254 #> RSDTD.c: In function 'RS_XML_createdDTDAtribute':
1255 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1256 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1257 #> ^
1258 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1259 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1260 #> ^~~~~~
1261 #> RSDTD.c:727:63: note: in expansion of macro 'COPY_TO_USER_STRING'
1262 #> SET_STRING_ELT(VECTOR_ELT(ans, DTD_ATTRIBUTE_NAME_SLOT), 0, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(val->name)));
1263 #> ^~~~~~
1264 #> In file included from RSCommon.h:54:0,
1265 #> from RSDTD.h:9,

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1266 #> from RSDTD.c:13:
1267 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1268 #> SEXP Rf_mkChar(const char *);
1269 #> ^~~~~~
1270 #> RSDTD.c:737:15: warning: comparison between 'xmlElementType {aka enum }' and 'enum ' [-Wenum-compare]
1271 #> if(val->type == XML_ATTRIBUTE_ENUMERATION) {
1272 #> ^~
1273 #> In file included from RSDTD.c:21:0:
1274 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1275 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1276 #> ^
1277 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1278 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1279 #> ^~~~~~
1280 #> RSDTD.c:741:74: note: in expansion of macro 'COPY_TO_USER_STRING'
1281 #> SET_STRING_ELT(VECTOR_ELT(ans, DTD_ATTRIBUTE_DEFAULT_VALUE_SLOT), 0, COPY_TO_USER_STRING( XMLCHAR_TO_CHAR(
(val->defaultValue ? val->defaultValue : (xmlChar*)""))));
1282 #> ^~~~~~
1283 #> In file included from RSCommon.h:54:0,
1284 #> from RSDTD.h:9,
1285 #> from RSDTD.c:13:
1286 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1287 #> SEXP Rf_mkChar(const char *);
1288 #> ^~~~~~
1289 #> In file included from RSDTD.c:21:0:
1290 #> RSDTD.c: In function 'RS_XML_AttributeEnumerationList':
1291 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1292 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1293 #> ^
1294 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1295 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1296 #> ^~~~~~
1297 #> RSDTD.c:779:30: note: in expansion of macro 'COPY_TO_USER_STRING'
1298 #> SET_STRING_ELT(ans, i, COPY_TO_USER_STRING(XMLCHAR_TO_CHAR(tmp->name)));
1299 #> ^~~~~~
1300 #> In file included from RSCommon.h:54:0,
1301 #> from RSDTD.h:9,
1302 #> from RSDTD.c:13:
1303 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1304 #> SEXP Rf_mkChar(const char *);
1305 #> ^~~~~~
1306 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R_1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c RUtils.c -o RUtils.o
1307 #> In file included from /usr/include/libxml2/libxml/xmlIO.h:117:0,
1308 #> from /usr/include/libxml2/libxml/parser.h:811,
1309 #> from Utils.h:17,
1310 #> from RUtils.c:1:
1311 #> RUtils.c: In function 'RS_XML_getStructuredErrorHandler':
1312 #> /usr/include/libxml2/libxml/globals.h:353:1: warning: ISO C forbids passing argument 1 of 'R_MakeExternalPtr'
between function pointer and 'void *' [-Wpedantic]
1313 #> (*(__xmlStructuredError()))
1314 #> ^
1315 #> RUtils.c:293:46: note: in expansion of macro 'xmlStructuredError'
1316 #> SET_VECTOR_ELT(ans, 1, R_MakeExternalPtr(xmlStructuredError, Rf_install("xmlStructuredErrorFunc"),
R_NilValue));
1317 #> ^~~~~~
1318 #> In file included from RS_XML.h:32:0,
1319 #> from Utils.h:8,
1320 #> from RUtils.c:1:
1321 #> /usr/local/lib/R/include/Rinternals.h:928:6: note: expected 'void *' but argument is of type
'xmlStructuredErrorFunc {aka void (*)(void *, struct _xmlError *)}'
1322 #> SEXP R_MakeExternalPtr(void *p, SEXP tag, SEXP prot);
1323 #> ^~~~~~
1324 #> RUtils.c: In function 'RS_XML_setStructuredErrorHandler':
1325 #> RUtils.c:326:44: warning: ISO C forbids conversion of object pointer to function pointer type [-Wpedantic]
1326 #> handler = (sym == R_NilValue) ? NULL : (xmlStructuredErrorFunc) R_ExternalPtrAddr(sym);
1327 #> ^
1328 #> RUtils.c: In function 'CreateCharSexpWithEncoding':

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1329 #> RUtils.c:343:35: warning: pointer targets in passing argument 2 of 'xmlStrcmp' differ in signedness [-Wpointer-
      sign]
1330 #> } else if(xmlStrcmp(encoding, "UTF-8") == 0 || xmlStrcmp(encoding, "utf-8") == 0)
1331 #> ^~~~~~
1332 #> In file included from /usr/include/libxml2/libxml/tree.h:18:0,
1333 #> from /usr/include/libxml2/libxml/parser.h:16,
1334 #> from Utils.h:17,
1335 #> from RUtils.c:1:
1336 #> /usr/include/libxml2/libxml/xmlstring.h:64:17: note: expected 'const xmlChar * {aka const unsigned char *}' but
      argument is of type 'char *'
1337 #> xmlStrcmp (const xmlChar *str1,
1338 #> ^~~~~~
1339 #> RUtils.c:343:72: warning: pointer targets in passing argument 2 of 'xmlStrcmp' differ in signedness [-Wpointer-
      sign]
1340 #> } else if(xmlStrcmp(encoding, "UTF-8") == 0 || xmlStrcmp(encoding, "utf-8") == 0)
1341 #> ^~~~~~
1342 #> In file included from /usr/include/libxml2/libxml/tree.h:18:0,
1343 #> from /usr/include/libxml2/libxml/parser.h:16,
1344 #> from Utils.h:17,
1345 #> from RUtils.c:1:
1346 #> /usr/include/libxml2/libxml/xmlstring.h:64:17: note: expected 'const xmlChar * {aka const unsigned char *}' but
      argument is of type 'char *'
1347 #> xmlStrcmp (const xmlChar *str1,
1348 #> ^~~~~~
1349 #> RUtils.c:345:33: warning: pointer targets in passing argument 2 of 'xmlStrcmp' differ in signedness [-Wpointer-
      sign]
1350 #> else if(xmlStrcmp(encoding, "ISO-8859-1") == 0 || xmlStrcmp(encoding, "iso-8859-1") == 0)
1351 #> ^~~~~~
1352 #> In file included from /usr/include/libxml2/libxml/tree.h:18:0,
1353 #> from /usr/include/libxml2/libxml/parser.h:16,
1354 #> from Utils.h:17,
1355 #> from RUtils.c:1:
1356 #> /usr/include/libxml2/libxml/xmlstring.h:64:17: note: expected 'const xmlChar * {aka const unsigned char *}' but
      argument is of type 'char *'
1357 #> xmlStrcmp (const xmlChar *str1,
1358 #> ^~~~~~
1359 #> RUtils.c:345:75: warning: pointer targets in passing argument 2 of 'xmlStrcmp' differ in signedness [-Wpointer-
      sign]
1360 #> else if(xmlStrcmp(encoding, "ISO-8859-1") == 0 || xmlStrcmp(encoding, "iso-8859-1") == 0)
1361 #> ^~~~~~
1362 #> In file included from /usr/include/libxml2/libxml/tree.h:18:0,
1363 #> from /usr/include/libxml2/libxml/parser.h:16,
1364 #> from Utils.h:17,
1365 #> from RUtils.c:1:
1366 #> /usr/include/libxml2/libxml/xmlstring.h:64:17: note: expected 'const xmlChar * {aka const unsigned char *}' but
      argument is of type 'char *'
1367 #> xmlStrcmp (const xmlChar *str1,
1368 #> ^~~~~~
1369 #> RUtils.c:348:29: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
      sign]
1370 #> str = translateChar(mkChar(str));
1371 #> ^~~
1372 #> In file included from RS_XML.h:32:0,
1373 #> from Utils.h:8,
1374 #> from RUtils.c:1:
1375 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'const
      xmlChar * {aka const unsigned char *}'
1376 #> SEXP Rf_mkChar(const char *);
1377 #> ^~~~~~
1378 #> RUtils.c:348:6: warning: pointer targets in assignment differ in signedness [-Wpointer-sign]
1379 #> str = translateChar(mkChar(str));
1380 #> ^
1381 #> RUtils.c:351:20: warning: pointer targets in passing argument 1 of 'Rf_mkCharCE' differ in signedness [-
      Wpointer-sign]
1382 #> ans = mkCharCE(str, enc);
1383 #> ^~~
1384 #> In file included from RS_XML.h:32:0,
1385 #> from Utils.h:8,
1386 #> from RUtils.c:1:
1387 #> /usr/local/lib/R/include/Rinternals.h:911:6: note: expected 'const char *' but argument is of type 'const
      xmlChar * {aka const unsigned char *}'
1388 #> SEXP Rf_mkCharCE(const char *, cetype_t);
1389 #> ^~~~~~
1390 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
      DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
      DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -

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DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
02 -mtune=native -fsanitize=address -c Rcatalog.c -o Rcatalog.o
1391 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
02 -mtune=native -fsanitize=address -c Utils.c -o Utils.o
1392 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
02 -mtune=native -fsanitize=address -c XMLEventParse.c -o XMLEventParse.o
1393 #> XMLEventParse.c: In function 'R_processBranch':
1394 #> XMLEventParse.c:383:49: warning: pointer targets in passing argument 3 of 'xmlSetProp' differ in signedness [-
Wpointer-sign]
1395 #> xmlSetProp(node, xmlStrdup(ptr[0]), getPropertyValue(ptr));
1396 #> ^~~~~~
1397 #> In file included from /usr/include/libxml2/libxml/parser.h:16:0,
1398 #> from EventParse.h:23,
1399 #> from XMLEventParse.c:1:
1400 #> /usr/include/libxml2/libxml/tree.h:1015:3: note: expected 'const xmlChar * {aka const unsigned char *}' but
argument is of type 'char *'
1401 #> xmlSetProp (xmlNodePtr node,
1402 #> ^~~~~~
1403 #> XMLEventParse.c: In function 'R_endBranch':
1404 #> XMLEventParse.c:442:19: warning: pointer targets in passing argument 1 of 'xmlNewDoc' differ in signedness [-
Wpointer-sign]
1405 #> doc = xmlNewDoc("1.0");
1406 #> ^~~~~
1407 #> In file included from /usr/include/libxml2/libxml/parser.h:16:0,
1408 #> from EventParse.h:23,
1409 #> from XMLEventParse.c:1:
1410 #> /usr/include/libxml2/libxml/tree.h:780:3: note: expected 'const xmlChar * {aka const unsigned char *}' but
argument is of type 'char *'
1411 #> xmlNewDoc (const xmlChar *version);
1412 #> ^~~~~~
1413 #> In file included from RSCommon.h:55:0,
1414 #> from EventParse.h:11,
1415 #> from XMLEventParse.c:1:
1416 #> XMLEventParse.c: In function 'RS_XML_xmlSAX2StartElementNs':
1417 #> XMLEventParse.c:528:72: warning: pointer targets in passing argument 2 of 'CreateCharSexpWithEncoding' differ
in signedness [-Wpointer-sign]
1418 #> SET_NAMES(tmp, ScalarString(CreateCharSexpWithEncoding(encoding, ( (void*)prefix ? XMLCHAR_TO_CHAR(prefix) :
"")))));
1419 #> ^
1420 #> /usr/local/lib/R/include/Rdefines.h:151:57: note: in definition of macro 'SET_NAMES'
1421 #> #define SET_NAMES(x, n) Rf_setAttrib(x, R_NamesSymbol, n)
1422 #> ^
1423 #> In file included from XMLEventParse.c:5:0:
1424 #> Utils.h:220:6: note: expected 'const xmlChar * {aka const unsigned char *}' but argument is of type 'char *'
1425 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);
1426 #> ^~~~~~
1427 #> In file included from RSCommon.h:54:0,
1428 #> from EventParse.h:11,
1429 #> from XMLEventParse.c:1:
1430 #> XMLEventParse.c: In function 'RS_XML_xmlSAX2EndElementNs':
1431 #> Utils.h:12:31: warning: pointer targets in passing argument 2 of 'CreateCharSexpWithEncoding' differ in
signedness [-Wpointer-sign]
1432 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1433 #> ^
1434 #> /usr/local/lib/R/include/Rinternals.h:670:31: note: in definition of macro 'PROTECT'
1435 #> #define PROTECT(s) Rf_protect(s)
1436 #> ^
1437 #> Utils.h:235:74: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1438 #> #define ENC_COPY_TO_USER_STRING(x) CreateCharSexpWithEncoding(encoding, CHAR_TO_XMLCHAR (x))
1439 #> ^~~~~~
1440 #> XMLEventParse.c:579:30: note: in expansion of macro 'ENC_COPY_TO_USER_STRING'
1441 #> PROTECT(tmp = ScalarString(ENC_COPY_TO_USER_STRING((XMLCHAR_TO_CHAR(URI)) ? XMLCHAR_TO_CHAR(URI) : "")));
1442 #> ^~~~~~
1443 #> In file included from XMLEventParse.c:5:0:
1444 #> Utils.h:220:6: note: expected 'const xmlChar * {aka const unsigned char *}' but argument is of type 'char *'
1445 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);
1446 #> ^~~~~~
1447 #> XMLEventParse.c:584:27: warning: pointer targets in passing argument 1 of 'findEndElementFun' differ in
signedness [-Wpointer-sign]

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1448 #> fun = findEndElementFun(localname, rinfo);
1449 #> ^~~~~~
1450 #> In file included from XMLEventParse.c:1:0:
1451 #> EventParse.h:178:14: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1452 #> USER_OBJECT_ findEndElementFun(const char *name, RS_XMLParserData *rinfo);
1453 #> ^~~~~~
1454 #> In file included from EventParse.h:12:0,
1455 #> from XMLEventParse.c:1:
1456 #> At top level:
1457 #> RS_XML.h:8:19: warning: 'RS_XML_xmlSAX2StartDocument' defined but not used [-Wunused-function]
1458 #> #define RS_XML(a) RS_XML_##a
1459 #> ^
1460 #> XMLEventParse.c:597:1: note: in expansion of macro 'RS_XML'
1461 #> RS_XML(xmlSAX2StartDocument)(void *userData)
1462 #> ^~~~~~
1463 #> XMLEventParse.c: In function 'RS_XML_readConnectionInput':
1464 #> XMLEventParse.c:181:23: warning: 'arg' may be used uninitialized in this function [-Wmaybe-uninitialized]
1465 #> INTEGER_DATA(arg)[0] = left;
1466 #> ^
1467 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c XMLHashTree.c -o XMLHashTree.o
1468 #> In file included from XMLHashTree.c:52:0:
1469 #> XMLHashTree.c: In function 'makeHashNode':
1470 #> XMLHashTree.c:87:29: warning: pointer targets in passing argument 1 of 'Rf_mkString' differ in signedness [-
Wpointer-sign]
1471 #> SET_NAMES(tmp, mkString(node->ns->prefix));
1472 #> ^
1473 #> /usr/local/lib/R/include/Rdefines.h:151:57: note: in definition of macro 'SET_NAMES'
1474 #> #define SET_NAMES(x, n) Rf_setAttrib(x, R_NamesSymbol, n)
1475 #> ^
1476 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1477 #> from XMLHashTree.c:52:
1478 #> /usr/local/lib/R/include/Rinternals.h:1377:7: note: expected 'const char *' but argument is of type 'const
xmlChar * {aka const unsigned char *}'
1479 #> SEXP Rf_mkString(const char *);
1480 #> ^~~~~~
1481 #> In file included from XMLHashTree.c:55:0:
1482 #> Utils.h:12:31: warning: pointer targets in passing argument 2 of 'CreateCharSexpWithEncoding' differ in
signedness [-Wpointer-sign]
1483 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1484 #> ^
1485 #> Utils.h:235:74: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1486 #> #define ENC_COPY_TO_USER_STRING(x) CreateCharSexpWithEncoding(encoding, CHAR_TO_XMLCHAR (x))
1487 #> ^~~~~~
1488 #> XMLHashTree.c:93:41: note: in expansion of macro 'ENC_COPY_TO_USER_STRING'
1489 #> SET_VECTOR_ELT(ans, i++, ScalarString(ENC_COPY_TO_USER_STRING(node->ns->prefix ?
XMLCHAR_TO_CHAR(node->ns->prefix) : "")));
1490 #> ^~~~~~
1491 #> In file included from XMLHashTree.c:55:0:
1492 #> Utils.h:220:6: note: expected 'const xmlChar * {aka const unsigned char *}' but argument is of type 'char *'
1493 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);
1494 #> ^~~~~~
1495 #> XMLHashTree.c:99:40: warning: pointer targets in passing argument 1 of 'Rf_mkString' differ in signedness [-
Wpointer-sign]
1496 #> SET_VECTOR_ELT(ans, i++, mkString(node->content));
1497 #> ^~~~~
1498 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1499 #> from XMLHashTree.c:52:
1500 #> /usr/local/lib/R/include/Rinternals.h:1377:7: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1501 #> SEXP Rf_mkString(const char *);
1502 #> ^~~~~~
1503 #> In file included from XMLHashTree.c:55:0:
1504 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1505 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1506 #> ^
1507 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1508 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1509 #> ^~~~~~
1510 #> XMLHashTree.c:109:34: note: in expansion of macro 'COPY_TO_USER_STRING'
1511 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("value"));
1512 #> ^~~~~~

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1513 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1514 #> from XMLHashTree.c:52:
1515 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1516 #> SEXP Rf_mkChar(const char *);
1517 #> ^~~~~~
1518 #> In file included from XMLHashTree.c:55:0:
1519 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1520 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1521 #> ^
1522 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1523 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1524 #> ^~~~~~
1525 #> XMLHashTree.c:111:34: note: in expansion of macro 'COPY_TO_USER_STRING'
1526 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("namespaceDefinitions"));
1527 #> ^~~~~~
1528 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1529 #> from XMLHashTree.c:52:
1530 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1531 #> SEXP Rf_mkChar(const char *);
1532 #> ^~~~~~
1533 #> In file included from XMLHashTree.c:55:0:
1534 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1535 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1536 #> ^
1537 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1538 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1539 #> ^~~~~~
1540 #> XMLHashTree.c:120:30: note: in expansion of macro 'COPY_TO_USER_STRING'
1541 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("XMLHashTreeNode"));
1542 #> ^~~~~~
1543 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1544 #> from XMLHashTree.c:52:
1545 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1546 #> SEXP Rf_mkChar(const char *);
1547 #> ^~~~~~
1548 #> In file included from XMLHashTree.c:55:0:
1549 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1550 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1551 #> ^
1552 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1553 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1554 #> ^~~~~~
1555 #> XMLHashTree.c:122:33: note: in expansion of macro 'COPY_TO_USER_STRING'
1556 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("XMLTextNode"));
1557 #> ^~~~~~
1558 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1559 #> from XMLHashTree.c:52:
1560 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1561 #> SEXP Rf_mkChar(const char *);
1562 #> ^~~~~~
1563 #> In file included from XMLHashTree.c:55:0:
1564 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1565 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1566 #> ^
1567 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1568 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1569 #> ^~~~~~
1570 #> XMLHashTree.c:124:33: note: in expansion of macro 'COPY_TO_USER_STRING'
1571 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("XMLCommentNode"));
1572 #> ^~~~~~
1573 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1574 #> from XMLHashTree.c:52:
1575 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1576 #> SEXP Rf_mkChar(const char *);
1577 #> ^~~~~~
1578 #> In file included from XMLHashTree.c:55:0:
1579 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
sign]
1580 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
```

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1581 #> ^
1582 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1583 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1584 #> ^~~~~~
1585 #> XMLHashTree.c:126:33: note: in expansion of macro 'COPY_TO_USER_STRING'
1586 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("XMLCDATA"));
1587 #> ^~~~~~
1588 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1589 #> from XMLHashTree.c:52:
1590 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
1591 #> {aka unsigned char *}'
1592 #> SEXP Rf_mkChar(const char *);
1593 #> ^~~~~~
1594 #> In file included from XMLHashTree.c:55:0:
1595 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
1596 sign]
1597 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1598 #> ^
1599 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1600 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1601 #> ^~~~~~
1602 #> XMLHashTree.c:128:33: note: in expansion of macro 'COPY_TO_USER_STRING'
1603 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("XMLPNode"));
1604 #> ^~~~~~
1605 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1606 #> from XMLHashTree.c:52:
1607 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
1608 #> {aka unsigned char *}'
1609 #> SEXP Rf_mkChar(const char *);
1610 #> ^~~~~~
1611 #> In file included from XMLHashTree.c:55:0:
1612 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
1613 sign]
1614 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1615 #> ^
1616 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1617 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR (x))
1618 #> ^~~~~~
1619 #> XMLHashTree.c:130:30: note: in expansion of macro 'COPY_TO_USER_STRING'
1620 #> SET_STRING_ELT(names, i++, COPY_TO_USER_STRING("XMLNode"));
1621 #> ^~~~~~
1622 #> In file included from /usr/local/lib/R/include/Rdefines.h:36:0,
1623 #> from XMLHashTree.c:52:
1624 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
1625 #> {aka unsigned char *}'
1626 #> SEXP Rf_mkChar(const char *);
1627 #> ^~~~~~
1628 #> XMLHashTree.c: In function 'collectChildNodes':
1629 #> XMLHashTree.c:66:47: warning: format '%p' expects argument of type 'void *', but argument 3 has type
1630 #> 'xmlNodePtr {aka struct _xmlNode *}' [-Wformat=]
1631 #> #define SET_NODE_NAME(x, id, node) sprintf(x, "%p", node)
1632 #> ^
1633 #> XMLHashTree.c:165:6: note: in expansion of macro 'SET_NODE_NAME'
1634 #> SET_NODE_NAME(buf, *ctr + 1, node);
1635 #> ^~~~~~
1636 #> XMLHashTree.c: In function 'processNode':
1637 #> XMLHashTree.c:66:47: warning: format '%p' expects argument of type 'void *', but argument 3 has type
1638 #> 'xmlNodePtr {aka struct _xmlNode *}' [-Wformat=]
1639 #> #define SET_NODE_NAME(x, id, node) sprintf(x, "%p", node)
1640 #> ^
1641 #> XMLHashTree.c:191:3: note: in expansion of macro 'SET_NODE_NAME'
1642 #> SET_NODE_NAME(id, curId, root);
1643 #> ^~~~~~
1644 #> XMLHashTree.c:66:47: warning: format '%p' expects argument of type 'void *', but argument 3 has type
1645 #> 'xmlNodePtr {aka struct _xmlNode *}' [-Wformat=]
1646 #> #define SET_NODE_NAME(x, id, node) sprintf(x, "%p", node)
1647 #> ^
1648 #> XMLHashTree.c:205:6: note: in expansion of macro 'SET_NODE_NAME'
1649 #> SET_NODE_NAME(buf, parentId, parent);
1650 #> ^~~~~~
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1649 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R_1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c XMLTree.c -o XMLTree.o
1650 #> In file included from /usr/include/string.h:630:0,
1651 #> from /usr/local/lib/R/include/R_ext/RS.h:31,
1652 #> from /usr/local/lib/R/include/Rdefines.h:33,
1653 #> from RSCommon.h:55,
1654 #> from XMLTree.c:25:
1655 #> XMLTree.c: In function 'removeNodeNamespaceByName':
1656 #> XMLTree.c:224:55: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1657 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1658 #> ^
1659 #> XMLTree.c:224:55: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1660 #> XMLTree.c:224:55: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1661 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1662 #> ^
1663 #> XMLTree.c:224:55: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1664 #> XMLTree.c:224:55: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1665 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1666 #> ^
1667 #> XMLTree.c:224:55: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1668 #> XMLTree.c:224:55: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1669 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1670 #> ^
1671 #> XMLTree.c:224:55: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1672 #> XMLTree.c:224:55: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1673 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1674 #> ^
1675 #> XMLTree.c:224:55: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1676 #> XMLTree.c:224:55: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1677 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1678 #> ^
1679 #> XMLTree.c:224:55: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1680 #> XMLTree.c:233:52: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1681 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1682 #> ^
1683 #> XMLTree.c:233:52: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1684 #> XMLTree.c:233:52: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1685 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1686 #> ^
1687 #> XMLTree.c:233:52: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1688 #> XMLTree.c:233:52: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1689 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1690 #> ^
1691 #> XMLTree.c:233:52: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1692 #> XMLTree.c:233:52: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1693 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1694 #> ^
1695 #> XMLTree.c:233:52: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'
1696 #> XMLTree.c:233:52: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1697 #> if(!id[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1698 #> ^
1699 #> XMLTree.c:233:52: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned
char *}'

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1700 #> XMLTree.c:233:52: warning: pointer targets in passing argument 1 of ‘__builtin_strcmp’ differ in signedness [-Wpointer-sign]
1701 #> if(!lid[0] && !p->prefix) || (p->prefix && strcmp(p->prefix, id) == 0)) {
1702 #> ^
1703 #> XMLTree.c:233:52: note: expected ‘const char *’ but argument is of type ‘const xmlChar * {aka const unsigned char *}’
1704 #> XMLTree.c: In function ‘RS_XML_removeNodeNamespaces’:
1705 #> XMLTree.c:308:56: warning: pointer targets in passing argument 2 of ‘removeNodeNamespaceByName’ differ in signedness [-Wpointer-sign]
1706 #> LOGICAL(ans)[i] = removeNodeNamespaceByName(node, p->prefix);
1707 #> ^
1708 #> XMLTree.c:216:1: note: expected ‘const char * const’ but argument is of type ‘const xmlChar * {aka const unsigned char *}’
1709 #> removeNodeNamespaceByName(xmlNodePtr node, const char * const id)
1710 #> ^~~~~~
1711 #> In file included from RSCommon.h:54:0,
1712 #> from XMLTree.c:25:
1713 #> XMLTree.c: In function ‘R_insertXMLNode’:
1714 #> /usr/local/lib/R/include/Rinternals.h:453:18: warning: pointer targets in passing argument 1 of ‘xmlNewText’ differ in signedness [-Wpointer-sign]
1715 #> #define CHAR(x) R_CHAR(x)
1716 #> ^
1717 #> XMLTree.c:503:23: note: in expansion of macro ‘CHAR’
1718 #> n = xmlNewText(CHAR(String_ELT(node, i)));
1719 #> ^~~~
1720 #> In file included from /usr/include/libxml2/libxml/parser.h:16:0,
1721 #> from /usr/include/libxml2/libxml/parserInternals.h:16,
1722 #> from XMLTree.c:33:
1723 #> /usr/include/libxml2/libxml/tree.h:853:3: note: expected ‘const xmlChar * {aka const unsigned char *}’ but argument is of type ‘const char *’
1724 #> xmlNewText (const xmlChar *content);
1725 #> ^~~~~~
1726 #> XMLTree.c:483:22: warning: variable ‘check’ set but not used [-Wunused-but-set-variable]
1727 #> xmlNodePtr n, p, check, tmp = NULL;
1728 #> ^~~~~
1729 #> XMLTree.c: In function ‘R_newXMLDoc’:
1730 #> XMLTree.c:743:21: warning: pointer targets in passing argument 1 of ‘htmlNewDoc’ differ in signedness [-Wpointer-sign]
1731 #> doc = htmlNewDoc("", NULL);
1732 #> ^~
1733 #> In file included from XMLTree.c:35:0:
1734 #> /usr/include/libxml2/libxml/HTMLtree.h:63:3: note: expected ‘const xmlChar * {aka const unsigned char *}’ but argument is of type ‘char *’
1735 #> htmlNewDoc (const xmlChar *URI,
1736 #> ^~~~~~
1737 #> In file included from RSCommon.h:54:0,
1738 #> from XMLTree.c:25:
1739 #> XMLTree.c: In function ‘R_convertXMLNsRef’:
1740 #> XMLTree.c:954:27: warning: pointer targets in passing argument 1 of ‘Rf_mkString’ differ in signedness [-Wpointer-sign]
1741 #> PROTECT(ans = mkString(ns->href));
1742 #> ^
1743 #> /usr/local/lib/R/include/Rinternals.h:670:31: note: in definition of macro ‘PROTECT’
1744 #> #define PROTECT(s) Rf_protect(s)
1745 #> ^
1746 #> /usr/local/lib/R/include/Rinternals.h:1377:7: note: expected ‘const char *’ but argument is of type ‘const xmlChar * {aka const unsigned char *}’
1747 #> SEXP Rf_mkString(const char *);
1748 #> ^~~~~~
1749 #> XMLTree.c:944:8: warning: unused variable ‘ref’ [-Wunused-variable]
1750 #> SEXP ref, ans;
1751 #> ^~~
1752 #> XMLTree.c: In function ‘R_addXMLNodeFinalizer’:
1753 #> XMLTree.c:1128:15: warning: unused variable ‘node’ [-Wunused-variable]
1754 #> xmlNodePtr node = (xmlNodePtr) R_ExternalPtrAddr(r_node);
1755 #> ^~~~
1756 #> XMLTree.c: In function ‘RS_XML_printXMLNode’:
1757 #> XMLTree.c:1456:55: warning: pointer targets in passing argument 1 of ‘CreateCharSexpWithEncoding’ differ in signedness [-Wpointer-sign]
1758 #> ans = ScalarString(CreateCharSexpWithEncoding(encoding, xbuf->content));
1759 #> ^~~~~~
1760 #> In file included from XMLTree.c:40:0:
1761 #> Utils.h:220:6: note: expected ‘const xmlChar * {aka const unsigned char *}’ but argument is of type ‘const char *’
1762 #> SEXP CreateCharSexpWithEncoding(const xmlChar *encoding, const xmlChar *str);
1763 #> ^~~~~~
1764 #> XMLTree.c:1458:37: warning: pointer targets in passing argument 1 of ‘Rf_mkCharCE’ differ in signedness [-Wpointer-sign]

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1765 #> ans = ScalarString(mkCharCE(xbuf->content, INTEGER(r_encoding_int)[0]));
1766 #> ^~~~
1767 #> In file included from RSCommon.h:54:0,
1768 #> from XMLTree.c:25:
1769 #> /usr/local/lib/R/include/Rinternals.h:911:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1770 #> SEXP Rf_mkCharCE(const char *, cetype_t);
1771 #> ^~~~~~
1772 #> XMLTree.c: In function 'R_setXMLInternalTextNode_value':
1773 #> XMLTree.c:1495:25: warning: pointer targets in passing argument 2 of 'xmlNodeSetContent' differ in signedness
[-Wpointer-sign]
1774 #> xmlNodeSetContent(n, str);
1775 #> ^~~
1776 #> In file included from /usr/include/libxml2/libxml/parser.h:16:0,
1777 #> from /usr/include/libxml2/libxml/parserInternals.h:16,
1778 #> from XMLTree.c:33:
1779 #> /usr/include/libxml2/libxml/tree.h:1060:3: note: expected 'const xmlChar * {aka const unsigned char *}' but
argument is of type 'const char *'
1780 #> xmlNodeSetContent (xmlNodePtr cur,
1781 #> ^~~~~~
1782 #> In file included from XMLTree.c:40:0:
1783 #> Utils.h:222:56: warning: unused variable 'encoding' [-Wunused-variable]
1784 #> #define DECL_ENCODING_FROM_NODE(node) const xmlChar *encoding = node->doc ? node->doc->encoding : NULL;
1785 #> ^
1786 #> XMLTree.c:1487:4: note: in expansion of macro 'DECL_ENCODING_FROM_NODE'
1787 #> DECL_ENCODING_FROM_NODE(n)
1788 #> ^~~~~~
1789 #> XMLTree.c: In function 'R_xmlNodeValue':
1790 #> XMLTree.c:1536:37: warning: pointer targets in passing argument 1 of 'Rf_mkCharCE' differ in signedness [-
Wpointer-sign]
1791 #> ans = ScalarString(mkCharCE(tmp, INTEGER(r_encoding)[0]));
1792 #> ^~~
1793 #> In file included from RSCommon.h:54:0,
1794 #> from XMLTree.c:25:
1795 #> /usr/local/lib/R/include/Rinternals.h:911:6: note: expected 'const char *' but argument is of type 'xmlChar *
{aka unsigned char *}'
1796 #> SEXP Rf_mkCharCE(const char *, cetype_t);
1797 #> ^~~~~~
1798 #> XMLTree.c: In function 'R_xmlSearchNs':
1799 #> XMLTree.c:1695:39: warning: comparison of distinct pointer types lacks a cast
1800 #> xmlDocPtr doc = (xmlDocPtr) r_doc == NULL_USER_OBJECT ? NULL : R_ExternalPtrAddr(r_doc);
1801 #> ^~
1802 #> XMLTree.c:1703:58: warning: pointer targets in passing argument 3 of 'xmlSearchNs' differ in signedness [-
Wpointer-sign]
1803 #> ns = LOGICAL(r_asPrefix)[0] ? xmlSearchNs(doc, node, val) : xmlSearchNsByHref(doc, node, val);
1804 #> ^~~
1805 #> In file included from /usr/include/libxml2/libxml/parser.h:16:0,
1806 #> from /usr/include/libxml2/libxml/parserInternals.h:16,
1807 #> from XMLTree.c:33:
1808 #> /usr/include/libxml2/libxml/tree.h:987:3: note: expected 'const xmlChar * {aka const unsigned char *}' but
argument is of type 'const char *'
1809 #> xmlSearchNs (xmlDocPtr doc,
1810 #> ^~~~~~
1811 #> XMLTree.c:1703:94: warning: pointer targets in passing argument 3 of 'xmlSearchNsByHref' differ in signedness
[-Wpointer-sign]
1812 #> ns = LOGICAL(r_asPrefix)[0] ? xmlSearchNs(doc, node, val) : xmlSearchNsByHref(doc, node, val);
1813 #> ^~~
1814 #> In file included from /usr/include/libxml2/libxml/parser.h:16:0,
1815 #> from /usr/include/libxml2/libxml/parserInternals.h:16,
1816 #> from XMLTree.c:33:
1817 #> /usr/include/libxml2/libxml/tree.h:991:3: note: expected 'const xmlChar * {aka const unsigned char *}' but
argument is of type 'const char *'
1818 #> xmlSearchNsByHref (xmlDocPtr doc,
1819 #> ^~~~~~
1820 #> In file included from RSCommon.h:54:0,
1821 #> from XMLTree.c:25:
1822 #> XMLTree.c:1709:28: warning: pointer targets in passing argument 1 of 'Rf_mkString' differ in signedness [-
Wpointer-sign]
1823 #> PROTECT(r_ans = mkString(ns->href));
1824 #> ^
1825 #> /usr/local/lib/R/include/Rinternals.h:670:31: note: in definition of macro 'PROTECT'
1826 #> #define PROTECT(s) Rf_protect(s)
1827 #> ^
1828 #> /usr/local/lib/R/include/Rinternals.h:1377:7: note: expected 'const char *' but argument is of type 'const
xmlChar * {aka const unsigned char *}'
1829 #> SEXP Rf_mkString(const char *);
1830 #> ^~~~~~
1831 #> XMLTree.c: In function 'R_getChildByIndex':

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1832 #> XMLTree.c:1720:22: warning: unused variable 'parent' [-Wunused-variable]
1833 #> xmlNodePtr node, parent, ptr;
1834 #> ^~~~~~
1835 #> In file included from /usr/include/string.h:630:0,
1836 #> from /usr/local/lib/R/include/R_ext/RS.h:31,
1837 #> from /usr/local/lib/R/include/Rdefines.h:33,
1838 #> from RSCCommon.h:55,
1839 #> from XMLTree.c:25:
1840 #> XMLTree.c: In function 'R_getChildByName':
1841 #> XMLTree.c:1745:31: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-Wpointer-sign]
1842 #> if(ptr->name && strcmp(name, ptr->name) == 0)
1843 #> ^
1844 #> XMLTree.c:1745:31: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1845 #> XMLTree.c:1745:31: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-Wpointer-sign]
1846 #> if(ptr->name && strcmp(name, ptr->name) == 0)
1847 #> ^
1848 #> XMLTree.c:1745:31: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1849 #> XMLTree.c:1745:31: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-Wpointer-sign]
1850 #> if(ptr->name && strcmp(name, ptr->name) == 0)
1851 #> ^
1852 #> XMLTree.c:1745:31: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1853 #> XMLTree.c:1745:31: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-Wpointer-sign]
1854 #> if(ptr->name && strcmp(name, ptr->name) == 0)
1855 #> ^
1856 #> XMLTree.c:1745:31: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1857 #> XMLTree.c:1745:31: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-Wpointer-sign]
1858 #> if(ptr->name && strcmp(name, ptr->name) == 0)
1859 #> ^
1860 #> XMLTree.c:1745:31: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1861 #> XMLTree.c:1745:31: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-Wpointer-sign]
1862 #> if(ptr->name && strcmp(name, ptr->name) == 0)
1863 #> ^
1864 #> XMLTree.c:1745:31: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1865 #> XMLTree.c:1739:16: warning: unused variable 'idx' [-Wunused-variable]
1866 #> int i = 0, idx;
1867 #> ^~~
1868 #> XMLTree.c:1739:9: warning: unused variable 'i' [-Wunused-variable]
1869 #> int i = 0, idx;
1870 #> ^
1871 #> XMLTree.c:1738:22: warning: unused variable 'parent' [-Wunused-variable]
1872 #> xmlNodePtr node, parent, ptr;
1873 #> ^~~~~~
1874 #> XMLTree.c: In function 'R_childStringValues':
1875 #> XMLTree.c:1790:22: warning: pointer targets in passing argument 1 of 'Rf_mkCharCE' differ in signedness [-Wpointer-sign]
1876 #> SEXP val = mkCharCE(tmp, encoding);
1877 #> ^~~
1878 #> In file included from RSCCommon.h:54:0,
1879 #> from XMLTree.c:25:
1880 #> /usr/local/lib/R/include/Rinternals.h:911:6: note: expected 'const char *' but argument is of type 'xmlChar * {aka unsigned char *}'
1881 #> SEXP Rf_mkCharCE(const char *, cetype_t);
1882 #> ^~~~~~
1883 #> XMLTree.c:1797:40: warning: pointer targets in passing argument 1 of 'Rf_mkCharCE' differ in signedness [-Wpointer-sign]
1884 #> SET_STRING_ELT(names, i, mkCharCE(kid->name, encoding));
1885 #> ^~~
1886 #> In file included from RSCCommon.h:54:0,
1887 #> from XMLTree.c:25:
1888 #> /usr/local/lib/R/include/Rinternals.h:911:6: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char *}'
1889 #> SEXP Rf_mkCharCE(const char *, cetype_t);
1890 #> ^~~~~~
1891 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -

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DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
02 -mtune=native -fsanitize=address -c fixNS.c -o fixNS.o
1892 #> In file included from /usr/include/string.h:630:0,
1893 #> from /usr/local/lib/R/include/R_ext/RS.h:31,
1894 #> from /usr/local/lib/R/include/Rdefines.h:33,
1895 #> from RCommon.h:55,
1896 #> from fixNS.c:3:
1897 #> fixNS.c: In function 'fixDummyNS':
1898 #> fixNS.c:32:21: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1899 #> if(ns && strcmp(ns->href, "") == 0)
1900 #> ^
1901 #> fixNS.c:32:21: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1902 #> fixNS.c:32:21: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1903 #> if(ns && strcmp(ns->href, "") == 0)
1904 #> ^
1905 #> fixNS.c:32:21: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1906 #> fixNS.c:32:21: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1907 #> if(ns && strcmp(ns->href, "") == 0)
1908 #> ^
1909 #> fixNS.c:32:21: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1910 #> fixNS.c:32:21: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1911 #> if(ns && strcmp(ns->href, "") == 0)
1912 #> ^
1913 #> fixNS.c:32:21: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1914 #> fixNS.c:32:21: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1915 #> if(ns && strcmp(ns->href, "") == 0)
1916 #> ^
1917 #> fixNS.c:32:21: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1918 #> fixNS.c:32:21: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1919 #> if(ns && strcmp(ns->href, "") == 0)
1920 #> ^
1921 #> fixNS.c:32:21: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1922 #> fixNS.c: In function 'findNSByPrefix':
1923 #> fixNS.c:75:37: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1924 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1925 #> ^
1926 #> fixNS.c:75:37: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1927 #> fixNS.c:75:50: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1928 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1929 #> ^
1930 #> fixNS.c:75:50: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1931 #> fixNS.c:75:37: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1932 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1933 #> ^
1934 #> fixNS.c:75:37: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1935 #> fixNS.c:75:50: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]
1936 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1937 #> ^
1938 #> fixNS.c:75:50: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1939 #> fixNS.c:75:37: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
Wpointer-sign]
1940 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1941 #> ^
1942 #> fixNS.c:75:37: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
*}'
1943 #> fixNS.c:75:37: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
Wpointer-sign]

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1944 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1945 #> ^
1946 #> fixNS.c:75:37: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1947 #> fixNS.c:75:50: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-
    Wpointer-sign]
1948 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1949 #> ^
1950 #> fixNS.c:75:50: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1951 #> fixNS.c:75:50: warning: pointer targets in passing argument 1 of '__builtin_strlen' differ in signedness [-
    Wpointer-sign]
1952 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1953 #> ^
1954 #> fixNS.c:75:50: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1955 #> fixNS.c:75:37: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
    Wpointer-sign]
1956 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1957 #> ^
1958 #> fixNS.c:75:37: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1959 #> fixNS.c:75:50: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-
    Wpointer-sign]
1960 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1961 #> ^
1962 #> fixNS.c:75:50: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1963 #> fixNS.c:75:37: warning: pointer targets in passing argument 1 of '__builtin_strcmp' differ in signedness [-
    Wpointer-sign]
1964 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1965 #> ^
1966 #> fixNS.c:75:37: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1967 #> fixNS.c:75:50: warning: pointer targets in passing argument 2 of '__builtin_strcmp' differ in signedness [-
    Wpointer-sign]
1968 #> if(prefix && ptr->prefix && strcmp(ptr->prefix, prefix) == 0)
1969 #> ^
1970 #> fixNS.c:75:50: note: expected 'const char *' but argument is of type 'const xmlChar * {aka const unsigned char
    *}'
1971 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
    DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
    DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
    D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
    O2 -mtune=native -fsanitize=address -c libxmlFeatures.c -o libxmlFeatures.o
1972 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
    DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
    DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
    DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
    D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
    O2 -mtune=native -fsanitize=address -c schema.c -o schema.o
1973 #> In file included from schema.c:7:0:
1974 #> schema.c: In function 'getKeys':
1975 #> Utils.h:12:31: warning: pointer targets in passing argument 1 of 'Rf_mkChar' differ in signedness [-Wpointer-
    sign]
1976 #> #define CHAR_TO_XMLCHAR(val) ((xmlChar *) val)
1977 #> ^
1978 #> Utils.h:234:40: note: in expansion of macro 'CHAR_TO_XMLCHAR'
1979 #> #define COPY_TO_USER_STRING(x) mkChar(CHAR_TO_XMLCHAR(x))
1980 #> ^~~~~~
1981 #> schema.c:78:37: note: in expansion of macro 'COPY_TO_USER_STRING'
1982 #> SET_STRING_ELT(d->names, d->pos, COPY_TO_USER_STRING(name));
1983 #> ^~~~~~
1984 #> In file included from RS_XML.h:32:0,
1985 #> from schema.c:1:
1986 #> /usr/local/lib/R/include/Rinternals.h:843:6: note: expected 'const char *' but argument is of type 'xmlChar *
    {aka unsigned char *}'
1987 #> SEXP Rf_mkChar(const char *);
1988 #> ^~~~~~
1989 #> schema.c: In function 'R_libxmlTypeTable_lookup':
1990 #> /usr/local/lib/R/include/Rinternals.h:453:18: warning: pointer targets in passing argument 2 of 'xmlHashLookup'
    differ in signedness [-Wpointer-sign]
1991 #> #define CHAR(x) R_CHAR(x)
1992 #> ^
1993 #> RSCommon.h:140:27: note: in expansion of macro 'CHAR'
1994 #> #define CHAR_DEREF(x) CHAR((x))
1995 #> ^~~~

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1996 #> schema.c:122:25: note: in expansion of macro 'CHAR_DEREF'
1997 #> p = xmlHashLookup(t, CHAR_DEREF(String_ELT(name, 0)));
1998 #> ^~~~~~
1999 #> In file included from /usr/include/libxml2/libxml/parser.h:18:0,
2000 #> from schema.c:3:
2001 #> /usr/include/libxml2/libxml/hash.h:170:4: note: expected 'const xmlChar * {aka const unsigned char *}' but
argument is of type 'const char *'
2002 #> xmlHashLookup (xmlHashTablePtr table,
2003 #> ^~~~~~
2004 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c xmlsecurity.c -o xmlsecurity.o
2005 #> xmlsecurity.c:32:12: warning: 'foo' defined but not used [-Wunused-variable]
2006 #> static int foo;
2007 #> ^~~
2008 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
DLIBXML -I/usr/include/libxml2 -DUSE_EXTERNAL_SUBSET=1 -DROOT_HAS_DTD_NODE=1 -DDUMP_WITH_ENCODING=1 -
DUSE_XML_VERSION_H=1 -DXML_ELEMENT_ETYPE=1 -DXML_ATTRIBUTE_ATYPE=1 -DNO_XML_HASH_SCANNER_RETURN=1 -
DLIBXML_NAMESPACE_HAS_CONTEXT=1 -DHAVE_R_CETYPE_T=1 -DHAVE_XML_WITH_ZLIB=1 -DHAVE_XML_HAS_FEATURE=1 -DUSE_R=1 -
D_R=1 -DHAVE_VALIDITY=1 -DXML_REF_COUNT_NODES=1 -I. -DLIBXML2=1 -I/usr/local/include -fpic -pipe -Wall -pedantic -
O2 -mtune=native -fsanitize=address -c xpath.c -o xpath.o
2009 #> In file included from RSCommon.h:55:0,
2010 #> from Utils.h:9,
2011 #> from xpath.c:3:
2012 #> xpath.c: In function 'convertNodeSetToR':
2013 #> xpath.c:37:41: warning: pointer targets in passing argument 1 of 'Rf_mkCharCE' differ in signedness [-Wpointer-
sign]
2014 #> SET_NAMES(ref, ScalarString(mkCharCE(el->name, encoding)));
2015 #> ^
2016 #> /usr/local/lib/R/include/Rdefines.h:151:57: note: in definition of macro 'SET_NAMES'
2017 #> #define SET_NAMES(x, n) Rf_setAttrib(x, R_NamesSymbol, n)
2018 #> ^
2019 #> In file included from RS_XML.h:32:0,
2020 #> from xpath.c:1:
2021 #> /usr/local/lib/R/include/Rinternals.h:911:6: note: expected 'const char *' but argument is of type 'const
xmlChar * {aka const unsigned char *}'
2022 #> SEXP Rf_mkCharCE(const char *, cetype_t);
2023 #> ^~~~~~
2024 #> xpath.c: In function 'R_addXMLInternalDocument_finalizer':
2025 #> xpath.c:170:11: warning: ISO C forbids conversion of object pointer to function pointer type [-Wpedantic]
2026 #> action = (R_CFinalizer_t) R_ExternalPtrAddr(fun);
2027 #> ^
2028 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
L/usr/local/lib -o XML.so DocParse.o EventParse.o ExpatParse.o HTMLParse.o NodeGC.o RSDTD.o RUtils.o Rcatalog.o
Utils.o XMLEventParse.o XMLHashTree.o XMLTree.o fixNS.o libxmlFeatures.o schema.o xmlsecurity.o xpath.o -lxml2 -lz -
lxml2 -L/usr/local/lib/R/lib -lR
2029 #> installing to /home/docker/R/XML/libs
2030 #> ** R
2031 #> ** inst
2032 #> ** preparing package for lazy loading
2033 #> Creating a generic function for 'source' from package 'base' in package 'XML'
2034 #> in method for 'xmlAttrsToDataFrame' with signature '"AsIs"': no definition for class "AsIs"
2035 #> in method for 'readKeyValueDB' with signature '"AsIs"': no definition for class "AsIs"
2036 #> in method for 'readSolrDoc' with signature '"AsIs"': no definition for class "AsIs"
2037 #> ** help
2038 #> *** installing help indices
2039 #> ** building package indices
2040 #> ** testing if installed package can be loaded
2041 #> * creating tarball
2042 #> packaged installation of 'XML' as 'XML_3.98-1.5_R_x86_64-pc-linux-gnu.tar.gz'
2043 #> * DONE (XML)
2044 #> * installing *source* package 'yaml' ...
2045 #> ** package 'yaml' successfully unpacked and MD5 sums checked
2046 #> ** libs
2047 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c api.c -o api.o
2048 #> api.c: In function 'yaml_document_delete':
2049 #> api.c:1133:7: warning: variable 'context' set but not used [-Wunused-but-set-variable]
2050 #> } context;
2051 #> ^~~~~~
2052 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c dumper.c -o
dumper.o

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2053 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c emitter.c -o
emitter.o
2054 #> emitter.c: In function 'yaml_emitter_write_plain_scalar':
2055 #> emitter.c:28:6: warning: value computed is not used [-Wunused-value]
2056 #> && ((emitter->line_break == YAML_CR_BREAK ? \
2057 #> ^
2058 #> emitter.c:56:11: note: in expansion of macro 'PUT_BREAK'
2059 #> (PUT_BREAK(emitter), \
2060 #> ^~~~~~
2061 #> emitter.c:1933:18: note: in expansion of macro 'WRITE_BREAK'
2062 #> if (!WRITE_BREAK(emitter, string)) return 0;
2063 #> ^~~~~~
2064 #> emitter.c: In function 'yaml_emitter_write_single_quoted_scalar':
2065 #> emitter.c:28:6: warning: value computed is not used [-Wunused-value]
2066 #> && ((emitter->line_break == YAML_CR_BREAK ? \
2067 #> ^
2068 #> emitter.c:56:11: note: in expansion of macro 'PUT_BREAK'
2069 #> (PUT_BREAK(emitter), \
2070 #> ^~~~~~
2071 #> emitter.c:1994:18: note: in expansion of macro 'WRITE_BREAK'
2072 #> if (!WRITE_BREAK(emitter, string)) return 0;
2073 #> ^~~~~~
2074 #> emitter.c: In function 'yaml_emitter_write_literal_scalar':
2075 #> emitter.c:28:6: warning: value computed is not used [-Wunused-value]
2076 #> && ((emitter->line_break == YAML_CR_BREAK ? \
2077 #> ^
2078 #> emitter.c:56:11: note: in expansion of macro 'PUT_BREAK'
2079 #> (PUT_BREAK(emitter), \
2080 #> ^~~~~~
2081 #> emitter.c:2257:18: note: in expansion of macro 'WRITE_BREAK'
2082 #> if (!WRITE_BREAK(emitter, string)) return 0;
2083 #> ^~~~~~
2084 #> emitter.c: In function 'yaml_emitter_write_folded_scalar':
2085 #> emitter.c:28:6: warning: value computed is not used [-Wunused-value]
2086 #> && ((emitter->line_break == YAML_CR_BREAK ? \
2087 #> ^
2088 #> emitter.c:56:11: note: in expansion of macro 'PUT_BREAK'
2089 #> (PUT_BREAK(emitter), \
2090 #> ^~~~~~
2091 #> emitter.c:2306:18: note: in expansion of macro 'WRITE_BREAK'
2092 #> if (!WRITE_BREAK(emitter, string)) return 0;
2093 #> ^~~~~~
2094 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c implicit.c -o
implicit.o
2095 #> implicit.re: In function 'find_implicit_tag':
2096 #> implicit.re:12:31: warning: variable 'limit' set but not used [-Wunused-but-set-variable]
2097 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c loader.c -o
loader.o
2098 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c parser.c -o
parser.o
2099 #> parser.c: In function 'yaml_parser_parse_block_sequence_entry':
2100 #> parser.c:762:21: warning: variable 'dummy_mark' set but not used [-Wunused-but-set-variable]
2101 #> yaml_mark_t dummy_mark; /* Used to eliminate a compiler warning. */
2102 #> ^~~~~~
2103 #> parser.c: In function 'yaml_parser_parse_block_mapping_key':
2104 #> parser.c:872:21: warning: variable 'dummy_mark' set but not used [-Wunused-but-set-variable]
2105 #> yaml_mark_t dummy_mark; /* Used to eliminate a compiler warning. */
2106 #> ^~~~~~
2107 #> parser.c: In function 'yaml_parser_parse_flow_sequence_entry':
2108 #> parser.c:955:17: warning: variable 'dummy_mark' set but not used [-Wunused-but-set-variable]
2109 #> yaml_mark_t dummy_mark; /* Used to eliminate a compiler warning. */
2110 #> ^~~~~~
2111 #> parser.c: In function 'yaml_parser_parse_flow_mapping_key':
2112 #> parser.c:1107:17: warning: variable 'dummy_mark' set but not used [-Wunused-but-set-variable]
2113 #> yaml_mark_t dummy_mark; /* Used to eliminate a compiler warning. */
2114 #> ^~~~~~
2115 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c r-ext.c -o r-ext.o
2116 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c reader.c -o
reader.o
2117 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c scanner.c -o
scanner.o
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2118 #> scanner.c: In function 'yaml_parser_decrease_flow_level':
2119 #> scanner.c:1189:23: warning: variable 'dummy_key' set but not used [-Wunused-but-set-variable]
2120 #> yaml_simple_key_t dummy_key; /* Used to eliminate a compiler warning. */
2121 #> ~~~~~
2122 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -I. -
DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c writer.c -o
writer.o
2123 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
L/usr/local/lib -o yaml.so api.o dumper.o emitter.o implicit.o loader.o parser.o r-ext.o reader.o scanner.o writer.o
-L/usr/local/lib/R/lib -lR
2124 #> installing to /home/docker/R/yaml/libs
2125 #> ** R
2126 #> ** inst
2127 #> ** preparing package for lazy loading
2128 #> ** help
2129 #> *** installing help indices
2130 #> ** building package indices
2131 #> ** testing if installed package can be loaded
2132 #> * creating tarball
2133 #> packaged installation of 'yaml' as 'yaml_2.1.14_R_x86_64-pc-linux-gnu.tar.gz'
2134 #> * DONE (yaml)
2135 #> * installing *source* package 'caTools' ...
2136 #> ** package 'caTools' successfully unpacked and MD5 sums checked
2137 #> ** libs
2138 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -c Gif2R.cpp -
o Gif2R.o
2139 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -c
GifTools.cpp -o GifTools.o
2140 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c runfunc.c -o runfunc.o
2141 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
L/usr/local/lib/R/lib -L/usr/local/lib -o caTools.so Gif2R.o GifTools.o runfunc.o -L/usr/local/lib/R/lib -lR
2142 #> installing to /home/docker/R/caTools/libs
2143 #> ** R
2144 #> ** preparing package for lazy loading
2145 #> ** help
2146 #> *** installing help indices
2147 #> ** building package indices
2148 #> ** testing if installed package can be loaded
2149 #> * creating tarball
2150 #> packaged installation of 'caTools' as 'caTools_1.17.1_R_x86_64-pc-linux-gnu.tar.gz'
2151 #> * DONE (caTools)
2152 #> * installing *source* package 'htmltools' ...
2153 #> ** package 'htmltools' successfully unpacked and MD5 sums checked
2154 #> ** libs
2155 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -fpic -pipe -Wall -pedantic
-O2 -mtune=native -c RcppExports.cpp -o RcppExports.o
2156 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -fpic -pipe -Wall -pedantic
-O2 -mtune=native -c template.cpp -o template.o
2157 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
L/usr/local/lib/R/lib -L/usr/local/lib -o htmltools.so RcppExports.o template.o -L/usr/local/lib/R/lib -lR
2158 #> installing to /home/docker/R/htmltools/libs
2159 #> ** R
2160 #> ** preparing package for lazy loading
2161 #> ** help
2162 #> *** installing help indices
2163 #> ** building package indices
2164 #> ** testing if installed package can be loaded
2165 #> * creating tarball
2166 #> packaged installation of 'htmltools' as 'htmltools_0.3.5_R_x86_64-pc-linux-gnu.tar.gz'
2167 #> * DONE (htmltools)
2168 #> * installing *source* package 'markdown' ...
2169 #> ** package 'markdown' successfully unpacked and MD5 sums checked
2170 #> ** libs
2171 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c Rbase64.c -o Rbase64.o
2172 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c Rinit.c -o Rinit.o
2173 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c Rmarkdown.c -o Rmarkdown.o
2174 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c autolink.c -o autolink.o
2175 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c buffer.c -o buffer.o

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2176 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c houdini_href_e.c -o
houdini_href_e.o
2177 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c houdini_html_e.c -o
houdini_html_e.o
2178 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c html.c -o html.o
2179 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c html_smartypants.c -o
html_smartypants.o
2180 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c markdown.c -o markdown.o
2181 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -fsanitize=address -c stack.c -o stack.o
2182 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -shared -L/usr/local/lib/R/lib -
L/usr/local/lib -o markdown.so Rbase64.o Rinit.o Rmarkdown.o autolink.o buffer.o houdini_href_e.o houdini_html_e.o
html.o html_smartypants.o markdown.o stack.o -L/usr/local/lib/R/lib -lR
2183 #> installing to /home/docker/R/markdown/libs
2184 #> ** R
2185 #> ** inst
2186 #> ** preparing package for lazy loading
2187 #> ** help
2188 #> *** installing help indices
2189 #> ** building package indices
2190 #> ** installing vignettes
2191 #> ** testing if installed package can be loaded
2192 #> * creating tarball
2193 #> packaged installation of 'markdown' as 'markdown_0.7.7_R_x86_64-pc-linux-gnu.tar.gz'
2194 #> * DONE (markdown)
2195 #> * installing *source* package 'RcppArmadillo' ...
2196 #> ** package 'RcppArmadillo' successfully unpacked and MD5 sums checked
2197 #> checking whether the C++ compiler works... yes
2198 #> checking for C++ compiler default output file name... a.out
2199 #> checking for suffix of executables...
2200 #> checking whether we are cross compiling... no
2201 #> checking for suffix of object files... o
2202 #> checking whether we are using the GNU C++ compiler... yes
2203 #> checking whether g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-
size,vptr accepts -g... yes
2204 #> checking how to run the C++ preprocessor... g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-
pointer -fno-sanitize=object-size,vptr -E
2205 #> checking whether we are using the GNU C++ compiler... (cached) yes
2206 #> checking whether g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-
size,vptr accepts -g... (cached) yes
2207 #> checking whether g++ version is sufficient... (6.1.1) yes
2208 #> checking LAPACK_LIBS... fallback LAPACK from R 3.3.0 or later used
2209 #> configure: creating ./config.status
2210 #> config.status: creating inst/include/RcppArmadilloLapack.h
2211 #> ** libs
2212 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -I../inst/include -fpic -
pipe -Wall -pedantic -O2 -mtune=native -c RcppArmadillo.cpp -o RcppArmadillo.o
2213 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -I../inst/include -fpic -
pipe -Wall -pedantic -O2 -mtune=native -c RcppExports.cpp -o RcppExports.o
2214 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -I../inst/include -fpic -
pipe -Wall -pedantic -O2 -mtune=native -c fastLm.cpp -o fastLm.o
2215 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
L/usr/local/lib/R/lib -L/usr/local/lib -o RcppArmadillo.so RcppArmadillo.o RcppExports.o fastLm.o -
L/usr/local/lib/R/lib -lRlapack -L/usr/local/lib/R/lib -lRblas -lgfortran -lm -lquadmath -L/usr/local/lib/R/lib -lR
2216 #> installing to /home/docker/R/RcppArmadillo/libs
2217 #> ** R
2218 #> ** inst
2219 #> ** preparing package for lazy loading
2220 #> ** help
2221 #> *** installing help indices
2222 #> ** building package indices
2223 #> ** installing vignettes
2224 #> ** testing if installed package can be loaded
2225 #> * creating tarball
2226 #> packaged installation of 'RcppArmadillo' as 'RcppArmadillo_0.7.700.0.0_R_x86_64-pc-linux-gnu.tar.gz'
2227 #> * DONE (RcppArmadillo)
2228 #> * installing *source* package 'rprojroot' ...
2229 #> ** package 'rprojroot' successfully unpacked and MD5 sums checked
2230 #> ** R
2231 #> ** inst

```



```

2232 #> ** preparing package for lazy loading
2233 #> ** help
2234 #> *** installing help indices
2235 #> ** building package indices
2236 #> ** installing vignettes
2237 #> ** testing if installed package can be loaded
2238 #> * creating tarball
2239 #> packaged installation of 'rprojroot' as 'rprojroot_1.2_R_x86_64-pc-linux-gnu.tar.gz'
2240 #> * DONE (rprojroot)
2241 #> * installing *source* package 'stringr' ...
2242 #> ** package 'stringr' successfully unpacked and MD5 sums checked
2243 #> ** R
2244 #> ** data
2245 #> *** moving datasets to lazyload DB
2246 #> ** inst
2247 #> ** preparing package for lazy loading
2248 #> ** help
2249 #> *** installing help indices
2250 #> ** building package indices
2251 #> ** installing vignettes
2252 #> ** testing if installed package can be loaded
2253 #> * creating tarball
2254 #> packaged installation of 'stringr' as 'stringr_1.2.0_R_x86_64-pc-linux-gnu.tar.gz'
2255 #> * DONE (stringr)
2256 #> * installing *source* package 'testthat' ...
2257 #> ** package 'testthat' successfully unpacked and MD5 sums checked
2258 #> ** libs
2259 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
  I../inst/include -DCOMPILING_TESTTHAT -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -
  fsanitize=address -c label.c -o label.o
2260 #> gcc -std=gnu99 -fsanitize=address,undefined -fno-omit-frame-pointer -I/usr/local/lib/R/include -DNDEBUG -
  I../inst/include -DCOMPILING_TESTTHAT -I/usr/local/include -fpic -pipe -Wall -pedantic -O2 -mtune=native -
  fsanitize=address -c reassign.c -o reassign.o
2261 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
  I/usr/local/lib/R/include -DNDEBUG -I../inst/include -DCOMPILING_TESTTHAT -I/usr/local/include -fpic -pipe -Wall -
  pedantic -O2 -mtune=native -c test-catch.cpp -o test-catch.o
2262 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
  I/usr/local/lib/R/include -DNDEBUG -I../inst/include -DCOMPILING_TESTTHAT -I/usr/local/include -fpic -pipe -Wall -
  pedantic -O2 -mtune=native -c test-example.cpp -o test-example.o
2263 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
  I/usr/local/lib/R/include -DNDEBUG -I../inst/include -DCOMPILING_TESTTHAT -I/usr/local/include -fpic -pipe -Wall -
  pedantic -O2 -mtune=native -c test-runner.cpp -o test-runner.o
2264 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
  L/usr/local/lib/R/lib -L/usr/local/lib -o testthat.so label.o reassign.o test-catch.o test-example.o test-runner.o -
  L/usr/local/lib/R/lib -lR
2265 #> installing to /home/docker/R/testthat/libs
2266 #> ** R
2267 #> ** inst
2268 #> ** preparing package for lazy loading
2269 #> ** help
2270 #> *** installing help indices
2271 #> ** building package indices
2272 #> ** testing if installed package can be loaded
2273 #> * creating tarball
2274 #> packaged installation of 'testthat' as 'testthat_1.0.2_R_x86_64-pc-linux-gnu.tar.gz'
2275 #> * DONE (testthat)
2276 #> * installing *source* package 'tibble' ...
2277 #> ** package 'tibble' successfully unpacked and MD5 sums checked
2278 #> ** libs
2279 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
  I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -fpic -pipe -Wall -pedantic
  -O2 -mtune=native -c RcppExports.cpp -o RcppExports.o
2280 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
  I/usr/local/lib/R/include -DNDEBUG -I/usr/local/include -I"/home/docker/R/Rcpp/include" -fpic -pipe -Wall -pedantic
  -O2 -mtune=native -c matrixToDataFrame.cpp -o matrixToDataFrame.o
2281 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
  L/usr/local/lib/R/lib -L/usr/local/lib -o tibble.so RcppExports.o matrixToDataFrame.o -L/usr/local/lib/R/lib -lR
2282 #> installing to /home/docker/R/tibble/libs
2283 #> ** R
2284 #> ** inst
2285 #> ** preparing package for lazy loading
2286 #> ** help
2287 #> *** installing help indices
2288 #> ** building package indices
2289 #> ** installing vignettes
2290 #> ** testing if installed package can be loaded
2291 #> * creating tarball
2292 #> packaged installation of 'tibble' as 'tibble_1.2_R_x86_64-pc-linux-gnu.tar.gz'

```

[illegible]

```

2316 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
    L/usr/local/lib/R/lib -L/usr/local/lib -o dplyr.so RcppExports.o address.o api.o arrange.o between.o bind.o
    combine_variables.o distinct.o dplyr.o filter.o group_indices.o init.o join.o nth.o select.o strings_addresses.o
    summarise.o test.o window.o -L/usr/local/lib/R/lib -lR
2317 #> installing to /home/docker/R/dplyr/libs
2318 #> ** R
2319 #> ** data
2320 #> *** moving datasets to lazyload DB
2321 #> ** inst
2322 #> ** preparing package for lazy loading
2323 #> ** help
2324 #> *** installing help indices
2325 #> ** building package indices
2326 #> ** installing vignettes
2327 #> ** testing if installed package can be loaded
2328 #> * creating tarball
2329 #> packaged installation of 'dplyr' as 'dplyr_0.5.0_R_x86_64-pc-linux-gnu.tar.gz'
2330 #> * DONE (dplyr)
2331 #> * installing *source* package 'evaluate' ...
2332 #> ** package 'evaluate' successfully unpacked and MD5 sums checked
2333 #> ** R
2334 #> ** preparing package for lazy loading
2335 #> ** help
2336 #> *** installing help indices
2337 #> ** building package indices
2338 #> ** testing if installed package can be loaded
2339 #> * creating tarball
2340 #> packaged installation of 'evaluate' as 'evaluate_0.10_R_x86_64-pc-linux-gnu.tar.gz'
2341 #> * DONE (evaluate)
2342 #> * installing *source* package 'knitr' ...
2343 #> ** package 'knitr' successfully unpacked and MD5 sums checked
2344 #> ** R
2345 #> ** demo
2346 #> ** inst
2347 #> ** preparing package for lazy loading
2348 #> ** help
2349 #> *** installing help indices
2350 #> ** building package indices
2351 #> ** installing vignettes
2352 #> ** testing if installed package can be loaded
2353 #> * creating tarball
2354 #> packaged installation of 'knitr' as 'knitr_1.15.1_R_x86_64-pc-linux-gnu.tar.gz'
2355 #> * DONE (knitr)
2356 #> * installing *source* package 'rmarkdown' ...
2357 #> ** package 'rmarkdown' successfully unpacked and MD5 sums checked
2358 #> ** R
2359 #> ** inst
2360 #> ** preparing package for lazy loading
2361 #> ** help
2362 #> *** installing help indices
2363 #> ** building package indices
2364 #> ** testing if installed package can be loaded
2365 #> * creating tarball
2366 #> packaged installation of 'rmarkdown' as 'rmarkdown_1.3_R_x86_64-pc-linux-gnu.tar.gz'
2367 #> * DONE (rmarkdown)
2368 #> The downloaded source packages are in
2369 #> '/tmp/RtmpxHq2Ct/downloaded_packages'
2370 #> Installing package into '/home/docker/R'
2371 #> (as 'lib' is unspecified)
2372 #> * installing *source* package 'mrgsolve' ...
2373 #> ** package 'mrgsolve' successfully unpacked and MD5 sums checked
2374 #> ** libs
2375 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
    I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
    -c RcppExports.cpp -o RcppExports.o
2376 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
    I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
    -c dataobject.cpp -o dataobject.o
2377 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
    I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
    -c datarecord.cpp -o datarecord.o
2378 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
    I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
    I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
    -c devtran.cpp -o devtran.o

```

```

2379 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c housemodel-mread-source.cpp -o housemodel-mread-source.o
2380 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c mrgsolve.cpp -o mrgsolve.o
2381 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c mrgsolve_init.cpp -o mrgsolve_init.o
2382 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c odepack_dlsoda.cpp -o odepack_dlsoda.o
2383 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c odeproblem.cpp -o odeproblem.o
2384 #> gfortran -fpic -pipe -O2 -mtune=native -c opk_dlsoda_mrg.f -o opk_dlsoda_mrg.o
2385 #> gfortran -fpic -pipe -O2 -mtune=native -c opkda1_mrg.f -o opkda1_mrg.o
2386 #> gfortran -fpic -pipe -O2 -mtune=native -c opkda2_mrg.f -o opkda2_mrg.o
2387 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c quick.cpp -o quick.o
2388 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
L/usr/local/lib/R/lib -L/usr/local/lib -o mrgsolve.so RcppExports.o dataobject.o datarecord.o devtran.o housemodel-
mread-source.o mrgsolve.o mrgsolve_init.o odepack_dlsoda.o odeproblem.o opk_dlsoda_mrg.o opkda1_mrg.o opkda2_mrg.o
quick.o -L/usr/local/lib/R/lib -lRlapack -L/usr/local/lib/R/lib -lRblas -lgfortran -lm -lquadmath -lgfortran -lm -
lquadmath -L/usr/local/lib/R/lib -lR
2389 #> installing to /home/docker/R/mrgsolve/libs
2390 #> ** R
2391 #> ** data
2392 #> ** inst
2393 #> ** preparing package for lazy loading
2394 #> Creating a generic function for 'as.list' from package 'base' in package 'mrgsolve'
2395 #> Creating a generic function for 'as.data.frame' from package 'base' in package 'mrgsolve'
2396 #> Creating a generic function for 'as.matrix' from package 'base' in package 'mrgsolve'
2397 #> Creating a generic function for 'plot' from package 'graphics' in package 'mrgsolve'
2398 #> Creating a generic function for 'labels' from package 'base' in package 'mrgsolve'
2399 #> Creating a generic function for 'nrow' from package 'base' in package 'mrgsolve'
2400 #> Creating a new generic function for 'rename' in package 'mrgsolve'
2401 #> Creating a generic function for 'tail' from package 'utils' in package 'mrgsolve'
2402 #> Creating a generic function for 'head' from package 'utils' in package 'mrgsolve'
2403 #> Creating a generic function for 'subset' from package 'base' in package 'mrgsolve'
2404 #> Creating a generic function for 'summary' from package 'base' in package 'mrgsolve'
2405 #> Creating a generic function for 'update' from package 'stats' in package 'mrgsolve'
2406 #> ** help
2407 #> *** installing help indices
2408 #> ** building package indices
2409 #> ** testing if installed package can be loaded
2410 #> * creating tarball
2411 #> packaged installation of 'mrgsolve' as 'mrgsolve_0.8.5_R_x86_64-pc-linux-gnu.tar.gz'
2412 #> * DONE (mrgsolve)
2413 #> >
2414 #> >

```

Running R CMD check

```

2416 #> About to run xvfb-run sh mrgsolve_0.8.5.tar.gz
2417 #> * installing to library '/home/docker/R'
2418 #> * installing *source* package 'mrgsolve' ...
2419 #> ** package 'mrgsolve' successfully unpacked and MD5 sums checked
2420 #> ** libs
2421 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c RcppExports.cpp -o RcppExports.o
2422 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c dataobject.cpp -o dataobject.o
2423 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c datarecord.cpp -o datarecord.o

```

```

2424 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c devtran.cpp -o devtran.o
2425 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c housemodel-mread-source.cpp -o housemodel-mread-source.o
2426 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c mrgsolve.cpp -o mrgsolve.o
2427 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c mrgsolve_init.cpp -o mrgsolve_init.o
2428 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c odepack_dlsoda.cpp -o odepack_dlsoda.o
2429 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c odeproblem.cpp -o odeproblem.o
2430 #> gfortran -fpic -pipe -O2 -mtune=native -c opk_dlsoda_mrg.f -o opk_dlsoda_mrg.o
2431 #> gfortran -fpic -pipe -O2 -mtune=native -c opkda1_mrg.f -o opkda1_mrg.o
2432 #> gfortran -fpic -pipe -O2 -mtune=native -c opkda2_mrg.f -o opkda2_mrg.o
2433 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -
I/usr/local/lib/R/include -DNDEBUG -I../inst/include -I/usr/local/include -I"/home/docker/R/Rcpp/include" -
I"/home/docker/R/RcppArmadillo/include" -I"/home/docker/R/BH/include" -fpic -pipe -Wall -pedantic -O2 -mtune=native
-c quick.cpp -o quick.o
2434 #> g++ -fsanitize=address,undefined,bounds-strict -fno-omit-frame-pointer -fno-sanitize=object-size,vptr -shared -
L/usr/local/lib/R/lib -L/usr/local/lib -o mrgsolve.so RcppExports.o dataobject.o datarecord.o devtran.o housemodel-
mread-source.o mrgsolve.o mrgsolve_init.o odepack_dlsoda.o odeproblem.o opk_dlsoda_mrg.o opkda1_mrg.o opkda2_mrg.o
quick.o -L/usr/local/lib/R/lib -lRlapack -L/usr/local/lib/R/lib -lRblas -lgfortran -lm -lquadmath -lgfortran -lm -
lquadmath -L/usr/local/lib/R/lib -lR
2435 #> installing to /home/docker/R/mrgsolve/libs
2436 #> ** R
2437 #> ** data
2438 #> ** inst
2439 #> ** preparing package for lazy loading
2440 #> Creating a generic function for 'as.list' from package 'base' in package 'mrgsolve'
2441 #> Creating a generic function for 'as.data.frame' from package 'base' in package 'mrgsolve'
2442 #> Creating a generic function for 'as.matrix' from package 'base' in package 'mrgsolve'
2443 #> Creating a generic function for 'plot' from package 'graphics' in package 'mrgsolve'
2444 #> Creating a generic function for 'labels' from package 'base' in package 'mrgsolve'
2445 #> Creating a generic function for 'nrow' from package 'base' in package 'mrgsolve'
2446 #> Creating a new generic function for 'rename' in package 'mrgsolve'
2447 #> Creating a generic function for 'tail' from package 'utils' in package 'mrgsolve'
2448 #> Creating a generic function for 'head' from package 'utils' in package 'mrgsolve'
2449 #> Creating a generic function for 'subset' from package 'base' in package 'mrgsolve'
2450 #> Creating a generic function for 'summary' from package 'base' in package 'mrgsolve'
2451 #> Creating a generic function for 'update' from package 'stats' in package 'mrgsolve'
2452 #> ** help
2453 #> *** installing help indices
2454 #> ** building package indices
2455 #> ** testing if installed package can be loaded
2456 #> * DONE (mrgsolve)
2457 #> Running tests
2458 #> R Under development (unstable) (2016-09-18 r71304) -- "Unsuffered Consequences"
2459 #> Copyright (C) 2016 The R Foundation for Statistical Computing
2460 #> Platform: x86_64-pc-linux-gnu (64-bit)
2461 #> R is free software and comes with ABSOLUTELY NO WARRANTY.
2462 #> You are welcome to redistribute it under certain conditions.
2463 #> Type 'license()' or 'licence()' for distribution details.
2464 #> Natural language support but running in an English locale
2465 #> R is a collaborative project with many contributors.
2466 #> Type 'contributors()' for more information and
2467 #> 'citation()' on how to cite R or R packages in publications.
2468 #> Type 'demo()' for some demos, 'help()' for on-line help, or
2469 #> 'help.start()' for an HTML browser interface to help.
2470 #> Type 'q()' to quit R.
2471 #> > tools:::runPackageTestsR()
2472 #> Running 'testthat.R'
2473 #> R Under development (unstable) (2016-09-18 r71304) -- "Unsuffered Consequences"
2474 #> Copyright (C) 2016 The R Foundation for Statistical Computing
2475 #> Platform: x86_64-pc-linux-gnu (64-bit)
2476 #> R is free software and comes with ABSOLUTELY NO WARRANTY.

```



```
2477 #> You are welcome to redistribute it under certain conditions.
2478 #> Type 'license()' or 'licence()' for distribution details.
2479 #> R is a collaborative project with many contributors.
2480 #> Type 'contributors()' for more information and
2481 #> 'citation()' on how to cite R or R packages in publications.
2482 #> Type 'demo()' for some demos, 'help()' for on-line help, or
2483 #> 'help.start()' for an HTML browser interface to help.
2484 #> Type 'q()' to quit R.
2485 #> # Copyright (C) 2013 - 2017 Metrum Research Group, LLC
2486 #> #
2487 #> # This file is part of mrgsolve.
2488 #> #
2489 #> # mrgsolve is free software: you can redistribute it and/or modify it
2490 #> # under the terms of the GNU General Public License as published by
2491 #> # the Free Software Foundation, either version 2 of the License, or
2492 #> # (at your option) any later version.
2493 #> #
2494 #> # mrgsolve is distributed in the hope that it will be useful, but
2495 #> # WITHOUT ANY WARRANTY; without even the implied warranty of
2496 #> # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
2497 #> # GNU General Public License for more details.
2498 #> #
2499 #> # You should have received a copy of the GNU General Public License
2500 #> # along with mrgsolve. If not, see .
2501 #>
2502 #> Sys.setenv("R_TESTS" = "")
2503 #> library(testthat)
2504 #> library(mrgsolve)
2505 #>
2506 #> test_check("mrgsolve", reporter="summary")
2507 #> Attaching package: 'dplyr'
2508 #> The following object is masked from 'package:testthat':
2509 #> matches
2510 #> The following objects are masked from 'package:stats':
2511 #> filter, lag
2512 #> The following objects are masked from 'package:base':
2513 #> intersect, setdiff, setequal, union
2514 #> Lagged doses: .....
2515 #> test-annot: .....
2516 #> Dedicated bioavailability tests: ...
2517 #> test-cache: ...
2518 #> Testing carry_out: .....
2519 #> Testing carry_out of tran / PK dosing items: .....
2520 #> Testing data_set: .....
2521 #> Data set record sorting: ..
2522 #> Tests for dataobject - data: ..
2523 #> .....Use dplyr generics on mrgsims objects: .....
2524 #> Testing infusion inputs:
2525 #> Test $ENV: .....
2526 #> .....CMTN block gives compartment numbers: ..
2527 #> Fixed parameters: ...
2528 #> Infusions: .....
2529 #> Infusions that end too close to observations.: ..
2530 #> Infusion with ss flag: .
2531 #> test-initials: .....
2532 #> Loading a model via mread:
2533 #> Running a 1 cmt PK model with initial value of 1000: .....
2534 #> Test knobs: ....
2535 #> Testing matlist operations: .....
2536 #> test-annot: ....
2537 #> test-modlib models: .....
2538 #> test-modspec: .....
2539 #> Testing new model specification file: .....
2540 #> valid_data_set tests: .....
2541 #> Testing NMXML functionality:
2542 #> Testing obsonly and obsaug arguments: .....
2543 #> Test opts: ..
2544 #> Compare PKMODEL with equivalent ODEs.: ...
2545 #> Testing that plots can be generated from output objects:
2546 #> PLUGIN: Rcpp: ...
2547 #> .Rename via carry.out #30: .....
2548 #> test-request: .....
2549 #> Testing various request settings: .....
2550 #> R RNG respected via set.seed(): ....
2551 #> .....test-update: .....
2552 #> Updates: general and simulation times: ....
2553 #> Test updates: parameters and initials: .....
```



```

2554 #> Test updates: solver settings: .....
2555 #> Test updates: events: ...
2556 #> Testing parameter updates via data:
2557 #> Testing parameter updates via idata: ..
2558 #> Events-based sim same results as data set-based sim: .
2559 #> Time-varying data items passed in via data set: .
2560 #> util functions: ....
2561 #> Test utils: .....
2562 #> Set F via F_CMT: .....
2563 #> Set ALAG via ALAG_CMT: .....
2564 #> DONE =====
2565 #> >
2566 #> >
2567 #> > proc.time()
2568 #> user system elapsed
2569 #> 30.028 4.768 36.706
2570 #> Running examples
2571 #> > tools:::createExdotR('mrgsolve', system.file(package = 'mrgsolve'))
2572 #> Extracting from parsed Rd's .....
2573 #> >
2574 #> >
2575 #> Model: housemodel.cpp
2576 #> Dim: 482 x 4
2577 #> Time: 0 to 120
2578 #> ID: 1
2579 #> ID time RESP CP
2580 #> [1,] 1 0.00 50.00 0.00
2581 #> [2,] 1 0.00 50.00 0.00
2582 #> [3,] 1 0.25 42.29 12.87
2583 #> [4,] 1 0.50 32.69 22.25
2584 #> [5,] 1 0.75 25.29 29.04
2585 #> [6,] 1 1.00 20.05 33.91
2586 #> [7,] 1 1.25 16.45 37.37
2587 #> [8,] 1 1.50 14.01 39.78
2588 #> [[1]]
2589 #> [,1] [,2]
2590 #> [1,] 1 11
2591 #> [2,] 11 3
2592 #> [[2]]
2593 #> [,1] [,2]
2594 #> [1,] 2 22
2595 #> [2,] 22 4
2596 #> [[1]]
2597 #> [,1]
2598 #> [1,] 1
2599 #> [[2]]
2600 #> [,1]
2601 #> [1,] 1
2602 #> [[1]]
2603 #> [,1] [,2] [,3]
2604 #> [1,] 1 0 0
2605 #> [2,] 0 11 0
2606 #> [3,] 0 0 3
2607 #> ID time cmt evid amt ii add1
2608 #> 1 1 0 1 1 100 0 0
2609 #> 2 1 0 1 1 200 0 0
2610 #> 3 2 0 1 1 100 0 0
2611 #> 4 2 0 1 1 200 0 0
2612 #> 5 3 0 1 1 100 0 0
2613 #> 6 3 0 1 1 200 0 0
2614 #> 7 4 24 1 1 300 0 0
2615 #> 8 5 24 1 1 300 0 0
2616 #> 9 6 0 1 1 1000 8 10
2617 #> 10 7 0 1 1 1000 8 10
2618 #> 11 8 0 1 1 1000 8 10
2619 #> ID time cmt evid amt
2620 #> 1 1 0 1 1 100
2621 #> 2 2 0 1 1 200
2622 #> 3 3 0 1 1 300
2623 #> # A tibble: 4 x 5
2624 #> ID end delta add GRP
2625 #>
2626 #> 1 1 24 6 1
2627 #> 2 2 48 6 0
2628 #> 3 3 72 6 1
2629 #> 4 4 96 6 0
2630 #> $GRP_1

```

```

2631 #> start: 0 end: 48 delta: 6 offset: 0 min: 0 max: 111
2632 #> $GRP_0
2633 #> start: 0 end: 24 delta: 6 offset: 0 min: 0 max: 135
2634 #> attr("descol")
2635 #> [1] "GRP"
2636 #> $GRP_1
2637 #> [1] 0 6 12 18 24 30 36 42 48 111
2638 #> $GRP_0
2639 #> [1] 0 6 12 18 24 122 124 135
2640 #> $ID_1
2641 #> [1] 0 6 12 18 24 122 124 135
2642 #> $ID_2
2643 #> [1] 0 6 12 18 24 30 36 42 48 111
2644 #> $ID_3
2645 #> [1] 0 6 12 18 24 30 36 42 48 54 60 66 72 99
2646 #> $ID_4
2647 #> [1] 0 6 12 18 24 30 36 42 48 54 60 66 72 78 84 88 90 96
2648 #> time cmt amt evid rate ii addl ID arm
2649 #> 1 0 1 100 1 0 0 0 1 2
2650 #> 2 0 1 300 1 100 12 10 2 1
2651 #> 3 0 1 100 1 0 0 0 3 2
2652 #> 4 0 1 300 1 100 12 10 4 1
2653 #> 5 0 1 100 1 0 0 0 5 2
2654 #> 6 0 1 300 1 100 12 10 6 1
2655 #> 7 0 1 100 1 0 0 0 7 2
2656 #> 8 0 1 300 1 100 12 10 8 1
2657 #> 9 0 1 100 1 0 0 0 9 2
2658 #> 10 0 1 300 1 100 12 10 10 1
2659 #> Model file: housemodel.cpp
2660 #> $PARAM
2661 #> @annotated
2662 #> CL : 1 : Clearance (L/hr)
2663 #> VC : 20 : Volume of distribution (L)
2664 #> KA : 1.2 : Absorption rate constant (1/hr)
2665 #> F1 : 1.0 : Bioavailability fraction (.)
2666 #> WT : 70 : Weight (kg)
2667 #> SEX : 0 : Covariate female sex
2668 #> WTCL : 0.75 : Exponent WT on CL
2669 #> WTVC : 1.00 : Exponent WT on VC
2670 #> SEXCL: 0.7 : Prop cov effect on CL
2671 #> SEXVC: 0.85 : Prop cov effect on VC
2672 #> KIN : 100 : Resp prod rate constant (1/hr)
2673 #> KOUT : 2 : Resp elim rate constant (1/hr)
2674 #> IC50 : 10 : Conc giving 50% max resp (ng/ml)
2675 #> $MAIN
2676 #> F_GUT = F1;
2677 #> double CLi = exp(log(CL) + WTCL*log(WT/70) + log(SEXCL)*SEX + ECL);
2678 #> double Vci = exp(log(VC) + WTVC*log(WT/70) + log(SEXVC)*SEX + EVC);
2679 #> double KAi = exp(log(KA) + EKA);
2680 #> double KOUTi = exp(log(KOUT) + EKOUT);
2681 #> RESP_0 = KIN/KOUTi;
2682 #> $ODE
2683 #> dxdt_GUT = -KAi*GUT;
2684 #> dxdt_CENT = KAi*GUT - (CLi/Vci)*CENT;
2685 #> dxdt_RESP = KIN*(1-INH) - KOUTi*RESP;
2686 #> $TABLE
2687 #> double DV = CP*exp(EXPO);
2688 #> Model file: housemodel.cpp
2689 #> $PARAM
2690 #> @annotated
2691 #> CL : 1 : Clearance (L/hr)
2692 #> VC : 20 : Volume of distribution (L)
2693 #> KA : 1.2 : Absorption rate constant (1/hr)
2694 #> F1 : 1.0 : Bioavailability fraction (.)
2695 #> WT : 70 : Weight (kg)
2696 #> SEX : 0 : Covariate female sex
2697 #> WTCL : 0.75 : Exponent WT on CL
2698 #> WTVC : 1.00 : Exponent WT on VC
2699 #> SEXCL: 0.7 : Prop cov effect on CL
2700 #> SEXVC: 0.85 : Prop cov effect on VC
2701 #> KIN : 100 : Resp prod rate constant (1/hr)
2702 #> KOUT : 2 : Resp elim rate constant (1/hr)
2703 #> IC50 : 10 : Conc giving 50% max resp (ng/ml)
2704 #> $TABLE
2705 #> double DV = CP*exp(EXPO);
2706 #> [,1] [,2] [,3]
2707 #> [1,] 0.1 0.0 0.0

```

```
2708 #> [2,] 0.0 0.2 0.0
2709 #> [3,] 0.0 0.0 0.3
2710 #> [,1] [,2]
2711 #> [1,] 0.50 0.01
2712 #> [2,] 0.01 0.20
2713 #> [,1] [,2]
2714 #> [1,] 0.5000000 0.2751182
2715 #> [2,] 0.2751182 0.2000000
2716 #> [1] 2
2717 #> [1] "A" "B" "C"
2718 #> [1] "A" "B" "C"
2719 #> [1] "A" "B" "C"
2720 #> Model: housemodel.cpp
2721 #> Dim: 2410 x 7
2722 #> Time: 0 to 120
2723 #> ID: 5
2724 #> ID time GUT CENT RESP DV CP
2725 #> [1,] 2 0.00 0.000 0.000 50.00 0.0000 0.0000
2726 #> [2,] 2 0.00 10.000 0.000 50.00 0.0000 0.0000
2727 #> [3,] 2 0.25 7.408 2.575 49.86 0.1287 0.1287
2728 #> [4,] 2 0.50 5.488 4.450 49.56 0.2225 0.2225
2729 #> [5,] 2 0.75 4.066 5.808 49.23 0.2904 0.2904
2730 #> [6,] 2 1.00 3.012 6.783 48.93 0.3391 0.3391
2731 #> [7,] 2 1.25 2.231 7.474 48.67 0.3737 0.3737
2732 #> [8,] 2 1.50 1.653 7.956 48.46 0.3978 0.3978
2733 #> ID amt cmt time addl ii rate evid
2734 #> 1 1 1000 1 0 3 24 0 1
2735 #> 2 2 1000 2 0 0 0 20 1
2736 #> 3 3 1000 1 0 0 0 0 1
2737 #> 4 3 500 1 24 0 0 0 1
2738 #> 5 3 500 1 48 0 0 0 1
2739 #> 6 3 1000 1 72 0 0 0 1
2740 #> Model: housemodel.cpp
2741 #> Dim: 2414 x 7
2742 #> Time: 0 to 120
2743 #> ID: 5
2744 #> ID time GUT CENT RESP DV CP
2745 #> [1,] 1 0.00 0.0 0.0 50.00 0.00 0.00
2746 #> [2,] 1 0.00 1000.0 0.0 50.00 0.00 0.00
2747 #> [3,] 1 0.25 740.8 257.5 42.29 12.87 12.87
2748 #> [4,] 1 0.50 548.8 445.0 32.69 22.25 22.25
2749 #> [5,] 1 0.75 406.6 580.8 25.29 29.04 29.04
2750 #> [6,] 1 1.00 301.2 678.3 20.05 33.91 33.91
2751 #> [7,] 1 1.25 223.1 747.4 16.45 37.37 37.37
2752 #> [8,] 1 1.50 165.3 795.6 14.01 39.78 39.78
2753 #> Model: housemodel.cpp
2754 #> Dim: 2414 x 7
2755 #> Time: 0 to 120
2756 #> ID: 5
2757 #> ID time GUT CENT RESP DV CP
2758 #> [1,] 1 0.00 0.0 0.0 50.00 0.00 0.00
2759 #> [2,] 1 0.00 1000.0 0.0 50.00 0.00 0.00
2760 #> [3,] 1 0.25 740.8 257.5 42.29 12.87 12.87
2761 #> [4,] 1 0.50 548.8 445.0 32.69 22.25 22.25
2762 #> [5,] 1 0.75 406.6 580.8 25.29 29.04 29.04
2763 #> [6,] 1 1.00 301.2 678.3 20.05 33.91 33.91
2764 #> [7,] 1 1.25 223.1 747.4 16.45 37.37 37.37
2765 #> [8,] 1 1.50 165.3 795.6 14.01 39.78 39.78
2766 #> time cmt amt evid ii addl
2767 #> 1 0 1 100 1 168 3
2768 #> 2 48 1 100 1 168 3
2769 #> 3 96 1 100 1 168 3
2770 #> time cmt amt evid ii addl
2771 #> 1 24 1 50 1 168 23
2772 #> 2 72 1 100 1 168 23
2773 #> Events:
2774 #> time cmt amt evid
2775 #> 1 0 1 1000 1
2776 #> Events:
2777 #> time cmt amt evid ii addl
2778 #> 1 0 1 1000 1 0 0
2779 #> 2 12 1 500 1 12 10
2780 #> Events:
2781 #> ID time cmt amt evid
2782 #> 1 1 0 1 100 1
2783 #> 2 2 0 1 100 1
2784 #> 3 3 0 1 100 1
```

```
2785 #> 4 4 0 1 100 1
2786 #> 5 5 0 1 100 1
2787 #> 6 6 0 1 100 1
2788 #> 7 7 0 1 100 1
2789 #> 8 8 0 1 100 1
2790 #> 9 9 0 1 100 1
2791 #> 10 10 0 1 100 1
2792 #> Model: housemodel.cpp
2793 #> Dim: 132 x 3
2794 #> Time: 0 to 24.65
2795 #> ID: 12
2796 #> ID time CP
2797 #> [1,] 1 0.00 0.00000
2798 #> [2,] 1 0.25 0.04552
2799 #> [3,] 1 0.57 0.08624
2800 #> [4,] 1 1.12 0.12643
2801 #> [5,] 1 2.02 0.15072
2802 #> [6,] 1 3.82 0.15121
2803 #> [7,] 1 5.10 0.14348
2804 #> [8,] 1 7.03 0.13101
2805 #> Model: housemodel.cpp
2806 #> Dim: 4814 x 3
2807 #> Time: 0 to 240
2808 #> ID: 5
2809 #> ID time CP
2810 #> [1,] 1 0.00 0.00
2811 #> [2,] 1 0.00 0.00
2812 #> [3,] 1 0.25 12.87
2813 #> [4,] 1 0.50 22.25
2814 #> [5,] 1 0.75 29.04
2815 #> [6,] 1 1.00 33.91
2816 #> [7,] 1 1.25 37.37
2817 #> [8,] 1 1.50 39.78
2818 #> Loading required package: dplyr
2819 #> Attaching package: 'dplyr'
2820 #> The following objects are masked from 'package:stats':
2821 #> filter, lag
2822 #> The following objects are masked from 'package:base':
2823 #> intersect, setdiff, setequal, union
2824 #> Joining, by = "ID"
2825 #> ID amt cmt time addl ii rate evid CL
2826 #> 1 1 1000 1 0 3 24 0 1 1.252153
2827 #> 2 2 1000 2 0 0 0 20 1 1.313282
2828 #> 3 3 1000 1 0 0 0 0 1 1.991284
2829 #> 4 3 500 1 24 0 0 0 1 1.991284
2830 #> 5 3 500 1 48 0 0 0 1 1.991284
2831 #> 6 3 1000 1 72 0 0 0 1 1.991284
2832 #> 7 4 2000 2 0 2 48 100 1 2.117796
2833 #> 8 5 1000 1 0 0 0 0 1 1.475523
2834 #> 9 5 5000 1 24 0 0 60 1 1.475523
2835 #> Model: housemodel.cpp
2836 #> Dim: 4814 x 4
2837 #> Time: 0 to 240
2838 #> ID: 5
2839 #> ID time CL CP
2840 #> [1,] 1 0.00 1.252 0.00
2841 #> [2,] 1 0.00 1.252 0.00
2842 #> [3,] 1 0.25 1.252 12.85
2843 #> [4,] 1 0.50 1.252 22.18
2844 #> [5,] 1 0.75 1.252 28.89
2845 #> [6,] 1 1.00 1.252 33.66
2846 #> [7,] 1 1.25 1.252 37.01
2847 #> [8,] 1 1.50 1.252 39.30
2848 #> detaching 'package:dplyr'
2849 #> Model file: housemodel.cpp
2850 #> $PROB
2851 #>
2852 #> # `mrgsolve` housemodel
2853 #>
2854 #> This model is compiled with `mrgsolve`.
2855 #>
2856 #> - Author: Metrum Research Group, LLC
2857 #> - Description: Generic indirect response PK/PD model
2858 #> - Covariates: Weight, female sex
2859 #> - Random effects: CL, VC, KA, KOUT
2860 #> - Error model: exponential
2861 #>
```

```

2862 #>
2863 #>
2864 #> $PLUGIN base
2865 #>
2866 #> $PARAM @annotated
2867 #> CL : 1 : Clearance (L/hr)
2868 #> VC : 20 : Volume of distribution (L)
2869 #> KA : 1.2 : Absorption rate constant (1/hr)
2870 #> F1 : 1.0 : Bioavailability fraction (.)
2871 #> WT : 70 : Weight (kg)
2872 #> SEX : 0 : Covariate female sex
2873 #> WTCL : 0.75 : Exponent WT on CL
2874 #> WTVc : 1.00 : Exponent WT on VC
2875 #> SEXCL: 0.7 : Prop cov effect on CL
2876 #> SEXVC: 0.85 : Prop cov effect on VC
2877 #> KIN : 100 : Resp prod rate constant (1/hr)
2878 #> KOUT : 2 : Resp elim rate constant (1/hr)
2879 #> IC50 : 10 : Conc giving 50% max resp (ng/ml)
2880 #>
2881 #> $CMT @annotated
2882 #> GUT : Dosing compartment (mg)
2883 #> CENT : Central compartment (mg)
2884 #> RESP : Response (unitless)
2885 #>
2886 #> $OMEGA @labels ECL EVC EKA EKOUT
2887 #> 0 0 0 0
2888 #>
2889 #> $SIGMA @labels EXPO
2890 #> 0
2891 #>
2892 #> $SET end=120, delta=0.25
2893 #>
2894 #>
2895 #> $GLOBAL
2896 #> #define CP (CENT/VCi)
2897 #> #define INH (CP/(IC50+CP))
2898 #>
2899 #> typedef double localdouble;
2900 #>
2901 #> $MAIN
2902 #> F_GUT = F1;
2903 #>
2904 #> double CLi = exp(log(CL) + WTCL*log(WT/70) + log(SEXCL)*SEX + ECL);
2905 #> double VCi = exp(log(VC) + WTVc*log(WT/70) + log(SEXVC)*SEX + EVC);
2906 #> double KAi = exp(log(KA) + EKA);
2907 #> double KOUTi = exp(log(KOUT) + EKOUT);
2908 #>
2909 #> RESP_0 = KIN/KOUTi;
2910 #>
2911 #> $ODE
2912 #> dxdt_GUT = -KAi*GUT;
2913 #> dxdt_CENT = KAi*GUT - (CLi/VCi)*CENT;
2914 #> dxdt_RESP = KIN*(1-INH) - KOUTi*RESP;
2915 #>
2916 #> $TABLE
2917 #> double DV = CP*exp(EXPO);
2918 #>
2919 #> $CAPTURE @annotated
2920 #> DV: Dependent variable (ng/ml)
2921 #> CP: Plasma concentration (ng/ml)
2922 #>
2923 #> ID CL VC KA KOUT IC50 F00
2924 #> 1 1 1.050 47.80 0.8390 2.450 1.280 4
2925 #> 2 2 0.730 30.10 0.0684 2.510 1.840 6
2926 #> 3 3 2.820 23.80 0.1180 3.880 2.480 5
2927 #> 4 4 0.552 26.30 0.4950 1.180 0.977 2
2928 #> 5 5 0.483 4.36 0.1220 2.350 0.483 10
2929 #> 6 6 3.620 39.80 0.1260 1.890 4.240 1
2930 #> 7 7 0.395 12.10 0.0317 1.250 0.802 8
2931 #> 8 8 1.440 31.20 0.0931 4.030 1.310 7
2932 #> 9 9 2.570 18.20 0.0570 0.862 1.950 3
2933 #> 10 10 2.000 6.51 0.1540 3.220 0.699 9
2934 #> Model: housemodel.cpp
2935 #> Dim: 4810 x 7
2936 #> Time: 0 to 120
2937 #> ID: 10
2938 #> ID time GUT CENT RESP DV CP

```

```
2939 #> [1,] 1 0.00 0 0 40.82 0 0
2940 #> [2,] 1 0.25 0 0 40.82 0 0
2941 #> [3,] 1 0.50 0 0 40.82 0 0
2942 #> [4,] 1 0.75 0 0 40.82 0 0
2943 #> [5,] 1 1.00 0 0 40.82 0 0
2944 #> [6,] 1 1.25 0 0 40.82 0 0
2945 #> [7,] 1 1.50 0 0 40.82 0 0
2946 #> [8,] 1 1.75 0 0 40.82 0 0
2947 #> Model: housemodel.cpp
2948 #> Dim: 4810 x 7
2949 #> Time: 0 to 120
2950 #> ID: 10
2951 #> ID time GUT CENT RESP DV CP
2952 #> [1,] 1 0.00 0 0 40.82 0 0
2953 #> [2,] 1 0.25 0 0 40.82 0 0
2954 #> [3,] 1 0.50 0 0 40.82 0 0
2955 #> [4,] 1 0.75 0 0 40.82 0 0
2956 #> [5,] 1 1.00 0 0 40.82 0 0
2957 #> [6,] 1 1.25 0 0 40.82 0 0
2958 #> [7,] 1 1.50 0 0 40.82 0 0
2959 #> [8,] 1 1.75 0 0 40.82 0 0
2960 #> Model initial conditions (N=3):
2961 #> name value . name value
2962 #> CENT (2) 0 | RESP (3) 50
2963 #> GUT (1) 0 | . ... .
2964 #> Model initial conditions (N=3):
2965 #> name value . name value
2966 #> CENT (2) 0 | . ... .
2967 #> [1] "cmt_list"
2968 #> attr("package")
2969 #> [1] "mrgsolve"
2970 #> [1] 0
2971 #> $GUT
2972 #> [1] 0
2973 #> $CENT
2974 #> [1] 0
2975 #> $RESP
2976 #> [1] 50
2977 #> GUT CENT RESP
2978 #> 1 0 0 50
2979 #> Model: housemodel
2980 #> Batch (head):
2981 #> ID CL
2982 #> 1 1 1
2983 #> 2 2 2
2984 #> 3 3 3
2985 #> [ CL ]
2986 #> Head:
2987 #> ID time GUT CENT RESP DV CP CL
2988 #> 1 1 0.00 1000.0000 0.0000 50.00000 0.00000 0.00000 1
2989 #> 2 1 0.25 740.8182 257.4883 42.29342 12.87441 12.87441 1
2990 #> 3 1 0.50 548.8116 445.0417 32.69422 22.25208 22.25208 1
2991 #> 4 1 0.75 406.5697 580.8258 25.29397 29.04129 29.04129 1
2992 #> 5 1 1.00 301.1942 678.2976 20.05159 33.91488 33.91488 1
2993 #> [ CL ]Dropping knobs: VC
2994 #> Model: housemodel
2995 #> Batch (head):
2996 #> ID CL
2997 #> 1 1 1
2998 #> 2 2 2
2999 #> 3 3 3
3000 #> [ CL ]
3001 #> Head:
3002 #> ID time GUT CENT RESP DV CP CL
3003 #> 1 1 0.00 0 0 50 0 0 1
3004 #> 2 1 0.25 0 0 50 0 0 1
3005 #> 3 1 0.50 0 0 50 0 0 1
3006 #> 4 1 0.75 0 0 50 0 0 1
3007 #> 5 1 1.00 0 0 50 0 0 1
3008 #> [ CL ]Model: housemodel
3009 #> Batch (head):
3010 #> ID CL
3011 #> 1 1 1
3012 #> 2 2 2
3013 #> 3 3 3
3014 #> [ CL ]
3015 #> Head:
```



```
3016 #> ID time GUT CENT RESP DV CP CL
3017 #> 1 1 0.00 0 0 50 0 0 1
3018 #> 2 1 0.25 0 0 50 0 0 1
3019 #> 3 1 0.50 0 0 50 0 0 1
3020 #> 4 1 0.75 0 0 50 0 0 1
3021 #> 5 1 1.00 0 0 50 0 0 1
3022 #> [ CL ] [,1] [,2] [,3]
3023 #> [1,] 1 0.0 0
3024 #> [2,] 0 2.2 0
3025 #> [3,] 0 0.0 333
3026 #> [,1] [,2]
3027 #> [1,] 1.0 1.1
3028 #> [2,] 1.1 2.2
3029 #> [,1] [,2] [,3] [,4]
3030 #> [1,] 0 0 0 0
3031 #> [2,] 0 0 0 0
3032 #> [3,] 0 0 0 0
3033 #> [4,] 0 0 0 0
3034 #> [,1] [,2]
3035 #> [1,] 1.100000 1.022052
3036 #> [2,] 1.022052 2.200000
3037 #> [,1] [,2]
3038 #> [1,] 1.000 0.657
3039 #> [2,] 0.657 1.000
3040 #> Model: housemodel.cpp
3041 #> Dim: 90 x 7
3042 #> Time: 0 to 22
3043 #> ID: 1
3044 #> ID time GUT CENT RESP DV CP
3045 #> [1,] 1 0.00 0.0 0.0 50.00 0.00 0.00
3046 #> [2,] 1 0.00 1000.0 0.0 50.00 0.00 0.00
3047 #> [3,] 1 0.25 740.8 257.5 42.29 12.87 12.87
3048 #> [4,] 1 0.50 548.8 445.0 32.69 22.25 22.25
3049 #> [5,] 1 0.75 406.6 580.8 25.29 29.04 29.04
3050 #> [6,] 1 1.00 301.2 678.3 20.05 33.91 33.91
3051 #> [7,] 1 1.25 223.1 747.4 16.45 37.37 37.37
3052 #> [8,] 1 1.50 165.3 795.6 14.01 39.78 39.78
3053 #> Model: housemodel.cpp
3054 #> Dim: 132 x 7
3055 #> Time: 0 to 24.65
3056 #> ID: 12
3057 #> ID time GUT CENT RESP DV CP
3058 #> [1,] 1 0.00 4.020000 0.000 50.00 0.00000 0.00000
3059 #> [2,] 1 0.25 2.978089 1.035 49.95 0.04552 0.04552
3060 #> [3,] 1 0.57 2.028470 1.961 49.81 0.08624 0.08624
3061 #> [4,] 1 1.12 1.048417 2.875 49.57 0.12643 0.12643
3062 #> [5,] 1 2.02 0.356038 3.428 49.33 0.15072 0.15072
3063 #> [6,] 1 3.82 0.041060 3.439 49.25 0.15121 0.15121
3064 #> [7,] 1 5.10 0.008838 3.263 49.28 0.14348 0.14348
3065 #> [8,] 1 7.03 0.000872 2.980 49.34 0.13101 0.13101
3066 #> Model: housemodel.cpp
3067 #> Dim: 120 x 7
3068 #> Time: 0.25 to 24.65
3069 #> ID: 12
3070 #> ID time GUT CENT RESP DV CP
3071 #> [1,] 1 0.25 2.978e+00 1.035 49.95 0.04552 0.04552
3072 #> [2,] 1 0.57 2.028e+00 1.961 49.81 0.08624 0.08624
3073 #> [3,] 1 1.12 1.048e+00 2.875 49.57 0.12643 0.12643
3074 #> [4,] 1 2.02 3.560e-01 3.428 49.33 0.15072 0.15072
3075 #> [5,] 1 3.82 4.106e-02 3.439 49.25 0.15121 0.15121
3076 #> [6,] 1 5.10 8.838e-03 3.263 49.28 0.14348 0.14348
3077 #> [7,] 1 7.03 8.720e-04 2.980 49.34 0.13101 0.13101
3078 #> [8,] 1 9.05 7.723e-05 2.703 49.40 0.11884 0.11884
3079 #> Model: housemodel.cpp
3080 #> Dim: 5904 x 8
3081 #> Time: 0 to 120
3082 #> ID: 12
3083 #> ID time a.u.g GUT CENT RESP DV CP
3084 #> [1,] 1 0.00 1 0.000 0.000 50.00 0.00000 0.00000
3085 #> [2,] 1 0.00 0 4.020 0.000 50.00 0.00000 0.00000
3086 #> [3,] 1 0.25 1 2.978 1.035 49.95 0.04552 0.04552
3087 #> [4,] 1 0.25 0 2.978 1.035 49.95 0.04552 0.04552
3088 #> [5,] 1 0.50 1 2.206 1.790 49.84 0.07870 0.07870
3089 #> [6,] 1 0.57 0 2.028 1.961 49.81 0.08624 0.08624
3090 #> [7,] 1 0.75 1 1.634 2.337 49.73 0.10274 0.10274
3091 #> [8,] 1 1.00 1 1.211 2.729 49.61 0.12001 0.12001
3092 #> Model: housemodel.cpp
```

```
3093 #> Dim: 482 x 5
3094 #> Time: 0 to 120
3095 #> ID: 1
3096 #> ID time CENT DV CP
3097 #> [1,] 1 0.00 0.0 0.00 0.00
3098 #> [2,] 1 0.00 0.0 0.00 0.00
3099 #> [3,] 1 0.25 257.5 12.87 12.87
3100 #> [4,] 1 0.50 445.0 22.25 22.25
3101 #> [5,] 1 0.75 580.8 29.04 29.04
3102 #> [6,] 1 1.00 678.3 33.91 33.91
3103 #> [7,] 1 1.25 747.4 37.37 37.37
3104 #> [8,] 1 1.50 795.6 39.78 39.78
3105 #> Model: housemodel.cpp
3106 #> Dim: 482 x 4
3107 #> Time: 0 to 120
3108 #> ID: 1
3109 #> ID time RESP CP
3110 #> [1,] 1 0.00 50.00 0.00
3111 #> [2,] 1 0.00 50.00 0.00
3112 #> [3,] 1 0.25 42.29 12.87
3113 #> [4,] 1 0.50 32.69 22.25
3114 #> [5,] 1 0.75 25.29 29.04
3115 #> [6,] 1 1.00 20.05 33.91
3116 #> [7,] 1 1.25 16.45 37.37
3117 #> [8,] 1 1.50 14.01 39.78
3118 #> [1] "mrgsims"
3119 #> attr(,"package")
3120 #> [1] "mrgsolve"
3121 #> Model: housemodel.cpp
3122 #> Dim: 481 x 7
3123 #> Time: 0 to 120
3124 #> ID: 1
3125 #> ID time GUT CENT RESP DV CP
3126 #> [1,] 1 0.00 100.00 0.00 50.00 0.000 0.000
3127 #> [2,] 1 0.25 74.08 25.75 48.68 1.287 1.287
3128 #> [3,] 1 0.50 54.88 44.50 46.18 2.225 2.225
3129 #> [4,] 1 0.75 40.66 58.08 43.61 2.904 2.904
3130 #> [5,] 1 1.00 30.12 67.83 41.38 3.391 3.391
3131 #> [6,] 1 1.25 22.31 74.74 39.58 3.737 3.737
3132 #> [7,] 1 1.50 16.53 79.56 38.18 3.978 3.978
3133 #> [8,] 1 1.75 12.25 82.83 37.14 4.141 4.141
3134 #> Model: housemodel
3135 #> ID time GUT CENT RESP DV CP
3136 #> 1 1 0.00 100.00000 0.00000 50.00000 0.000000 0.000000
3137 #> 2 1 0.25 74.08182 25.74883 48.68223 1.287441 1.287441
3138 #> 3 1 0.50 54.88116 44.50417 46.18005 2.225208 2.225208
3139 #> 4 1 0.75 40.65697 58.08258 43.61333 2.904129 2.904129
3140 #> 5 1 1.00 30.11942 67.82976 41.37943 3.391488 3.391488
3141 #> 6 1 1.25 22.31302 74.74256 39.57649 3.737128 3.737128
3142 #> Model: housemodel
3143 #> ID time GUT CENT RESP DV CP
3144 #> 476 1 118.75 9.202240e-44 0.2753340 49.92950 0.01376670 0.01376670
3145 #> 477 1 119.00 5.342789e-44 0.2719137 49.93038 0.01359569 0.01359569
3146 #> 478 1 119.25 2.453278e-44 0.2685360 49.93124 0.01342680 0.01342680
3147 #> 479 1 119.50 2.498865e-44 0.2652002 49.93209 0.01326001 0.01326001
3148 #> 480 1 119.75 1.869677e-44 0.2619058 49.93293 0.01309529 0.01309529
3149 #> 481 1 120.00 1.163038e-44 0.2586523 49.93377 0.01293262 0.01293262
3150 #> ----- mrgsolve model object (unix) -----
3151 #> Project: /home/docker/R/mrgsolve/project
3152 #> source: housemodel.cpp
3153 #> shared object: mrgsolve
3154 #> compile date:
3155 #> Time: start: 0 end: 120 delta: 0.25
3156 #> > add:
3157 #> > tscale: 1
3158 #> Compartments: GUT CENT RESP [3]
3159 #> Parameters: CL VC KA F1 WT SEX
3160 #> > WTCL WTVL SEXCL SEXVC KIN KOUT
3161 #> > IC50 [13]
3162 #> Omega: 4x4
3163 #> Sigma: 1x1
3164 #> Solver: atol: 1e-08 rtol: 1e-08
3165 #> > maxsteps: 2000 hmin: 0 hmax: 0
3166 #> [1] 481 7
3167 #> [1] "ID" "time" "GUT" "CENT" "RESP" "DV" "CP"
3168 #> [1] 0.00000000 1.28744129 2.22520840 2.90412917 3.39148807 3.73712819
3169 #> [7] 3.97797182 4.14136927 4.24757982 4.31160957 4.34457305 4.35470182
```

```
3170 #> [13] 4.34809176 4.32925658 4.30153797 4.26740933 4.22870090 4.18676645
3171 #> [19] 4.14260681 4.09696135 4.05037581 4.00325248 3.95588742 3.90849799
3172 #> [25] 3.86124331 3.81423936 3.76757018 3.72129619 3.67546029 3.63009249
3173 #> [31] 3.58521323 3.54083588 3.49696861 3.45361577 3.41077886 3.36845734
3174 #> [37] 3.32664914 3.28535111 3.24455927 3.20426913 3.16447573 3.12517389
3175 #> [43] 3.08635822 3.04802320 3.01016327 2.97277280 2.93584619 2.89937783
3176 #> [49] 2.86336215 2.82779361 2.79266673 2.75797606 2.72371622 2.68988189
3177 #> [55] 2.65646780 2.62346875 2.59087958 2.55869522 2.52691065 2.49552090
3178 #> [61] 2.46452107 2.43390631 2.40367186 2.37381298 2.34432501 2.31520334
3179 #> [67] 2.28644343 2.25804077 2.22999094 2.20228955 2.17493227 2.14791483
3180 #> [73] 2.12123300 2.09488263 2.06885958 2.04315979 2.01777925 1.99271399
3181 #> [79] 1.96796010 1.94351371 1.91937100 1.89552819 1.87198156 1.84872743
3182 #> [85] 1.82576217 1.80308219 1.78068394 1.75856393 1.73671869 1.71514483
3183 #> [91] 1.69383896 1.67279775 1.65201792 1.63149623 1.61122946 1.59121444
3184 #> [97] 1.57144806 1.55192722 1.53264887 1.51360999 1.49480763 1.47623883
3185 #> [103] 1.45790070 1.43979037 1.42190501 1.40424182 1.38679805 1.36957097
3186 #> [109] 1.35255788 1.33575613 1.31916310 1.30277620 1.28659285 1.27061054
3187 #> [115] 1.25482676 1.23923904 1.22384497 1.20864213 1.19362814 1.17880065
3188 #> [121] 1.16415735 1.14969596 1.13541421 1.12130987 1.10738074 1.09362463
3189 #> [127] 1.08003941 1.06662295 1.05337314 1.04028793 1.02736526 1.01460312
3190 #> [133] 1.00199952 0.98955248 0.97726006 0.96512034 0.95313142 0.94129144
3191 #> [139] 0.92959853 0.91805087 0.90664666 0.89538412 0.88426148 0.87327700
3192 #> [145] 0.86242899 0.85171572 0.84113554 0.83068679 0.82036783 0.81017706
3193 #> [151] 0.80011287 0.79017371 0.78035801 0.77066425 0.76109090 0.75163648
3194 #> [157] 0.74229948 0.73307851 0.72397206 0.71497874 0.70609713 0.69732585
3195 #> [163] 0.68866353 0.68010882 0.67166037 0.66331687 0.65507702 0.64693952
3196 #> [169] 0.63890311 0.63096653 0.62312854 0.61538791 0.60774343 0.60019392
3197 #> [175] 0.59273819 0.58537508 0.57810343 0.57092212 0.56383000 0.55682600
3198 #> [181] 0.54990900 0.54307792 0.53633170 0.52966928 0.52308962 0.51659170
3199 #> [187] 0.51017449 0.50383700 0.49757824 0.49139722 0.48529299 0.47926458
3200 #> [193] 0.47331106 0.46743150 0.46162497 0.45589057 0.45022741 0.44463459
3201 #> [199] 0.43911125 0.43365652 0.42826954 0.42294950 0.41769554 0.41250684
3202 #> [205] 0.40738260 0.40232202 0.39732429 0.39238865 0.38751432 0.38270054
3203 #> [211] 0.37794656 0.37325163 0.36861503 0.36403602 0.35951389 0.35504794
3204 #> [217] 0.35063746 0.34628177 0.34198019 0.33773204 0.33353666 0.32939341
3205 #> [223] 0.32530162 0.32126065 0.31726989 0.31332870 0.30943647 0.30559259
3206 #> [229] 0.30179645 0.29804748 0.29434507 0.29068866 0.28707767 0.28351153
3207 #> [235] 0.27998969 0.27651161 0.27307672 0.26968451 0.26633444 0.26302598
3208 #> [241] 0.25975862 0.25653184 0.25334515 0.25019805 0.24709004 0.24402064
3209 #> [247] 0.24098937 0.23799575 0.23503932 0.23211961 0.22923617 0.22638856
3210 #> [253] 0.22357631 0.22079900 0.21805619 0.21534746 0.21267237 0.21003051
3211 #> [259] 0.20742147 0.20484484 0.20230021 0.19978720 0.19730540 0.19485443
3212 #> [265] 0.19243391 0.19004346 0.18768270 0.18535127 0.18304880 0.18077493
3213 #> [271] 0.17852931 0.17631158 0.17412141 0.17195844 0.16982233 0.16771277
3214 #> [277] 0.16562941 0.16357193 0.16154000 0.15953332 0.15755156 0.15559443
3215 #> [283] 0.15366160 0.15175279 0.14986768 0.14800600 0.14616744 0.14435172
3216 #> [289] 0.14255855 0.14078766 0.13903877 0.13731160 0.13560589 0.13392136
3217 #> [295] 0.13225777 0.13061483 0.12899231 0.12738994 0.12580748 0.12424467
3218 #> [301] 0.12270128 0.12117706 0.11967177 0.11818519 0.11671707 0.11526718
3219 #> [307] 0.11383531 0.11242123 0.11102471 0.10964554 0.10828350 0.10693838
3220 #> [313] 0.10560997 0.10429806 0.10300245 0.10172293 0.10045931 0.09921138
3221 #> [319] 0.09797896 0.09676185 0.09555985 0.09437279 0.09320047 0.09204271
3222 #> [325] 0.09089934 0.08977017 0.08865503 0.08755374 0.08646613 0.08539203
3223 #> [331] 0.08433127 0.08328369 0.08224913 0.08122741 0.08021839 0.07922190
3224 #> [337] 0.07823779 0.07726590 0.07630609 0.07535820 0.07442209 0.07349760
3225 #> [343] 0.07258460 0.07168294 0.07079248 0.06991308 0.06904460 0.06818692
3226 #> [349] 0.06733989 0.06650338 0.06567726 0.06486140 0.06405568 0.06325997
3227 #> [355] 0.06247414 0.06169808 0.06093165 0.06017475 0.05942724 0.05868903
3228 #> [361] 0.05795998 0.05723999 0.05652894 0.05582673 0.05513324 0.05444836
3229 #> [367] 0.05377199 0.05310403 0.05244436 0.05179288 0.05114950 0.05051411
3230 #> [373] 0.04988661 0.04926691 0.04865491 0.04805051 0.04745362 0.04686414
3231 #> [379] 0.04628198 0.04570706 0.04513927 0.04457855 0.04402478 0.04347790
3232 #> [385] 0.04293781 0.04240442 0.04187767 0.04135746 0.04084370 0.04033634
3233 #> [391] 0.03983527 0.03934043 0.03885173 0.03836911 0.03789248 0.03742177
3234 #> [397] 0.03695691 0.03649783 0.03604444 0.03559669 0.03515450 0.03471781
3235 #> [403] 0.03428654 0.03386062 0.03344000 0.03302460 0.03261436 0.03220922
3236 #> [409] 0.03180911 0.03141397 0.03102374 0.03063836 0.03025776 0.02988189
3237 #> [415] 0.02951069 0.02914411 0.02878207 0.02842454 0.02807144 0.02772723
3238 #> [421] 0.02737835 0.02703825 0.02670238 0.02637068 0.02604310 0.02571958
3239 #> [427] 0.02540009 0.02508456 0.02477296 0.02446522 0.02416131 0.02386118
3240 #> [433] 0.02356477 0.02327204 0.02298295 0.02269745 0.02241550 0.02213705
3241 #> [439] 0.02186206 0.02159048 0.02132228 0.02105741 0.02079583 0.02053750
3242 #> [445] 0.02028238 0.02003043 0.01978161 0.01953588 0.01929320 0.01905354
3243 #> [451] 0.01881685 0.01858310 0.01835226 0.01812428 0.01789914 0.01767679
3244 #> [457] 0.01745721 0.01724035 0.01702619 0.01681469 0.01660581 0.01639953
3245 #> [463] 0.01619581 0.01599462 0.01579594 0.01559971 0.01540593 0.01521456
3246 #> [469] 0.01502556 0.01483891 0.01465458 0.01447253 0.01429275 0.01411521
```

```
3247 #> [475] 0.01393986 0.01376670 0.01359569 0.01342680 0.01326001 0.01309529
3248 #> [481] 0.01293262
3249 #> Events:
3250 #> time cmt amt addl ii evid
3251 #> 1 0 1 1000 5 24 1
3252 #> ----- mrgsolve model object (unix) -----
3253 #> Project: /home/docker/R/mrgsolve/project
3254 #> source: housemodel.cpp
3255 #> shared object: mrgsolve
3256 #> compile date:
3257 #> Time: start: 0 end: 120 delta: 0.1
3258 #> > add:
3259 #> > tscale: 1
3260 #> Compartments: GUT CENT RESP [3]
3261 #> Parameters: CL VC KA F1 WT SEX
3262 #> > WTCL WTVCL SEXCL SEXVC KIN KOUT
3263 #> > IC50 [13]
3264 #> Omega: 4x4
3265 #> Sigma: 1x1
3266 #> Solver: atol: 1e-08 rtol: 1e-08
3267 #> > maxsteps: 2000 hmin: 0 hmax: 0
3268 #> Model file: housemodel.cpp
3269 #> $PROB
3270 #>
3271 #> # `mrgsolve` housemodel
3272 #>
3273 #> This model is compiled with `mrgsolve`.
3274 #>
3275 #> - Author: Metrum Research Group, LLC
3276 #> - Description: Generic indirect response PK/PD model
3277 #> - Covariates: Weight, female sex
3278 #> - Random effects: CL, VC, KA, KOUT
3279 #> - Error model: exponential
3280 #>
3281 #>
3282 #>
3283 #> $PLUGIN base
3284 #>
3285 #> $PARAM @annotated
3286 #> CL : 1 : Clearance (L/hr)
3287 #> VC : 20 : Volume of distribution (L)
3288 #> KA : 1.2 : Absorption rate constant (1/hr)
3289 #> F1 : 1.0 : Bioavailability fraction (.)
3290 #> WT : 70 : Weight (kg)
3291 #> SEX : 0 : Covariate female sex
3292 #> WTCL : 0.75 : Exponent WT on CL
3293 #> WTVCL : 1.00 : Exponent WT on VC
3294 #> SEXCL : 0.7 : Prop cov effect on CL
3295 #> SEXVC : 0.85 : Prop cov effect on VC
3296 #> KIN : 100 : Resp prod rate constant (1/hr)
3297 #> KOUT : 2 : Resp elim rate constant (1/hr)
3298 #> IC50 : 10 : Conc giving 50% max resp (ng/ml)
3299 #>
3300 #> $CMT @annotated
3301 #> GUT : Dosing compartment (mg)
3302 #> CENT : Central compartment (mg)
3303 #> RESP : Response (unitless)
3304 #>
3305 #> $OMEGA @labels ECL EVC EKA EKOUT
3306 #> 0 0 0 0
3307 #>
3308 #> $SIGMA @labels EXPO
3309 #> 0
3310 #>
3311 #> $SET end=120, delta=0.25
3312 #>
3313 #>
3314 #> $GLOBAL
3315 #> #define CP (CENT/VCi)
3316 #> #define INH (CP/(IC50+CP))
3317 #>
3318 #> typedef double localdouble;
3319 #>
3320 #> $MAIN
3321 #> F_GUT = F1;
3322 #>
3323 #> double CLi = exp(log(CL) + WTCL*log(WT/70) + log(SEXCL)*SEX + ECL);
```

```

3324 #> double Vci = exp(log(VC) + WTVC*log(WT/70) + log(SEXVC)*SEX + EVC);
3325 #> double Kai = exp(log(KA) + EKA);
3326 #> double KOUTi = exp(log(KOUT) + EKOUT);
3327 #>
3328 #> RESP_0 = KIN/KOUTi;
3329 #>
3330 #> $ODE
3331 #> dxd_t_GUT = -Kai*GUT;
3332 #> dxd_t_CENT = Kai*GUT - (CLi/Vci)*CENT;
3333 #> dxd_t_RESP = KIN*(1-INH) - KOUTi*RESP;
3334 #>
3335 #> $TABLE
3336 #> double DV = CP*exp(EXPO);
3337 #>
3338 #> $CAPTURE @annotated
3339 #> DV: Dependent variable (ng/ml)
3340 #> CP: Plasma concentration (ng/ml)
3341 #>
3342 #> [1] 0.0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1
3343 #> [13] 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3
3344 #> [25] 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5
3345 #> [37] 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7
3346 #> [49] 4.8 4.9 5.0 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9
3347 #> [61] 6.0 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 6.9 7.0 7.1
3348 #> [73] 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 8.0 8.1 8.2 8.3
3349 #> [85] 8.4 8.5 8.6 8.7 8.8 8.9 9.0 9.1 9.2 9.3 9.4 9.5
3350 #> [97] 9.6 9.7 9.8 9.9 10.0 10.1 10.2 10.3 10.4 10.5 10.6 10.7
3351 #> [109] 10.8 10.9 11.0 11.1 11.2 11.3 11.4 11.5 11.6 11.7 11.8 11.9
3352 #> [121] 12.0 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 13.0 13.1
3353 #> [133] 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 14.0 14.1 14.2 14.3
3354 #> [145] 14.4 14.5 14.6 14.7 14.8 14.9 15.0 15.1 15.2 15.3 15.4 15.5
3355 #> [157] 15.6 15.7 15.8 15.9 16.0 16.1 16.2 16.3 16.4 16.5 16.6 16.7
3356 #> [169] 16.8 16.9 17.0 17.1 17.2 17.3 17.4 17.5 17.6 17.7 17.8 17.9
3357 #> [181] 18.0 18.1 18.2 18.3 18.4 18.5 18.6 18.7 18.8 18.9 19.0 19.1
3358 #> [193] 19.2 19.3 19.4 19.5 19.6 19.7 19.8 19.9 20.0 20.1 20.2 20.3
3359 #> [205] 20.4 20.5 20.6 20.7 20.8 20.9 21.0 21.1 21.2 21.3 21.4 21.5
3360 #> [217] 21.6 21.7 21.8 21.9 22.0 22.1 22.2 22.3 22.4 22.5 22.6 22.7
3361 #> [229] 22.8 22.9 23.0 23.1 23.2 23.3 23.4 23.5 23.6 23.7 23.8 23.9
3362 #> [241] 24.0 24.1 24.2 24.3 24.4 24.5 24.6 24.7 24.8 24.9 25.0 25.1
3363 #> [253] 25.2 25.3 25.4 25.5 25.6 25.7 25.8 25.9 26.0 26.1 26.2 26.3
3364 #> [265] 26.4 26.5 26.6 26.7 26.8 26.9 27.0 27.1 27.2 27.3 27.4 27.5
3365 #> [277] 27.6 27.7 27.8 27.9 28.0 28.1 28.2 28.3 28.4 28.5 28.6 28.7
3366 #> [289] 28.8 28.9 29.0 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9
3367 #> [301] 30.0 30.1 30.2 30.3 30.4 30.5 30.6 30.7 30.8 30.9 31.0 31.1
3368 #> [313] 31.2 31.3 31.4 31.5 31.6 31.7 31.8 31.9 32.0 32.1 32.2 32.3
3369 #> [325] 32.4 32.5 32.6 32.7 32.8 32.9 33.0 33.1 33.2 33.3 33.4 33.5
3370 #> [337] 33.6 33.7 33.8 33.9 34.0 34.1 34.2 34.3 34.4 34.5 34.6 34.7
3371 #> [349] 34.8 34.9 35.0 35.1 35.2 35.3 35.4 35.5 35.6 35.7 35.8 35.9
3372 #> [361] 36.0 36.1 36.2 36.3 36.4 36.5 36.6 36.7 36.8 36.9 37.0 37.1
3373 #> [373] 37.2 37.3 37.4 37.5 37.6 37.7 37.8 37.9 38.0 38.1 38.2 38.3
3374 #> [385] 38.4 38.5 38.6 38.7 38.8 38.9 39.0 39.1 39.2 39.3 39.4 39.5
3375 #> [397] 39.6 39.7 39.8 39.9 40.0 40.1 40.2 40.3 40.4 40.5 40.6 40.7
3376 #> [409] 40.8 40.9 41.0 41.1 41.2 41.3 41.4 41.5 41.6 41.7 41.8 41.9
3377 #> [421] 42.0 42.1 42.2 42.3 42.4 42.5 42.6 42.7 42.8 42.9 43.0 43.1
3378 #> [433] 43.2 43.3 43.4 43.5 43.6 43.7 43.8 43.9 44.0 44.1 44.2 44.3
3379 #> [445] 44.4 44.5 44.6 44.7 44.8 44.9 45.0 45.1 45.2 45.3 45.4 45.5
3380 #> [457] 45.6 45.7 45.8 45.9 46.0 46.1 46.2 46.3 46.4 46.5 46.6 46.7
3381 #> [469] 46.8 46.9 47.0 47.1 47.2 47.3 47.4 47.5 47.6 47.7 47.8 47.9
3382 #> [481] 48.0 48.1 48.2 48.3 48.4 48.5 48.6 48.7 48.8 48.9 49.0 49.1
3383 #> [493] 49.2 49.3 49.4 49.5 49.6 49.7 49.8 49.9 50.0 50.1 50.2 50.3
3384 #> [505] 50.4 50.5 50.6 50.7 50.8 50.9 51.0 51.1 51.2 51.3 51.4 51.5
3385 #> [517] 51.6 51.7 51.8 51.9 52.0 52.1 52.2 52.3 52.4 52.5 52.6 52.7
3386 #> [529] 52.8 52.9 53.0 53.1 53.2 53.3 53.4 53.5 53.6 53.7 53.8 53.9
3387 #> [541] 54.0 54.1 54.2 54.3 54.4 54.5 54.6 54.7 54.8 54.9 55.0 55.1
3388 #> [553] 55.2 55.3 55.4 55.5 55.6 55.7 55.8 55.9 56.0 56.1 56.2 56.3
3389 #> [565] 56.4 56.5 56.6 56.7 56.8 56.9 57.0 57.1 57.2 57.3 57.4 57.5
3390 #> [577] 57.6 57.7 57.8 57.9 58.0 58.1 58.2 58.3 58.4 58.5 58.6 58.7
3391 #> [589] 58.8 58.9 59.0 59.1 59.2 59.3 59.4 59.5 59.6 59.7 59.8 59.9
3392 #> [601] 60.0 60.1 60.2 60.3 60.4 60.5 60.6 60.7 60.8 60.9 61.0 61.1
3393 #> [613] 61.2 61.3 61.4 61.5 61.6 61.7 61.8 61.9 62.0 62.1 62.2 62.3
3394 #> [625] 62.4 62.5 62.6 62.7 62.8 62.9 63.0 63.1 63.2 63.3 63.4 63.5
3395 #> [637] 63.6 63.7 63.8 63.9 64.0 64.1 64.2 64.3 64.4 64.5 64.6 64.7
3396 #> [649] 64.8 64.9 65.0 65.1 65.2 65.3 65.4 65.5 65.6 65.7 65.8 65.9
3397 #> [661] 66.0 66.1 66.2 66.3 66.4 66.5 66.6 66.7 66.8 66.9 67.0 67.1
3398 #> [673] 67.2 67.3 67.4 67.5 67.6 67.7 67.8 67.9 68.0 68.1 68.2 68.3
3399 #> [685] 68.4 68.5 68.6 68.7 68.8 68.9 69.0 69.1 69.2 69.3 69.4 69.5
3400 #> [697] 69.6 69.7 69.8 69.9 70.0 70.1 70.2 70.3 70.4 70.5 70.6 70.7

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3401 #> [709] 70.8 70.9 71.0 71.1 71.2 71.3 71.4 71.5 71.6 71.7 71.8 71.9
3402 #> [721] 72.0 72.1 72.2 72.3 72.4 72.5 72.6 72.7 72.8 72.9 73.0 73.1
3403 #> [733] 73.2 73.3 73.4 73.5 73.6 73.7 73.8 73.9 74.0 74.1 74.2 74.3
3404 #> [745] 74.4 74.5 74.6 74.7 74.8 74.9 75.0 75.1 75.2 75.3 75.4 75.5
3405 #> [757] 75.6 75.7 75.8 75.9 76.0 76.1 76.2 76.3 76.4 76.5 76.6 76.7
3406 #> [769] 76.8 76.9 77.0 77.1 77.2 77.3 77.4 77.5 77.6 77.7 77.8 77.9
3407 #> [781] 78.0 78.1 78.2 78.3 78.4 78.5 78.6 78.7 78.8 78.9 79.0 79.1
3408 #> [793] 79.2 79.3 79.4 79.5 79.6 79.7 79.8 79.9 80.0 80.1 80.2 80.3
3409 #> [805] 80.4 80.5 80.6 80.7 80.8 80.9 81.0 81.1 81.2 81.3 81.4 81.5
3410 #> [817] 81.6 81.7 81.8 81.9 82.0 82.1 82.2 82.3 82.4 82.5 82.6 82.7
3411 #> [829] 82.8 82.9 83.0 83.1 83.2 83.3 83.4 83.5 83.6 83.7 83.8 83.9
3412 #> [841] 84.0 84.1 84.2 84.3 84.4 84.5 84.6 84.7 84.8 84.9 85.0 85.1
3413 #> [853] 85.2 85.3 85.4 85.5 85.6 85.7 85.8 85.9 86.0 86.1 86.2 86.3
3414 #> [865] 86.4 86.5 86.6 86.7 86.8 86.9 87.0 87.1 87.2 87.3 87.4 87.5
3415 #> [877] 87.6 87.7 87.8 87.9 88.0 88.1 88.2 88.3 88.4 88.5 88.6 88.7
3416 #> [889] 88.8 88.9 89.0 89.1 89.2 89.3 89.4 89.5 89.6 89.7 89.8 89.9
3417 #> [901] 90.0 90.1 90.2 90.3 90.4 90.5 90.6 90.7 90.8 90.9 91.0 91.1
3418 #> [913] 91.2 91.3 91.4 91.5 91.6 91.7 91.8 91.9 92.0 92.1 92.2 92.3
3419 #> [925] 92.4 92.5 92.6 92.7 92.8 92.9 93.0 93.1 93.2 93.3 93.4 93.5
3420 #> [937] 93.6 93.7 93.8 93.9 94.0 94.1 94.2 94.3 94.4 94.5 94.6 94.7
3421 #> [949] 94.8 94.9 95.0 95.1 95.2 95.3 95.4 95.5 95.6 95.7 95.8 95.9
3422 #> [961] 96.0 96.1 96.2 96.3 96.4 96.5 96.6 96.7 96.8 96.9 97.0 97.1
3423 #> [973] 97.2 97.3 97.4 97.5 97.6 97.7 97.8 97.9 98.0 98.1 98.2 98.3
3424 #> [985] 98.4 98.5 98.6 98.7 98.8 98.9 99.0 99.1 99.2 99.3 99.4 99.5
3425 #> [997] 99.6 99.7 99.8 99.9 100.0 100.1 100.2 100.3 100.4 100.5 100.6 100.7
3426 #> [1009] 100.8 100.9 101.0 101.1 101.2 101.3 101.4 101.5 101.6 101.7 101.8 101.9
3427 #> [1021] 102.0 102.1 102.2 102.3 102.4 102.5 102.6 102.7 102.8 102.9 103.0 103.1
3428 #> [1033] 103.2 103.3 103.4 103.5 103.6 103.7 103.8 103.9 104.0 104.1 104.2 104.3
3429 #> [1045] 104.4 104.5 104.6 104.7 104.8 104.9 105.0 105.1 105.2 105.3 105.4 105.5
3430 #> [1057] 105.6 105.7 105.8 105.9 106.0 106.1 106.2 106.3 106.4 106.5 106.6 106.7
3431 #> [1069] 106.8 106.9 107.0 107.1 107.2 107.3 107.4 107.5 107.6 107.7 107.8 107.9
3432 #> [1081] 108.0 108.1 108.2 108.3 108.4 108.5 108.6 108.7 108.8 108.9 109.0 109.1
3433 #> [1093] 109.2 109.3 109.4 109.5 109.6 109.7 109.8 109.9 110.0 110.1 110.2 110.3
3434 #> [1105] 110.4 110.5 110.6 110.7 110.8 110.9 111.0 111.1 111.2 111.3 111.4 111.5
3435 #> [1117] 111.6 111.7 111.8 111.9 112.0 112.1 112.2 112.3 112.4 112.5 112.6 112.7
3436 #> [1129] 112.8 112.9 113.0 113.1 113.2 113.3 113.4 113.5 113.6 113.7 113.8 113.9
3437 #> [1141] 114.0 114.1 114.2 114.3 114.4 114.5 114.6 114.7 114.8 114.9 115.0 115.1
3438 #> [1153] 115.2 115.3 115.4 115.5 115.6 115.7 115.8 115.9 116.0 116.1 116.2 116.3
3439 #> [1165] 116.4 116.5 116.6 116.7 116.8 116.9 117.0 117.1 117.2 117.3 117.4 117.5
3440 #> [1177] 117.6 117.7 117.8 117.9 118.0 118.1 118.2 118.3 118.4 118.5 118.6 118.7
3441 #> [1189] 118.8 118.9 119.0 119.1 119.2 119.3 119.4 119.5 119.6 119.7 119.8 119.9
3442 #> [1201] 120.0
3443 #> Model parameters (N=13):
3444 #> name value . name value
3445 #> CL 0.5 | SEXCL 0.7
3446 #> F1 1 | SEXVC 0.85
3447 #> IC50 10 | VC 20
3448 #> KA 1.2 | WT 70
3449 #> KIN 100 | WTCL 0.75
3450 #> KOUT 2 | WTV 1
3451 #> SEX 0 | . .
3452 #> Model initial conditions (N=3):
3453 #> name value . name value
3454 #> CENT (2) 0 | RESP (3) 50
3455 #> GUT (1) 0 | . . . .
3456 #> Model: housemodel.cpp
3457 #> Dim: 1682 x 7
3458 #> Time: 0 to 168
3459 #> ID: 1
3460 #> ID time GUT CENT RESP DV CP
3461 #> [1,] 1 0.0 0.0 0.0 50.00 0.000 0.000
3462 #> [2,] 1 0.0 1000.0 0.0 50.00 0.000 0.000
3463 #> [3,] 1 0.1 886.9 112.9 48.04 5.647 5.647
3464 #> [4,] 1 0.2 786.6 212.8 44.32 10.641 10.641
3465 #> [5,] 1 0.3 697.7 301.1 40.24 15.056 15.056
3466 #> [6,] 1 0.4 618.8 379.2 36.30 18.958 18.958
3467 #> [7,] 1 0.5 548.8 448.1 32.67 22.405 22.405
3468 #> [8,] 1 0.6 486.8 509.0 29.41 25.448 25.448
3469 #> Model: housemodel
3470 #> ID time GUT CENT RESP DV CP
3471 #> 1 1 0.0 0.0000 0.0000 50.00000 0.000000 0.000000
3472 #> 2 1 0.0 1000.0000 0.0000 50.00000 0.000000 0.000000
3473 #> 3 1 0.1 886.9204 112.9355 48.03655 5.646775 5.646775
3474 #> 4 1 0.2 786.6279 212.8183 44.31899 10.640917 10.640917
3475 #> 5 1 0.3 697.6763 301.1252 40.24379 15.056258 15.056258
3476 #> 6 1 0.4 618.7834 379.1657 36.29753 18.958286 18.958286
3477 #> Model: housemodel

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3478 #> ID time GUT CENT RESP DV CP
3479 #> 1677 1 167.5 1.218836e-22 671.4739 11.36504 33.57369 33.57369
3480 #> 1678 1 167.6 1.077787e-22 669.7973 11.38701 33.48987 33.48987
3481 #> 1679 1 167.7 9.538413e-23 668.1249 11.40901 33.40625 33.40625
3482 #> 1680 1 167.8 8.441714e-23 666.4567 11.43104 33.32283 33.32283
3483 #> 1681 1 167.9 7.466548e-23 664.7926 11.45310 33.23963 33.23963
3484 #> 1682 1 168.0 6.610140e-23 663.1327 11.47519 33.15664 33.15664
3485 #> [1] 1682 7
3486 #> 'data.frame': 1 obs. of 7 variables:
3487 #> $ ID : num 1
3488 #> $ time: num 72
3489 #> $ GUT : num 1000
3490 #> $ CENT: num 1037
3491 #> $ RESP: num 8
3492 #> $ DV : num 51.8
3493 #> $ CP : num 51.8
3494 #> Model: housemodel
3495 #> ID time evid amt cmt GUT CENT RESP DV CP
3496 #> 1 1 0.0 0 0 0 0.0000 0.0000 50.00000 0.000000 0.000000
3497 #> 2 1 0.0 1 1000 1 1000.0000 0.0000 50.00000 0.000000 0.000000
3498 #> 3 1 0.1 0 0 0 886.9204 112.9355 48.03655 5.646775 5.646775
3499 #> 4 1 0.2 0 0 0 786.6279 212.8183 44.31899 10.640917 10.640917
3500 #> 5 1 0.3 0 0 0 697.6763 301.1252 40.24379 15.056258 15.056258
3501 #> 6 1 0.4 0 0 0 618.7834 379.1657 36.29753 18.958286 18.958286
3502 #> Events:
3503 #> time cmt amt rate evid ii addl
3504 #> 1 0 2 500 10 1 0 0
3505 #> 2 54 1 100 0 1 8 10
3506 #> ID amt cmt time addl ii rate evid
3507 #> 1 1 1000 1 0 3 24 0 1
3508 #> 2 2 1000 2 0 0 0 20 1
3509 #> 3 3 1000 1 0 0 0 0 1
3510 #> 4 3 500 1 24 0 0 0 1
3511 #> 5 3 500 1 48 0 0 0 1
3512 #> 6 3 1000 1 72 0 0 0 1
3513 #> 7 4 2000 2 0 2 48 100 1
3514 #> 8 5 1000 1 0 0 0 0 1
3515 #> 9 5 5000 1 24 0 0 60 1
3516 #> ID CL VC KA KOUT IC50 F00
3517 #> 1 1 1.050 47.80 0.8390 2.450 1.280 4
3518 #> 2 2 0.730 30.10 0.0684 2.510 1.840 6
3519 #> 3 3 2.820 23.80 0.1180 3.880 2.480 5
3520 #> 4 4 0.552 26.30 0.4950 1.180 0.977 2
3521 #> 5 5 0.483 4.36 0.1220 2.350 0.483 10
3522 #> 6 6 3.620 39.80 0.1260 1.890 4.240 1
3523 #> 7 7 0.395 12.10 0.0317 1.250 0.802 8
3524 #> 8 8 1.440 31.20 0.0931 4.030 1.310 7
3525 #> 9 9 2.570 18.20 0.0570 0.862 1.950 3
3526 #> 10 10 2.000 6.51 0.1540 3.220 0.699 9
3527 #> Compiling irm1 ... done.
3528 #> ----- mrgsolve model object (unix) -----
3529 #> Project: /home/docker/R/mrgsolve/models
3530 #> source: irm1.cpp
3531 #> shared object: irm1-so-11ca67a66162
3532 #> compile date:
3533 #> Time: start: 0 end: 24 delta: 1
3534 #> > add:
3535 #> > tscale: 1
3536 #> Compartments: EV1 CENT PERIPH RESP EV2 [5]
3537 #> Parameters: CL VC Q VP KA1 KA2
3538 #> > KIN KOUT IC50 IMAX n VMAX
3539 #> > KM [13]
3540 #> Omega: 0x0
3541 #> Sigma: 0x0
3542 #> Solver: atol: 1e-08 rtol: 1e-08
3543 #> > maxsteps: 2000 hmin: 0 hmax: 0
3544 #> Model: irm1.cpp
3545 #> Dim: 26 x 8
3546 #> Time: 0 to 24
3547 #> ID: 1
3548 #> ID time EV1 CENT PERIPH RESP EV2 CP
3549 #> [1,] 1 0 0.0000 0.0 0.000 5.0000 0 0.000
3550 #> [2,] 1 0 300.0000 0.0 0.000 5.0000 0 0.000
3551 #> [3,] 1 1 110.3638 174.6 9.758 1.8054 0 8.732
3552 #> [4,] 1 2 40.6006 217.7 26.371 0.9420 0 10.884
3553 #> [5,] 1 3 14.9361 217.3 41.468 0.7950 0 10.864
3554 #> [6,] 1 4 5.4947 204.5 53.085 0.8014 0 10.227

```

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3555 #> [7,] 1 5 2.0214 189.9 61.313 0.8448 0 9.496
3556 #> [8,] 1 6 0.7436 176.6 66.774 0.8969 0 8.829
3557 #> $...
3558 #> [,1]
3559 #> 1: 1
3560 #> $...
3561 #> [,1]
3562 #> 1: 1
3563 #> $...
3564 #> [,1] [,2] [,3]
3565 #> 2: 1 0 0
3566 #> 3: 0 2 0
3567 #> 4: 0 0 3
3568 #> $...
3569 #> [,1] [,2]
3570 #> 5: 0.100 0.002
3571 #> 6: 0.002 0.500
3572 #> $A
3573 #> [,1]
3574 #> 1: 1
3575 #> $B
3576 #> [,1] [,2] [,3]
3577 #> 2: 1 0 0
3578 #> 3: 0 2 0
3579 #> 4: 0 0 3
3580 #> $C
3581 #> [,1] [,2]
3582 #> 5: 0.100 0.002
3583 #> 6: 0.002 0.500
3584 #> $...
3585 #> [,1] [,2] [,3] [,4]
3586 #> ECL: 0.1 0.0 0.0 0.0
3587 #> EVC: 0.0 0.2 0.0 0.0
3588 #> EKA: 0.0 0.0 0.3 0.0
3589 #> EKOUT: 0.0 0.0 0.0 0.4
3590 #> [,1] [,2] [,3] [,4]
3591 #> 1: 0.1 0.0 0.0 0.0
3592 #> 2: 0.0 0.2 0.0 0.0
3593 #> 3: 0.0 0.0 0.3 0.0
3594 #> 4: 0.0 0.0 0.0 0.4
3595 #> Model parameters (N=13):
3596 #> name value . name value
3597 #> CL 1 | SEXCL 0.7
3598 #> F1 1 | SEXVC 0.85
3599 #> IC50 10 | VC 20
3600 #> KA 1.2 | WT 70
3601 #> KIN 100 | WTCL 0.75
3602 #> KOUT 2 | WTVC 1
3603 #> SEX 0 | . .
3604 #> Model parameters (N=13):
3605 #> name value . name value
3606 #> CL 1 | F1 1
3607 #> [1] "parameter_list"
3608 #> attr("package")
3609 #> [1] "mrgsolve"
3610 #> [1] 1.2
3611 #> $CL
3612 #> [1] 1
3613 #> $VC
3614 #> [1] 20
3615 #> $KA
3616 #> [1] 1.2
3617 #> $F1
3618 #> [1] 1
3619 #> $WT
3620 #> [1] 70
3621 #> $SEX
3622 #> [1] 0
3623 #> $WTCL
3624 #> [1] 0.75
3625 #> $WTVC
3626 #> [1] 1
3627 #> $SEXCL
3628 #> [1] 0.7
3629 #> $SEXVC
3630 #> [1] 0.85
3631 #> $KIN

```

```
3632 #> [1] 100
3633 #> $KOUT
3634 #> [1] 2
3635 #> $IC50
3636 #> [1] 10
3637 #> CL VC KA F1 WT SEX WTCL WTVCL SEXCL SEXVC KIN KOUT IC50
3638 #> 1 1 20 1.2 1 70 0 0.75 1 0.7 0.85 100 2 10
3639 #> ID Wt Dose Time dv
3640 #> 1 1 79.6 4.02 0.00 0.74
3641 #> 2 1 79.6 4.02 0.25 2.84
3642 #> 3 1 79.6 4.02 0.57 6.57
3643 #> 4 1 79.6 4.02 1.12 10.50
3644 #> 5 1 79.6 4.02 2.02 9.66
3645 #> 6 1 79.6 4.02 3.82 8.58
3646 #> 7 1 79.6 4.02 5.10 8.36
3647 #> 8 1 79.6 4.02 7.03 7.47
3648 #> 9 1 79.6 4.02 9.05 6.89
3649 #> 10 1 79.6 4.02 12.12 5.94
3650 #> 11 1 79.6 4.02 24.37 3.28
3651 #> 12 2 72.4 4.40 0.00 0.00
3652 #> 13 2 72.4 4.40 0.27 1.72
3653 #> 14 2 72.4 4.40 0.52 7.91
3654 #> 15 2 72.4 4.40 1.00 8.31
3655 #> 16 2 72.4 4.40 1.92 8.33
3656 #> 17 2 72.4 4.40 3.50 6.85
3657 #> 18 2 72.4 4.40 5.02 6.08
3658 #> 19 2 72.4 4.40 7.03 5.40
3659 #> 20 2 72.4 4.40 9.00 4.55
3660 #> 21 2 72.4 4.40 12.00 3.01
3661 #> 22 2 72.4 4.40 24.30 0.90
3662 #> 23 3 70.5 4.53 0.00 0.00
3663 #> 24 3 70.5 4.53 0.27 4.40
3664 #> 25 3 70.5 4.53 0.58 6.90
3665 #> 26 3 70.5 4.53 1.02 8.20
3666 #> 27 3 70.5 4.53 2.02 7.80
3667 #> 28 3 70.5 4.53 3.62 7.50
3668 #> 29 3 70.5 4.53 5.08 6.20
3669 #> 30 3 70.5 4.53 7.07 5.30
3670 #> 31 3 70.5 4.53 9.00 4.90
3671 #> 32 3 70.5 4.53 12.15 3.70
3672 #> 33 3 70.5 4.53 24.17 1.05
3673 #> 34 4 72.7 4.40 0.00 0.00
3674 #> 35 4 72.7 4.40 0.35 1.89
3675 #> 36 4 72.7 4.40 0.60 4.60
3676 #> 37 4 72.7 4.40 1.07 8.60
3677 #> 38 4 72.7 4.40 2.13 8.38
3678 #> 39 4 72.7 4.40 3.50 7.54
3679 #> 40 4 72.7 4.40 5.02 6.88
3680 #> 41 4 72.7 4.40 7.02 5.78
3681 #> 42 4 72.7 4.40 9.02 5.33
3682 #> 43 4 72.7 4.40 11.98 4.19
3683 #> 44 4 72.7 4.40 24.65 1.15
3684 #> 45 5 54.6 5.86 0.00 0.00
3685 #> 46 5 54.6 5.86 0.30 2.02
3686 #> 47 5 54.6 5.86 0.52 5.63
3687 #> 48 5 54.6 5.86 1.00 11.40
3688 #> 49 5 54.6 5.86 2.02 9.33
3689 #> 50 5 54.6 5.86 3.50 8.74
3690 #> 51 5 54.6 5.86 5.02 7.56
3691 #> 52 5 54.6 5.86 7.02 7.09
3692 #> 53 5 54.6 5.86 9.10 5.90
3693 #> 54 5 54.6 5.86 12.00 4.37
3694 #> 55 5 54.6 5.86 24.35 1.57
3695 #> 56 6 80.0 4.00 0.00 0.00
3696 #> 57 6 80.0 4.00 0.27 1.29
3697 #> 58 6 80.0 4.00 0.58 3.08
3698 #> 59 6 80.0 4.00 1.15 6.44
3699 #> 60 6 80.0 4.00 2.03 6.32
3700 #> 61 6 80.0 4.00 3.57 5.53
3701 #> 62 6 80.0 4.00 5.00 4.94
3702 #> 63 6 80.0 4.00 7.00 4.02
3703 #> 64 6 80.0 4.00 9.22 3.46
3704 #> 65 6 80.0 4.00 12.10 2.78
3705 #> 66 6 80.0 4.00 23.85 0.92
3706 #> 67 7 64.6 4.95 0.00 0.15
3707 #> 68 7 64.6 4.95 0.25 0.85
3708 #> 69 7 64.6 4.95 0.50 2.35
```