Package compilation

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Compilation

Moved all files to a directory npde

- added a DESCRIPTION file
- added a CHANGES file
- for compilation:
  - removed NAMESPACE
  - removed man pages
- Compilation steps from Build menu
  - Document => create NAMESPACE, DESCRIPTION (update collate directive), create man pages
  - Check => update documentation, create NAMESPACE
- structure
  - **tests** : removed all other folders and files except testthat from the package otherwise warnings about RDS files
  - **data** : removed remifentanil example from data folder
- **roxygen** documentation
  - warnings for ggplot (no visible global function definition)
  - added import command for pnorm (found in distribution plot) and median (found nowhere, so suspect it's the name median used in the ggplot plots, but added it all the same)
- **package size**: still 5.9 Mb so much too large for CRAN
  - the 3 simulated data files for warfarin and viral load data are all around 5Mb, consider making them available only on bookdown/website

```
Undefined global functions or variables:
   .x X2.5. X50. X97.5. Y0.025 Y0.025.1 Y0.5 Y0.5.1 Y0.975 Y0.975.1 aes
   annotation_logticks category coord_cartesian coord_flip element_blank
   element_line element_rect element_text expand_limits facet_wrap
   geom_bar geom_boxplot geom_crossbar geom_line geom_point geom_ribbon
   ggplot ggtitle grid.arrange group grp guides labs lower name obs.inf
   obs.median obs.sup pinf.lower pinf.median pinf.upper pmid.lower
   pmid.median pmid.upper psup.lower psup.median psup.upper
   scale_fill_manual scale_x_continuous scale_x_log10 scale_y_continuous
   scale_y_log10 theme upper value x x1 x2 x_area_0.25 x_area_0.5
   x_area_0.975 xcent xlab y y1 y2 y_area_0.25 y_area_0.5 y_area_0.975
   ylab
```

Apres correction, la compilation du package passe sans erreurs et avec 2 notes restantes.

- **notes**
  - package size too large (recommended size less than 5Mb): reduce nb of simulations for warfarin ?
  - ggplot variables (rien a faire pour ça)

- **warnings** corriges
  - jeux de donnees non documentes: removed remifentanil, added virload documentation (used to be a specific man page, reintegrated them into roxygen format in npde.R like warfarin)
  - duplicated alias: fixed !
- Warnings in first compilation (solved)

```
W  checking Rd metadata ...
   Rd files with duplicated alias 'aux.npdeplot.computepi':
     ‘npde.plot.default.Rd’ ‘npde.plot.scatterplot.Rd’
   Rd files with duplicated alias 'compute.bands':
     ‘npde.plot.default.Rd’ ‘npde.plot.scatterplot.Rd’
   Rd files with duplicated alias 'compute.bands.true':
     ‘npde.plot.default.Rd’ ‘npde.plot.scatterplot.Rd’
   Rd files with duplicated alias 'npde':
     ‘npde-package.Rd’ ‘npde.Rd’
  checking Rd line widths ...
  checking Rd cross-references ...
W  checking for missing documentation entries (346ms)
   Undocumented code objects:
     ‘remifent’ ‘simremifent’ ‘simremifent_base’ ‘simvirload’ ‘virload’
     ‘virload20’ ‘virload50’ ‘virloadMDV20’
   Undocumented data sets:
     ‘remifent’ ‘simremifent’ ‘simremifent_base’ ‘simvirload’ ‘virload’
     ‘virload20’ ‘virload50’ ‘virloadMDV20’
   All user-level objects in a package should have documentation entries.
   See chapter ‘Writing R documentation files’ in the ‘Writing R
   Extensions’ manual.
```

Bugs

plot.NpdeRes (dans plotNpde-methods.R)

- **Romain TODO**: la fonction devrait prendre un objet NpdeRes et pas un objet NpdeObject (NpdeRes n'a pas d'element data, c'est juste le slot res d'un element NpdeObject !!!)
  - il faut lui donner des defauts pour xlab, ylab (et la possiblite de passer outre en passant des arguments en ...)
  - normalement il doit y avoir l'equivalent de xobs dans le dataframe res de l'objet
  - pas sure qu'on ait not.miss mais dans ce cas le reconstruire (a tester +++)
  - il n'y a pas de liste plot.opt donc prendre des defauts dans set.default.options()
- faire un testthat pour verifier que cette fonction marche par elle-meme (use testthat for class to generate an object npdeData and plot it)

plot.NpdeData (dans plotNpde-methods.R)

- **Romain TODO**: faire un testthat pour veeifier que la fonction et les options passent (use testthat for class to generate an object npdeData and plot it)