

# fitDTVARMxID: Internal Tests

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## Tests

```
#> test-fitDTVARMxID-alpha-fixed-false-default
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMxID-alpha-fixed-false
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMxID-alpha-fixed-true-default
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVARMxID-beta-fixed-false-default
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
```

```

#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMxID-beta-fixed-false

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMxID-beta-fixed-true-default

#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVARMxID-beta-fixed-true

#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVARMxID-fitdtvarmxid-center-false-alpha-fixed
#> CRAN: tests skipped.
#> test-fitDTVARMxID-fitdtvarmxid-center-false
#> CRAN: tests skipped.
#> test-fitDTVARMxID-fitdtvarmxid-center-true-mu-eta
#> CRAN: tests skipped.
#> test-fitDTVARMxID-fitdtvarmxid-center-true
#> CRAN: tests skipped.
#> test-fitDTVARMxID-ldl

#> Test passed with 3 successes.
#> Test passed with 1 success.

#> test-fitDTVARMxID-mu-eta-fixed-false-default

```

```

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVAR $\mathbf{x}$ ID-mu-eta-fixed-false

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVAR $\mathbf{x}$ ID-mu-eta-fixed-true-default

#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVAR $\mathbf{x}$ ID-mu0-fixed-false-default

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVAR $\mathbf{x}$ ID-mu0-fixed-false

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVAR $\mathbf{x}$ ID-mu0-fixed-true-default

```

```

#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVARMAID-mu0-func-true

#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMAID-nu-fixed-false-default

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMAID-nu-fixed-false

#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.
#> Test passed with 2 successes.

#> test-fitDTVARMAID-psi-diag-false-default

#> Test passed with 7 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.

#> test-fitDTVARMAID-psi-diag-false

#> Test passed with 7 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.

```

```

#> test-fitDTVARMxID-psi-diag-true-default

#> Test passed with 4 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.

#> test-fitDTVARMxID-sigma0-fixed-false-diag-false

#> Test passed with 7 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.
#> Test passed with 6 successes.

#> test-fitDTVARMxID-sigma0-fixed-false-diag-true-default

#> Test passed with 4 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.

#> test-fitDTVARMxID-sigma0-fixed-true-diag-false-default

#> Test passed with 5 successes.
#> Test passed with 5 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.

#> test-fitDTVARMxID-sigma0-fixed-true-diag-true-default

#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVARMxID-sigma0-func-true

#> Test passed with 1 success.
#> Test passed with 1 success.

```

```

#> test-fitDTVARmID-softplus

#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 2 successes.

#> test-fitDTVARmID-theta-default

#> Test passed with 1 success.
#> Test passed with 1 success.
#> Test passed with 1 success.

#> test-fitDTVARmID-theta-fixed-false-default

#> Test passed with 4 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.

#> test-fitDTVARmID-theta-fixed-false

#> Test passed with 4 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> Test passed with 3 successes.
#> [[1]]
#> [[1]] [[1]]
#> [[1]] [[1]]$value
#> [[1]] [[1]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]] [[1]]$visible
#> [1] TRUE
#>
#>
#> [[1]] [[2]]
#> [[1]] [[2]]$value
#> [[1]] [[2]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]] [[2]]$visible
#> [1] TRUE

```

```
#>
#>
#> [[1]][[3]]
#> [[1]][[3]]$value
#> [[1]][[3]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[3]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[4]]
#> [[1]][[4]]$value
#> [[1]][[4]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[4]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[5]]
#> [[1]][[5]]$value
#> [[1]][[5]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[5]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[6]]
#> [[1]][[6]]$value
#> [[1]][[6]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[6]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[7]]
#> [[1]][[7]]$value
#> [[1]][[7]]$value[[1]]
#> [1] TRUE
```

```

#>
#>
#> [[1]][[7]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[8]]
#> [[1]][[8]]$value
#> [[1]][[8]]$value[[1]]
#> NULL
#>
#>
#> [[1]][[8]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[9]]
#> [[1]][[9]]$value
#> [[1]][[9]]$value[[1]]
#> NULL
#>
#>
#> [[1]][[9]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[10]]
#> [[1]][[10]]$value
#> [[1]][[10]]$value[[1]]
#> NULL
#>
#>
#> [[1]][[10]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[11]]
#> [[1]][[11]]$value
#> [[1]][[11]]$value[[1]]
#> NULL
#>
#>
#> [[1]][[11]]$visible
#> [1] TRUE
#>
#>
#>

```



```

#> [[1]][[12]]
#> [[1]][[12]]$value
#> [[1]][[12]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[12]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[13]]
#> [[1]][[13]]$value
#> [[1]][[13]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[13]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[14]]
#> [[1]][[14]]$value
#> [[1]][[14]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[14]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[15]]
#> [[1]][[15]]$value
#> [[1]][[15]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[15]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[16]]
#> [[1]][[16]]$value
#> [[1]][[16]]$value[[1]]
#> [1] TRUE
#>

```

```

#>
#> [[1]][[16]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[17]]
#> [[1]][[17]]$value
#> [[1]][[17]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[17]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[18]]
#> [[1]][[18]]$value
#> [[1]][[18]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[18]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[19]]
#> [[1]][[19]]$value
#> [[1]][[19]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[19]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[20]]
#> [[1]][[20]]$value
#> [[1]][[20]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[20]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[21]]

```

```

#> [[1]][[21]]$value
#> [[1]][[21]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[21]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[22]]
#> [[1]][[22]]$value
#> [[1]][[22]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[22]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[23]]
#> [[1]][[23]]$value
#> [[1]][[23]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[23]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[24]]
#> [[1]][[24]]$value
#> [[1]][[24]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[24]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[25]]
#> [[1]][[25]]$value
#> [[1]][[25]]$value[[1]]
#> [1] TRUE
#>
#>
#>

```

```

#> [[1]][[25]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[26]]
#> [[1]][[26]]$value
#> [[1]][[26]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[26]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[27]]
#> [[1]][[27]]$value
#> [[1]][[27]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[27]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[28]]
#> [[1]][[28]]$value
#> [[1]][[28]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[28]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[29]]
#> [[1]][[29]]$value
#> [[1]][[29]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[29]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[30]]

```

```
#> [[1]][[30]]$value
#> [[1]][[30]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[30]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[31]]
#> [[1]][[31]]$value
#> [[1]][[31]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[31]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[32]]
#> [[1]][[32]]$value
#> [[1]][[32]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[32]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[33]]
#> [[1]][[33]]$value
#> [[1]][[33]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[33]]$visible
#> [1] TRUE
#>
#>
#> [[1]][[34]]
#> NULL
```

## Environment

```
ls()  
#> [1] "root"
```

## Class

```
#> [[1]]  
#> [1] "root_criterion"
```

## References

R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. <https://www.R-project.org/>