fitDTVARMx: Internal Tests

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Tests

```
#> test
#> Running DTVAR with 12 parameters
#>
#> Beginning initial fit attempt
#> Running DTVAR with 12 parameters
#>
#>  Lowest minimum so far:   1526.00731414886
#>
#> Solution found
```

```
#>
#>  Solution found!   Final fit=1526.0073 (started at 1557.0026)  (1 attempt(s):  1
valid, 0 errors)
#>  Start values from best fit:
#> 0.681893265716128,0.505053274890204,0.00510867946731734,-0.00880537044501161,0.602624580422842,0.
#> Running DTVAR with 12 parameters
#>
#> Beginning initial fit attempt
#> Running DTVAR with 12 parameters
#>
#>  Lowest minimum so far:   1683.45326767594
#>
#> Solution found
```

```
#>
#>  Solution found!   Final fit=1683.4533 (started at 1722.7204)  (1 attempt(s):  1
valid, 0 errors)
#>  Start values from best fit:
#> 0.714804676374992,0.446703804639109,-0.137212072446384,-0.00286225478262943,0.597355821730222,0.5
#> Running DTVAR with 12 parameters
#>
#> Beginning initial fit attempt
#> Running DTVAR with 12 parameters
```

```
#>
#>  Lowest minimum so far:   1605.51702315236
#>
#> Solution found
```

```
#>
#>  Solution found!   Final fit=1605.517 (started at 1635.9302)  (1 attempt(s):  1
valid, 0 errors)
#>  Start values from best fit:
#> 0.718078154356792,0.52839255628165,-0.104829069626879,0.00732747689871291,0.57430031210843,0.494
#> Running DTVAR with 12 parameters
#>
#> Beginning initial fit attempt
#> Running DTVAR with 12 parameters
#>
#>  Lowest minimum so far:   1540.5851271712
#>
#> Solution found
```

```
#>
#>  Solution found!   Final fit=1540.5851 (started at 1560.1578)  (1 attempt(s):  1
valid, 0 errors)
#>  Start values from best fit:
#> 0.704947419473423,0.554348588558669,-0.0873190767870889,0.024687071043122,0.599422931825699,0.409
#> Running DTVAR with 12 parameters
#>
#> Beginning initial fit attempt
#> Running DTVAR with 12 parameters
#>
#>  Lowest minimum so far:   1544.6953978122
#>
#> Solution found
```

```
#>
#>  Solution found!   Final fit=1544.6954 (started at 1589.4452)  (1 attempt(s):  1
valid, 0 errors)
#>  Start values from best fit:
#> 0.688879065105914,0.416188710841178,-0.205800583956037,-0.00462531692461861,0.686315176835109,0.4
#>
#> Means of the estimated paramaters per individual.
#>      beta_11      beta_21      beta_31      beta_12      beta_22      beta_32
#>  0.701720516  0.490137387 -0.106010425  0.003144321  0.612003765  0.435809011
#>      beta_13      beta_23      beta_33       psi_11       psi_22       psi_33
#> -0.014208226  0.006029652  0.476983840  0.099522288  0.099143081  0.098132333
#> Test passed
```

```
#> [[1]]
#> [[1]][[1]]
#> [[1]][[1]]$value
#> [[1]][[1]]$value[[1]]
#> [1] TRUE
#>
#>
#> [[1]][[1]]$visible
#> [1] TRUE
```

Environment

```
ls()

#> [1] "root"
```

Class

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

References

R Core Team. (2024). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. Vienna, Austria. https://www.R-project.org/