
```
julia> infer(res)
Calculating: variance-covariance matrix
. Done.
FittedPumasModelInference

Successful minimization:                      true

Likelihood approximation:           Pumas.FOCEI
Objective function value:                8084.54
Total number of observation records:        1210
Number of active observation records:       1210
Number of subjects:                           10

-----------------------------------------------------
       Estimate       RSE            95.0% C.I.
-----------------------------------------------------
tvcl    4.8809      12.932  [ 3.6438   ;   6.1181  ]
tvv    89.739        7.3011 [76.898    ; 102.58    ]
pmoncl -0.73558    -7.9587 [-0.85032  ;  -0.62084 ]
Ω₁,₁    0.10822    26.546  [ 0.051913 ;   0.16452 ]
Ω₂,₂    0.051508   41.275  [ 0.0098391;   0.093176]
σ_prop  0.042149    3.3957 [ 0.039344 ;   0.044954]
-----------------------------------------------------
```

https://docs.pumas.ai/dev/analysis/diagnostics/#The-infer-Function-1

Predictions: The difference between the observations and the model expectation

- Population - EPRED, PRED, CPRED, CPREDI
- Individual - IPRED, CIPRED, CIPREDI, EIPRED

Residuals:

- Population - NPDE, WRES, CWRES, CWRESI
- Individual - IWRES, ICWRES, ICWRESI, EIWRES

ɳshrinkage, ɛshrinkage, AIC, BIC

```
julia> resout = DataFrame(inspect(res))
julia> first(resout, 6)
6×13 DataFrame
```

Row	id	time	isPM	wt	pred	ipred	pred_approx	wres	iwres	wres_approx	ebe_1	ebe_2	ebes_approx
	String	Float64	Int64	Int64	Float64	Float64	Pumas.FOCEI	Float64	Float64	Pumas.FOCEI	Float64	Float64	Pumas.FOCEI
1	1	0.0	0	68	1326.95	1290.5	FOCEI()	0.0141867	0.164838	FOCEI()	-0.273173	0.0282462	FOCEI()
2	1	1.0	0	68	1255.42	1236.44	FOCEI()	0.247655	0.414528	FOCEI()	-0.273173	0.0282462	FOCEI()
3	1	2.0	0	68	1187.56	1184.65	FOCEI()	-1.44113	-1.53356	FOCEI()	-0.273173	0.0282462	FOCEI()
4	1	3.0	0	68	1123.17	1135.03	FOCEI()	-0.66784	-1.10145	FOCEI()	-0.273173	0.0282462	FOCEI()
5	1	4.0	0	68	1062.1	1087.49	FOCEI()	-0.67988	-1.29264	FOCEI()	-0.273173	0.0282462	FOCEI()
6	1	5.0	0	68	1004.17	1041.94	FOCEI()	1.14917	0.521982	FOCEI()	-0.273173	0.0282462	FOCEI()

https://docs.pumas.ai/dev/analysis/diagnostics/#Model-Diagnostic-Functions-1