[LONGITUDINAL]

input = {V1, V2, Cl, Q, Ktr, Mtt, ka}

PK:

; Transformacion de parametros

V = V1

k = Cl/V1

k12 = Q/V1

k21 = Q/V2

; Definicion del modelo PK

compartment(cmt=1, volume=V, concentration=Cc)

; compartment(cmt=2, volume=V2, concentration = Cp)

absorption(adm=1, cmt=1, Ktr, Mtt, ka)

peripheral(k12, k21)

elimination(cmt=1, k)

EQUATION:

odeType = stiff

; Conversion a ng/mL

;y1 = Cc \* 1000

OUTPUT:

output = Cc

[INDIVIDUAL]

input = {V1\_pop, omega\_V1, V2\_pop, omega\_V2,

Cl\_pop, omega\_Cl, Q\_pop, omega\_Q,

Mtt\_pop, omega\_Mtt}

DEFINITION:

V1 = {distribution = lognormal, reference = V1\_pop, sd = omega\_V1}

V2 = {distribution = lognormal, reference = V2\_pop, sd = omega\_V2}

Cl = {distribution = lognormal, reference = Cl\_pop, sd = omega\_Cl}

Q = {distribution = lognormal, reference = Q\_pop, sd = omega\_Q}

Mtt = {distribution = lognormal, reference = Mtt\_pop, sd = omega\_Mtt}