[LONGITUDINAL]

input = {V1, V2, Cl, Q, ka, p}

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)

absorption(adm=1, cmt=1, p, ka)

peripheral(k12, k21)

elimination(cmt=1, k)

EQUATION:

odeType = stiff

; Conversion a mcg/L

; y1 = Cc \* 1000

OUTPUT:

output = {Cc}

[INDIVIDUAL]

input = {V1\_pop, omega\_V1, Cl\_pop, omega\_Cl,

p\_pop, omega\_p, r\_ClV}

DEFINITION:

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

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

p = {distribution = lognormal, reference = p\_pop, sd = omega\_p}

correlation = {r(V1, Cl) = r\_ClV}