$BeatEnds?\,\&\,\rho_{new} \geq th$
$\rho \leftarrow Circulate(\rho, -1)$
$c, \mu, \alpha, \beta \leftarrow 0, w \leftarrow 1$

$c = th_i?$
$\mu \leftarrow \mu + x(t)$
$\alpha \leftarrow \alpha + x(t)x_m(t)$
$\beta \leftarrow \beta + x(t)^2$
$x \leftarrow 1$

CalculateVTC
$$c' = 1$$
$$\mu' = \alpha' = \beta' = 0$$
$$\rho' = 0$$
$$w' = -\gamma, (\gamma \ll 1)$$

$DurationEnds?$
$z \leftarrow 0$

$L_3 \leq th$

STOP
$$z' = 0$$

$BeatEnds?\,\&\,\rho_{new} < th$
$\rho \leftarrow Circulate(\rho, 1)$
$c, \mu, \alpha, \beta \leftarrow 0, w \leftarrow 1$