

GENERAL IDEA:

- Instead of returning for ksim, we return for ksim:end
- DOES ksim-1 remains the same in the code or does it become ksim-delay??

taking inverter
calculated from

the ksim-1 time-step

IDEAS:

- add input: ksim to inverter function - DONE
- modify output: instead of outputting filtered voltage for ksim, output it for ksim:end
- Voltage inputs
 - in inverter function, add: if ksim % DelayAlongCurve(knode) == 0
 - if true: run normal script
 - if false: use filtered voltage @ksim-1 to calculate qk/pk, filtered volt
- VBP input
 - in inverter function, add if ksim % DelayChangeCurve(knode) == 0
 - if true: run normal script with VBP(ksim-DelayCurveParam)
 - if false: make VBP == ksim-1 (or just ksim??)

loads @ ksim
Q @ ksim-1
m

er map @ ksim
S at every node @ ksim

to calculate 10 sec delay?
voltage @ ksim-1
ation @ ksim
which was just calculated
BS @ ksim
@ ksim-1
@ ksim

- set at 1
F - set at 1
max inverter capacity
input @ ksim-1
input @ ksim-1
+ BDC activate limit
input @ ksim
input @ ksim
filtered voltage @ ksim

pk/qk is dependent on: 1) filtered voltage @ksim, which is a function of A) voltage @ksim, B) voltage at @ksim-1, C) timestep
2) VBP @ ksim

--I need filtered voltage & VBP remain the same for every 10 seconds

--I want P/Q to be different every second
--I want filtered voltage to remain the same for 10 seconds

end

for each node:

run observer function to calculate
filtered voltage

IDEAS:

- add input: ksim to observer function
- modify output: instead of outputting values for ksim, output it for ksim:end

- in observer function, add: if ksim %

DelayAlongCurve(knode) == 0

- if true: run normal script

- if false: don't do calculations, just return yk-1, psik-1, epsilonk-1

HP-filtered, epsilon, & filtered voltage are
dependent on: 1) voltage @ksim, 2) voltage
@ksim-1, 3) epsilon @ksim-1

IDEAS:

-- Wait for Dan

, which was calculated

e FBS @ ksim

@ ksim - 1

filtered voltage @ ksim - 1

n-voltage @ ksim - 1

d voltage @ ksim - 1

ter freq - 1

ter freq - 0.1

energy - 1e5

step - set at 1

filtered voltage @ ksim

-voltage @ ksim

Filtered voltage @ ksim

ontrol function to

tes for VBP

-step - set at 1

Filtered voltage which

calculated in the

erber function @ ksim

filtered voltage @ ksim - 1

/ uzk @ ksim - 1

hold

red voltage which was

calculated in the

observer function @ ksim

Outputs: u_{pk}/u_{qk}

@ k_{sim}

Calculate new VBP params

Inputs: u_{pk}/u_{qk}

@ k_{sim}

v_1, v_2, v_3, v_4

Outputs: VBP

@ k_{sim}

end

IDEAS:

Option 1:

- store VBP in list
- return VBP for $k_{sim}:end$, instead of just k_{sim}
- if $k_{sim} \% DelayAlongCurve == 0$:
- calculate new VBP curve
- Then in inverter control function:
 - if $k_{sim} \% DelayAlongCurve == 0$:
 - return VBP($k_{sim}-DelayCurveParam$)