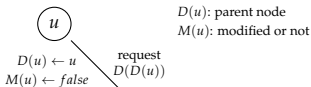


step1

initialization



step2

data sending



step3

local update

if $D(D(u)) \neq D(u)$
 $D(u) \leftarrow D(D(u))$
 $M(u) \leftarrow true$

if $D(D(u)) = D(u)$
 $dv \leftarrow \min_i D(v_i)$
if $(dv < D(u))$ send dv

u

$v_1 \dots v_n$

u 's neighbours

step4

remote update

du

dv_i

$D(D(u)) \leftarrow \min_i dv_i$
 $M(D(u)) \leftarrow true$

$Magg \leftarrow OR_{u \in V} M(u)$

step5

termination check

u

if $(not Magg)$
voteToHalt()

if $(Magg)$
request $D(D(u))$
 $M(u) \leftarrow false$
goto step2

du (in step 2)