PS C:\Users\IScream\Desktop\study\计算机网络\lab6\Lab6 Part1> ./a.exe

Enter TRACE:2

init 0 clocktime = 0.000000

init distance table of node 0 :

via

D0 | 1 2 3

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1| 1 999 999

dest 2| 999 3 999

3| 999 999 7

init 1 clocktime = 0.000000

init distance table of node 1 :

via

D1 | 0 2

----|-----------

0| 1 999

dest 2| 999 1

3| 999 999

init 2 clocktime = 0.000000

init distance table of node 2 :

via

D2 | 0 1 3

----|-----------------

0| 3 999 999

dest 1| 999 1 999

3| 999 999 2

init 3 clocktime = 0.000000

init distance table of node 3 :

via

D3 | 0 2

----|-----------

0| 7 999

dest 1| 999 999

2| 999 2

MAIN: rcv event, t=0.094, at 1 src: 0, dest: 1, contents: 0 1 3 7

update table 1

via

D1 | 0 2

----|-----------

0| 1 999

dest 2| 4 1

3| 8 999

MAIN: rcv event, t=0.427, at 1 src: 2, dest: 1, contents: 3 1 0 2

update table 1

via

D1 | 0 2

----|-----------

0| 1 4

dest 2| 4 1

3| 8 3

MAIN: rcv event, t=0.998, at 0 src: 1, dest: 0, contents: 1 0 1 999

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 999 999

dest 2| 2 3 999

3| 999 999 7

MAIN: rcv event, t=1.244, at 3 src: 0, dest: 3, contents: 0 1 3 7

update table 3

via

D3 | 0 2

----|-----------

0| 7 999

dest 1| 8 999

2| 10 2

MAIN: rcv event, t=1.514, at 2 src: 0, dest: 2, contents: 0 1 3 7

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 999 999

dest 1| 4 1 999

3| 10 999 2

MAIN: rcv event, t=1.685, at 0 src: 2, dest: 0, contents: 3 1 0 2

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 999

dest 2| 2 3 999

3| 999 5 7

MAIN: rcv event, t=2.171, at 3 src: 2, dest: 3, contents: 3 1 0 2

update table 3

via

D3 | 0 2

----|-----------

0| 7 5

dest 1| 8 3

2| 10 2

MAIN: rcv event, t=2.399, at 0 src: 3, dest: 0, contents: 7 999 2 0

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 999

dest 2| 2 3 9

3| 999 5 7

MAIN: rcv event, t=2.489, at 0 src: 1, dest: 0, contents: 1 0 1 8

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 999

dest 2| 2 3 9

3| 9 5 7

MAIN: rcv event, t=2.667, at 2 src: 1, dest: 2, contents: 1 0 1 999

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 999

dest 1| 4 1 999

3| 10 999 2

MAIN: rcv event, t=2.823, at 1 src: 0, dest: 1, contents: 0 1 2 7

No Update in node 1

MAIN: rcv event, t=3.242, at 1 src: 2, dest: 1, contents: 3 1 0 2

No Update in node 1

MAIN: rcv event, t=3.361, at 0 src: 1, dest: 0, contents: 1 0 1 3

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 999

dest 2| 2 3 9

3| 4 5 7

MAIN: rcv event, t=3.780, at 3 src: 0, dest: 3, contents: 0 1 2 7

No Update in node 3

MAIN: rcv event, t=3.798, at 2 src: 3, dest: 2, contents: 7 999 2 0

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 9

dest 1| 4 1 999

3| 10 999 2

MAIN: rcv event, t=3.915, at 0 src: 3, dest: 0, contents: 7 8 2 0

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 15

dest 2| 2 3 9

3| 4 5 7

MAIN: rcv event, t=4.774, at 2 src: 1, dest: 2, contents: 1 0 1 8

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 9

dest 1| 4 1 999

3| 10 9 2

MAIN: rcv event, t=4.967, at 1 src: 0, dest: 1, contents: 0 1 2 5

No Update in node 1

MAIN: rcv event, t=5.190, at 0 src: 2, dest: 0, contents: 3 1 0 2

No Update in node 0

MAIN: rcv event, t=5.464, at 3 src: 2, dest: 3, contents: 3 1 0 2

No Update in node 3

MAIN: rcv event, t=5.742, at 0 src: 3, dest: 0, contents: 5 3 2 0

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 10

dest 2| 2 3 9

3| 4 5 7

MAIN: rcv event, t=5.755, at 0 src: 2, dest: 0, contents: 2 1 0 2

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 10

dest 2| 2 3 9

3| 4 5 7

MAIN: rcv event, t=5.760, at 2 src: 1, dest: 2, contents: 1 0 1 3

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 9

dest 1| 4 1 999

3| 10 4 2

MAIN: rcv event, t=6.259, at 3 src: 0, dest: 3, contents: 0 1 2 5

No Update in node 3

MAIN: rcv event, t=6.529, at 1 src: 0, dest: 1, contents: 0 1 2 5

No Update in node 1

MAIN: rcv event, t=6.771, at 2 src: 0, dest: 2, contents: 0 1 2 7

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 9

dest 1| 4 1 999

3| 10 4 2

MAIN: rcv event, t=6.947, at 3 src: 0, dest: 3, contents: 0 1 2 5

No Update in node 3

MAIN: rcv event, t=7.032, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=7.501, at 1 src: 0, dest: 1, contents: 0 1 2 5

No Update in node 1

MAIN: rcv event, t=7.613, at 3 src: 0, dest: 3, contents: 0 1 2 5

No Update in node 3

MAIN: rcv event, t=7.650, at 2 src: 3, dest: 2, contents: 7 8 2 0

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 9

dest 1| 4 1 10

3| 10 4 2

MAIN: rcv event, t=8.531, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=8.591, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=8.631, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=8.713, at 3 src: 2, dest: 3, contents: 2 1 0 2

update table 3

via

D3 | 0 2

----|-----------

0| 7 4

dest 1| 8 3

2| 9 2

MAIN: rcv event, t=8.958, at 2 src: 0, dest: 2, contents: 0 1 2 5

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 9

dest 1| 4 1 10

3| 8 4 2

MAIN: rcv event, t=8.979, at 3 src: 0, dest: 3, contents: 0 1 2 4

No Update in node 3

MAIN: rcv event, t=9.720, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=9.809, at 2 src: 3, dest: 2, contents: 5 3 2 0

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 7

dest 1| 4 1 5

3| 8 4 2

MAIN: rcv event, t=10.448, at 2 src: 0, dest: 2, contents: 0 1 2 5

No Update in node 2

MAIN: rcv event, t=10.483, at 1 src: 0, dest: 1, contents: 0 1 2 4

No Update in node 1

MAIN: rcv event, t=10.484, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=10.509, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=10.900, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=11.279, at 1 src: 0, dest: 1, contents: 0 1 2 4

No Update in node 1

MAIN: rcv event, t=11.385, at 3 src: 0, dest: 3, contents: 0 1 2 4

No Update in node 3

MAIN: rcv event, t=11.462, at 2 src: 0, dest: 2, contents: 0 1 2 5

No Update in node 2

MAIN: rcv event, t=11.502, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=11.694, at 0 src: 3, dest: 0, contents: 4 3 2 0

update table 0

via

D0 | 1 2 3

----|-----------------

1| 1 4 10

dest 2| 2 3 9

3| 4 5 7

MAIN: rcv event, t=11.706, at 3 src: 0, dest: 3, contents: 0 1 2 4

No Update in node 3

MAIN: rcv event, t=11.873, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=12.200, at 2 src: 0, dest: 2, contents: 0 1 2 4

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 7

dest 1| 4 1 5

3| 7 4 2

MAIN: rcv event, t=12.728, at 2 src: 0, dest: 2, contents: 0 1 2 4

No Update in node 2

MAIN: rcv event, t=12.916, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=13.052, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=13.255, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=13.625, at 3 src: 0, dest: 3, contents: 0 1 2 4

No Update in node 3

MAIN: rcv event, t=14.271, at 1 src: 0, dest: 1, contents: 0 1 2 4

No Update in node 1

MAIN: rcv event, t=14.318, at 2 src: 0, dest: 2, contents: 0 1 2 4

No Update in node 2

MAIN: rcv event, t=14.516, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=15.269, at 2 src: 0, dest: 2, contents: 0 1 2 4

No Update in node 2

MAIN: rcv event, t=15.535, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=15.831, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=16.183, at 1 src: 0, dest: 1, contents: 0 1 2 4

No Update in node 1

MAIN: rcv event, t=16.760, at 2 src: 3, dest: 2, contents: 4 3 2 0

update table 2

via

D2 | 0 1 3

----|-----------------

0| 3 2 6

dest 1| 4 1 5

3| 7 4 2

MAIN: rcv event, t=16.991, at 0 src: 2, dest: 0, contents: 2 1 0 2

No Update in node 0

MAIN: rcv event, t=17.175, at 2 src: 0, dest: 2, contents: 0 1 2 4

No Update in node 2

MAIN: rcv event, t=17.703, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=17.769, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=19.330, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=19.401, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=20.161, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=20.284, at 3 src: 0, dest: 3, contents: 0 1 2 4

No Update in node 3

MAIN: rcv event, t=20.898, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=22.178, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=22.417, at 3 src: 2, dest: 3, contents: 2 1 0 2

No Update in node 3

MAIN: rcv event, t=22.698, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=24.222, at 1 src: 0, dest: 1, contents: 0 1 2 4

No Update in node 1

MAIN: rcv event, t=25.746, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=25.969, at 1 src: 2, dest: 1, contents: 2 1 0 2

No Update in node 1

MAIN: rcv event, t=10000.000, at -1MAIN: rcv event, t=20000.000, at 12583248

Simulator terminated at t=20000.000000, no packets in medium

综合每个节点最终的距离表中相应距离的最小值，得到每个节点到其他节点的最小开销值：

0 1 2 3 dest

0 0 1 2 4

1 1 0 1 3

2 2 1 0 2

3 4 3 2 0

Src