Lab 3: Distance Vector Routing Algorithm

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Part 1 Final tables

)	1	2	3
	-	1	4	10
dest	2	2	3	9
	3	4	5	7

Enter TRACE:2

[0] rtinit0 starts at 0.000000.

- [0] rtinit0 sends routing packet to 1.
- [0] rtinit0 sends routing packet to 2.
- [0] rtinit0 sends routing packet to 3.
- [1] rtinit1 starts at 0.000000.
- [1] rtinit1 send routing packet to 0.
- [1] rtinit1 send routing packet to 2.

2

0 | 1 999

dest 2| 999 1

3| 999 999

- [2] rtinit2 starts at 0.000000.
- [2] rtinit2 sends routing packet to 0.
- [2] rtinit2 sends routing packet to 1.
- [2] rtinit2 sends routing packet to 3.

- [3] rtinit3 starts at 0.000000.
- [3] rtinit3 sends routing packet to 0.
- [3] rtinit3 sends routing packet to 2.

MAIN: rcv event, t=0.947, at 3 src: 0, dest: 3, contents: 0 1 3 7

- [3] rtupdate3 is called at 0.946640.
- [3] routing packet from 0.
- [3] rtupdate3 sends routing packet to 0.
- [3] rtupdate3 sends routing packet to 2.

```
0| 7 999
```

dest 1| 8 999

2 | 10 2

MAIN: rcv event, t=0.992, at 0 src: 1, dest: 0, contents: 1 0 1 999

- [0] rtupdate0 is called at 0.992243.
- [0] routing packet from 1.

- [0] rtupdate0 sends routing packet to 1.
- [0] rtupdate0 sends routing packet to 2.
- [0] rtupdateO sends routing packet to 3.

MAIN: rcv event, t=1.209, at 3 src: 2, dest: 3, contents: 3 1 0 2

- [3] rtupdate3 is called at 1.209223.
- [3] routing packet from 2.
- [3] rtupdate3 sends routing packet to 0.
- [3] rtupdate3 sends routing packet to 2.

MAIN: rcv event, t=1.276, at 3 src: 0, dest: 3, contents: 0 1 2 7

- [3] rtupdate3 is called at 1.275716.
- [3] routing packet from 0.

MAIN: rcv event, t=1.642, at 2 src: 0, dest: 2, contents: 0 1 3 7

- [2] rtupdate2 is called at 1.641910.
- [2] routing packet from 0.

MAIN: rcv event, t=1.871, at 1 src: 0, dest: 1, contents: 0 1 3 7

- [1] rtupdate1 is called at 1.870574.
- [1] routing packet from 0.
- [1] rtupdate1 sends routing packet to 0.
- [1] rtupdate1 sends routing packet to 2.

3|

MAIN: rcv event, t=2.166, at 2 src: 1, dest: 2, contents: 1 0 1 999

- [2] rtupdate2 is called at 2.165707.
- [2] routing packet from 1.
- [2] rtupdate2 sends routing packet to 0.
- [2] rtupdate2 sends routing packet to 1.
- [2] rtupdate2 sends routing packet to 3.

MAIN: rcv event, t=2.407, at 0 src: 2, dest: 0, contents: 3 1 2

- [0] rtupdateO is called at 2.406722.
- [0] routing packet from 2.

	vi	a
1	2	3
1	4	999
2	3	999
999	5	7
	1 2	1 4 2 3

- [0] rtupdate0 sends routing packet to 1.
- [0] rtupdate0 sends routing packet to 2.
- [0] rtupdate0 sends routing packet to 3.

MAIN: rcv event, t=2.421, at 2 src: 3, dest: 2, contents: 7 999 2 0

- [2] rtupdate2 is called at 2.421268.
- [2] routing packet from 3.

			via	
	2	0	1	3
	I- Ol	3	2	9
dest	- 1	4	1	999
	3	10	999	2

MAIN: rcv event, t=2.811, at 1 src: 2, dest: 1, contents: 3 1 2 0 [1] rtupdate1 is called at 2.810933.

- [1] routing packet from 2.
- [1] rtupdate1 sends routing packet to 0.
- [1] rtupdate1 sends routing packet to 2.

via
D1 | 0 2
----|----0 | 1 4
dest 2 | 4 1
3 | 8 3

MAIN: rcv event, t=3.293, at 2 src: 3, dest: 2, contents: 7 8 2 0

[2] rtupdate2 is called at 3.292663.

[2] routing packet from 3.

via D2 | 1 0 01 3 2 9 dest 1 4 1 10 999 2 3| 10

MAIN: rcv event, t=3.602, at 3 src: 2, dest: 3, contents: 2 1 0 2

- [3] rtupdate3 is called at 3.601910.
- [3] routing packet from 2.
- [3] rtupdate3 sends routing packet to 0.
- [3] rtupdate3 sends routing packet to 2.

MAIN: rcv event, t=4.063, at 2 src: 0, dest: 2, contents: 0 1 2 7

- [2] rtupdate2 is called at 4.063167.
- [2] routing packet from 0.

	2	0	via 1	3
	 0	3	2	 9
dest	1	4	1	10
	3	10	999	2

MAIN: rcv event, t=4.104, at 0 src: 3, dest: 0, contents: 7 999 2 0

- [0] rtupdate0 is called at 4.103641.
- [0] routing packet from 3.

 dest 2 | 2 | 3 | 9 | 3 | 9 | 9 | 5 | 7

MAIN: rcv event, t=4.169, at 2 src: 3, dest: 2, contents: $5 \quad 3 \quad 2 \quad 0$

[2] rtupdate2 is called at 4.169482.

[2] routing packet from 3.

			via	
D:	2	0	1	3
	0	3	2	7
dest	1	4	1	5
	3	10	999	2

MAIN: rcv event, t=4.330, at 0 src: 3, dest: 0, contents: 7 8 2 0

[0] rtupdate0 is called at 4.330418.

[0] routing packet from 3.

MAIN: rcv event, t=4.643, at 1 src: 0, dest: 1, contents: 0 1 2 7

[1] rtupdate1 is called at 4.643052.

[1] routing packet from 0.

MAIN: rcv event, t=5.213, at 0 src: 3, dest: 0, contents: 5 3 2 0

[0] rtupdateO is called at 5.212747.

[0] routing packet from 3.

			vıa	
) [1	2	3
	-			
	1	1	4	10
dest	2	2	3	9
	3	999	5	7

MAIN: rcv event, t=5.384, at 3 src: 0, dest: 3, contents: 0 1 2 5

[3] rtupdate3 is called at 5.383835.

[3] routing packet from 0.

dest 1 | 8 3 2 | 9 2

MAIN: rcv event, t=5.820, at 1 src: 2, dest: 1, contents: 2 1 0 2

[1] rtupdate1 is called at 5.820477.

[1] routing packet from 2.

via
D1 | 0 2
----|----0 | 1 3
dest 2 | 3 1
3 | 8 3

MAIN: rcv event, t=6.042, at 2 src: 1, dest: 2, contents: 1 0 1 8

[2] rtupdate2 is called at 6.042466.

[2] routing packet from 1.

			via	
D	2	0	1	3
	-			
	0	3	2	7
dest	1	4	1	5
	3	10	9	2

MAIN: rcv event, t=6.071, at 0 src: 1, dest: 0, contents: 1 0 1 8

[0] rtupdateO is called at 6.071281.

[0] routing packet from 1.

			via	
DO		1	2	3
	1	1	4	10
dest	2	2	3	9
	3	9	5	7

MAIN: rcv event, t=6.532, at 1 src: 0, dest: 1, contents: 0 1 2 5

[1] rtupdate1 is called at 6.532176.

[1] routing packet from 0.

MAIN: rcv event, t=7.021, at 0 src: 2, dest: 0, contents: 2 1 0 2

[0] rtupdate0 is called at 7.020665.

[0] routing packet from 2.

		via	
DO	1	2	3
1	1	4	10

dest 2 | 2 | 3 | 9 | 9 | 5 | 7

MAIN: rcv event, t=7.160, at 2 src: 0, dest: 2, contents: 0 1 2 5

- [2] rtupdate2 is called at 7.160166.
- [2] routing packet from 0.

			via	
D2	2	0	1	3
	0	3	2	7
dest	1	4	1	5
	3	8	9	2

MAIN: rcv event, t=7.405, at 0 src: 1, dest: 0, contents: 1 0 1 3

- [0] rtupdateO is called at 7.405163.
- [0] routing packet from 1.

		via	
DO	1	2	3
1	1	4	10
dest 2	2	3	9
3	4	5	7

- [0] rtupdateO sends routing packet to 1.
- [0] rtupdate0 sends routing packet to 2.
- [0] rtupdate0 sends routing packet to 3.

MAIN: rcv event, t=7.579, at 3 src: 0, dest: 3, contents: 0 1 2 4

- [3] rtupdate3 is called at 7.579368.
- [3] routing packet from 0.

MAIN: rcv event, t=7.941, at 1 src: 0, dest: 1, contents: 0 1 2 4

- [1] rtupdate1 is called at 7.941363.
- [1] routing packet from 0.

MAIN: rcv event, t=8.086, at 0 src: 3, dest: 0, contents: 4 3 2 0

- [0] rtupdateO is called at 8.085963.
- [0] routing packet from 3.

via

MAIN: rcv event, t=8.639, at 2 src: 1, dest: 2, contents: 1 0 1 3 [2] rtupdate2 is called at 8.638953.

[2] routing packet from 1.

		via	
D2	0	1	3
-			
0	3	2	7
dest 1	4	1	5
3	8	4	2

MAIN: rcv event, t=8.943, at 2 src: 3, dest: 2, contents: 4 3 2 0 [2] rtupdate2 is called at 8.942584.

[2] routing packet from 3.

MAIN: rcv event, t=9.960, at 2 src: 0, dest: 2, contents: 0 1 2 4 [2] rtupdate2 is called at 9.959651.

[2] routing packet from 0.

			via	
D2		0	1	3
dest	0	3	2	6
	1	4	1	5
	3	7	4	2

Simulator terminated at t=9.959651, no packets in medium