

CNT4704

Note Title

$$\text{checksum} = \text{seqnum} + \text{acknum} + \sum_{i=0}^{L-1} \text{payload}(i)$$

10/23/2012

A side (sender) follow Chapter3-part2.ppt (page 5)  
FSM

A\_input()  $\iff$  udt\_rcv()

A\_output()  $\iff$  rdt\_send()

to\_layer3(0, pkt)  $\iff$  udt\_send(pkt)

A\_timer\_interrupt()  $\iff$  timeout

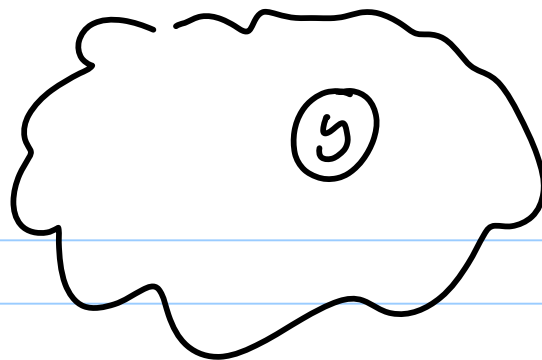
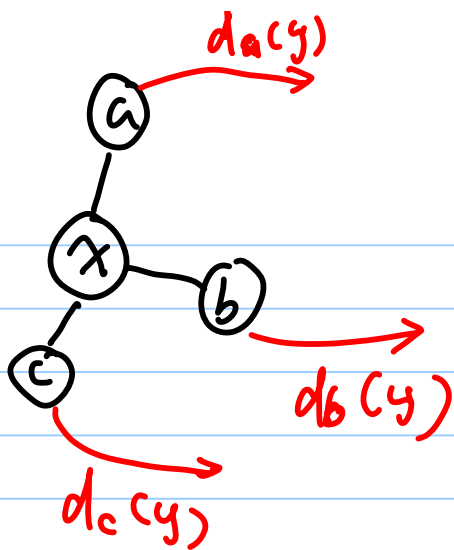
start\_timer(0, x)  $\iff$  start timer  $x = 20$

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B\_input()  $\iff$  udt\_rcv()

to\_layer5(1, msg)  $\iff$  deliver\_data()

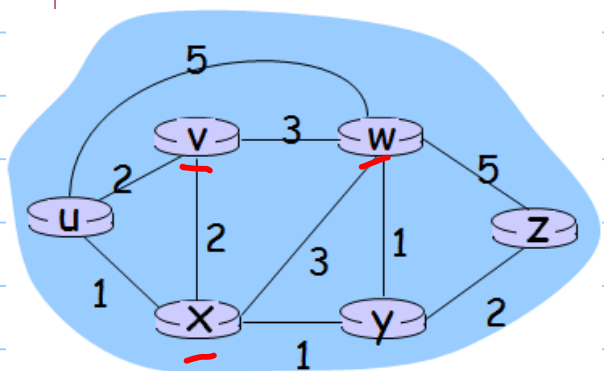
to\_layer3(1, pkt)  $\iff$  udt\_send(pkt)



$$d_x(y) = \min \left\{ \begin{array}{l} c(x,a) + d_a(y) \\ c(x,b) + d_b(y) \\ c(x,c) + d_c(y) \end{array} \right\}$$

$d_u(y)$ ?

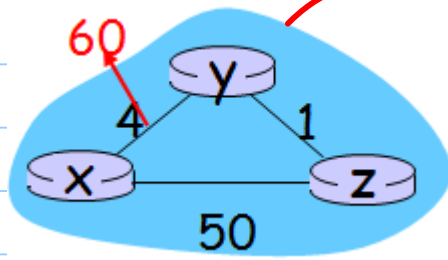
$$d_v(y) = 3, \quad d_x(y) = 1, \quad d_w(y) = 1$$



$$d_u(y) = \min \left\{ \begin{array}{l} c(u,v) + d_v(y) \\ c(u,x) + d_x(y) \\ c(u,w) + d_w(y) \end{array} \right\} = \min \{ 5, 2, 6 \}$$

$$= \underline{\underline{2}}$$

$u \rightarrow x \rightarrow \dots \rightarrow y$



$$d_y(x) = \min \left\{ \begin{array}{l} c(y,z) + d_z(x) \\ c(y,x) + d_x(x) \end{array} \right\} = \min \left\{ \begin{array}{l} 1 + 5 \\ 60 \end{array} \right\} = \underline{\underline{6}}$$