

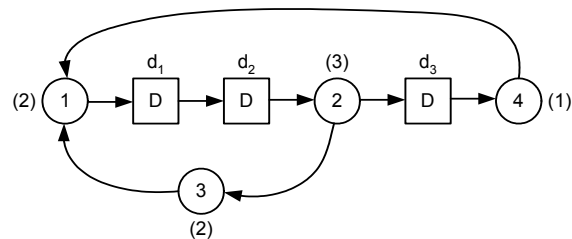
DSP in VLSI Design

Homework (V)

Unfolding

Deadline: April 10

1. In homework (II), you have computed the iteration bound of the following DFG. Please design a new DFG with unfolding to achieve this iteration bound.



2. In homework (III), you have designed a 3-parallel architecture for a direct-form FIR filter, $y(n) = ax(n) + bx(n-2) + cx(n-3)$. Please derive the 3-parallel architecture again by using the unfolding technique.

Please deliver the homework to the TA:

EEII-332, 陳翊豪 dspdesign@video.ee.ntu.edu.tw

除非為程式作業，作業盡量繳交紙本格式，不過要交電子檔也沒關係