



a) The faster transmitter and slower receiver connected by the encoder and decoder

If  $f == 0$  then  $o \leq I$   
 else  
 if  $d == 0$  then  $o \leq D_0$   
 else  $o \leq D_1$

b) The encoder's source code mapping  $d$  and  $f$  to  $o$