- 520 (time merge) We want to repeatedly read an input on either channel c or channel d, whichever comes first, and write it on channel e. At each reading, if input is available on both channels, read either one; if it is available on just one channel, read that one; if it is available on neither channel, wait for the first one and read that one (in case of a tie, read either one).
- (a) $\sqrt{}$ Write the specification formally, and then write a program. § see book Subsection 9.1.4
- (b) Prove
 $$\begin{split} \mathcal{T}\!e_{\pmb{w}\!e} &= t \! \uparrow \! ((\mathcal{T}\!c_{\pmb{n}}) \! \downarrow (\mathcal{T}\!d_{\pmb{n}\!d}) + 1) \\ \forall m, n \! \cdot \! \mathcal{T}\!e_{\pmb{w}\!e+m+n+1} \! \leq (\mathcal{T}\!c_{\pmb{n}\!c+m}) \! \uparrow (\mathcal{T}\!d_{\pmb{n}\!d+n}) \! \uparrow (\mathcal{T}\!e_{\pmb{w}\!e+m+n}) + 1 \end{split}$$
 no solution given