

Topics in Concurrency Ch. 1

(a) Bookwork P.55 Course notes on Topics in Concurrency available from www.cl.cam.ac.uk/sgs104.

(b) $[a]([a]F \wedge [b]F)$

$\wedge \langle a \rangle T$

$\wedge [b]F$

Computer Science Tripos Part II 2005

Paper 7 Question 11

GW — Topics in Concurrency

(c) $t_1 \equiv a.nil + a.b.nil$, $t_2 \equiv a.b.nil$

are st. $t_1 \preceq t_2$ & $t_2 \preceq t_1$ via

the relations R_1 , R_2 defined by

$$R_1 = \{ (t_1, t_2), (nil, b.nil), (nil, nil), (b.nil, b.nil) \}$$

$$R_2 = \{ (t_1, t_2), (a.nil, b.nil), (nil, nil) \}$$

How $t_1 \not\preceq t_2$, i.e. t_1, t_2 are not strongly bisimilar, as

$t_1 \xrightarrow{a} nil$ and only $t_2 \xrightarrow{a} b.nil$

But $nil \not\sim b.nil$