researcher_globaltime.imi

3 clocks	4 parameters	1 discrete	Initial
x t global_time	pTotal pNeed MAXBREAK pCoffee	nb	pCoffee >= 0 & MAXBREAK >= 0 & pNeed >= 1 & pTotal >= 0 & t = 0 & global_time = 0 & x = 0

researcher

working	pTotal >= x

$5*x >= 4*pTotal$

workingFast	pTotal >= x
	$x' = 2$

pTotal = x
finished
x := 0;   t := 0;

restart
x := 0;   t := 1/2 * pNeed;   nb := 0;

MAXBREAK >= 1 + nb
& t >= pNeed
drink
t := 0;   nb := nb + 1;

pCoffee = t
drunk
t := 0;

pTotal = x
finished
x := 0;   t := 0;

$5*x >= 4*pTotal$
& pCoffee = t
drunk
t := 0;

MAXBREAK >= 1 + nb
& 5*t >= 3*pNeed
drink
t := 0;   nb := nb + 1;

finished	True
	stop x,t

coffeeing	pCoffee >= t
	stop x