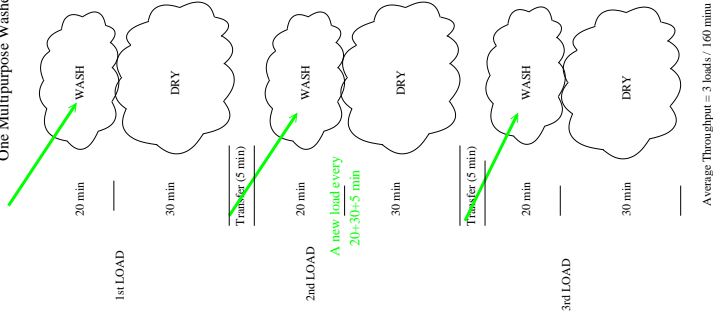
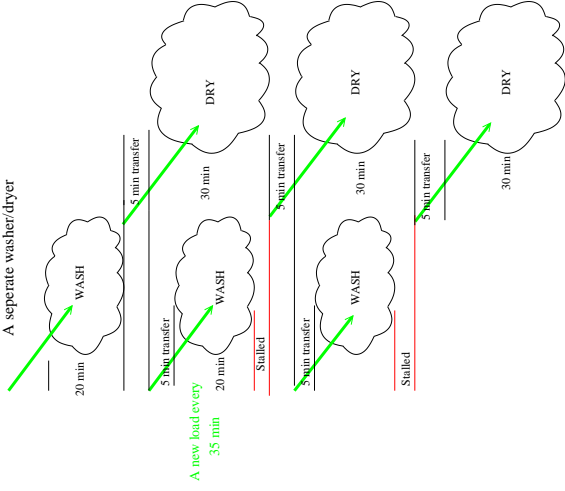


Pipelining

One Multipurpose Washer Dryer



A separate washer/dryer



Average Throughput = 3 loads / 125 min = 1.44 loads/hr

BUT, What is the long term throughput, ignoring end-effects?

A new load can go in every 35 minutes (limited by the dryer)

Long term throughput = 1.71 loads/hr

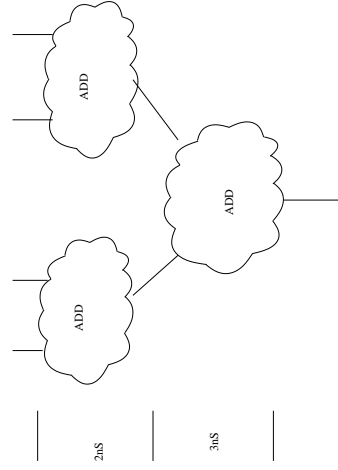
What would the throughput be if the WASH took 25 minutes?

Since the dryer is the limiting factor up to that point, it would not change.

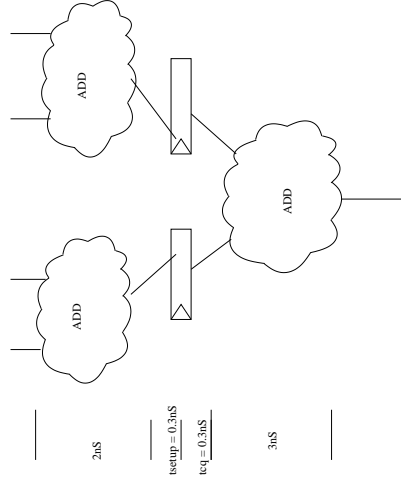
I'm leaving for Toronto and I REALLY need my shirt quickly for a presentation – how long will it take to get?

Delay from the load going in to coming out = 20+30 = 50 minutes

Look at a load in the middle of the pipeline:  
 20 min WASH + 5 minutes waiting for previous dryer load + 5 min transfer + 30 min dry  
 = 60 minutes



Throughput = 1.5hS = 200 MSamp/sec



Throughput = 1/3.3hS = 303 MSamp/sec