Sebueh Pipeline dengan 4 fase (stages) wasing -waring fase We werluber worlden 60,50,90, dan 80 ns. unsalkon latch delay until aleges register alaboli was.

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Hitrongloh:

- 1. pipeline cycle time
- 2. non propeline execution true
- 3. Speed up ratio
- 9. pipeline time for 1000 tosly
- 5. reon-pipe line fine for love tasks
- 6. throughput.
- 1. pipelire cycle time diluting der walete face poling bersor den ditambali dergan latch delay. Pripe live cycle time = 90 ms + lons = lov ms
- 2. Note pipe line excention time adolph walter young debutuh keur until elese her instruct toupa pripe hind, walkte i'm adalah jum lah waletu hap Stages. non pipe line execution time = 60 +50 +90 +80 = 200 ns

3. Speed up ratio = non pipeline execution time = 280 = 2,8
pîpeline vycle time

4. pypeline time while 1000 tayles = 1 x (4 & Cycle time) + 959 x Cycle time. = 1 × 400 kg + 999 × 100 ms

= 100 300 us

Kerera intole tash 1 perlu 4 stages sampai selesar. Untre tasa kedua dan setempnya akan Relesai trap satu Cycle. selvingga un tole menyelesarban ta mating-mating tolk to 2 sampon to 1000 hanya butuh 1 cycle

5. non pipe like time for low tasks = water non pipelike execution time x Juntal task = 280 × 1000 = 280 000 ns

6. thoughput = Jumbal task pircline expension time