Nethold Mensures

Ch 7

## (nto) Stretar Taxony

## Synchronics

Asynchronius

Globally Timed

- Centralized Chelled

FSM generals all

control Signals

feasy to design

fixed size internal

con be welterful

con be welterful

con data-demand tizing)

- Central Contral on:t

tailors current time

tailors current tas MS

Slice to current tas MS

Slice to current tas MS

Ly large Systems lend

to very conflicted timing

government

Localy

Start and Finish

Svignols gramped by

end noise substitute

Synchroundly with global

clock

has best way

the best und to be large systems had ind. then compacts

- Each schops the falls
asynchronial State;
generates asynchronial
Ginish (pulsons using local alida)

Ly extra word is with it in

Special caseo

Symany

Latery (1) : the it takes fusion input Thoughput - rate at which new X FI Continctional Circuits; L=+p0, T=1/2 tur U-Pipelires (470); Jaluays Lave registers on outputs > K registers on every part from input to output inputs available shortly after clour i outputs after it 4

The true of slowest pipeline stage + tsetup

The true of slowest pipeline stage + tsetup Hy none throughput -> Split slonest ripeline stages

Ly use replication linterlegating if no further Split possible 7 T= 1/tax

Ly pipelined lateray Z Continuational lateray

L=4xtcly=4/T