Threads

- Increase efficiency
- More data processed
- Multithreading
- Things happen at the same time
- Interleaving of processes
- Computation
- Modularity
- Speedup (maybe)

Why use threads in applications?
3 \rightarrow \text{ join}

\text{else}

\text{par for}

\text{partition}

\text{some thing?}

\{ 3 + 1 \}

x = x + 1

\text{par for}

\text{part 3}

\text{par sum that}

- par cannot

\text{fork}

\text{fork}

\text{fork}

Then it starts threaded
"Start thread"
3

$f(2)$

main:

\text{Standard } (f1): \\ \text{Stretch } (f2): \\ x \text{ even } f2

3

loop - print ("f2\ n")

$3$

loop

print ("f1\ n")
Subject

Evidence

Surfs:

If ...

Producer
if \( f_2 \)

if \( f_2 \)

if \( f_3 \)

\[ \text{Score} = \frac{3}{f_3} \text{ and } f_3 \text{ are fixed} \]

no preference
$\text{buffer size} = N \ (\text{max})$

$\Rightarrow \text{consumer front buffer}$

$\Rightarrow \text{consumer back buffer}$

$\Rightarrow \text{Producer} \rightarrow \text{consumer}$

$\text{Producer} - \text{consumer protocol}$

(End example)

$\Rightarrow \text{one process up to 8 consumer}$

$\Rightarrow \text{such an observer}
Write item

Space

Write

Put item in Scope

Least popular

Most free space

If no space

Check buffer

Consume item
as loop
produce item
produce item
produce item
Is Condition Verifiable

- Subjects need measures
- Phrases do not leave senselessness
- Unseen usage senseless
- Place predicates (Sentence)