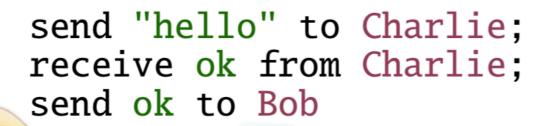
Communication and Concurrency

Cinzia Di Giusto cinzia.di-giusto@unice.fr

CONCUTTEME SYSEEMS

- multiple users that share services
- multiple users that cooperate
- @ PROTOCOLS





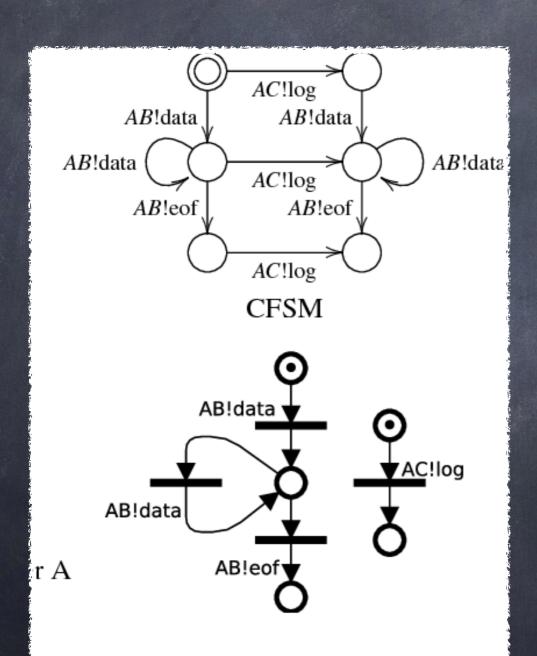


receive ok from Alice;

receive x from Alice
if x then {
 send ok to Bob;
 send ok to Alice }
 else {
 send ok to Alice;
 send ok to Bob }

!Communication!

Abstractions

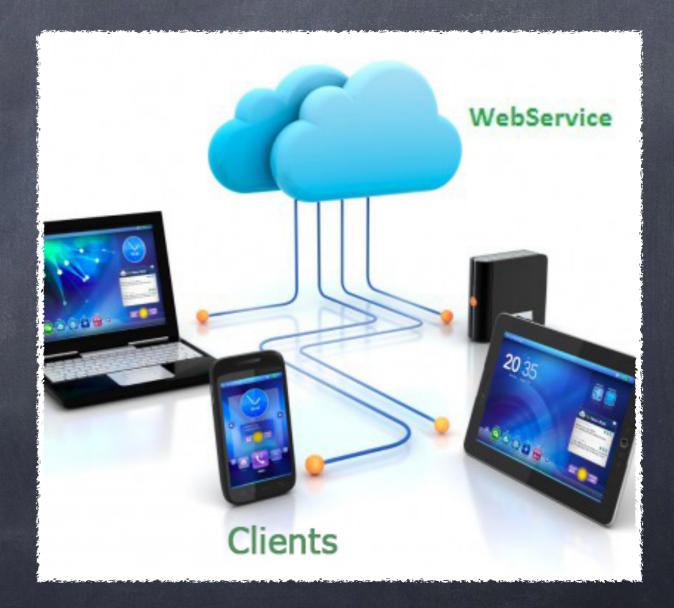


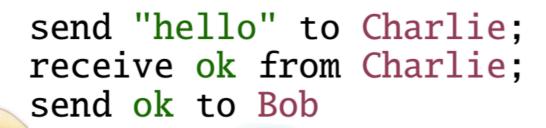
- o Petri nets
- Communicating
 automata
- o Process algebra

Croal good

Tools for:

- o analysis
- o verification







receive ok from Alice;

receive x from Alice
if x then {
 send ok to Bob;
 send ok to Alice }
 else {
 send ok to Alice;
 send ok to Bob }

see any problem?

ALICE SENDS A MESSAGE TO BOB SAYING TO MEET HER SOMEWHERE. UH HUH. BUT EVE SEES IT, TOO, AND GOES TO THE PLACE. WITH YOU SO FAR. BOB IS DELAYED, AND ALICE AND EVE MEET. YEAH?

I'VE DISCOVERED A WAY TO GET COMPUTER SCIENTISTS TO LISTEN TO ANY BORING STORY.