

What?

Introduction

Johan Montelius

KTH

HT15

What is a distributed system?

- Give me some examples.
- Give me a definition.

“..one in which hardware or software components located at networked computers communicate and coordinate their actions only by message passing”

1 / 1

2 / 1

Why?

Why do we build distributed systems?

Different from..



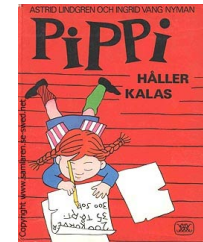
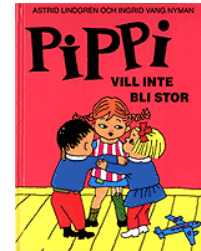
3 / 1

4 / 1

Concurrency



Communication



5 / 1

6 / 1

Messages



Time



7 / 1

8 / 1



9 / 1

10 / 1



- How can we solve
 - communication,
 - security and,
 - coordination,

... in a world with failure and no notion of time?

Can we hide all problems?

11 / 1

12 / 1