

Sistemas Reativos

o que são?



Classificação de “Sistemas”

(Berry 1989)

- Sistemas transformacionais
 - *“compute results from a given set of inputs”*
- Sistemas interativos
 - *“interact at their own speed with users or with other programs”*
- Sistemas reativos
 - *“interact with their environment, but at a speed which is determined by the environment, not by the program itself”*
- gcc, gdb, quake, md5, shell, zip, http, gui

Environment / Ambiente

- Input / Sensores
 - Teclado, Mouse, Botão, Sensores (luminosidade, temperatura, etc.), Temporizador
- Output / Atuadores
 - LED, Tela, Impressora, Motor
- Input \rightleftharpoons Output
 - Serial, Rádio

Leitura - 01

- Sistemas Reativos
 - [1985] David Harel - "On the development of reactive systems":
<http://www.wisdom.weizmann.ac.il/~dharel/SCANNED.PAPERS/ReactiveSystems.pdf>
 - (Somente páginas 1-4, até antes de "What is the Problem?")