

May 18, 2007

Intro

Intro

When I say:

“Hi. I’m Yonald. I was a member of CSG...”

The group response (à la “AA meeting”) is:

“Hi Yonald”

My life @ HP Labs



My Life @ CSG

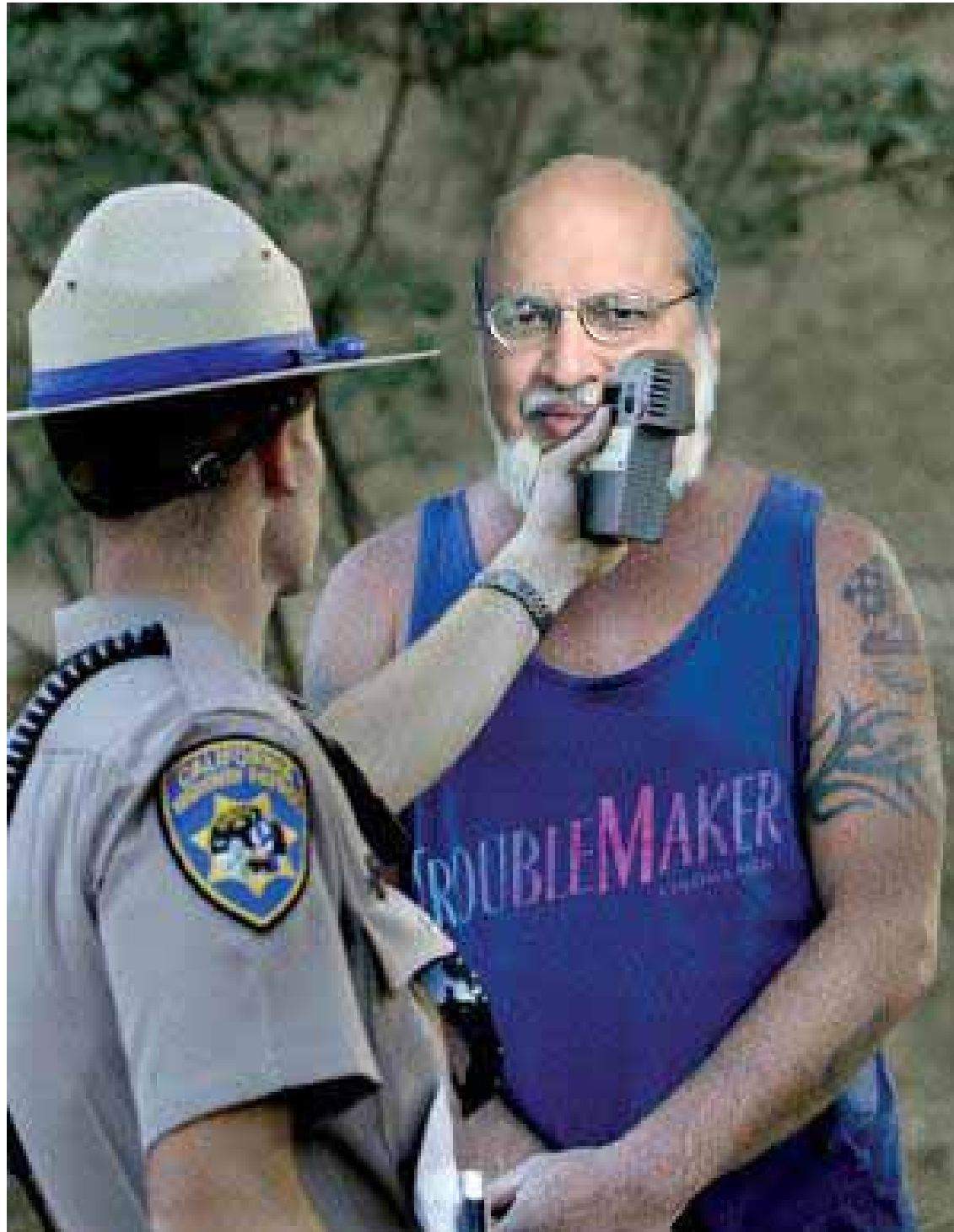




Arvind
(self-portrait)
c. 1993
Acrylic on velvet

Arvind CSG Mural
Anonymous
c. 1988
Crayon on gypsum





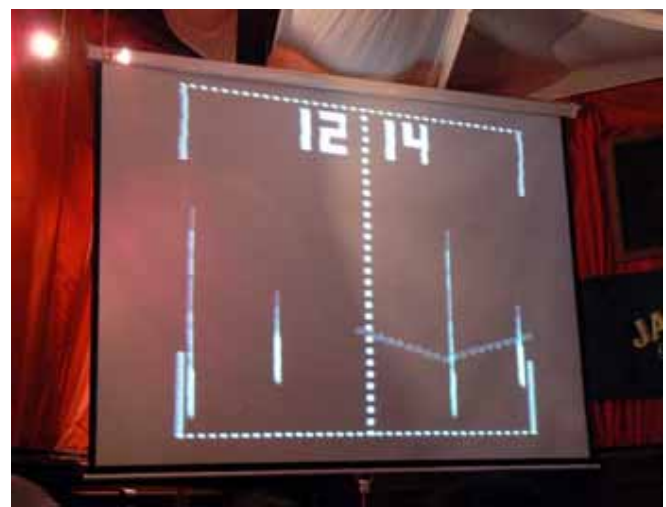


Everyone

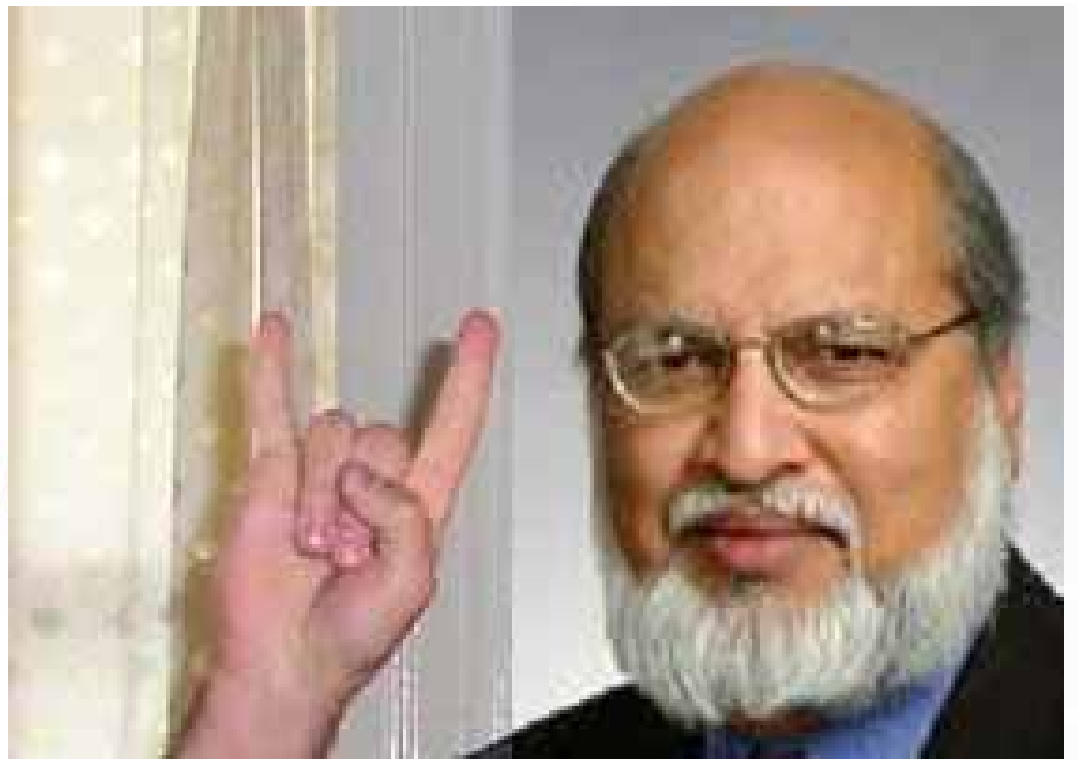


Others

Arvind



Arvind



Arvind – Classic Rocker



Arvind
(self-portrait)
c. 1993
Acrylic on velvet

Two Fundamental Issues in Multiprocessing

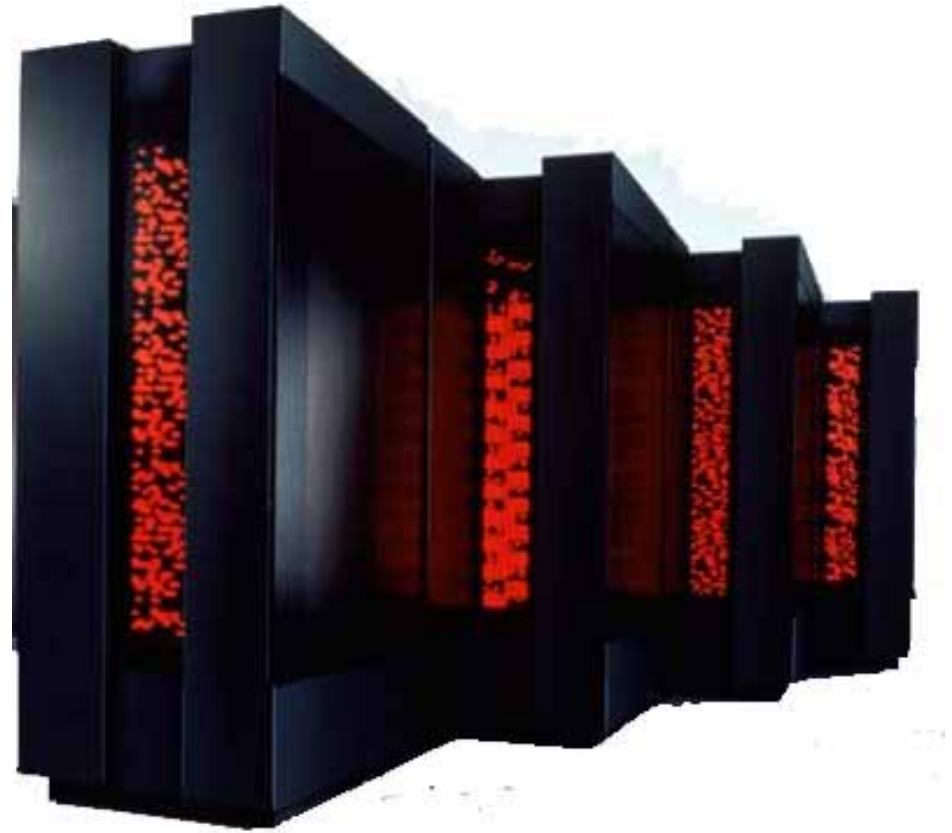
“To exploit the parallelism in algorithms, any high-performance multiprocessor system must, however, address:

... the ability to tolerate long latencies for memory requests

... ability to achieve unconstrained, yet synchronized, access to shared data.

- Arvind & R. Iannucci
c. 1987

Imagine a hÜge multiprocessor system



(Both items to scale)

Distance from Boston to Hartford is 100 miles

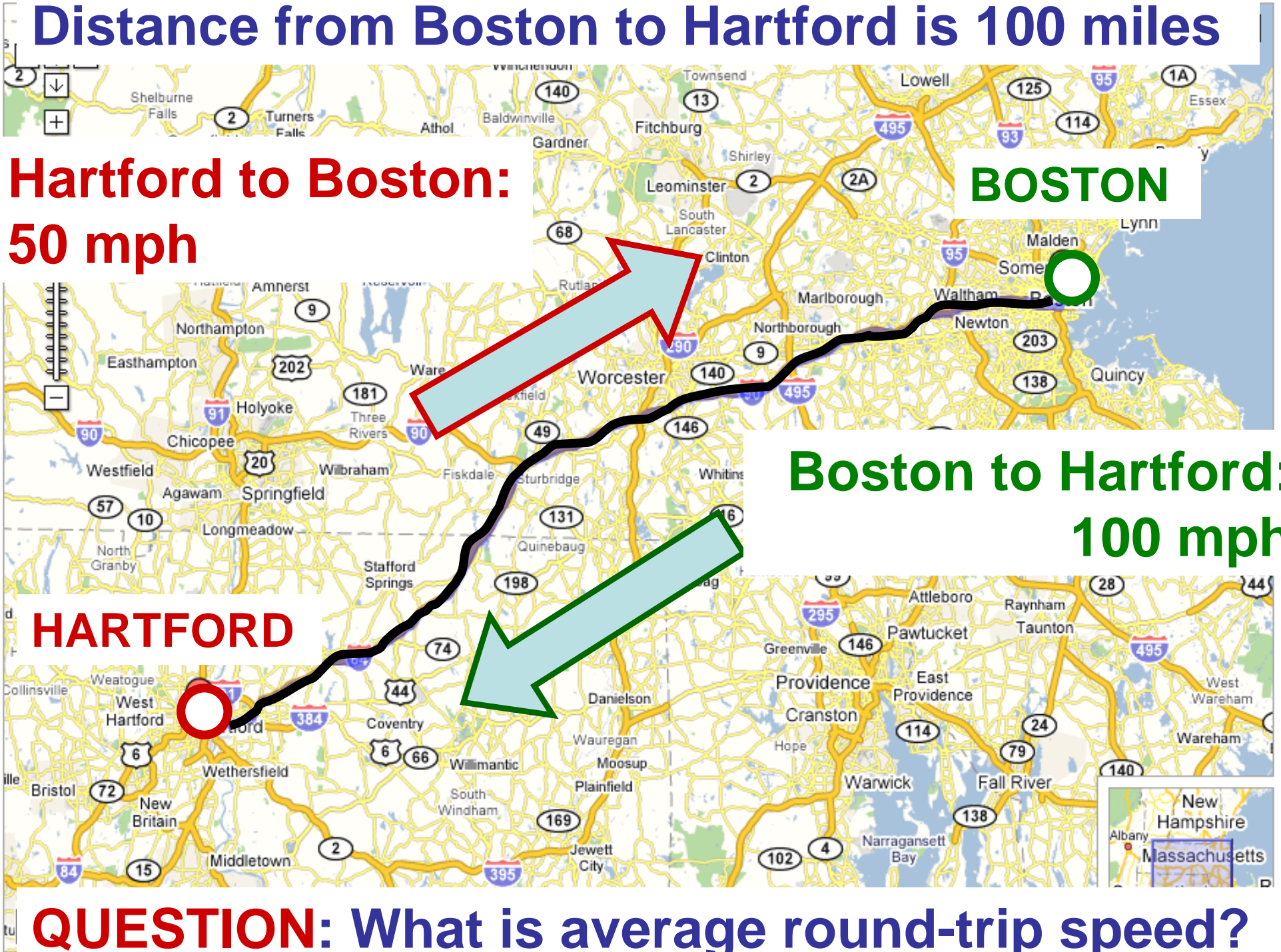
**Hartford to Boston:
50 mph**

BOSTON

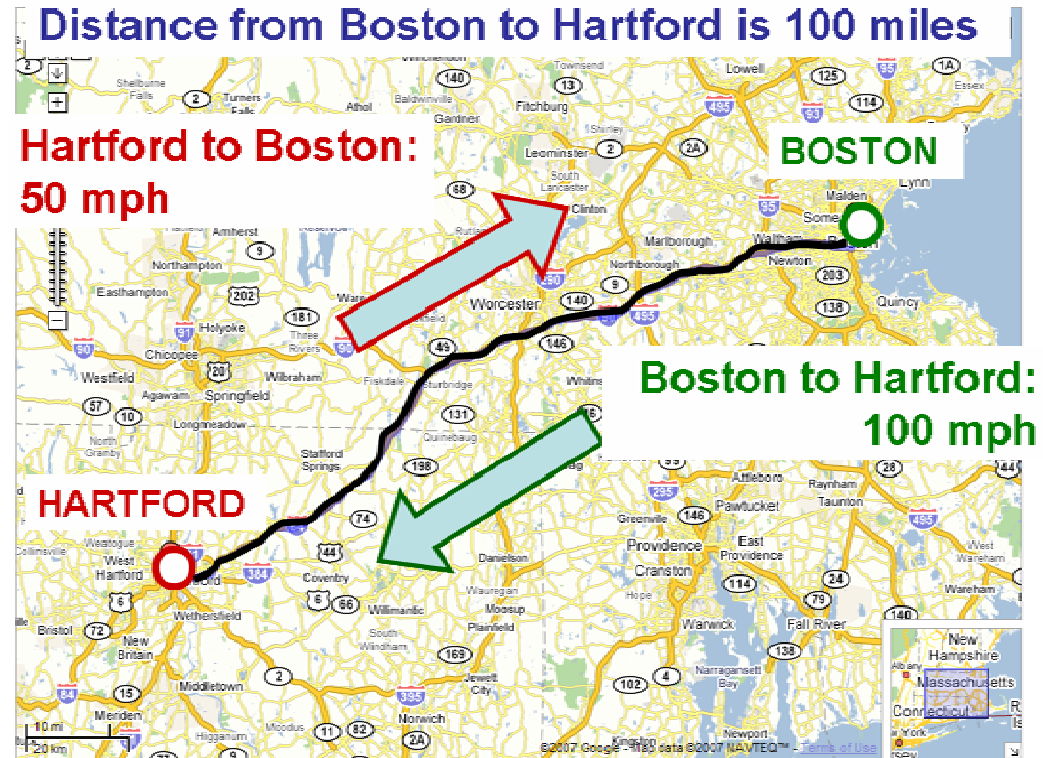
**Boston to Hartford:
100 mph**

HARTFORD

QUESTION: What is average round-trip speed?



“Hint”



$$\frac{50 \text{ mph} + 100 \text{ mph}}{2} = \text{????} \text{ mph}$$

2

correct

incorrect

Incorrect

Correct answer:

Who cares?!?!?

DARPA would never fund
such a project.

next

And now a word from our judges

