

August 1, 1988

The Sloow Benchmark

Steven Bellenot

The Sloow benchmark has three versions. Sloow Mark One produced the wildly erratic times with TW109. Sloow Mark Two produced mildly erratic times with TW110 by swamping the message system. Sloow Mark Three has been designed but has yet to be implemented.

Sloow Philosophy

The limits the Sloow benchmark attempt to stress include:
high fan in, high fan out

Mark One Sloow:

Event steps:

1. for each message magic.number += message.contents.
2. magic.number -= number.of.Sloow.objects.
3. out.message.contents = magic.number.
4. for each Sloow.object send it out.message for time now + 1.

Mark Two Sloow:

Event steps:

1. out.message.contents = message.count.
2. for each object.in.list send it out.message for time now + 1.

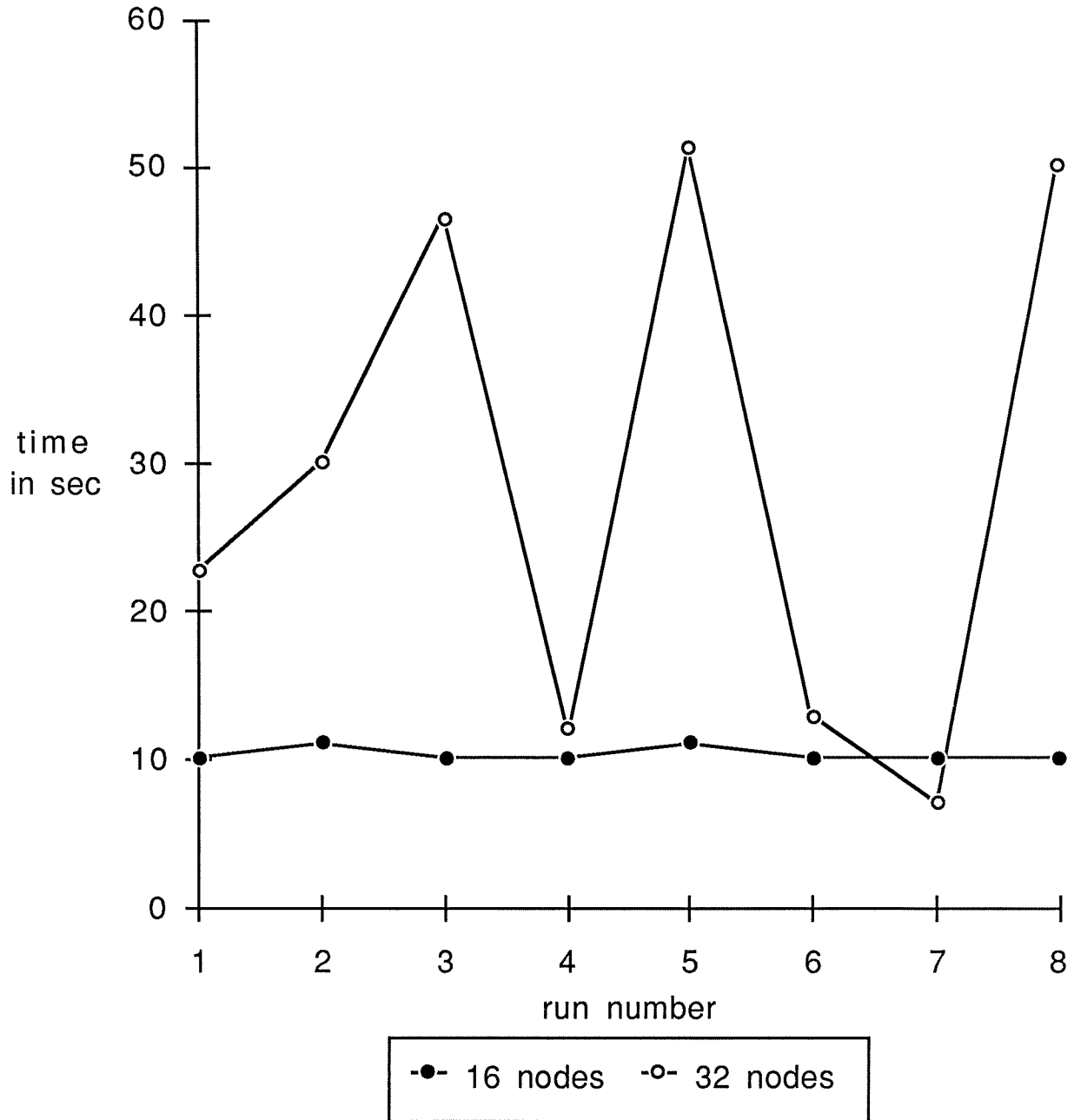
Mark Three Sloow:

Event steps:

- if now mod (number.of.Sloow.objects + 1) is not zero
- 1A. for each message magic.number += message.contents.
- else
- 1B. magic.number -= number.of.Sloow.objects.
 - 2B. out.message.contents = magic.number.
 - 3B. for each Sloow.object send it out.message for time now + 1 + my.Sloow.object.number.

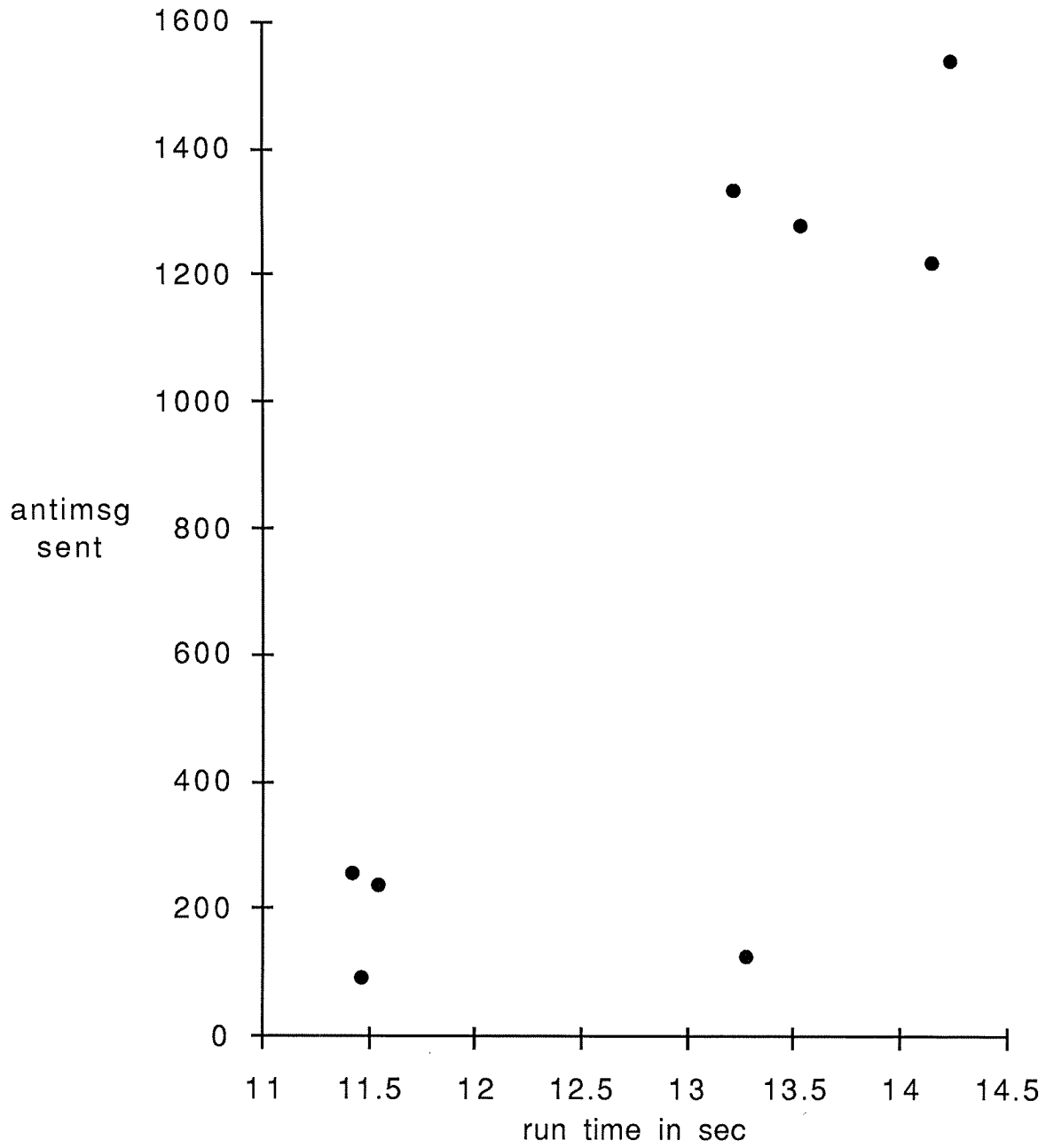
4B. send wake.up.message to self for time
now + 1 + number.of.Sloow.objects.

Sloow Benchmark
16 vs 32 node runs
sfb 27 May 1988



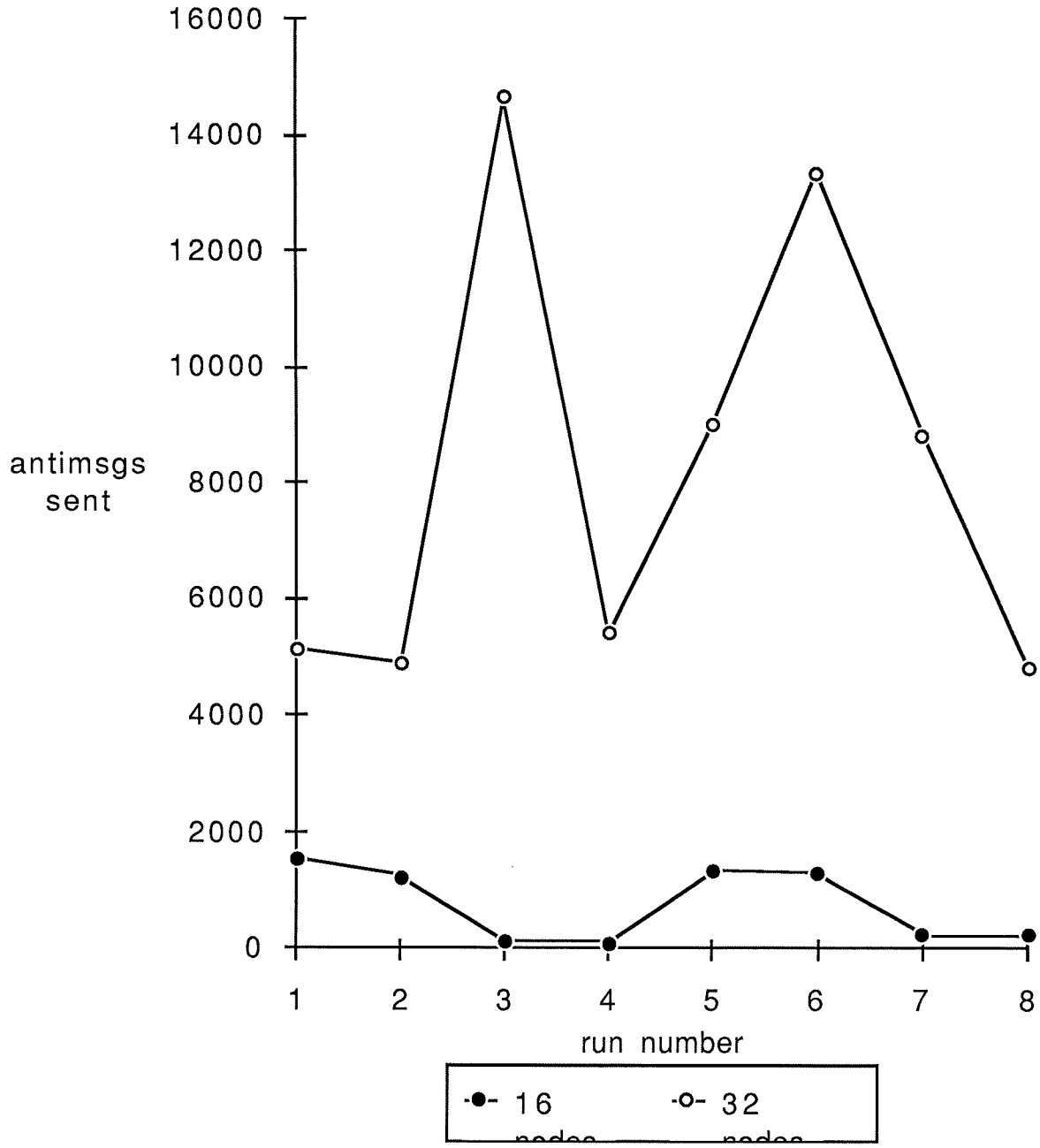
16n 3 jun

Sloow Benchmark
16 node runs
sfb 3 jun 1988
tw110 end time 20

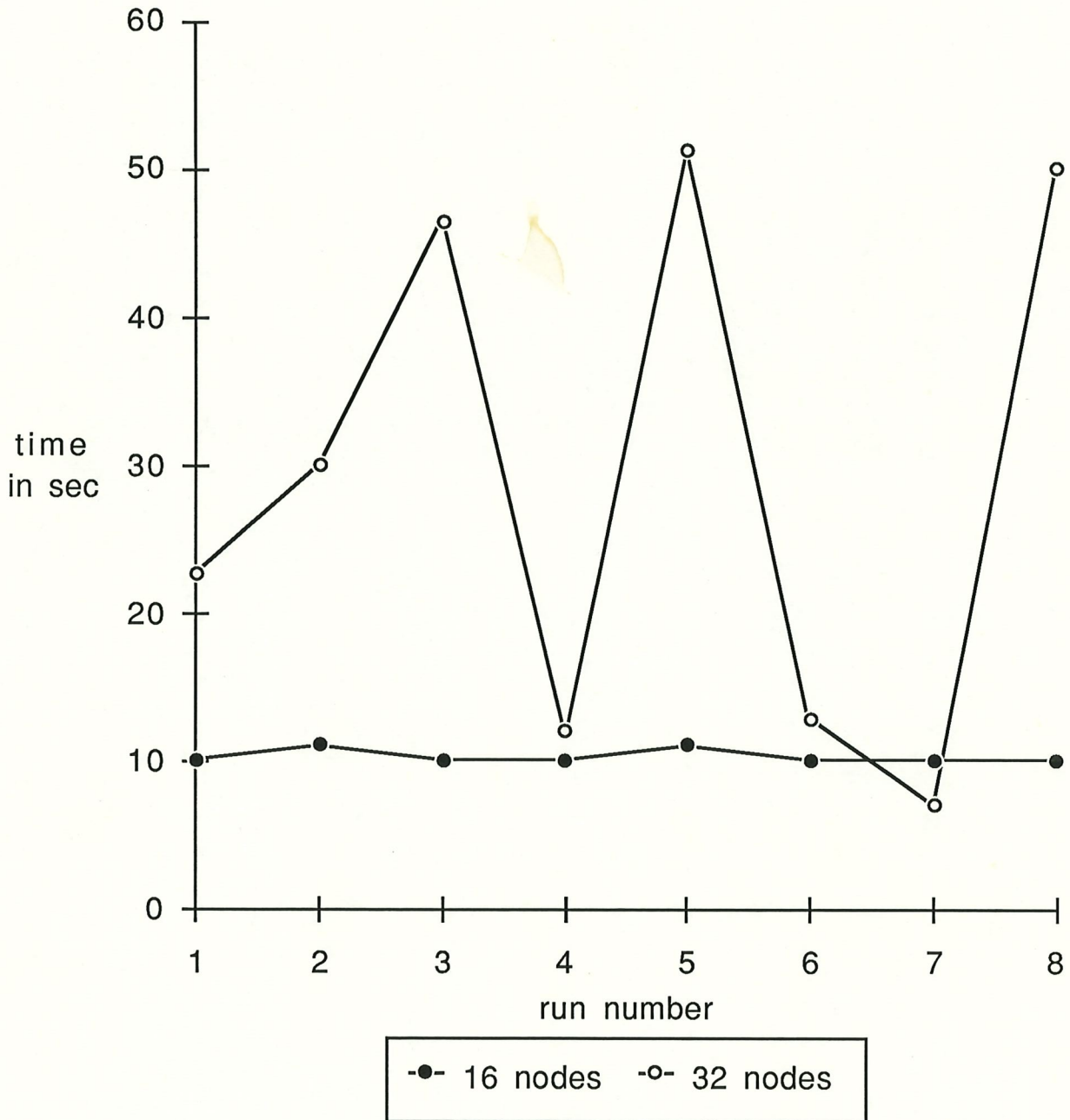


anti3jun.chart

Sloow Benchmark
16 vs 32 node runs
sfb 3 jun 1988
tw110 end time 20



Sloow Benchmark
16 vs 32 node runs
sfb 27 May 1988



Sloow Benchmark
16 vs 32 node runs
sfb 27 May 1988

