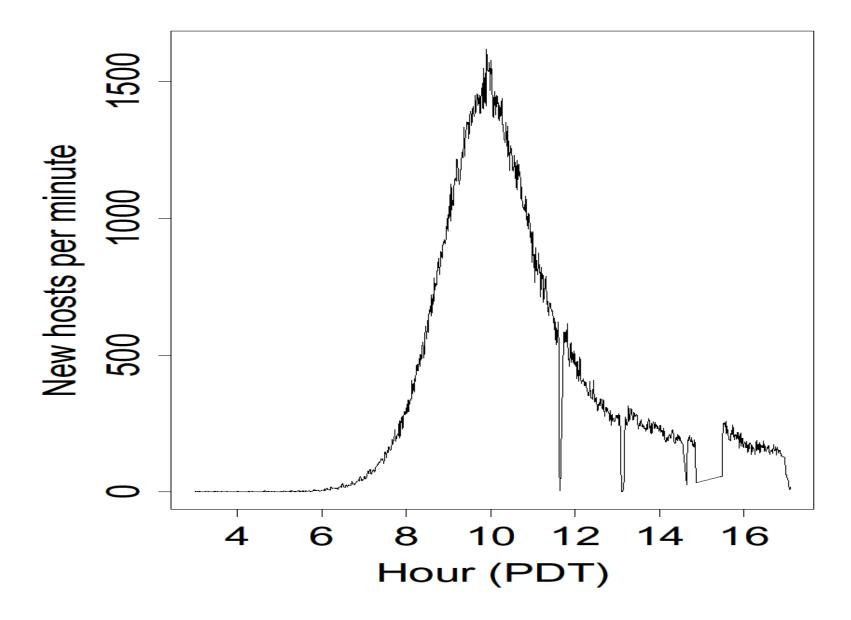
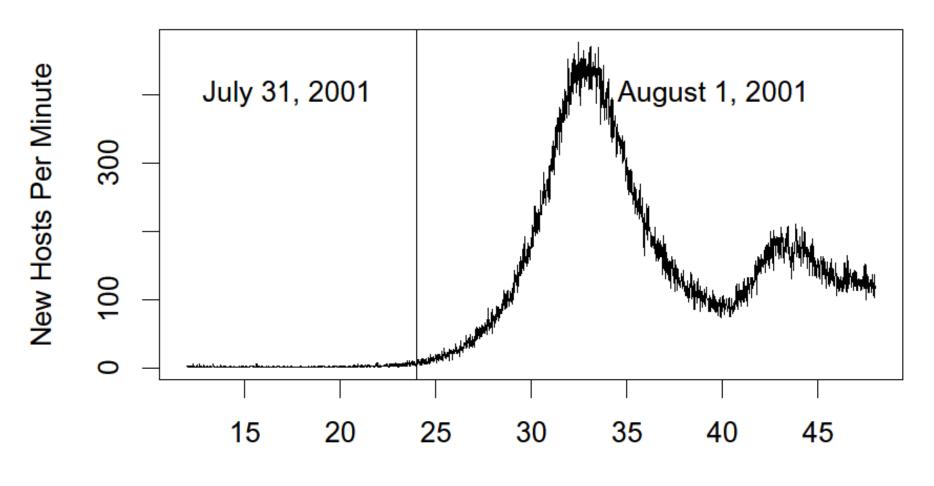
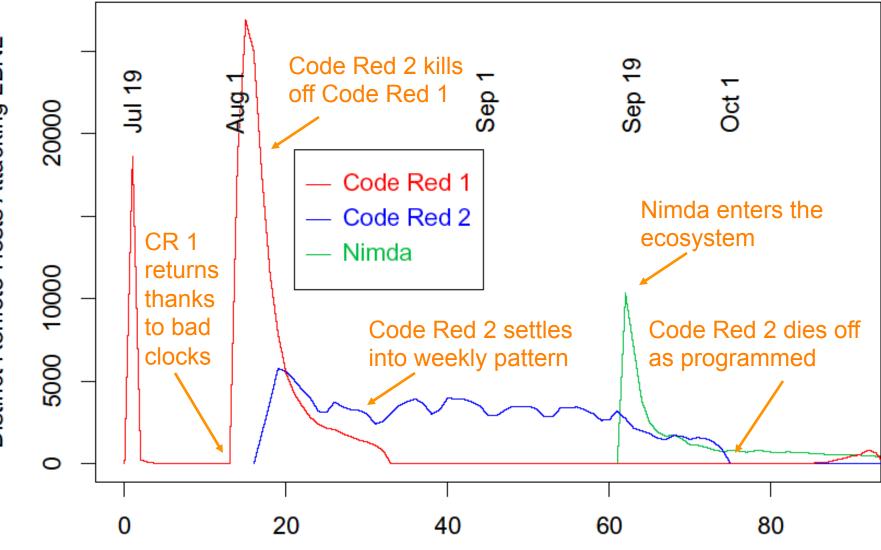
Growth of Code Red Worm



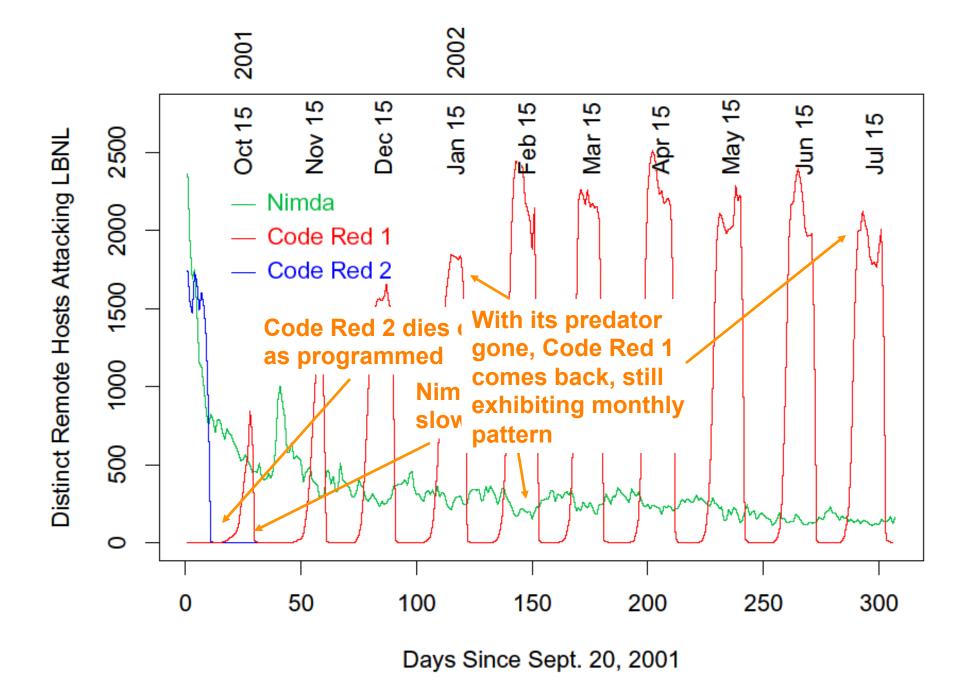


Hours (PDT) Since Midnight, July 31



Days Since July 18, 2001

Distinct Remote Hosts Attacking LBNL



i was getting bored by the time I was introduced to the whole 'CDC' proposition.

i'm certainly no expert, and these guys clearly have a decent understanding of their subject, but i'm convinced that the whole thing amounts to a childish attempt to establish a geeky gang of hilariously earnest cyber-heroes.

I would find it very difficult to believe that the top dogs in the network security industries haven't spent a lot more time and money contemplating future exploits (obviously with the somewhat more realistic goal of stiffing businesses for as much money as they can) than this bunch.

I just can't get away from the image of a drooling, pizza-faced ghoul with a cultivated disdain for anyone who can't build a linux kernel, managing to whine nasally over IRC about how no-one really understands how incredibly inevitable a full-scale internet MELT-DOWN is, considering that he's the only man on the planet to have considered the possibility that a Worm could be programmable... uh-huh.

Nothing in the article has any real substance - the 'mathematical models' seem smugly self-serving, the anticipated propogation of a 'Wharhol Worm' being the most indulgent. Who came up with THAT one? It's all approximated, estimated and assumed.

J

[...]

In a word: unimpressed.

Modeling Worm Spread

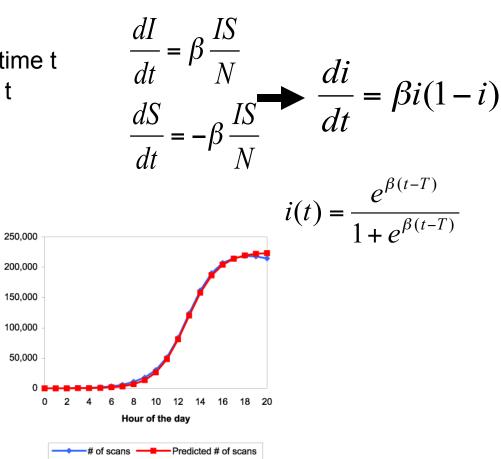
- Often well described as *infectious epidemics*
 - Simplest model: homogeneous random contacts

hour

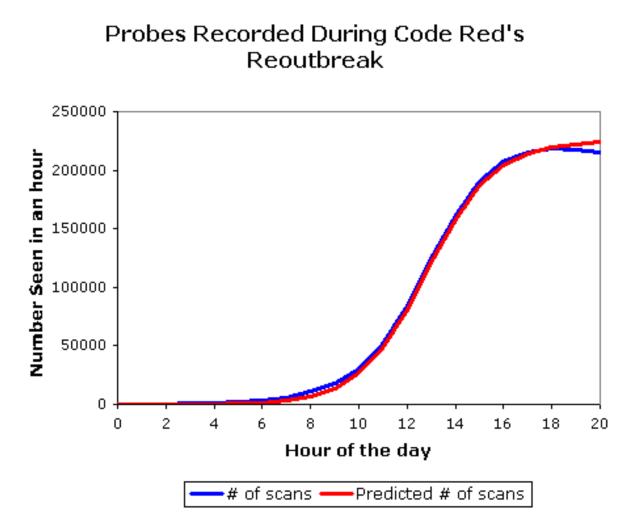
in an

Number seen

- Classic SI model
 - N: population size
 - S(t): susceptible hosts at time t
 - I(t): infected hosts at time t
 - β : contact rate
 - i(t): I(t)/N, s(t): S(t)/N



The Usual Logistic Growth



Slammer's Bandwidth-Limited Growth

DShield Probe Data

