

Exploding The Phone

db202

www.explodingthephone.com Bibliographic Cover Sheet

Title Ma Bell Begins Crackdown On Phone Phreaks

Publication The Stanford Daily

Date 1973-04-09

Author(s) Hummer, Larry

V/I/P p. 1

Abstract Overview of phone phreaking circa 1973 in the Bay Area with

perspective and personal history from a Stanford based phreak. Contains a brief history of phone phreaking and a general overview

of the the technical aspects.

Keywords phone phreaks; Santa Clara County, CA; Stanford University; Captain

Crunch; Esquire article; 2600; Phred (Stanford based phone phreak);

Joe Engressia; KZSU (Stanford's student run radio station); FBI;

bookmakers

The following pages may contain copyrighted material. We believe that our use of this material for non-commercial educational and research purposes constitutes "fair use" under Section 107 of U.S. Copyright Law. If you wish to use this material for purposes that go beyond "fair use," you must obtain permission from the copyright owner, if any. While it will make us slightly sad to do so, we will nonetheless comply with requests from copyright owners who want their material removed from our web site.

Ma Bell Begins Crackdown On Phone Phreaks

By LARRY HUMMER

Phone phreaks have been having a field day in the past few years, but now Ma Bell is bringing up the heavy armor in the continuing Great

Telephone War.

"Ripping off Ma Bell" has been ridiculously easy in the past, and thousands of people, particularly those with a yen for electronics, have gotten into the act. With their knowledge and illicit equipment, they have been able to make free telephone calls to anywhere in the world.

The favorite phone phreak device is called the "blue box," or "MFer" for multifrequency tone signals. It is a relatively small device that imitates the switching language used by the Switching telephone system. controlled by different callope tones, similar to the tones generated by a touch-tone telephone, but of different

frequencies.

Phone phreaks generally initiate their calls by calling one of the toil-free area code 800 numbers, and then use their blue boxes to send their

own signals, to the switching equipment. By knowing the signal codes for the various trunk lines, phone phreaks can make free calls to any country in the world.

All that is recorded on the telephone records is a rather long call to an 800 commercial number. Phreaks avoid having the phone company's suspicious aroused by using pay phones, rather than their own home phones

. Major Center

Santa Clara County is a major center of phone phreaking, because of all the electronics industry in the area. Despite this, the Daily was hard pressed to get in touch with any phreaks here at Stanford. It is well mown that the notorious Captain Crunch was brought to justice largely through dues that appeared in an Esquire susgazine article about him in

Captain Crunch was one of the all

all-important "2600" tone, the frequency that allows phone phreaks to "seize a tandem," and thus talk to Paris or Karachi.

One of his great feats was to send his voice around the world several times to the phone booth right next to him. Thus, he was able to carry on convenations with himself. You have to be a little weird to be a hard-core

phone phreak.

"Phred" (not his real name) is a
Stanford phreak. His friends call him.
Phone Phreak Phred. Although he does
not use a blue hox, he is an avid
student of the telephone system and
this makes him representative of the
phone phreak psychology.
No Hatred

Although Phred has made some toll free calls the phone company does not know about, he does not hate the telephone company and he is not about to do it in. On the contrary, he has often called the company to report trouble on its lines.

"The phone system," says Phrod, "is an extremely complex system, and

finding out what makes it tick faccinates me, That's what motivates all phone phreaks. I find the phone company to be quite a marvelously technical thing. I may even work for per some day. Her. Ma Bell can be a very real

personal thing.

"It varies. Some really hate ber; some like her." Phred says.

Joe Engressia, a blind phone phreak from Plorida, desperately tried to get a lob with the phone company. It was all he cared about. His arrest for phone parsaking brought him to the attention of the phone company, so he now works in Tennessee as a \$2 per hour trouble shooter.

A lot of phone phreaks are blind. A blind person can explore this area as roll as a nighted person, better even, because blind people generally have

better developed hearing.

Phred says he was at the "tender says he was at the "tender says of ten when he discovered the

discovered that I could dial numbers by pushing on the switch hook."

Magazine Articles

A few years later, he met a blind guy who told him a lot about phones. When he was in junior college, Phred started amassing magazine articles on the subject.

Even without doing anything Blegal, the phone system in Palo Alto rovides endless faccination for Phred. He knows the numbers for all the special lines used by switchmen, and he has discovered various telephones

that will answer to two numbers, although they are not supposed to. The system is so large that just discovering its bugs is a huge task.

KZSU's phone phreaks entertain themselves by playing around with their own private telephone system. thus avoiding bassles with the

telephone company.

The phone company has been increasingly worried about fraud, and is growing ever more sophisticated in catching it. Various devices have been

(Please turn to back page)

(Continued from front page) developed to detect and monitor illegal calls, without actually istening to the convenations (which is illegal). The new "mf majority detector" can not signals coming from blue boxes, because such signals are generally of poor quality. To top it off, the Fill has been known to tap the phones of

Bookmakers are a particular worry at the present time; reportedly blue boxes have been used to set up cambling rings. The company has always been less concerned about those who regard the system as a giant technological toy than about these who are basically out to defraud the

system.