

2600



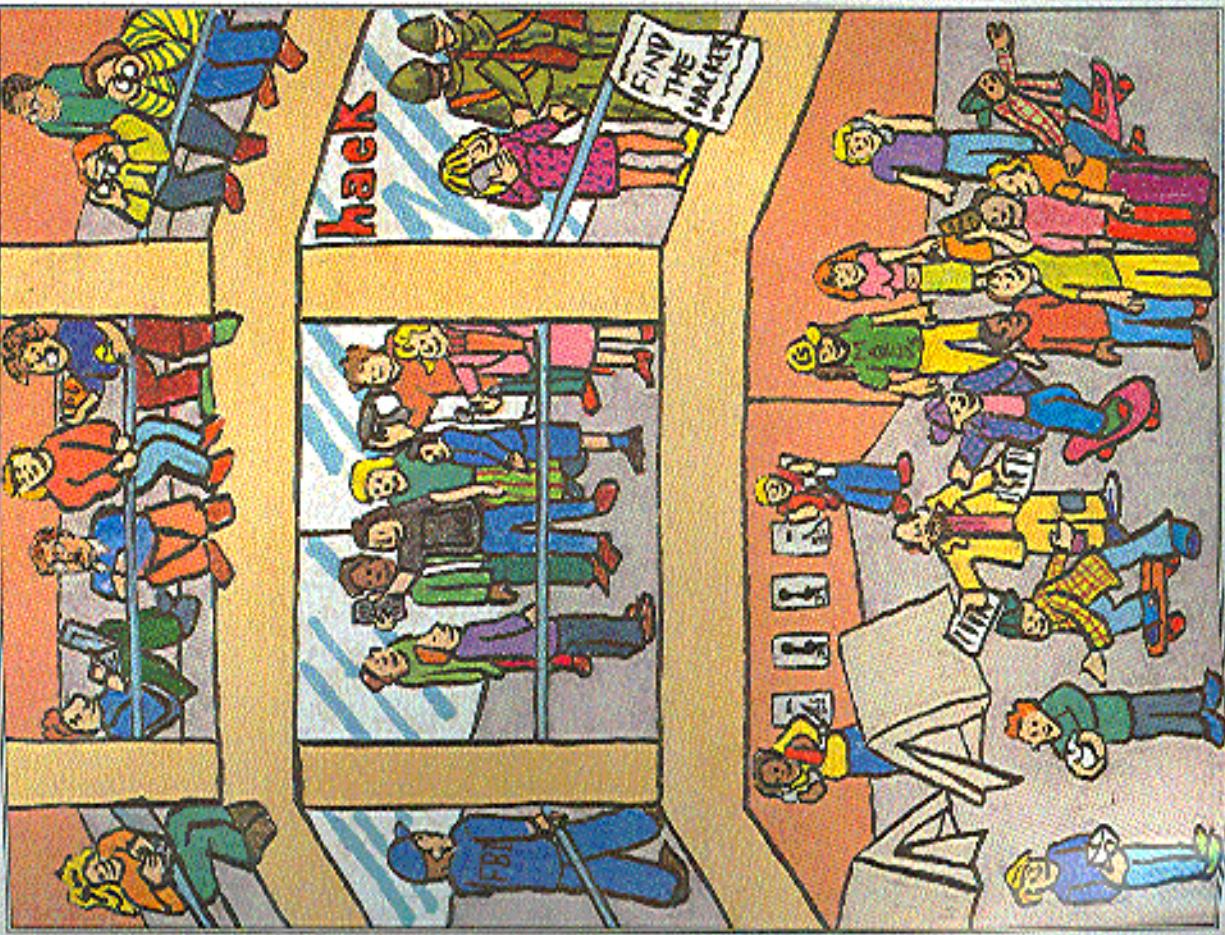
The Hacker Quarterly

VOLUME TEN, NUMBER TWO
SUMMER 1993

inward

\$4

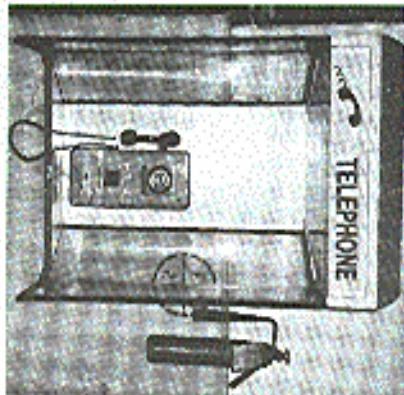
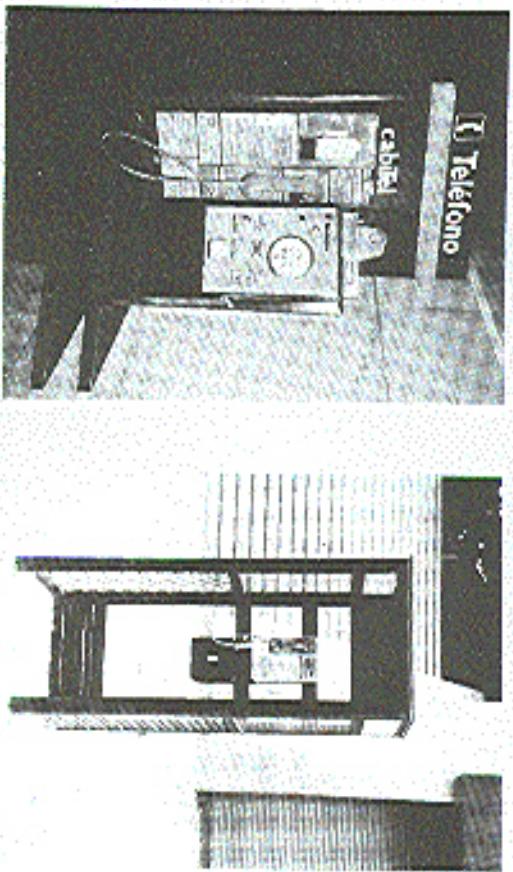
A Guide to the 5ESS	4
British Credit Holes	12
High School Hacking	13
DTMF Decoder Review	14
Meeting Advice	16
More Acronyms	20
Letters	24
AT&T's Pages	35
Video Review	40
2600 Marketplace	41
Toll Fraud Device	42



OUR ADDRESS:

2600 Magazine
PO Box 752
Middle Island, NY 11953 U.S.A.

WORLDLY PAYPHONES



LEFT TO RIGHT FROM THE TOP: Barcelona, Spain - a "green goblin" that takes coins and cards; Medellin, Colombia; Bombay, India; somewhere in Poland.

PHOTOS BY DREW LEIMAN, ANONYMOUS,

DAVID JOHNSON, BRAD DOLAN,

SEND YOUR PAYPHONE PHOTOS TO: 2600 PAYPHONES, POBOX 99,
MIDDLE ISLAND, NY 11953. REWARD FOR MONGOLIAN PAYPHONES!

2600 ISSN 0749-3851 is published quarterly by 2600 Enterprises Inc., 7 Strong's Lane, Setauket, NY 11733. Second class postage paid at Setauket, New York. POSTMASTER: Send address changes to 2600, P.O. Box 752, Middle Island, NY 11953-0752.

Copyright (c) 1993 2600 Enterprises, Inc.

2600, P.O. Box 752, Middle Island, NY 11953-0752.

Yearly subscription: U.S. and Canada -- \$21 individual, \$50 corporate (U.S. funds).

Overseas -- \$30 individual, \$65 corporate.

Back issues available for 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992

at \$25 per year, \$30 per year overseas. Individual issues available from 1988 on at \$6.25 each, \$7.50 each overseas.

ADDRESS ALL SUBSCRIPTION CORRESPONDENCE TO:
2600 Subscription Dept., P.O. Box 752, Middle Island, NY 11953-0752.

FOR LETTERS AND ARTICLE SUBMISSIONS, WRITE TO:

2600 Editorial Dept., P.O. Box 99, Middle Island, NY 11953-0099.

INTERNET ADDRESS: 2600@well.sf.ca.us

2600 Office Line: 516-751-2600, 2600 FAX Line: 516-751-2608

STAFF

Editor-In-Chief
Emmanuel Goldstein

Office Manager
Tamprif

Artwork

Affra Gibbs

"The Secret Service didn't do a good job in this case. We know no investigation took place. Nobody ever gave concern as to whether statues were involved. We know there was damage." - Judge Spears, *Steve Jackson vs. Secret Service*, January 28, 1993

Writers: Billsf, Blue Whale, Eric Corley, Count Zero, John Drake, Paul Estev, Mr. French, Bob Hardy, Inhuman, Knight Lightning, Kevin Mitnick, The Plague, Marshall Plann, David Ruderman, Bernie S., Silent Switchman, Scott Skinner, Mr. Upsetter, Dr. Williams, and the usual anonymous bunch, especially David Alan Buchwald.

Technical Expertise: Rob Gonçalves, Philber Optik, Geo. C. Tilley, Special Projects Coordinator: Earl J. Waggoner, Jr.
Short Outse Bad Cook Patm.
Good Ibuz Franklin.

A Guide to the 5ESS

by Crisp G.R.A.S.P.

Welcome to the world of the 5ESS. In this article I will be covering the switch topology, hardware, software, and how to program the switch.

The 5ESS switch is the best (I think) all around switch. Far better than an NT. NT has spent too much time with SONET and their SDH/S. Transport links OC48. Not enough time with ISDN, like AT&T has done. Not only that, but DMS100s are slow, slow, slow! Though I must hand it to NT, their DMS-1 is far better than AT&T's SLC-96.

What is the 5ESS?

The 5ESS is a switch. The first 5ESS in service was cut over in Stream, Illinois (815) in early 1992. This year, ran into 8 5ESS problems, but all in all was a success. The 5ESS is a digital switching system. The advantage was realized in the Number 4 ESS in 1970. The 5ESS network is a TST (Time Space Time) configuration, the TSUs (Time Slot Interchangers) each have their own processor. This makes the 5ESS one of the faster switches, though I hear some ATM switches are getting up there.

5ESS System Architecture & Hardware

The 5ESS is a digital SPC switching system

which utilizes distributed control, a TST switching network, and modular hardware and software.

The major components are:

ADMINISTRATIVE MODULE

Two 3B20S Processor

- Central control and main store

- Disk storage for infrequently used programs

- Data, and main store retransmission place

- Two 3B20S are always operating
- If one fails the other acts in its place

Two Input/Output Processor (IOP)

- Provides TTY and data-link interfaces to the

3B Processor, 5ESS Network, Master Control Center (MCC), and various Operational Support Systems (OSSs). On page 5 is a list of the default TTYs (also called "channels")

Two Automatic Message Accounting (AMA)

- Arrangement

- Uses data links to report calling

information to central revenue accounting office and ANA site. Here is the basic AMA structure for the OSPS model:

- Called customer's telephone number,

- Calling customer's telephone number,

- Date

- Time of day

COMMUNICATIONS MODULE

Message Switch (MSG5)

- Provides for control message transfer between the 3B20 Processor and Interface Modules (IMs).

- Contains the clock for synchronizing the network.

Time Multiplexed Switch (TMS)

- Performs space division switching between SUs.

- Provides permanent time slot paths between each SU and the MSG5 for control messages between the Processor and SU's (or between SUs).

Switching Module (SM)

- Terminates lines and trunks

- Contains a microprocessor which performs call processing functions for the SM.

COMMON COMPONENTS OF THE SWITCH MODULE (SM)

Switch Module Processor Unit (SMPU)

- Contains microprocessors which perform many of the call processing functions for trunks



CONNECTIONS MODULE

ADMINISTRATIVE MODULE

trA	Channel Name	trD	SLC/R carrier maintenance
trB	Master control console (MCC) serial	trE	STLWS : line of sr
trC	Master control console (MCC) parallel	trF	STLWS : serial of sr
trJ	Trunk report printer	trG	STLWS : serial of sr
trK	Supplementary trunk and line work station	trH	STLWS : fourth of sr
trL	Supplementary trunk and line work station	trI	RCA/Retire Service Uplink
trO	(STLWS) 16mgs	trJ	RC/Retire Adminstration Center
trP	Supplementary trunk and line work station	trK	ALU/Repair Service Bureau
trN	(STLWS) terminals	trL	Maintenance
trR	Office network printer	trM	Bell Tree A
trQ	Switching control center remote charge and verify (SCC-RCV) terminals	trN	Local RCV
trR	Repair service access/switching	trO	Maintenance Control Center/Switching Control
trS	Subscription testing (SCB-ALT) terminals	trP	Control System (MCC/SCS)
trV	Switching control center remote charge and verify (SCC-RCV) terminals	trQ	Maintenance Control Center/Switching Control
trW	Low-density tape device, newer g16Q	trR	Control System (MCC/SCS)
trX	High-density tape device, newer g16Q	trS	Line ID
trY	Low-density tape device, revised after 16	trT	sterIO
trZ	Network administration center (NAC) terminal	trU	sterIO
trZ	Trunk switching center (TSC) terminal	trV	Special logic device, COP 1, revised
trZ	8 line VO	trW	8 line VO
trZ	and line terminated on the SM	trX	and line terminated on the SM
trZ	- 512 line set capacity	trY	- 512 line set capacity
trZ	- Connects to the TMS over two 253 time slot	trZ	- Connects to the TMS over two 253 time slot
trZ	- Switches time slots from interface units to	trZ	- Switches time slots from one Interface Unit
trZ	one of the NCT links (not intermodem calls).	trZ	to switches within the SM (for intramodem calls)
trZ	- Global DSU provides low usage service	trZ	- Local DSU provides high usage service
trZ	circuits, such as tone decoders and generators, for lines and trunks terminated on the SM.	trZ	circuits, such as tone decoders and generators, for lines and trunks terminated on the SM.
trZ	- Global DSU provides low usage service	trZ	- Global DSU provides low usage service
trZ	circuits, such as 3-port conference circuits and the transmission test facility, for all lines and trunks in the office (requires 64 trunks).	trZ	circuits, such as 3-port conference circuits and the transmission test facility, for all lines and trunks in the office (requires 64 trunks).
trZ	The SM may be equipped with four types of	trZ	The SM may be equipped with four types of
trZ	Interface Units:	trZ	Interface Units:
trZ	- For terminating analog lines.	trZ	- For terminating analog lines.
trZ	- Contains a solid-state two-stage analog concentrator that provides access to 64 output channels. The concentrator can be fully equipped to provide 4:1 or 4:4 concentration.	trZ	- Contains a solid-state two-stage analog concentrator that provides access to 64 output channels. The concentrator can be fully equipped to provide 4:1 or 4:4 concentration.
trZ	Trunk Unit (TU)	trZ	Trunk Unit (TU)
trZ	- For terminating analog trunks.	trZ	- For terminating analog trunks.
trZ	- Each TU requires E4 trunks.	trZ	- Each TU requires E4 trunks.

Each bit position corresponds to a recent change functional area.

To ensure redundancy, DMENT operating system files are backed up immediately on disk by the SCC.

The first message that defines the password and CLERKID (username for user) is in the Global RC feature. This input message defines a CLERKID and associated password or replaces an existing one. Those that CLERKID and PASSWORD are required fields on the Global RC Schedule view 28.1 in RCV:MENU:APPRC, but more on the later.)

The new field `messagelid=88` (Global RC:PASSWORD=xxxxxx;CLERKID=xxxxxx; [PASSWD=xxxxxxxx;DELETE])

Note: CLERKID can be from one to 10 alphanumeric characters and PASSWORD can be from one to eight alphanumeric characters. CLERKID's password, this message is used with the same CLERKID but with a different password.

SESS SWITCH MODE
RECENT CHANGE #11
SACB, RECENT CHANGE SC-ROLLING

1. SRC NAME _____
2. SECTION _____
3. CLERK ID _____
4. PASSWORD _____
5. MODE _____
6. ROTATE _____
7. TIME _____
8. SPLIT _____
9. SPLIT SIZE _____
10. MAX ERRORS _____
11. VERBOSITY _____

This new message contains:

From the MCC or SCC terminals, and only one password is stored per CLERKID. To change a

password, this message is used with the new field `messagelid=88` (Global RC:PASSWORD=xxxxxx;CLERKID=xxxxxx; [PASSWD=xxxxxxxx;DELETE])

Note: CLERKID can be from one to 10 alphanumeric characters and PASSWORD can be from one to eight alphanumeric characters. CLERKID's password, this message is used with the same CLERKID but with a different password.

SESS SWITCH MODE
RECENT CHANGE #11
SACB, RECENT CHANGE SC-ROLLING

1. SRC NAME _____
2. SECTION _____
3. CLERK ID _____
4. PASSWORD _____
5. MODE _____
6. ROTATE _____
7. TIME _____
8. SPLIT _____
9. SPLIT SIZE _____
10. MAX ERRORS _____
11. VERBOSITY _____

This new message contains:

When the security is set up on the RCV: View menu, one will see:

SESS login
15. WCD80 SESS(1) Item-addn TTYW
Account name: _____
There are no defaults, since the CLERKID and the password are set by craft, but common passwords would be the name of the town, CULLI, MANAGER, SYSTEM, SESS, SC051, SCC, RMAC, ROMack, etc.

If you see just a "<" prompt you are at the "craft shell" of the RCV channel. The 6E login has not been set. The craft shell is running on the DMENT (which is a UNIX environment operating system). System V hasn't. The craft shell prompt is a "<". From this station one picking around all goes seeing the "<E" error message. Here is a list of error messages and what they mean:
?A: Action field contains an error
?D: Data field contains an error
?E: Errors exist in the message but cannot be

resolved to the proper field. (This is the "you have no idea" message).

?I: Identification field contains an error.
?T: Timeout has occurred on channel.

?W: Warning exists in input file.
?H: There are other output message meanings from the RCV channel menu.

OK: Good.

PE: Previous values.
RL: Retry later.

NG: No good.

IP: In progress.

NA: The message was not received by the back-up control process.

When reporting RC messages, it is best to do it in the middle of the day since RC messages are sent to each channel! The SCC is watching and if there are RC messages turning across at three in the morning, the SCC is going to wonder what the hell ROMAC (Recent Charge Memory Administration Counter) is doing at three in the morning.

DMENT

The DMENT (Duplex Multiple Environment Real Time) uses the Western Electric (another name for AT&T) 3B205 Computer Processor. The DMENT software totals nearly nine thousand source lines, one million lines of nonblank source code, developed by approximately 200 programmers. There are eight main releases of this software. They are referred to as generations (1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5). The DMENT OS can be ported to PDP-11/70s or a large IBM mainframe. The DMENT operating system is split both logically and physically. Physically, the software is evenly divided across the five Software Development Systems. There are seven Software Development Systems, all running a 3B205 where the DMENT code was written. Logically, the software is divided into 24 subsystems. To access this from the "craft" shell of the RCV channel, type:

RCV:MENU:SH!

This will dump you to a root shell.

Programming the SESS

When programming the SESS there are things one should know. The first is that one has a lot of power (last keep 911 in mind - it would be foolish to even think of disrupting anyone's service). 911 is there for a reason, it should stay that way! And anything one does is logged and can be watched from the SCC. Note that the night SCC crew is a lot more lax on how things are done than the day shift, so it would be best to do this at night. I could tell you how to crash the system in two seconds, but that is not the point.

here. Destroying something is easy - anyone can do that. There is no point to it. All that taking down a switch will do is get one into jail. (I think SQL is visiting them/had talked to me now.)

RC from Craft Shell on RCV Channel

RC and VFY is complete from the craft shell on the RCV channel. This is called the input text option. It is accessed by using the

RCV:APPTEXT:

This gets a little complex to follow, but the best thing to do is to order the Manual 228-118 225-118-242, for Set 3 even. And last, but the best, is 225-118-243. This book is only \$134.83. What a deal!

RCV:APPTEXT:DATA[SUMMARY],
NSUMMARY[VFYIMMED;VFYEND],
[VFYIMMVAL;VFYSMING],
[DEVICE=ISTDOUT|RPOPPN|FILETYPE],
FORM=...DATA,FORM=...END;

DATA: This is for more than the RC operation in the same command.

FORM: The format that is to be used.

SUMMARY: Turns on one line summaries on the read-only printer (PCHP) (DEFAULT).

NSUMMARY: Turns off one line summary logging by the ROP.

VFYIMMED: Prints out verify (VFY) immediately, does not wait for session end.

VFYEND: Prints out at VFY's at session end. This is the DEFAULT.

VFYIMMVAL: Prints verify output in name-value pair format. This must be preceded with a file (see DEVICE).

VFYSMING: Mashes output into screen size image (DEFAULT).

DEVICE: Refines verify output to a device after its name is seen.

RPOPPN: Send verify output to the ROP.

STDOUT: Send verify output to one's screen (DEFAULT).

TTXT: Send verify output to any valid thy (such as thy and thy) that exists in /etc. You must use the thy name, not thy number.

FIL:E: Send verify output to a file in "/root". The file will be prefixed with "HCTX", and the user will be given the name of the file at the beginning and end of the APPTEXT session.

END: End of message.

If the parameter is not entered on the command line, it may be entered after the APPTEXT process begins, but must be entered prior to the first "FORM" statement. Here is an example of a MML RCV:APPTEXT.

REAPPTEXT:DATA[...&VFY=SET
&DEVICE=ISTDOUT|FILETYPE]

The 241 may look strange at first. It may help getting used to the basics first. To just VFY phone numbers, just do:

RCV:APPTEXT:DATA,FORM=
1V6-VFY,TM-5551212,VFY,END!

Another way to send RC to the socket from the RCV craft shell prompt is to use the text line RC input. Here is an example of this:

< RCV:APPTEXT>OK

:LNEW="FEATLIST,FEATURE=&ICWD";OK

:LNEW="FEATLIST,FEATURE=&ICFV";OK

:NEWI OK

:CLUSTER="12W2" & "VFY";OK

:VFY;OK

:FORM="12W2" & "CHG";OK

:VFY;OK

:CLUSTER="LEARN";OK

:LNEW="FEATLIST,FEATURE=&ICWD";OK

:LNEW="FEATLIST,FEATURE=&ICFV";OK

:NEWI OK

:CLUSTER="12W2" & "VFY";OK

:VFY;OK

:CLUSTER="LEARN";OK

:VFY;OK

:OP-AAMA:SESSION[ST1,ST2];

This command will request a report of the current or most recent automatic message accounting (AMA) tasks ST1 and ST2 are the rate streams.

Pulling Up Out of Service Lines,

Trunks, or Trunk Groups

One may want to pull up all the out of service lines, trunks, or trunk groups for many reasons. I do this from the craft shell as a PUS command.

This command ends with a "quit" ("q").

OP-LIST,LINES[FULL],PRINT[*list*][*list*[*list*]]

OP-LIST,TRUNKS[FULL],PRINT[*list*][*list*[*list*]]

FULL: All temporary and pending are printed.

Note: FULL is not the default when reporting this command.

PRINT: Print to the ROP in the CO.

<OP-LIST,LINES[FULL],PRINT[*list*][*list*[*list*]]>

<OP-LIST,TRUNKS[FULL],PRINT[*list*][*list*[*list*]]>

list: This is port status to match against the specified DEFAULT, moreover needs strict.

To access this shell from the RCV channel

get shell type:

RCV:MENU:APPRC

at the "<" prompt.

British Credit Houses

In 1994, the British government passed the Data Protection Act in order to allow any individual to obtain copies of computer records which any company or organisation may have of the individual. Technically, we shall be able to see exactly what was being held on them and subsequently be able to correct any erroneous information.

We hear these stories of people who have been turned down for a job solely because they have registered their credit credentials. However, if the records mistakenly say otherwise, you are completely in the dark.

In the United States, just about everyone knows about "importance of craft history," and checking up on that usually purely a matter of course. Here in England, however, individualists are completely unaware of any of this. In fact many companies here are unaware of their "heritage," organizations performing the same functions as, say, TEW, exist here almost no one would know anything about them.

There are six main credit reporting agencies now in England. For a sum of one pound and a letter of reference, your full name, date of birth, addresses for the last five years, and your signature, you can receive prints records of everything they have on you. These records show my loans you have been out, credit cards, you have received (with their numbers and credit limits), credit checks which have been run on you, and all county court judgements you may have against you. Some will even show how you pay off your credit cards. By showing if you paid off the full amount each month, if you paid off in time, and even if you used it at all.

Now then, the flaw in the system is that information you is not stored by anything as obvious as your name, social security number, but by your address. Furthermore, when you get a copy of yourself given to it, you will not know exactly who else who happens to have the same information but also that of anyone else who happens to have the same address. This means that not only do I get credit based in that address. This means that not only do I get credit information on me, but on everyone else at those same addresses! In other words, I get to see all of their credit numbers, dates of issue, and credit limits!

OK, so where is this useful? Well, your fourth mistake probably already thinking of various uses for this information. Right, suppose I want to get information on you. All I need your address.

June 29 I do a credit search on myself, but say that there only find it in my former address. In the last month or so and prior to it I had it all the same address, which I used at the time of my marriage. When I get the replies, I have at your credit information, which I now have limited by lots with last numbers crossed out and numbers with small initial letters and numbers etc.

Step 5 is to write to each of the credit card companies and bank companies etc., and ask them in writing all information they now have on the person whose credit information you now have. They're entitled to give you all the information they have on file. Step 6 is to get your credit report from one of the three major credit reporting agencies. This information may include things like just what it was you bought and the credit references they used to establish that you were better in the first place.

You will see that you can quite quickly begin to piece together, building up a bigger and bigger picture of the individual who you are investigating. You can also get addresses of firms. References of telephone, post and telegraph bills by saying that you suspect they have been going missing and certainly sending duplicate bills via different address.

To get a driving licence is just as easy. All you do is complete the application form and add a note saying that you have lost your previous license and you want a replacement. You must give full name, date and place of birth, a signature, and six photographs. Also, enclose a letter saying that you want it mailed in a different address, far the one you had at that time; you suspect mail is being mislaid. Doing this, the original license is still valid (unless it has the same name and same address, so before mailing again will never be aware of this). Incidentally, a UK driving licence does not have a photo on it and a social security number is almost never asked for.

With the driving licence you can then open a P.O. Box which has no connection with you. It has another person's name and address associated with it. Incidentally, a P.O. Box in England offers air privacy - however, since you cannot afford to be given the name and address of the outer (and the post office have to give it to you. I have been told of one post office which checked up on people applying for P.O. boxes by actually calling around to see them.

The individual, sooner or later you will start getting information about the bank details, account numbers and sort codes as well as any mortgage information etc. When you do this person can sustain some real damage. With a little bit of know how you can open a bank account and your at the bank information is now sent to the P.O. Box. You're now in a position to begin setting someone else's credit without them even knowing!

The way that things are set up means that it would be extremely difficult for them to change the system. Luckily, very few people know about this, so it's not an interesting question to ask.

I recently messaged around with our school's new network. It is run on seven IBM PS/2's. Each workstation is a 286 and the servers are 486's. There are three networks, each networked with each other; it is all run on a fiber optic Token Ring network. Huckle, this system is so easy it's strenuous to believe. There are three ways to do it. All three ways are equally easy; it just depends on what you want to do.

After booting up, the system displays a dedicated picture of a rose in the background and asks for your name or number. Students use their student ID numbers as their user name. The teachers use their own names. The administrators use Administrator and

But this trick (as teachers thought) will not have password on the system account. If you try to log in as administrator, it will ask you for a password. I don't know what it is. But if you try to log in as system, it will beep and you're in, password free. You have to be careful that no administrators are nearby, so that because

is only made when the sysop logs in.

Note that once in, you will get a large menu with all the choices. They consist of various sysop functions, from ADD/REMOVE user account, ADD/REMOVE file, Change password, etc. To take the edit and make user account features. Editing an account is very easy. It asks for the user's name and grade, etc. This info is all available by pressing F1, which

guess you a long list of extra info, using their name, and your number and grade. So just enter what you want and you have them over on your desktop. Edit away. Making a new account is the same, except you make up info instead of using real information. Make your own skype user accounts. Why not? The skype account that you are in can do anything you want it to do.

up. Press Ctrl+Shift+C and Ctrl+Break to terminate the batch job. There you go! DOS looks suppose working in its own set of the stuff about "opening ring into network" or whatever. Then begin the batch. If you break before this, you will only be able to mess with the last tried file, not all the files. On the system I was working on the local drive was C:\

The structure follows a strict modular structure, with each module having its own file and directory. The files are organized by function, and each function has its own set of files. The code is well-structured and easy to understand. The modules are designed to be reusable, and can be easily modified or extended. The overall structure is clean and professional.

The names of each user's directory is the user's name followed by a slash and a three-character extension. For example, one user (numbered 8344) has directories called 8344-001, 8344-002, etc. The underline characters (U, N) fill up the eight-character name, but then they might also have a three-character extension as well. For example, one user (numbered 8344) has directries called 8344-001, 8344-002, etc.

high school hacking

the same format. A teacher named Mrs. Rosenthal looks at the logins and password files in the /etc directory called ROSENTHAL. Interesting to say the least. Enjoy hacking this system just as I did at the windmills this nethack guide.

When 20 mess around with it, you have this list for your school and all an account of these 20 students, just because they're in the system. When the systems are set up, and when users are added, they all get the default password. On our systems, the password is a DOG. So first, you pick a student number. These can be gotten in many places so you don't have to even guess. Look

all have the ID number, get lost in the index, etc. Note you beg in using that number. All the password prompts, etc., the default password. The easiest way to figure out the default password is to simply remember what it was the first time you logged in as yourself. Changing the password of the account you are using is simple. It's a choice from your menu structure.

You have found your own password and it doesn't make which persons you meet just going up to a terminal somewhere left without logging off and changing the password. Also, shoulder surfing is not here, especially since most users are computer literate. Most will even tell me their password. Like when they change it, they tell me what it is ultimately.

If you are not as a student, not a sysop or whatever super user, you can still do anything you want, although Go to Microsoft Works, which usually comes with the system and is on everyone's menu. You can then have any file you want. I am still trying to find the password files. Another nice feature of Microsoft Works is that

run external program choice from the first menu. "DOS prompt" is one of the choices. If you run it, you will be in a full DOS shell. You can do anything you want. You can do the same things you could if you broke the batch file while booting up. You might have some drives that you can't log into. It depends on the restrictions of the user that you are using.

There is a near directory called Analog and Analog2. There are files called "log, where" is a number. These files have various things in them, assume they are some sort of macro or something like that. The ones I looked at seemed at time string and such. The time "5:" and some kind of time string and stuff like that. But it also lists the user's most downloaded

and drives. Like if it has z:b:, that user has access to that drive a through h. The directory listed in there is the user's work directory where all of their files are stored. I hope have helped to open your mind to hacking local school networks. These can be found by walking around the school looking into windows for a PSL or computer lab. You can then just walk in, sit down, and hack away. If for some reason someone asks why you are in there, say you're there for your history class or whatever.

MEETING ADVICE

Following the discussion at the November 2800 meeting in Washington DC, we have received several suggestions on strategies and ways of preventing problems in the future. We are printing two of those here.

Following the discussion at the November 28-30 meeting in Washington DC, we have received several suggestions on strategies and ways of preventing problems in the future. We are printing two of those here.

If they nail you in a mall, they can DS everyone by saying that you are a young offender, urban terrorist, drug dealer, or something. The fact that most of us in the underground community are young doesn't

While we must make the contributions for sharing their thoughts, we have to point out that neither piece really captures the spirit of our 2600 meeting. While the first article contains good suggestions and valuable tactics, it could also give the impression that the primary reason for our meetings is to outwit and defeat the authorities who happen to be present. While this feeling may exist, and is certainly intensified during harassment campaigns, the main reason for our gatherings is simply to get together, meet people, and show the world that we've got nothing to hide. The meetings are not acts of civil disobedience. Nor are they forms of glorified warfare. If, however, the authorities step over the line, we are prepared to make it an issue in a civilized and mature manner, see Was proven. In Washington D.C. Otherwise, we bear no animosity towards people in uniform.

The second article comes from a journalist who suggests what he terms "Reinventing 2600 meetings. Again, many of the suggestions are sound and worth pursuing. But our meetings are flagrantly informal, to the degree that any agenda or form of organization would be largely alien to us. Hackers exist best in an unstructured environment and it would be wrong for any of us to try and change that. What we can do is show the world that our unstructured existence, both at the meetings and on computers, is not analogous to other

by Parity Check
The recent disruption of hacker meetings by law enforcement agencies in the United States has gotten me to think about security in public places. There seems to be a misconception that since you are in a public place, the cops will be less inclined to harass you because of bad press. Nothing could be further from the truth. The officials have public relations people that could convince the average population that the people is, in fact, the devil himself. Then again, considering the average Joe Cool, it's relatively easy to do.

by Parity Check

One thing that will tip you off as to someone's intentions is the body language. Most of us don't realize it but we constantly give indications of our interests and internal emotions. Probably the most expressive area are the eyes. This is why bodyguards wear dark glasses. Except with very good training and practice, it cannot be stopped. Look it up somewhere in a book and use your gut feelings.

Set up a danger signal with your people. You can have the simplest of hand signals to a wireless mic in your friend's collar that transmits to your walkman "playing" George Bush's greatest hits or something. Pick your

strangers walking around the mall. Have them come in a couple of hours before you and make places at the food court, rest areas, or whatever and start talking with each other basically looking like John Q. Public, blending in with the background. Their job is to watch the watchers, look at people who are around and look for stakes at your group. They are your source of intelligence on the environment around you. If you get advance warning of a build-up in the cop to Joe ratio, then your chances of confrontation are far less.

respell: Who are you going to trust? Trust a responsible looking gentleman in uniform, or that last line of defense against anarchy? Or that rather smirky looking kid in jeans who's carrying all those illegal looking devices? Much too young to be on his own, I'll bet he has a police record. What's he up to? He probably wants to steal my wallet! That'll teach him! (Get the point?)

First of all, don't call a meeting on the fly. Plan it. Go there even before spreading the word of the meeting and look around. Draw a map if you have to. Look for exits, note where they are, how many, etc.... Your meeting place should have 360 vision all around to see trouble coming up at you. If you know what's coming up at you, you'll have more time to react, hence more time to make the right decision for that situation.

You might want to consider having a

ism
ion
ian
soc
con

Another way of creating confusion is to give them a copia. With luck, they might think it's a good insight. This however might bring more harm than anything else since they might lose it and forget (at you).

Running the radars they have. It will not last long as they will resort to backups and headlines but it will give you a couple of seconds.

The methods available to create confusion are countless but you will want to weigh the sequences of your actions. Firing up a half dozen tactical radios or

On the lighter side, nothing would be done, sounding the flood alarms, throwing balloons from another position, sending a bucket of ball bearings sailing across the room, a water pistol filled with crazy glue, turning off all the lights, toying with the PA system so that the volume is real loud, or thing that will create general mayhem.

Your meetings are being disrupted. Illegal searches and seizures are taking place. You're being treated like a criminal simply because you are a member of a certain group. You're being intimidated, harassed, or even detained without being accused of a crime. Your constitutional rights are being infringed. If these things are happening to people in your group and you're not getting any press coverage (or any coverage you do get is biased in favor of official and corporate sources), it's time to start developing a relationship with your local media. You need to let them know your side of the story. Radical, "alternative" websites will be more sympathetic, but there are ways to work with the "mainstream" press too, so don't ignore it. Keep in mind that a majority of reporters are liberal, even though their employers are not.

isometry training to fall back on. You have your guts and your knowledge. The one that resists the fastest and the weakest wins.

economic training to fall back on.

OJ have your
one that resists

WRITE FOR 2600!

2600 ARTICLE
SUBMISSIONS
PO BOX 99
MIDDLE ISLAND, NY 11953
INTERNET: 2600@well.sf.ca.us

FAX: (516) 751-2608

Remember, all writers get free subscriptions as well as free accounts on our voice mail system. To contact a 2600 writer, call (516) 751-2600. If you're not using AT&T preface that with 10288. Use touchtones to track down the writer you're looking for. Overseas callers can call our office (516) 751-2600 and we'll forward the message.

Printable Letters

Mall Fallout

Dear 2600:

I just finished reading the article on the trip that went on in the Pentagon City Mall and I am appalled. It seems that the government feels that all hackers are either pirates or dark sides, "there in reality only a few hackers are from the shady side and many of the pirates are not real hackers." They seem to forget that many of the people who do things like Unix security (or any form of computer security for that matter) got their start in hacking. The best way to fix holes in security is to find them before someone else does. The extent of hacking goes much further than this box; it just seems to me as if the "officials" (and I use the word loosely) get scared if someone know how to do something besides run WordPerfect.

Windows, or Linux 1.2-3. I feel that the actions brought about by the Secret Service and the Mall security guards were extremely uncalled for and I stand behind anyone out there who goes out and fights it.

The Knight of Ni

New Jersey

The unpleasant incident which occurred to the attendees of the 2600 meeting held in Pentagon City Mall in D.C. is too upsetting. If the mall cops hadn't bothered the meeting, they might have caught a few spectators or someone who was clearly breaking a law.

The news of the incident spread fast, though. I first read it on the Internet, then in the zone. I think the hackers did a good job when they contacted the media (*The Washington Post*) and several other organizations (EFF, CPSR, ACTU) after the incident. Spread the word around, let more people know, and maybe we won't have any more chances of dealing with the S.S. men in our local mall.

Keep up the great work!!

Knight Kloss

Atlanta, GA

The DC events are a perfect example of what happens when hackers stick together and are their resource. It also serves as a model of what can happen when authority figures overstep their boundaries and then try and cover the whole thing up.

Beginner Questions

Dear 2600:

Hi, I am just beginning to hack and enter the phone world. I was wondering if you could suggest some good literature I could read that would better understand stuff for me. I recently got your "Scoops" book. Well, Pizza Maker, those "locks" are just

1992 edition of 2600 Magazine from my uncle who works at Digital. I liked it a lot, but I didn't understand half of the terminology and some of the basics. Oh yeah, I read your "Hacking W/WIV"

article and found it quite useful. I tried out the idea of building a trojan that would seal the user file. I built it in C, and it ran for Searchlight systems. After I downloaded the file, one major problem appeared. Apparently, Searchlight uses the Unix method for encrypting passwords in files and I can't get at any of them at all. What do you suggest I do? JC

Canada

We're constantly printing reviews and interviews of hacker reading material. If you keep reading, you'll get caught up fairly soon. If the system you're after uses the same method of encryption as a Unix system, you can look for a Unix password cracker that will run on any PC.

There are lots of them out there and they can be modified to go through dictionaries, common passwords, words with numbers attached, and almost anything else.

Dear 2600:

I know you must be getting kinda sick of letters from me saying they're just beginners and they want to ask some really stupid questions you're almost embarrassed to answer, but... I was reading a file for beginning hackers and the author warned against using calling card numbers, saying something like, "If you do, you will get caught sooner or later, no matter what."

Well, because nothing like Telnet or Tymnet is local from here, using calling card numbers is about the only way I can get toll-free long distance. So I was wondering if you could explain to me the general security procedures around this and how one would get caught. I know virtually nothing about it and I'm eager to try some numbers I have.

Dial Tone

Nevada City, CA

There's nothing stupid about asking a question if you don't know the answer. It's a lot simpler and so ask or, even worse, not to answer if you're a beginner. As far as calling cards, quite simply it's a bad idea because the phone number you call from is always printed on the phone bill. We suggest you find another way onto the net, like possibly going through a school and hopping onto the Internet.

Defeating Hardware Locks

Dear 2600:

In the winter issue, The Pizza Maker Hacker asked about "those exotic parallel port hardware locks". Well, Pizza Maker, those "locks" are just

little boxes sitting on your machine waiting for a signal from the program to ask if it's there. Let's say your program expects that little nuisance to be plugged in. It sends a signal to the box like "Hey, are you plugged in?" If it is, the box replies, "Yeah, I'm here. Go ahead" and the program continues execution. If the box isn't there, we can guess that the program says "Hellooo? Where is your?" and after a while decides that you aren't authorized to run that program on that computer.

What would happen if you "shared" one of those annoying little plugs between two or three machines? Like, what if you combined all the same pins on each machine and connected the three into the corresponding hole of the connector? If you're looking for a way to defeat the darn things, try that. It's all I can think of.

The Public

Dear 2600:

I notice that several of your readers have written to ask about hardware keys, devices that attach to a parallel port and come with many popular programs, as a form of copy protection. There have been many complaints made about these devices, and people have asked if there is a way to bypass them. There is a company in Canada by the name of Safesoft Systems Inc., which sells programs to defeat the hardware lock security found on many programs. Their address is: Safesoft Systems, Inc., 202-100 Concordia, Winnipeg, MB R2K 4B8, Canada. Phone: (204) 669-4639; fax: (204) 668-3566. The programs they sell load TSR's and are designed to fool specific software packages into believing that the hardware key is attached. I hope this may be of help to other readers.

Arfright

Fullerton, CA

Telco Fascists

Dear 2600:

About six months ago, I tried to set up new phone service for an apartment I had moved into. I used a different name than I had previously had my old phone under and told the ms service person that I had not had phone service before. What followed was an abusive and degrading interrogation for still their "normal procedure" now is to demand information. I wasn't "suspected" of anything, but I still felt their "normal procedure" now is to demand both one's Social Security number and one's driver's license number as well as whose one does for a living. By the time I was through, she was demanding both that I give her my landlord's phone number so they could "verify" me, and sit down to their office and uplock identification to them.

Their demand for the Social Security number should be a violation of the Federal Privacy Act of 1974, since they are for all intents and purposes, the government - at least they are a monopoly one has to use. Maybe Clinton will appoint judges who will take individual rights and privacy a little bit more seriously....

I waited about three months, then phoned ma again to set up service, this time for a friend's place. I had phoned ma from a fortress phone previously - maybe that helped foul it up). Even though I had used a phony Social Security number for my previous account and had service connected without them asking for any further info, except for a phone number where I could be reached.

Maybe ma's aim is to keep people from running up huge phone bills and skipping. That may be the case, but the demand for both Social Security number and driver's license number amounts to a drastic erosion of privacy and a total violation of identity.

I'm curious if you know if anyone has brought suit against ma based on the Privacy Act regarding this (in California), and if you know if other Baby Bells are putting new customers through the same shit. I'd like to get info on this from other readers.

I'm curious if you might also have info on jail addresses for political prisoners locked down for the heinous crime of hacking.

NA

Sacramento, CA

Dear 2600:

It also seems as if they don't really need a real member based on your experience. We do have some prisoners who subscribe (not imprisoned for hacking as far as we know), and, if they want, we will give our their address here or in the Marketplace. We won't give out addresses without their permission, however. Read on for a letter from one of our prisoner friends.

Dear 2600:

I have an unusual question about my phone system. I'm one of your few subscribers who is currently held in prison (I hope), and the phones I have access to seem to be restricted lines, allowing only collect calls. I have been unsuccessful in placing toll-free calls (1-800) or getting another carrier (10388).

Since there are many phones in this same institution, I assume they are all a part of a PBX or similar system. My question is this: how can I determine what system they are using, and once I do, what sort of vulnerabilities do you think it might have? I estimate about 50 of those collect-only phones in the institution. Some have numbers, but they don't accept calls.

Do you have any info on typical prison systems, or what one can do on a "restricted line" that only allows collect calls?

M

Our Winter 1992-93 issue had some info on prison phones. It's not likely that your system is part of a PBX since prison computers have a class of service for prison phones. Then it, while there may be a PBX in the prison, it's not typical for payphones to be hooked into them. It would be nice,

but it's not very probable.

Info

Dear 2600:

I just purchased your wonderful zine and find it quite interesting. I have had a PC for quite a while and concentrate mainly on software piracy and a substantial bit of programming utilities for my own personal use. Ever since receiving a modem, I am fascinated by the limitless applications that the phone service has to offer. In Volume 9, Number 2, the article on Voice Mail Hacking prompted me to go to a payphone and explore using the numbers provided.

If you have a stolen calling card number, AT&T now offers a great service called Public Phone 2000. It's a complete terminal allowing you to hook on the spot without carrying your own gear. Just dial a system's number, enter your stolen PIN and proceed. It can't be traced back to you because the card's too young to begin with. The only problem is that you can't retrieve data, but you can test a system and perhaps set up some back doors. The terminals also come with a phone jack for your laptop if you choose to do so.

John Wesley Harding

New Jersey

If you're not overly paranoid about the terminals having little cameras or about having your data captured somewhere else, this may just be the service for you.

Dear 2600:

I live in Los Angeles, and I have discovered some strange little "quicks" in the phones here. First of all, whenever dialing any prefix (at least in the 310 area code) and 0002 (i.e. 474-0002, 399-0002, etc.) you will receive what sounds like the high end of a loop. It even has those little pauses every now and then. But I'm unable to verify if it is a loop or what. Also, any prefix and 110 will give you a 310 bond carrier. This seems to work in both 310 and 213 area code. Just thought I'd notify you guys.

Frian Man

Los Angeles

The 0002 is not a loop. It's a 1004 zone tone from Joe. We don't know about the carrier.

Dear 2600:

First off I want to say that your publications is one of the best through the press. Next I have a question. I am hearing a lot about this Summer lock article. What issue was that in? We've only been doing for the ride since Autumn 92, and I'd like to find back issues of interest to me. Do you have an index made up, a kind of reference guide to 2600? Real a comment about Count Zervi's article on COCOT photos in the Autumn 92 issue. Through western and central Washington at least, I have noticed a lot of the Texaco stations. phones are COCOTs and they work with no security whatsoever. A simple 1-800 wait procedure works, no keypad lock-out and

no make-shift. Other 2600 readers may want to look into Texaco stations in their area.

Static

Washington

Unless all Texaco stations use the same COCOT vendor, it's unlikely that you'll find their cellular phones at those stations. But if you can figure out where these COCOTs are coming from,

you'll find them in all kinds of places. The networks could be costing these new phones - the phone itself or the people who distribute the phones. Both of these bits of information should be on the phone itself. It's important to realize that playing with COCOTs can be more dangerous because sometimes the actual owner of the phone is physically close to you while you're playing games.

Concerning the Sistrix article, the issue you were in Autumn 1992. And our long-awaited index is to be done later this year.

Dear 2600:

I realize that 2600 is an open forum for free speakers of all types. I think this is a great policy for a national publication. Point it all, let the readers sort it all out. Great. But where do you draw the line? You can't print everything submitted. My concern is, is 2600 the right place for cable TV desmodem/converter box info? The back of Popular Science is full of such stuff. Your spon is informed me that they "know exactly what I want higher frequency for" and flatly refused to sell it to me. They did sell me the auto dialer. I half expected to find the insides full of epoxy, but it was clean.

In regards to using a switch to select between the stock crystal and the real box 6.553 kHz crystal, I say great! The added capacity of the wires and switch will lower the frequency of the crystals. Since the 6.553 MHz is too high (6.550 is best), this is a desired effect. I also check that since everyone will use a slightly different set-up, the resulting tones will be almost unique. DSP will just have that! These short wires will produce the least change in the crystals, long thick wires the most. Don't go too far with this or it won't work at all.

A phone book size catalog of test equipment, parts, cables, and computers is free from 1-800-472-7273. Ask for the Buyers Guide.

What's the ARAC for 310 and/or 818 areas?

Mouse Balls

To 114, 1223, or 61056. It's also possible 760 or 761 plus four digit night work. Hopefully, one of our many Los Angeles-based readers can help us on this one.

Dear 2600:

Let me start by saying your magazine is a great service to the H.P. community. Now, in regard to your last issue, the Article II Evangelist wrote about the inquiries of Radio Trash. My experience with

them was different. After I told them what I wanted (and convinced them that it was possible to order off a crystal) they refused to sell me the "information wants to be free." I personally would just use it. Also, your readers might find these 800 numbers of interest: 800-546-2580, 800-546-3000, 112800.

MW

Ohio

Radio Shack has apparently ceased to do business from either federal authorities or the phone companies concerning their modifiable tone dials. It's not the first time. Their valuable CPA, 1060 consumer fax register was discontinued because of similar pressure. Fortunately, most of us know of Radio Shack as a reliable source, but numbers are few and far between.

Dear 2600:

The ANAC for Allbuquerque, NM this month is 930-4312. Have fun!

Marian

Dear 2600:

Concerning the DC meetings, the numbers at the mall seem to be divided into. These numbers are, by the way: 703-415-8839, 9840, 9841, but I guess that is no help. But I did get the 9452. So if any of us hear numbers and they can be dialed into. These numbers are: 703-456-9554 and 9452. So if any of us hear the phones that we see right in front of the Metro Galleria ring then we know to answer.

Freedom of the Press

Dear 2600:

I have been wanting to lie (letter of complaint) to your magazine since I first picked it up in the summer of 1991. However, I think I pick it up for a very different purpose than many of your readers. Unlike many of your readers, I actually have no interest in telephones nor do I have an interest in hacking computer systems. I do wish the rules were lower for long distance calls and I firmly believe that they can be, however I do not expect that to change anytime soon... or later.

Rather, I pick up the magazine (at a local BookStop) because I think the substance of its existence is wonderful. If it weren't for the first such rules as the Freedom of The Press and the Freedom of Information Act, there would be no way for your publication to exist. It would have been shut down some time ago. And if Bruce Sterling's book is any indication, there have already been many "mug publications" shut down by opposing forces.

I admire your writers greatly. They have the courage to speak their minds without fearing reprimand from the government or the local police (or even mall cops if your last issue is any indication). I

would encourage everyone to keep writing... keep sending articles and locs. I agree with the statement, "Information wants to be free." I personally would not break into systems to get information. But that is just me. I have no interest in doing that. I have to ask for some funds though, or something that I have been contemplating.

You see, I am a person who is fascinated with publishing. I believe in the printed word ultimately. To me, a slightly muddy fly lying on the street with giant words on it that say, "Help Me! You factors" is much more powerful than anything in the world. If one person glances at that piece of paper on the street, even if he doesn't pick it up to read the rest, he has still heard that message. In his mind, those words will stay around for a little bit. This is kind of fascination with words and communication in this manner. I believe has been somewhat lost because of our society's fast pace and growing impatience. It is a lot different from a television where a show comes on and the host says, "I would like to talk to you about..." Cliff Baldwin biacrats are familiar in that aspect depending on whether you give a subject in a message. If there is a subject provided, a person has the choice to skip the message (I know I do when I am in a rush). So if we relied on these other methods, messages could very well never be heard especially with how quickly the media and the populace is.

Having said that I find that I feel restricted in what I say. I find myself in constant fear that the "wrong type of person" might read the flyer (or article). For instance, I think the crime situation is horrible. Of course it is horrible everywhere, however I mean it's horrible in the sense that we have two serial rapists running around this area and they have been running for the past two years. As far as I know, there have been no arrests (real or imagined) to catch them. Furthermore, I stick to that opinion because we have had two terrorist killings in the past year... accompanied with a lot of bad PR... and each time the killer was caught within two weeks one of them was even across the country. It sickens me that I have to worry about my fiancée (two more or less lives) in one of the target areas of this region when she's alone at night because this bastard police department does absolutely nothing about it. If they are doing something it's certainly not tangible enough for us to know. I was so mad one night that I wanted to publish an article blasting the local police department and writer in this bastard police department.

out it was me, would there be any credibility? I am a citizen and they have the power to do whatever they want to me.

Another instance, I have been waiting to write you since I first picked up 2600. However, I have been afraid of what's going to happen to my name. I work a small part in the giant scheme of the publishing business and I really don't want my

name in anyone's file, and I don't see how anyone would. I have inferred that 2600 offers free subscriptions to writers. I certainly have a lot to say on the matter of speaking out and the freedom of publishing, which I would guess is related to what you do, but I am scared of my name being in it. If I was ever offered a free subscription, where would I send it? A P.O. Box? Registered at the U.S. Postal Service?

I don't really believe that a file would be started on me. I believe that my name would be in the 2600 file. The funny thing is, there is nothing illegal here. I am literally offering an opinion but it's almost impossible to do under a veil of anonymity any longer. I have honestly never participated in anything that was considered illegal (aside from the usual squatting, violations and accidents that were my fault but who does I have those?). However, it is my opinion that my opinion is dangerous. It is my opinion that we have to change under scrutiny. I would subscribe to 2600 with no problem, but it's that rear of what happens to my name and who wants to know about me that scares me.

I am sure that's the way that they (meaning the opposition in general) would rather I be. Heck, it's one of the reasons that talk radio is booming! Anybody can call in and be quite anonymous with their opinion.

What I would like to hear your thoughts on is how did you just come upon the decision to just not worry about it. 2600 is a publication that literally sits on the edges of freedom of speech. You are giving mega billion dollar corporation with ties in the government to use these influence to squash you. Yet they don't do it. Yet you aren't scared. Why?

You would probably say that my fears are a teeny bit blown out of proportion. But are they really?

Mike

Fear. This is the answer. Strength is its numbers. It's because we have more friends than enemies that we continue to survive. It's also extremely important not to let our enemies get the upper hand by either alienating former or, worse, allowing us to imagine what they might do to us if they could. Neopromotion is the worse kind of all and is no reason to limit publications.

Equal Access?
Dear 2600:
I just realized how stuck-up universities are. I will be attending Philadelphia College of Textiles & Science in the fall of '93. This college does not have an Internet connection. So, I decided to call Temple University and ask them if I could get a non-Temple student account. I'll even pay for it if it comes down to that. They obnoxiously refused. How much would it really cost them (as a university) to set me

up an account? The reason I did all this is because I wanted a legal account, and not just another hacked one.

Fortunately, judging from your address, you were able to overrule it. We can understand. All universities' obligation to allow "outsiders" access to their systems for what they feel is their people aren't going to just sit back and do nothing. We could see before people have the fundamental right to hitch a ride onto the information highway. Just above I'll tell the driver.

Help Needed

Dear 2600:

I have many of your magazines and attend all of your meetings at the Cinecoop building. I have been interested in building a DTMF Decoder for educational purposes. I found the project in your Spring 1992 issue. After buying most of the parts, I am sad to say that the main IC Chip needed for the project is not easily available to me.

I sent my \$12.50 to the company W.E.B. in Spring Valley, California as you said in the article but the envelope came back to me and said the address no longer existed. I need to get a SS1202 (maybe SS1202) IC chip which is the DTMF Decoder. I have all the parts except that. This is kinda messed up if I wasted my time and money on all the parts already. I should have gotten that part first but didn't know I was going to run into this trouble. Please can you tell me where I might obtain this IC Chip soon? It is the last part that I need to complete my project.

Reuben

NYC

We're checking into it and our readers will get double entendre information. Hang in there.

Cable Potential

Dear 2600:

In response to your request for information on cable television, I know a few tricks. You must actually have basic cable to do these things. The box that selects channels is what controls which channels are unselected, so if you activate a premium channel, then cancel it if you can retain unscrupulous capability by unplugging your box when the signal is sent from the main office. So when you deactivate a channel, make sure there is no power going to the box when tell you to turn on your TV. They usually do their clocking up late at night or in the early morning, so at night unplug the box. You will then continue to receive premium cable channels when the cable company checks your box.

*Master Quickly
It's hard to believe it could be this easy. But it*

certainly wouldn't be the first time.

On Beige Boxing

Dear 2600:

The Phoenix's article on beige boxing is the Spring 1993 issue was interesting. There's another simpler way to get the "monitor" capability discussed.

Get a really old rotary phone. The phone must be of the type that doesn't let you hear the pulses as you dial. (Newer phones and telephone workable phones do let you hear them.) Just install this as an extension on the line you want to monitor and take out the microphone from the mouthpiece. Leave a off the hook and it will behave just as The Phoenix described!

Andrew Sharaf
Brooklyn

Unlisted Directories

Dear 2600:

I just want to say that I think your "zines" is best on the planet. I also wanted to email something you printed in one of your issues. Although I can't remember which issue it appeared in, I was reading about the Com Co circulating special directories containing unlisted telephone numbers. Believe me, this is true. At least it used to be back in B.C.T. (Before Computer Typesetting). I used to work in a print shop that produced these directories. They were printed on a daily basis. Back then we would receive a new list of "changes" or "updates" for specific numbers. Each "page" was printed from a tree of lead type. My job was to find the correct page (alphabetically filed) and update the "page" for the next day's press run. These updates included saluted phone numbers, changed numbers, discontinuities, etc. There was virtually no security so naturally, every now and then, an unlisted number or two was "leaked" into the public domain. I don't know if the same company is still in business. Their name is/was Alexander Typesetting in Indianapolis, IN. Might be a good place for some "digging". Eh?

SDW
Portland, OR

Probably not after this letter appears, but this does raise quite a few potentially interesting possibilities. Anyone have more info on this kind of stuff?

Callback Defeat

Dear 2600:

I just realized how stuck-up universities are. I will be attending Philadelphia College of Textiles & Science in the fall of '93. This college does not have an Internet connection. So, I decided to call Temple University and ask them if I could get a non-Temple student account. I'll even pay for it if it comes down to that. They obnoxiously refused. How much would it really cost them (as a university) to set me

the modem, and waited for the bezel to dial, then I typed "ATA" and hung up the phone. It worked out fine. I would have tested it further but I got sick to a group house.

MJ
California

Life can be like that.

Another Way to Fix Credit

Dear 2600:

I read with interest all of the problems that many readers expressed about messes up credit ratings and problems with the big three credit rating companies (TRW, TransUnion, and Equifax).

I just declared bankruptcy about a year ago and, obviously, my credit rating is in the shitter. The things I have done include getting my free annual report from each of the three companies and then systematically going through and challenging every derogatory item listed in it. When they receive this, they then must contact the creditor and have them re-verify all information in the annual report. The catch is that the creditor has 15 days in which to do this. If they do not respond within that timeframe, the item is deleted from your credit in. I am results reading about the Com Co circulating special directories containing unlisted telephone numbers. Believe me, this is true. At least it used to be back in B.C.T. (Before Computer Typesetting). I used to work in a print shop that produced these directories. They were printed on a daily basis. Back then we would receive a new list of "changes" or "updates" for specific numbers. Each "page" was printed from a tree of lead type. My job was to find the correct page (alphabetically filed) and update the "page" for the next day's press run. These updates included saluted phone numbers, changed numbers, discontinuities, etc. There was virtually no security so naturally, every now and then, an unlisted number or two was "leaked" into the public domain. I don't know if the same company is still in business. Their name is/was Alexander Typesetting in Indianapolis, IN. Might be a good place for some "digging". Eh?

SDW
Portland, OR

Probably not after this letter appears, but this does raise quite a few potentially interesting possibilities. Anyone have more info on this kind of stuff?

Let's face it, the credit reporting agencies run our lives. You cannot even subscribe to the L.A. Times without the obligatory credit check. To opening up a new bank account. Or what about Telexcheck and Teleshock check authorization services? All of these seemingly innocuous services all have the pre-approval credit check and if it happens to be bad, well, tough luck.

Anybody have any ideas? I'd like to see a story about the credit scam in 2600. Keep up the good work!

ES

Hollywood

Check out this issue's story on the British media (page 12). We're constantly on the lookout for more.

Another Simplex Story

Dear 2600:

It was my pleasure to read your Simplex locks article, and it's been enjoyable following letters about them ever since. This is a story about the same security that they seem to give.

The medical school in town has a computer lab which is divided into two rooms. The smaller first room accessible by the hallway has a Simplex lock on it. The second room, accessible through the first, does not. They keep the second room locked via a deadbolt, while the first, although definitely required, is protected only by the Simplex lock.

One night while studying late, I took a break and tried the default combination out of boredom. To my surprise it worked! Having a vested interest in the computer lab I was appalled by their security and showed the operators your article so none of the computers would go for a scroll. It has been five months since then and the combinations still hasn't changed.

Dear 2600:

This isn't the only place on campus "protected" by these locks. I wonder how many more are still set on default combinations.

The Flea

Lexington, KY

Red Box Tones

Dear 2600:

I have a question that I was hoping you could help me out with. First off, I want to compliment you on the terrific mag. I picked up the Summer 1992 issue and I was glued to it until I had read it cover to cover. I particularly liked "On The Road Again: Portable Hacking" and the Demon Dialer Review. It looks like a very handy gadget box. Like you said, it is beyond my means at this time.

I have been using computers for over 10 years now, my first being an Apple IIe that my parents gave me for my 16th birthday. I graduated to MS-DOS-based stuff about four years ago. I have had some experience with many sites on the Internet through a large university computer. I only got more interested in hacking and breaking a short while ago, though, and I haven't been able to do much with it.

I have collected a large number of (unintended) phone-back files from local bulletin boards. I know that blue booking and start are dead, but that red/green is still alive. I tried to make a red box tape (from a fortress) but that was unsuccessful for various reasons. My next idea was to simulate the tones by writing a computer program. I am proficient in C++ and Pascal, but the IBM's sound capabilities are too limited to do MF tones. I am thinking about using our school's recording studio,

which is quite capable. My question is: Can this be done?

What are the exact durations that I need for a quarter? I have heard the following from various quarters:

Elite: 1) 33 ms on, 33 ms off five times repeating; 2) 66 ms on, 66 ms off, five times repeating; 3) Five pulses of 12-17 ms (which I infer can be converted to ms by dividing 1000 by the Freq., in 83-99 ms or so). Which one is correct, or are they all wrong?

PR

Duxfield, MA

For a quarter tone, it should be in the 33 to 35 ms range. So your first choice would be correct. A repeat, however, is approximately 60 ms on and off.

red box tones located on page 42.

Female Hackers

Dear 2600:

I love your mag! Though I'd write easier if never see "females" featured in any way in your publication, is it because there aren't many? And female hackers? I know for a fact it's a "man's world" in hacking circles. Many times I've been teased and even slandered by guys. Most think women can't hack and if they do, then it must be because they look like a d**k or are not very feminine. I wish this image would change someday. I have a daughter who has taken an interest in computers. I'm teaching her what I know. I have loved hacking from the early days of the home brew club in SF. I used to send my brother to the meetings. (Few "women went back then.") I remember my first newspaper. It came in pieces in the mail. It was dumb - looked like a window air conditioning unit with lights, but I loved it! I was hooked for life. Those were the days! I still tinker and build electronic things. Back then we were known as "hardware hackers". Well, enough nostalgia. I wish to know if you know some female or clubs that cater to "the fair sex". I have met many female phone phreaks but few true hackers. Do they exist?

Dear 2600:

I love your magazine. I still find it hard to believe that you actually exist. It's like a dream come true.

Regarding the 800 exchange in the 212 area code, I am wondering if you can make sense out of something for me. Is the 800 exchange as 1175 various combinations of last four digits. I get different results. For example: 8xxx gets me a message that such a number does not exist under the 518 area code. Similar messages are received on other numbers but with different area code. 4xxx gets a 607, 7xxx gets a 315, 9xxx gets a 914, 5xxx gets a 212, etc. Are these calls being routed to a different area code using the 800 exchange? Also, 606, 6064 gets a high pitched beep, 6000 rings for about 40 seconds and then goes dead, 6000 gets a human operator, and 5xxx is simply dead space.

What goes on?

The Snapshot
Brooklyn, NY

The 800 exchange in New York comes off over the plain, since New York Telephone has no offer spread out, the 800's provide a toll-free and different way for customers to reach them using toll forwarding. By the way, that high pitched beep sounds like a modulator or not.

Dear 2600:

I have a question regarding the "Shopper's Guide to COCOIs" article in your March 1992 issue. It seems that when I call the 1-800 numbers to get an unscripted dial tone, I don't!! When the person on the other end of the line hangs up, I get the recorded operator and the error-messaging off hook sound, but no dial tone. Can anyone help?

A-Gal

Florida

phones don't change networks. This is one of those society things we've all gotten to have to work on to a degree. Female hackers certainly do exist. They just hide themselves better.

COCOT Question

Dear 2600:

I have a question regarding the "Shopper's Guide to COCOIs" article in your March 1992 issue. It seems that when I call the 1-800 numbers to get an unscripted dial tone, I don't!! When the person on the other end of the line hangs up, I get the recorded operator and the error-messaging off hook sound, but no dial tone. Can anyone help?

DW

Providence, RI

It sounds like your local central office has a feature that doesn't allow a dial tone to be retained after the initial party hangs up. In other words, you can't pull someone, have them hang up, and挂上 again without also hang up. One reason for this is to prevent exactly what I am trying to accomplish. However, your central office will probably return a dial tone to a phone that's been called when the initial party hangs up, so if somebody calls your COCOI, you pick it up, then hang up, you could potentially get a dial tone.

This number's been around for a while and we've had no problems with it. I'd like to know more about the class of service difference. Our members often have exchanges that don't fit me. Then we hear 600-000-000.

Dear 2600:

I work for a Baby Bell entity. But the best ANAC found it to be a very dependable reliable nationwide AT&T. We'd like to know more about the class of service distinction. Our members often have exchanges that don't fit me. Then we hear 600-000-000.

Non-Stop Phone Phreak
West Coast

This number's been around for a while and we've had no problems with it. I'd like to know more about the class of service distinction. Our members often have exchanges that don't fit me. Then we hear 600-000-000.

Dear 2600:

I have come across isn't one of ours. It's from a well known interconnect network. Not once does this silly

operator answer. They've got the seven digit number you're on, but your area code and class of service! Try it: 103-514-988-

9862. I get about 90 percent success. The digitized announce has a definite east coast accent.

A Special Request
Dear 2600:

The last issue was great. Keeping the government and large corporations accountable is an invaluable and highly undervalued activity. We must all bear witness to misdeeds if we want any justice. In my opinion 2600 should continue this task, along with a smattering of entertainment to keep up the readership. Consider yourselves evil servants of the highest order.

Along those lines, I have a question for you: Has anybody heard of a program or a terminal for the PC to decode the L.A.P.D. Mobile Data Terminal transmissions? I have the frequencies (900 MHz) but the format of the data is beyond me. It's not

simple, just complex. I am sure the vast majority of the 8000 L.A.P.D. officers are there to protect and serve. But the rest must be kept accountable. We need access. Can you help?

Matthew

Los Angeles
California

Yet another project for our Los Angeles readers. They've certainly come through in the past....

A Letter in 2600 Could Change Your Entire Life!

SEND YOUR LETTERS AND COMMENTS TO:

2600 LETTERS, PO BOX 99, MIDDLE ISLAND, NY 11953

OR FAX THEM TO:

(516) 751-2608

ORE-MAIL THEM TO:

2600@well.sf.ca.us

OR SPEAK THEM INTO OUR ANSWERING MACHINE AT:

(516) 751-2600

Please contact me no later than May 1st.

235-118-21x Recent Change Procedures - MENU
Mode
235-118-224 Recent Change Procedures 5E8
Software Release
235-118-225 Recent Change Reference 5E6
Software Release
235-118-240 Recent Change Procedures
235-118-241 Recent Change Reference
235-118-242 Recent Change Procedures 5E8
Software Release

235-118-243 Recent Change Reference

235-118-244 Recent Change Procedures 5E8
Software Release

235-118-245 Recent Change Reference 5E6
Software Release

235-118-246 Recent Change Procedures

235-118-247 Recent Change Reference

235-118-248 Recent Change Procedures

235-118-249 Recent Change Reference

235-118-250 Recent Change Procedures

235-118-251 Recent Change Reference

235-118-252 Recent Change Procedures

235-118-253 Recent Change Reference

235-118-254 Recent Change Procedures

235-118-255 Recent Change Reference

235-118-256 Recent Change Procedures

235-118-257 Recent Change Reference

235-118-258 Recent Change Procedures

235-118-259 Recent Change Reference

235-118-260 Recent Change Procedures

235-118-261 Recent Change Reference

235-118-262 Recent Change Procedures

235-118-263 Recent Change Reference

235-118-264 Recent Change Procedures

235-118-265 Recent Change Reference

235-118-266 Recent Change Procedures

235-118-267 Recent Change Reference

235-118-268 Recent Change Procedures

235-118-269 Recent Change Reference

235-118-270 Recent Change Procedures

235-118-271 Recent Change Reference

235-118-272 Recent Change Procedures

235-118-273 Recent Change Reference

235-118-274 Recent Change Procedures

235-118-275 Recent Change Reference

235-118-276 Recent Change Procedures

235-118-277 Recent Change Reference

235-118-278 Recent Change Procedures

235-118-279 Recent Change Reference

235-118-280 Recent Change Procedures

235-118-281 Recent Change Reference

235-118-282 Recent Change Procedures

235-118-283 Recent Change Reference

235-118-284 Recent Change Procedures

235-118-285 Recent Change Reference

235-118-286 Recent Change Procedures

235-118-287 Recent Change Reference

235-118-288 Recent Change Procedures

235-118-289 Recent Change Reference

235-118-290 Recent Change Procedures

235-118-291 Recent Change Reference

235-118-292 Recent Change Procedures

235-118-293 Recent Change Reference

235-118-294 Recent Change Procedures

235-118-295 Recent Change Reference

235-118-296 Recent Change Procedures

235-118-297 Recent Change Reference

235-118-298 Recent Change Procedures

235-118-299 Recent Change Reference

235-118-300 Recent Change Procedures

235-118-301 Recent Change Reference

235-118-302 Recent Change Procedures

235-118-303 Recent Change Reference

235-118-304 Recent Change Procedures

235-118-305 Recent Change Reference

235-118-306 Recent Change Procedures

235-118-307 Recent Change Reference

235-118-308 Recent Change Procedures

235-118-309 Recent Change Reference

235-118-310 Recent Change Procedures

235-118-311 Recent Change Reference

235-118-312 Recent Change Procedures

235-118-313 Recent Change Reference

235-118-314 Recent Change Procedures

235-118-315 Recent Change Reference

235-118-316 Recent Change Procedures

235-118-317 Recent Change Reference

235-118-318 Recent Change Procedures

235-118-319 Recent Change Reference

235-118-320 Recent Change Procedures

235-118-321 Recent Change Reference

235-118-322 Recent Change Procedures

235-118-323 Recent Change Reference

235-118-324 Recent Change Procedures

235-118-325 Recent Change Reference

235-118-326 Recent Change Procedures

235-118-327 Recent Change Reference

235-118-328 Recent Change Procedures

235-118-329 Recent Change Reference

235-118-330 Recent Change Procedures

235-118-331 Recent Change Reference

235-118-332 Recent Change Procedures

235-118-333 Recent Change Reference

235-118-334 Recent Change Procedures

235-118-335 Recent Change Reference

235-118-336 Recent Change Procedures

235-118-337 Recent Change Reference

235-118-338 Recent Change Procedures

235-118-339 Recent Change Reference

235-118-340 Recent Change Procedures

235-118-341 Recent Change Reference

235-118-342 Recent Change Procedures

235-118-343 Recent Change Reference

235-118-344 Recent Change Procedures

235-118-345 Recent Change Reference

235-118-346 Recent Change Procedures

235-118-347 Recent Change Reference

235-118-348 Recent Change Procedures

235-118-349 Recent Change Reference

235-118-350 Recent Change Procedures

235-118-351 Recent Change Reference

235-118-352 Recent Change Procedures

235-118-353 Recent Change Reference

235-118-354 Recent Change Procedures

235-118-355 Recent Change Reference

235-118-356 Recent Change Procedures

235-118-357 Recent Change Reference

235-118-358 Recent Change Procedures

235-118-359 Recent Change Reference

235-118-360 Recent Change Procedures

235-118-361 Recent Change Reference

235-118-362 Recent Change Procedures

235-118-363 Recent Change Reference

235-118-364 Recent Change Procedures

235-118-365 Recent Change Reference

235-118-366 Recent Change Procedures

235-118-367 Recent Change Reference

235-118-368 Recent Change Procedures

235-118-369 Recent Change Reference

235-118-370 Recent Change Procedures

235-118-371 Recent Change Reference

235-118-372 Recent Change Procedures

235-118-373 Recent Change Reference

Controllers Description and Theory of Operation AT&T 36200 Model 1 Computer
Mode
Move
Other:
CIC Select Code 363-002 Diagnostics User's Guide
CIC Serial Code 363-008 AT&T AM UNIX RTR
Operating System, System Admin Guide
MA-50000-01 Input Manual
OFA-50000-01 Output Manual
OFA-50000-01 The RMAS Generic - Provider User's Guide
User's Guide
Acronyms and Abbreviations
(These are entries that are not already listed in the acronym list currently being printed in 2600.)
ADOTS - Automated Toll Integrity Checking
AT&T - American Telephone & Telegraph
BMD - Batch Mode Display
BM1 - Batch Mode Input - TIMERL and DEMAND
BMR - Batch Mode Release
CIC - Customer Information Center (AT&T)
DMERT - Direct Access Mechanism Testing
DSU - Digital Service Unit
DTAC - Digital Test Access Connector
IPS - Integrated Provisioning System
ITNO - Item Number
LU - Line Unit
MML - Man Machine Language
MSG - Message Switch
NCT - Network Control and Timing
ODD - Office Dependent Data
OE - Office Equipment
ORDNO - Service Order Number
OSS - Operations Support System
POVT - Provisioning On-site Verification Testing
RC - Recent Change
ROW - Release Date (Update Database Date)
RTIME - Release Time (Update Database Time)
SMPU - Switch Module Processor Unit
SONET - Synchronous Optical Network
STLWS - Supplementary Trunk and Line Work Session
TFTP - Television Facility Test Port
TMERL - Time Release
TMS - Time Multiplexed Switch
TRCO - Trouble Reporting Control Office
TSU - Time Slot Interchange Unit
TU - Trunk Unit
I give AT&T full credit for this article. Without them, it would not have been possible!

Corporate Speak

R. A. Ryan
Eric Corley
P. O. Box 99
Middle Island
New York 11953-0099

April 13, 1993
Very truly yours,

R. A. Ryan

They just never stop trying to intimidate us with these ridiculous letters! What AT&T seems to believe is that a list of where their offices are ("Is AT&T Hiding Near You?", Winter 1992-93, page 36) constitutes proprietary information. This kind of absurdity may work within AT&T's hallowed halls but we're trying to exist in the real world. The good folks at AT&T should consider joining us there someday. Until they do, they should take note that their threats will only serve to embarrass them and that further threats or attempts to prevent us from printing information will be met with strong legal action. With this in mind, we'd like to dedicate the next few pages to AT&T.

GOVERNMENT BULLETIN BOARDS

bulletin boards

bulletin boards

VIDEO REVIEW

Assorted Videos

Commonwealth Films

222 Commonwealth Avenue

Boston, MA 02116

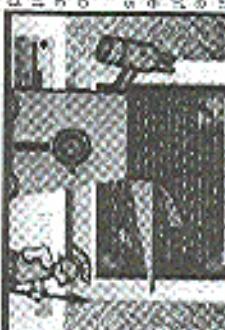
Review by Emmanuel Goldstein

The corporate world contributes a great deal to the lives of the everyday human. Perhaps the most significant gift they offer, second only to global pollution, is the wonderful art form known as corporate comedy.

Wave at seen it in some way. Whether it's a phone company claiming one of their men is worth \$40,000 or a governmental agency saying they believe a raid can actually help a business become profitable, it's all part of the same humor. After all, it is just a big joke isn't it? An escape from reality into the world of the absurd in order to make life more bearable. Art in its true form.

Those of you who wish to enjoy the latest in corporate comedy ought to check out three videos recently released by Commonwealth Films. *We From Mars*, an illustration of a trojan horse. *Lost Control: Digital Software Duplication* is easily the funniest. This 15 minute piece is designed to put the fear of God into anyone who's even thought of copying software.

The story unfolds through the eyes of Steve Roberts, head of a company that wasn't careful enough. Federal marshals conduct a raid and find that, lo and behold, every piece of software is not copyrighted! This could spell doom for him and everyone he's ever known, according to his lawyer who can't seem to say a single positive word. Yes, Steve, the Software Piracy Association did their homework - you're not exactly squeaky clean - out of the hundreds of cases SPA has prosecuted, they've only lost one - you're liable for up to \$100,000 per unauthorized copy of each program, including the ones you've bought - you'd better hope the media doesn't latch onto this and ruin your life even more... Steve does some serious soul-searching ("I had no idea we were in so deep") and realizes that copying a program is indeed exactly like stealing a computer. "For some reason," he ponders, "it didn't seem serious." At this point, the viewer feels compelled to shake the TV and scream at Steve to come out of his corporate coma. But alas, it just gets worse. In a rather patronizing tone, his lawyer says, "Let's



set the basic facts straight and eliminate ignorance." Oh, it only as ifoud.

The "facts" that we are hit with run counter to every instinct a human being could have. The SPA, and anyone who sells for their self-interests, and individual and truck-hunting scammers. Contact Lefand, 2525 S. Wood St., Denver, CO 80219. E-mail: lans@lefan.org.

MUTATION ENGINE: Get the facts in Computer Virus Developments Quarterly. The Spring issue includes the Dark Avenger's Mutation Engine (aka Trojan Horse) as well as a tutorial on how to write one machine. And for those people who can't afford to pay \$500 for a word processor, SPA takes the position that such people simply should not have access. In other words,

admission to technology is solely for people with money to spend. It's precisely this philosophy that has inhibited progress in the past, and will continue to do so to a far greater degree if left unchallenged. Access to this future is something which needs to be encouraged, not restricted.

Software developers should, too. All the action is in this issue, including series, it ought to become quite clear that the SPA position articulated in this film was never about fair compensation. It was simply greed.

The other two films, *Virüs: Prevention, Detection, Recovery* and *Back in Business: Disaster Recovery/Business Resumption* actually offer some useful suggestions. In the most basic being to make backups and keep them offsite. Newsflash. There are a few good laughs in these offerings as well since everything has to be exaggerated beyond believability in order to drive the point home. For example - we are introduced to a dark hacker who speaks to us from within a shadow with a disguised voice. His sole reason of existence is to make our lives miserable. Remember that.

Although we could find little more than service structure to agree with in these offerings, we do recommend them to our readers as a fascinating study of alien culture. As a final example of the utter thoroughness of corporate comedy, the price for these three films (63 minutes total viewing time) is \$138.75. Happy viewing.

2600 Marketplace

WANTED: Early Shredder step-by-step

switching equipment to set up working historical

display. Need 19" relay sets, line filters, distributor

scactors, and individual and trunk-hunting

connections. Contact Lefand, 2525 S. Wood St.,

Denver, CO 80219. E-mail: lans@lefan.org.

MUTATION ENGINE: Get the facts in Computer

Virus Developments Quarterly. The Spring issue

includes the Dark Avenger's Mutation Engine (aka

Trojan Horse) as well as a tutorial on how to write one

single scan with disk. Year's subscription \$75.

Send to: American Eagle Publications, P.O. Box

41017, Tucson, AZ 85717.

DRIVE DOWN YOUR CALLING CARD COSTS.

You can call from ANY touch tone phone

ANYWHERE in the continental U.S. Virgin Islands

are Hawaii and save up to 50%. No surcharge. No

monthly fees. Discount plans available down to 14¢

per minute. Make money with this! T.S.A. P.O. Box

81791 Mandeville, LA 70470.

BODEGA BAY: Turn your Amiga 500 into an Amiga

2000. Comes complete with a 200W power supply

for only \$150 postpaid! Call John at (415) 733-

5158.

INTERESTED IN EXCHANGING HUMAN INFO? All

systems tons of files. Write to P.O. Box 554, 5000

AZ. Vinton, The Netherlands or e-mail:

umng@pdh.hacnet.nl

GENUINE 6.5MHz 1MHz CRYSTALS only \$5.00

each with detailed installation instructions. Orders

shipped postage paid First Class Mail. Send payment

(check delayed 2 weeks) with name and address

to: Electronic Design Systems, 144 West Eagle

Rd, Suite 100, Haverton, PA 19083

FOR SALE: COMPACT Portable SEDX 10mb RAM,

11mb HD, 80MB TX, removable tape back-up, VGA

board, color monitor, internal 2400 baud modem,

three expansion units (w/2 3.5" 80s each), DOS

5.0, manuels, cables, diskettes, 180gb leather

carrying case. Virtually unused \$1500 or best offer.

brought in excellent condition. Will sell for \$300 or best offer (plus shipping). Contact Kurt P. P.O. Box 763, Madras, OR 97740-0763.

DEF CON: The Misfit for the underground. This will be a mindblowing orgy of information exchange, workshops, speeches, education, enlightenment. We cordially invite: gurus, hackers, techno-rats, programmers, writers, activists, lawyers, philosophers, security officers, cyberspace, and all others of the underground will entice in all effect for your entertainment. Spacelab will blab about future computing trends, VR, erosion, hacking and metasploit network administration. Attorneys & civil liberties groups + techro bards - fun. Let Con 1 will be over the weekend in the middle of downtown Las Vegas at the Savos Hotel, May 8th, 10th, and 11th. Contact chargers@charger.us.com or call 1-800-521-4041. United Airlines: 1-800-521-4041 (105460).

WANTED: Latest War discs and Hacking and Phreaking Programs. Please send e-mail to user@182.94.0.207@concentric.ca or write to P.O. Box 11151, Station B, Sudbury, ON, Canada P2B 4S8.

NEW PRODUCT: Telephone Privacy Plus device details: info@stratifiedhacking.com. Phone: 800-377-8770, Buffalo, NY 14228 (716) 697-3476.

NEED TO FIND A PUBLICATION? Know where some are? Let's exchange sources. Confer: tbs@bafar.sabq.org, ICIO, Hospital North Dr, 423 Doring, ID 83844.

MEET THE ESTABLISHMENT: Plan your calendar. Scholarships available. The second annual

international symposium on "National Security & International Cooperation: Open Source Solutions" will take place in the Washington DC area the week

of 2 November 1993. Cyberspace stakeholders and hackers in demand as speakers and to display good hacking pertinent to finding, collating, and presenting

information useful to decision makers. Hackers are a national resource - but the policy makers and business sectors (90% those uninformated by forced need to understand this. Come send your stuff, we're the uninitiated. Have a good time. To discuss further,

communicate with sctc@erols.com or US, call (703) 509-1775, or fax to (703) 525-1775.

Marketplace ads are free to subscribers! Send

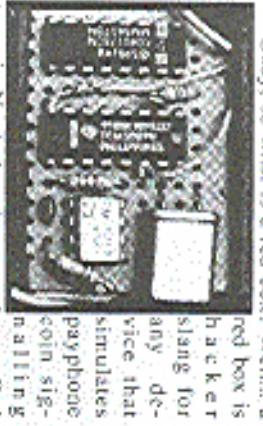
your ad to: 2600 Marketplace, P.O. Box 99, Middle Island, NY 11953. Include your address

label. Ads must be edited or not printed at our discretion. Deadline for Autumn issue: Sept 93.

Toll Fraud Device

We at 2600 are often asked, "What is a toll fraud device?" Well, we decided to answer the question once and for all. This red box is a toll fraud device. Why is it a toll fraud device? Because any red box that can be built this cheaply and this easily and can fit in the palm of your hand was clearly not made for demonstration purposes.

Okay, so what is a red box? Well... a red box is a toll fraud device. Why is it a toll fraud device? Because any red box that can be built this cheaply and this easily and can fit in the palm of your hand was clearly not made for demonstration purposes.



A photograph of the Toll Fraud Device circuit board.

Red box is a toll fraud device. Why is it a toll fraud device? Because any red box that can be built this cheaply and this easily and can fit in the palm of your hand was clearly not made for demonstration purposes.

Red box is a toll fraud device. Why is it a toll fraud device? Because any red box that can be built this cheaply and this easily and can fit in the palm of your hand was clearly not made for demonstration purposes.

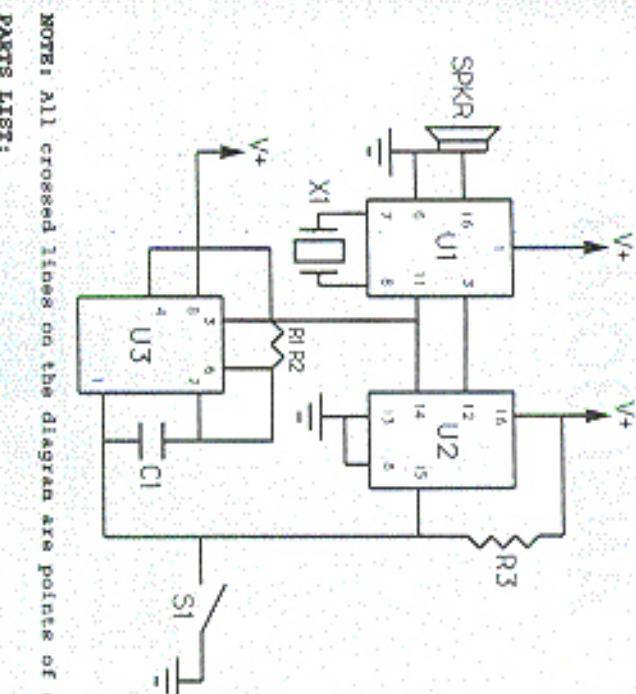
Red box is a toll fraud device. Why is it a toll fraud device? Because any red box that can be built this cheaply and this easily and can fit in the palm of your hand was clearly not made for demonstration purposes.

So, what is a toll fraud device? Well, it's a device that simulates payphone coin signaling tones in North American payphones. Red boxes emit the precise tones used by payphones to tell the local switch that the appropriate coinage has been inserted. The tones are played through the mouthpiece in this particular red box is particularly fraudulent in that it only simulates quarter tones. After all, when one commits toll fraud, one does not want to waste time putting virtual nickels and dimes into the payphone when quarters work quite nicely, thank you.

For those of you who are technically minded, the theory behind the circuit is easy enough to grasp. The DTMF encoder (U1) used in conjunction with the crystal (X1) produces the desired frequencies. The decade counter (U2) controls the cadence or how many frequency pulses are used. The 555 timer (U3) used in conjunction with R1, R2, and C1 produces the actual pulses and controls how fast they are delivered. The circuit is a good hack because it utilizes the carry flag on U2 to overcome any stray charge on C1 that may cause the first pulse from U3 to be inaccurate. It accomplishes this by ignoring the first five pulses produced by U3, processing the next

five, ignoring the third, etc. The circuit is also a good hack because it utilizes that well-known coincidence in the DTMF encoder, the fact that substituting a 6.5 MHz crystal for a colorburst crystal (3.579545 MHz) just happens to raise the "key" frequencies from 941 and 1209 Hz to approximately 1768 and 2195 Hz. Since the desired frequencies for a quarter tone are 1768 and 2195 Hz, the output of the circuit is well within tolerance. The cadence is determined by the RC combination in U3. Each pulse lasts approximately 30 ms, followed by 30 ms of silence.

Obviously, the Quarter will not work with Customer Owned Coin Operated (COCOT) payphones. You may also have some difficulty with newer electronic payphones, as the phone companies are finally getting hip to these little devices and are isolating the talk path from the receiver until the call is established. Still, your Quarter should provide you with hours of fan-filled listening entertainment. In a world where

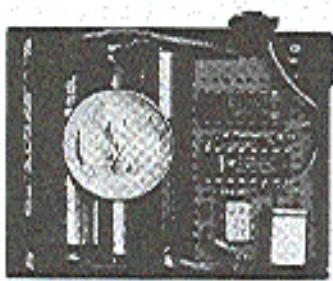


NOTE: All crossed lines on the diagram are points of connection.

PARTS LIST:

RESISTORS	VALUES	NOTES
R1	220 kohm	The exact values of R1 and R2 are not important so long as their sum is 440.
R2	220 kohm	
R3	1 kohm	
CAPACITOR	VALUE	
C1	0.1 uF	
CRYSTAL	VALUE	
X1	6.5 MHz	6.5536 MHz is also within tolerance.
CHIPS	NAME	NOTES
U1	TCM5089	DTMF encoder.
U2	74HC4017	Decade counter.
U3	CMOS 555	Timer IC. Regular 555 is okay if a 1 kohm resistor is inserted between pins 3 and 8.
SPEAKER	IMPEDANCE	NOTES
SPKR	600 ohm	U1 expects an equivalent load.
SWITCH	TYPE	NOTES
S1	Monostable	You may also want to add a power switch.

As printed, the circuit expects three triple 'A' batteries for a total of 4.5 volts. A 9 volt battery may also be used, but R1 and R2 should then total 470 kOhms instead of 440. Obviously, you will also need a payboard and chassis if you expect to build the circuit. Parts may be ordered from electronic firms. Remember to order at least two of everything so that you will have spares in case you mess up.



A photograph of a payphone handset.

New York costs \$2.20 (at the maximum discount rate to less), it will hardly surprise us at our suburban offices if, while sipping our afternoon tea, we happen to read about a sudden proliferation of Quarters across the U.S.

ANSI/BOMB

by Klinger

As you know, ANSI codes are used to design colorful screens for RPS's. These same ANSI codes can be used to receive the keys of

RETURN KEY
BIT PATTERN
TYPE HELLO

卷二

The same as pressing your RETURN key. You can also use ANSI codes to redefine a key as a DOS command. This is where the power of ANSI bombs comes into play. Think about what damage could be done by redefining your "W" key as a format command. When you hit "W", the computer would spit out a delete or format command and, before you knew it, you'd be crashed!

ECHO Y FORMAT C:> NUL

DEVICE=ANSYS (or its equivalent) in your config.sys file. If you don't know how to do this

You shouldn't be reading this article!

This can usually be found in the back of most books on matrices.

How Do I Make a Bomb?

There are many ways to make a bomb. The first way is to use the DGCS "PROMPT".

command. For example, you could use this command in an ALIASPEC.RATFILE:

PROMPT \$C55:3<ECIO(Y1DE2>>>NHC>13p

Note the special character -**^E**- is another way to tell DOS you are referring to the ESC.

character. “**F**” must appear after the ESC character. ASCII code 65 is the “A” character.

ASCII code 13 is the carriage return code.

The above command receives the `-A` character as the following command:

LUT RETURN
REDEFINE "A" AS ECGR Y DEL "Z" NEL

HTT RETURN

Oct. 1964. The idea! Pretty dangerous! Unfortunately, any poor sap who looks in his AUTOEXEC.BAT file will quickly notice this.

Another Way to Make a Bomb
Go into your DOS 5 editor. Type Control-P, let go, and then hit the ESC key. If you did this right, a left arrow will appear. For our purposes,

By simply viewing a file which contains an ANSI bomb (using the DOS "TYPE" command), you could possibly lose your keys.

News Update

picture has been stuck, load it into the DOS 5 editor. Go to the end of the document. Type in your ANSI bomb! Save it. The next time you troubleshoot individual calls, you might be able to zap him by redefining his keys via the modem! But many communications packages appear to filter out these escape character combinations. The best way to get your victim is to add an ANSI bomb to a legitimate document in a program that he wants to have. When he views the document using the TYPE command, he will redefine one or more of his keys and will be zapped!

Remember, these bombs are completely

Get the programs PKZIP11.ZIP, ANSICHEK.ZIP, or ACHFILE.EXE. The first stops key redistributions and the others locate them in non-executable files.

Conclusion

This article was provided as an educational essay on the redefinition of keys. There is nothing here which does not appear in any DOS manual - it's just explained differently. The writer and ZD99 Magazine do not recommend that you do anything illegal or destructive with this information. In fact, it is recommended that you do *not* attempt to follow any of the above instructions.

defined? Remember, it's possible that a BBS sysop could even receive your keys over the phone just by having you look at a *picture*!

Hypothetically, if you were a sysop you could create a great ANSI using The Draw-

invisible to anyone doing a `tree filename.exe`. However, it will only be invisible if he has the ANSISYS driver active. Most people do. Your bomb will appear as gibberish to someone who does not have the ANSISYS driver active and

News Update

receive the specific intent that come with the issue. In fact, we announced the good news that San Jose Jackson had won his lawsuit against the United States, Secret Service. More than \$50,000 in damages will be awarded to San Jose Jackson for violations of the Privacy Protection Act of 1980 and FBI profils, as a result of the raid by the Secret Service in March 1990. Jackson's legal fees, which could amount to several hundred thousand dollars, must also be paid by the government. Each "plaintiff" in the case was also awarded \$100 under the Electronic Communications Privacy Act of 1986. The Secret Service violated this act when they seized private mail in the EliminiSh Bulkin Book System. Each user of the book code have been searched \$100.00 per page also filed size. This is obviously a very positive turning point and it would have been possible without San Jose Jackson's hacking contamination that stood by him, and the Electronic Frontier Foundation for providing the expertise and financial support.

investigation that is being conducted pursuant to the Secret Service's authority to monitor wiretap devices and intercept mail." The agency has also admitted to possession of two documents which "contain solely information identifying individuals," CSIS's interpretation with which we agree, so that the Secret Service can track the mail security packages legally obtain a list of the people who attended the meeting. That list is now in the possession of the Secret Service. In short, the Secret Service apparently has been caught "red-handed" for law. Stay tuned.

You may have heard mention of the Chipper Chip, which basically amounts to a plan by the government to take back control of encryption. I suspect that one standard would be upheld and if the government would always have the ability to break your code if they so chose. Needless to say, this is not something well with privacy advocates. The question everyone is asking on is whether the government actually believes it is outwith other forms of encryption. Expect us to move on this in our next few issues.

Finally, a public service from the folks at Full Disclosure and 13TH STOPPER. By dialing 800-354-1414, you can hear your phone number read back to you. In some places you can block your number by dialing *71 first, a method which was originally intended for blocking Caller ID. While in the past we've been encouraged to STOPPER a phone in private rather than 1300-line, it's nice to remind that if you're using the 800 service and encouraging people to do the same, it is to be advised ultimately anonymous is a good thing. We just hope that anonymous calls are basically just theory obtainable in the future as they were not blocking apps.

2600 MEETINGS

New York City

Citicorp Center, in the lobby, near the payphones, 153 E 53rd St, between Lexington & 3rd. Payphones: 212-223-0011, 8227, 212-353-8044, 8152.

Poughkeepsie

South Hills Mall, off Route 9. By the payphones in front of Radio Shack, next to the food court. Payphones: 914-297-8823, 8854, 8855.

Buffalo

Eastern Hills Mall, (Clarendon) by lockers near food court.

Washington DC

Pentagon City Mall, in the food court. Cambridge, MA

Harvard Square, inside "The Garage" by the pizza pad on the second floor.

Danbury, CT

Danbury Fair Mall, off Exit 4 of I-84, in the food court. Payphones: 203-745-9995, 203-794-9954.

Philadelphia

30th Street Amtrak Station at 30th & Market, under the "Swivel 7" sign. Payphones: 215-222-8890, 8891, 9779, 9799, 9602, 215-387-9751.

Pittsburgh

Parkway Center Mall, south of downtown, on Route 279. In the food court.

Fort Lauderdale

West Hollywood Bowling Alley, 296 South State Route 7. Call voice mail for details or changes: 305-580-9214, 1000.

Atlanta

Meetings announced on local BBS (404) 612-0340.

Chicago

Century Mall, 2829 Clark St., in the 3rd Coast City.

Memphis

Hickory Ridge Mall, Winchester Rd., in the food court. Payphones: 901-386-4017, 4018, 4019, 4020, 4021.

Ann Arbor, MI

Galleria on South University Blvd, America, food court.

Bloomington, MN

Galleria, Highway 40 and Brethwood, lower level, food court area, by the nesters.

St. Louis

Northcross Mall, across the skating rink from the food court, next to Pipe Works.

Houston

Galleria Mall, 2nd story overlooking the skating rink.

Los Angeles

Union Station, corner of Macy & Alameda. Inside main entrance by bank of phones. Payphones: 213-972-9358, 9388, 9506, 9519, 9520, 213-625-9923, 9924; 213-614-9849, 9872, 9818, 9825.

San Francisco

4 Embarcadero Plaza (inside). Payphones: 415-395-9803, 4, 5, 6.

Seattle

Washington State Convention Center, first floor.

Munich, Germany

Hauptbahnhof (Central Station), first floor, by Burger King and the payphones. (One step on the S-Bahn from Hackerbruecke - Hackerbruecke) Birthplace of Hacker-Pschorr beer. Payphones: +49-89-591-835, +49-89-556-541, 542, 543, 544, 545.

Atlanta

We've noticed that many of the payphone numbers we've listed have stopped receiving incoming calls. This is probably an attempt by some entity to keep us from communicating. Any suggestions on how to get around this are most welcome.

The Shirt



The Video

You won't find it in clothing stores (we did, but that's a long story.) The 8800 hacker t-shirt could be the fashion statement of the nineties. After all, anything is possible. Two-sided, white lettering on black background, blue box schematic on the front, hacker newspaper articles on the back. \$18 each, two for \$36. M, L, XL.

2600 SUBSCRIPTIONS

INDIVIDUAL

1 year/\$21 2 years/\$38 3 years/\$54
CORPORATE

1 year/\$50 2 years/\$90 3 years/\$125
OVERSEAS

1 year, individual/\$30 1 year, corporate/\$65
LIFETIME

\$260 (also includes 1984, 1985, 1986 back issues)
2600 BACK ISSUES

1984 1985 1986 1987 1988

1989 1990 1991 1992
\$25 per year

(OVERSEAS: ADD \$5 PER YEAR OF BACK ISSUES)

[Individual back issues for 1988 to present are \$6.25 each; \$7.50 overseas - we don't have enough title source to check off so please give our another way to identify the no.]

NAME, ADDRESS, SUBSCRIBER #, SPECIAL NOTES, ETC.

MAIL TO: 2600 POB 752,
MIDDLE ISLAND, NY 11953

TOTAL AMOUNT: