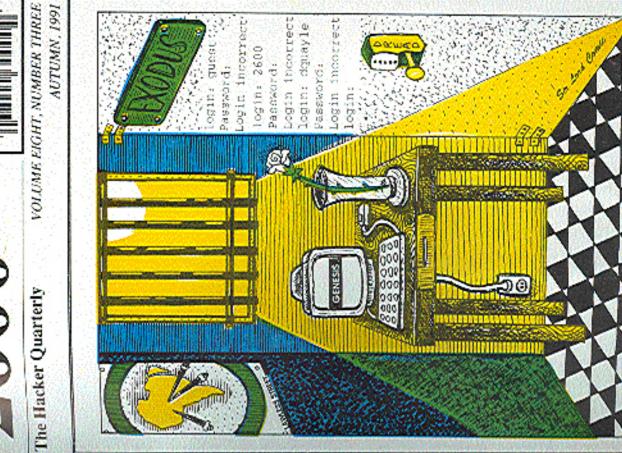
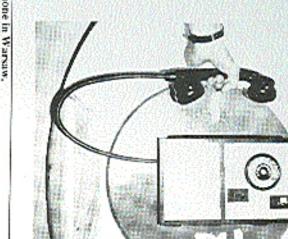
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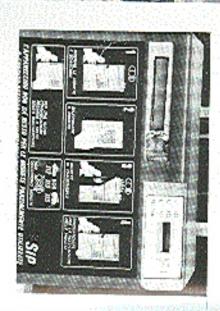
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A Polish Payphone in Warsaw.

Photo by Tom Binko



Orange payphones in Italy. An increasing number only take cards. Photo by John Drake

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witnessed some kind of media report about computer hackers. Whether it's the piece in your newspaper about kids with computers figuring out how to make free phone calls or the special report on television that shows how hackers can gain access to secret corporate computer networks, the angle is almost always the same. And it usually misses the most important points. What kind of data is being stored? Why is it so easy to gain access?

By this time, we've all And why is there so much gross tnessed some kind of media negligence?

Bearing this in mind, we thought it would be a good idea to bring a couple of stories to the public eye. We felt it was important to share them not only with our readers, but with everyone. And by communicating directly with the press, we could avoid any misconceptions. In fact, the whole thing could be an educational experience.

Our first story concerned easy access to U.S. military computer

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Holly Kaufman Spruch

"They are satisfying their own appetite to know something that is not theirs to know."

- Asst. District Attorney Don Ingraham

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Remote Observations: Geo. C. Tilyou

Shout Outs: Jim Ross, Simplex (for the hours of fun), Len Rose, Franklin, Strong Island Resistance.

Systems. Over the past few years, Dutch hackers have been able to get into all kinds of systems. This is not because they're necessarily better than American hackers. But they do live in a healthier society where curiosity and exploration are encouraged, not punished. We asked them to show us on videotape just how easy it was to get into a military system. They graciously did this and even we were surprised at how easy it was.

By going to the media and showing them this, we thought that hackers might finally be seen in a better light. After all, with knowledge of military weaknesses, there are plenty of places these hackers could go. But they didn't. They chose to share the information.

not locks at all, but open invitations our story was that these locks were seriously wrong here. The upshot of security. The average person looks gadget that is supposed to provide were astounding. Here we have a with computers, the similarities technically this had nothing to do everywhere we look. And while discovered that there was something without question. But hackers believe what a computer tells them in much the same way they would at it and believes what they're told, pushbutton locks that are appearing Our other story concerned

Again, going to the media with this story seemed the proper course of action. Instead of using this knowledge for our own gains, we realized that people had to be warned before it was too late.

These locks, which have been used in businesses and offices for years, are now being installed in homes. We knew the media would understand the threat.

What can we say? We were wrong. Despite a massive effort on our part to get every media outlet in the country involved in these stories, the interest we received back was negligible. We held a press conference in New York City, made hundreds of phone calls, did tons of research, and are still paying the bills for it. And it's likely you never heard a single word about it. They decided it just wasn't something the American people needed to hear.

Ironically, in subsequent weeks there were stories in the media of Dutch hackers invading computers yet again. The same old angles. No mention of the efforts of hackers to safeguard these systems. That just wasn't newsworthy.

We think things will change when computer systems with sensitive information are accessed by malevolent people who know what they're doing. They'll change when homes, offices, schools, and mailboxes around the nation are broken into without a trace. We believe that then and only then, the media will take an interest. And, of course, they'll probably decide to blame us. The ratings and circulation will go through the roof.

We did our best to warn the American public of two distinct dangers. It's now up to our readers to spread the word where the media won't.

Autumn 1991

## SIMPLEX LOCKS

ANTILLUSION OF SEC

by Scott Skinner and Emmanuel Goldstein

No lock is one hundred percent secure. As any locksmith will tell you, even the best lock can be opened if one wishes to invest the time and resources. However, a good lock should at least be secure enough to prevent the average person from compromising it. Common sense dictates that a lock which can easily be opened by anyone is simply not a safe lock to use.

While an average person may not have the necessary skills and expertise to use a lock pick or a blowforch, almost everyone has the ability to count. And the ability to count is all that is necessary to compromise a Unican/Simplex pushbutton lock. In addition, one needn't count very high. Only 1085 combinations are used, and in most cases this number is reduced considerably.

combination can then be set without a key the commonly used 900 series), a new minutes. With some models (particularly combinations. In this example, a Simplex merely has to go through 135 One can literally lock someone out of their lock can be compromised in under five pushbuttons are being used, then one instance, if one knows that only three the "range" of the combination. For minutes when put to the task. This method sound, members of 2600 average ten by merely going through all the possible becomes even easier if one can find out combinations. As arduous as this may Anyone can easily open a Simplex lock

Far worse than the low number of combinations is the illusion of security that surrounds the lock. We called ten locksmiths at random and were told that "thousands," "millions," and in some

cases "a virtually unlimited number" of combinations were available. These claims are somewhat misleading considering the actual number of possible combinations. In addition, no locksmith was able to tell us exactly how many combinations were available, nor did any locksmith believe us when we told them.

comply with the DoD Security Manual for the section by claiming that Simplex locks was "restricted." However, he summarized paragraph 36a of the manual as he felt it M). Mr. Nazziola refused to quote paragraph 36a of the Department of Marketing, the locks comply with We contacted Simplex to find out just security-sensitive areas. Defense Security Manual (DoD 5220.22-Thomas Nazziola, Vice President of models meet the requirements of the these "maximum security" locks are "ideal what these requirements are. According to Department of Defense Security Manual. for security-sensitive areas" and that some Simplex advertisements also claim that

Sumplex locks may not be used as the only according to the DoD Security Manual during working hours." [emphasis added] meet specified criteria may be used "to entitled "Electric, Mechanical, or Nazziola's claim, he did not tell us that Electromechanical Devices." According to Systems," we were unable to find any While there is an element of truth in Mr. control admittance to controlled areas this section, mechanical devices which apply to Simplex locks is paragraph 366 pushbutton locks. The section that does information concerning mechanical entitled "Automated Access Control close examination of paragraph 36a "restricted" manual just by asking. Upon 2600 was able to obtain a copy of this

lock source except during "working bours," In addition, it is relatively easy to meet the requirements of the DoD Security Manual. Virtually any combination lock with changeable combinations, and indeed even padlocks, will meet these requirements.

codes." These are codes which require the anyone to know about it." installations. Government installations. that these codes are available. According Simplex advises against their use, and in halfway. Because of the extreme difficulty user to push one or more buttons only in the guise of "high security half-step For the average consumer, they don't want suggests it for really high security to one locksmith, "[Simplex] only most cases, does not even inform the user in setting and using these half-step codes. Another 1085 combinations are available in truth only 1085 combinations are used "thousands of combinations are available," Although Simplex claims that

We shudder to imagine which high security government installations are using Simplex locks as the only lock source. The "high security codes" are an example of misleading information being used to sell the locks (in this case, to the U.S. government). Naturally, the addition of 1085 combinations does not make the lock considerably more secure. (If 2170 combinations soems like a large number, consider that a \$5 Master lock has 64,000.) In addition, we have yet to find one single instance where the half-step codes are used.

We have found that numerous organizations use Simplex locks as the primary lock source. Among the guilty parties in the New York metropolitan area are Federal Express, United Parcel Service (UPS), Citicorp Center, John F. Kennedy International Airport, and the State University of New York at Stony Brook. Others around the nation include General

orking Motors, the State Department, easy to McDonalds, NSA, and the University of Security Wisconsin.

on lock The biggest offender is Federal indeed Express, which uses Simplex locks on

minds.... [The dropboxes] are like vaults." over 25,000 dropboxes nationally. Express, which uses Simplex locks on security was uppermost on people's unmanned receptacles was, I mean it Federal Express - in one of these important and vital or they wouldn't ship what's necessary. The idea of having cost of security built into these boxes than matter of fact, there's probably double the Manager of Corporate Identity [sic] for important and vital - and it's obviously somebody put something extremely Federal Express, "[Federal Express dropboxes] are extremely secure. As a According to Robert G. Hamilton, The biggest offender is Federal

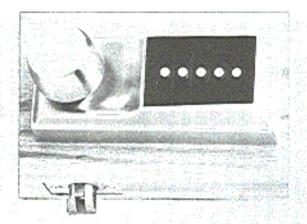
These "vaults" were accessed by members of 2600 in less than ten minutes. The drophoxes are particularly insecure because Federal Express uses the same combination for all of their drophoxes in every state on the east coast! So by opening one drophox, we now have access to thousands.

Members of 2600 also gained access to a UPS dropbox — in one shor. UPS did not even bother to change the default combination which is set by Simplex. And just like Federal Express, UPS figures that a single combination is good enough for every dropbox.

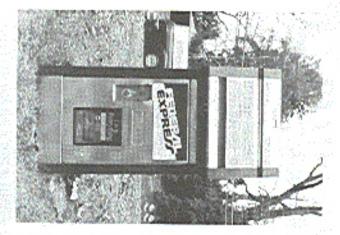
Another big offender is the State University of New York at Stony Brook, which uses Simplex locks in both dormitory and academic buildings. According to University Locksmith Gerry Lenox, "I don't consider [the Simplex lock] to be a secure lock. I prefer a deadbolt lock which operates with a key more than I would a Simplex lock.... I think it's more of a convenience lock than it is a security lock." When asked why the university continues to use the lock, Mc.

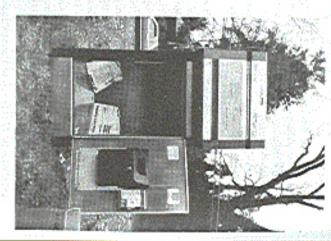
Simplex Series 1000

2600 Magazine

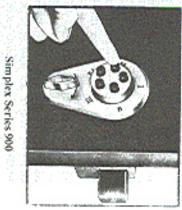


"The dropboxes are like vaults." - Federal Express





SIMPLEX LOCKS
TOUCH US ALL
EVERY DAY.
PLEASE TELL US
WHERE YOU FIND
THEM IN YOUR



### Simplex® AUXILIARY LOCKS

### OPERATING INSTRUCTIONS

All regas are shapped with the following commingston: If and IV poshed at the same time, then IVI



Turn the from control knobcrarked "SIMPLEX") us one UEF1, and release,



Press the Coverer business in the groups Order.

Release burners before turning control knob



Tem the control know RIGHT to open.

To loth — turn the control know LEFT, (Model NI, locks automatically).

### CHANGING COMBINATIONS



Bith the stop open and the "MARPLEX" to "locked, this fines control knot charled" "SIMPLEX" to the LIPI, and offense, PUNK THE EXISTING COMBINATION AND RILEASE BUTTONS.



Remove the screw in the Lock Housing with the Allen wrench provided, Insert the wrench into the hole and depress the button Remove whereh.



Turn the from cretrol knotoriented SIMPLES to the URT, and release.



Previde bullion in the sequence council for your new combins from — fourly and discovery? Becond your new combination.



Turn the Irent centret known RIGHT. Your new constraints in now musiked Before shatting the dain, by it to be user you have trounted of correctly. Respect the threaded screw in the look blueging.

NOTE: If the front control knob opens the lock without punting the dembination, slepp 2, 4 and 5 were performed out of order and our "SIMPLEN" is more? "Combination, To resolute a contribution, follow the above negation time large."

The front control knots can NOT be towned in open the lock since it is controlled to the Lock Mouting by with controlled to the Lock Housing by with controlled to will be distributed to the write has been forced in will be distributed powered by hand or with a pair of places without damaging the hand.

Simplex Security Systems, Inc.

William 12" becary - 500, evo eavi (2021-eac) 204 (2021-eac) 204

university is considering purchasing 1500 they being used in the dormitories, but the locks] in the dormitories." Not only are more for additional rooms. locks were first introduced...not to use [the told them years ago when the Simplex locksmith on his expertise. I had originally consider contacting the university Lenox said, "[The university] did not

mothanism, and are being marketed as locks employ the same inscoure new "residential" 6000 series. These new Even worse, Simplex is now aggressively the line" and that "even the Department of never be used as the only lock source. simply perpetuate the illusion of security are consulted, we have found that they despite the fact that the locks are pursuing the homeowner market with their Defense uses them." Nowhere is it by claiming that Simplex locks are "top of independy insecure. Even when locksmiths mentioned that Simplex locks should use Simplex locks as the only lock source that Simplex locks are just as secure, if not institutions, and homeowners confidently this myth is that many businesses, more secure, than key locks. The result of portraying with misleading advertising is The illusion of security Simplex is

that people tend not to use other locks that security. These locks are so convenient easily changed. However, may also be present on the door. convenience backfires when it comes to require keys and the combinations are of a convenience lock than anything else, They are convenient because they do not Realistically, Simplex locks are more

lock source only during working hours. the guidelines of the DoD Security Simplex locks, we recommend following Por home or private use, we strongly Manual: the locks may be used as the sole advise that consumers use these locks in For those organizations currently using

> conjunction with a key lock and never as the sole means of security.

### Hacking Simplex Locks

subsequently why half-step codes are recommend the use of half-step codes, and vurtually never used. understand why it is that Simplex does not complicated, then you are beginning to buttons in too far. If all of this sounds pushbutton(s) until you feel pressure. If in halfway and held while the knob or numbers listed in parentheses refer to you bear a click then you have pushed the latch is turned. Slowly press in the they are in parentheses) should be pressed case, only the last number (or numbers if rare instance of a half-step code. In this appear to open the lock, then it may be a If you find that none of the combinations to how many pushbuttons are used. The divided the list into four groups according combinations for Simplex locks. We have pushbuttons that must be pressed together. In this assue is a list of all possible

much larger, with five (usually metallic) series, the 1000 has a doorknob. rectangular metal chassis. Unlike the 900 pushbutions spaced vertically on a instead of a doorknob. The 1000 series is addition, the 900 series utilizes a latch five black buttons spaced in a circular are the 900 and the 1000 series. The tashion on a round, metallic cylinder. In characteristic features of the 900 series are two models that you will most likely soc shapes, sizes, and colors, However, the Simplex locks come in many different

reset the look after each try: reverse the procedure. Make sure that you fatch clockwise to open. If the latch is counterclockwise to reset the lock; 2) enter located above the buttons then simply a combination from the list; 3) turn the procedure is as follows: 1) turn the latch latch is located below the buttons, then the first back on a Simplex 900 model. If the We suggest that novices attempt their

> distinctive click and feel less pressure as you turn the knob. get the correct code, you will hear a by simply rurning the knob. When you do tell when you have cracked a 1000 model you turn the knob, indicating that the lock knob elockwise. You will hear clicks as combination from the list and turn the has been reset. It is sometimes difficult to To back a 1000 model, simply enter a

trivial ontil you realize that you may have makes much less noise than turning the hundred times before you crack the lock. to turn the latch or doorknob a few 900 model requires less wrist motion and knob on a 1000 model. These details seem You will find that turning the latch on a

> 2 3 4 5. We have never found a lock start with, try the doubles first. For

instance, try "(12) 3 4 5" before you try "1

When you decide on a particular range to

which uses a triple, quadruple, or all five

combinations that must be tried. which drastically reduces the number of well because you eliminate pushbuttons, not use. This method works particularly of rubber on the pushbuttons that they do that they use, while leaving telltale traces rub off the rubber on all of the pushbuttons carefully rub off a tiny bit of rubber on comes to enter the combination, they will each of the pushbuttons. When someone range is to take a pencil craser and a building. Another way to find out the clicks. We find that this method only comes up to punch in the code. You can works in quiet areas, such as the inside of convenience and listen for the telliale then retrieve the recorder later at your recorder will remain off until someone tape recorder near the door. The tape nearby then try hiding a voice activated waste time trying four digits. One way to an idea of the range. If you cannot stand hear distinctive clocks which will give you someone punches in the code. You will fund out the range is to stand nearby while are being used, then you do not have to instance, if you know that only three digits easier it is when you know the range. For We cannot stress enough how much

turns, and everyone has their ears open.

We find that certain ranges rend to be

uses Group C (four pushbuttons). In reason, we find that the 1000 series mostly combination from Group A. For some the pushbuttons to be pressed together. "doubles," which require at least two of never found a lock which uses a tend to be used in areas which seem like security areas," while Groups C and D used more than others. Group B (three they should be more secure. We have pushbuttons) tends to be used in "law iddition, most combinations tend to be

find it easier to hack Simplex locks in small groups, so that each person can take hear anyone coming from a distance. We that the person hacking will not be able to The only drawback to using a walkman is than sheets of paper filled with numbers. nor cross out the codes to keep his place. hold the codes in one hand while backing, much easier for one person to back a A wallonan also looks far less conspicuous Simplex lock because he does not have to these codes onto cassette. This makes it useful to invest some time and record the possible combinations, you may find it pushbuttons pressed at the same time. Although we are providing a list of all

achievement will be well worth the wait. day will do just fine, and the thrill of combination in one shot. A few minutes a do not stress yourself out trying every to figuring it out. We recommend that you ten minutes, you are still that much closer Even if you do not get the combination in anything else. Above all, don't give up! combination "(24) 3" before you try force hack. Always try the default lucky shots before you initiate a brute Finally, it is always good to take a few

Autumn 1991 2600 Magazine Page 13

# 1085 POSSIBLE COMBINATIONS DIVIDED INTO FOUR GROUPS

(Numbers in parentheses should be pressed together)

	(54)	(53)	(52)	(51)	(45)	38)	(34)	(25)	(24)	(23)	(15)	(14)	(13)	(12)	40	3	52	51	45	ψ.	42	4	35	34	32	ω <u>.</u>	25	24	23	21	15	1.4	13	12	On .	4	ω	2	_		39	GROUP A:
N	_	_	-	Q1	Q1	351	-	342	, <del>1</del>	.N	N,	N.	_	-	1	្ឋបា	- CD	Ch	-15-	44	Pa.	· 60	· Ca	w	-	-	-	cn	153	EF1	dia.	143	142	135	134	132	125	124	123		130	GROUP B:
(34) 2	(34) 1	(25) 4	(25) 3	(25) 1	(24) 5	_	,	-	(23) 4	_	(15) 4	_	_	(14) 5			-			_	(12) 4	(12) 3							524	N	N		-	_	OT	452		435	432			423
(145)	(135)	(134)	(125)	(124)	(123)	3 (45)	2 (45)	1 (45)	4 (35)	2 (35)	1 (35)	5 (34)	2 (34)	1 (34)	4 (25)	3 (25)	1 (25)	5 (24)	3 (24)	1 (24)	5 (23)	4 (23)	1 (23)	4 (15)	3 (15)	2 (15)	5 (14)	3(14)	2 (14)	5 (13)	4 (13)	2 (13)	5 (12)	4 (12)	3 (12)	-	(45) 2	(45) 1	(35) 4	(35) 2	(35) 1	(34) 5
ωj	ω	ω A	es L	3	15	5	40	2143	3	3	54	-4-	w	w	N	N	630	430	4430	4.1	Post 1	B-31	6.00	400		1.00	8.37	8.3	1254	422			2.0				GROUP C:		(345)	(245)	(235)	(234)
so.	gn.	ω	$\overline{\omega}$	N	2	4	4	3524	N	-2	2	(F)	5	12	42	_	2	25	25	2	2	2	2		<u>-</u>	7	7	7	7	ģη.	ØΓ.	OI I	O1	on.	5	٠.	15	4	4	4	44	ы

## The Hacker Video

computers. to the public so that more people will seen. We are releasing this videotape Most of it, however, has never been recent nationwide television show. portions of which were shown on a captured on videotape by 2600, hackers. One of the episodes was States were accessed by Dutch computer systems in the United is to get access to military witness just how shamefully easy it Over the summer, military noticeable loss of speed

warning that cannot be taken motivations might be. This is a information or what their is frightening is that nobody knows saved to a disk by the hackers. What particular system. No military alteration of data occurred on this taken to ensure that no damage or easy it really was. Great care was demonstration was to show just how July of this year. The purpose of this who else has access to this secrets were taken and no files were The intrusion took place in late

## Explanation of the Videotape

of about five people in their twenties play with computers. in Amsterdam, Basically, it's a group The tape opens with some background shots of the hacker site gathered together to match wits and

or more computers at once, without a connecting from one machine on the installations around the world. By corporations, and government This network ties together schools, connection is made to the internet. Internet to another, you can use two Through a local phone number, a

### telnet 192,67,67,20

various systems and their users. clearinghouse of information about been changed to 192.112.36.5.) It is a requires no password and is open to In this case, the particular address is Data Network Information Center. the hackers connect to the Defense everyone. (The address has since "192.67.67.20", a computer which login to systems all over the world.) (Teinet enables a user to actually Using a program called "telnet",

computer spits out over one thousand computer names and word "army" in its address. The on the military network that has the addresses. checked out. The hackers type asking them who they want to have ermy.mil", indicating any computer Whois: prompt. The computer is The hackers are met with a

chosen at random. (This computer is passwords, like "guest", "public" The hackers then begin to try default believed to be located at Los Alamos army.mil" at address 192.33.5.135 is but this has not been confirmed.) 'uucp', etc. None of these work. A computer named "tracer.

### ftp -n tracer-army-mil

to systems all over the world. But similar to telnet in that it connects one system to another. Ftp is protocol), anyone can copy files from command. By using ftp (file transfer The next line of attack is the ftp

> files. In addition, it is not necessary systems, fip is only used to transfer while telnet is used to login to machine in order to use fip. to have accounts on more than one

user logs into a machine on the everyone needing access. can be made available without purpose of this is so that public files limited access to the machine. The him for a user name. By typing another machine, which then asks Internet. Using ftp, he connects to having to give out accounts to "anonymous", the user is granted The way it works is as follows: a

### quote cwd -root quote user ftp quote pass ftp

anything, albeit with great difficulty, user is not only able to gain access to one major bug in its software. By are still confined to working within actually logged into the system. They the hackers can also change able to look at anything. In addition, system, the anonymous user is now limited number of files on the powerful account on the system.) So the root directory. (Root is the most directory (location) on the system to the machine, but change his issuing the above commands, the the framework of the fip program. This is because the hackers are not instead of being able to look at a But this version of ftp has at least

system. But this doesn't remain a can read and alter any bit of they cannot actually login to the they cannot run any programs. Also, information on this military system, problem for very long: At this stage, while the hackers

exit ftp and modify passwd file on get /etc/passwd nonte system

on the system. (It is not supposed to why the file is readable by any user decrypt these passwords, which is virtually impossible to actually with their encrypted password. It is the old version of the password file privileges, it allows them to replace insert another user into it. Since the to their home system, they carefully once the hackers have the file copied not be very significant: However, Ordinarily, copying this file would be readable through ftp, however.) list of every user on the system along "/etc/passwd"). This file contains a password file (known files, the hackers choose to copy the with their new version. system believes they have certain Since ftp allows users to copy

encrypted password would be is "dquayle". In the field where the password for Dan Quayle's newly nothing. This means there is no privileges by inputting the intended to give dquayle root have to worry about decrypting it. created account. Hence they do not any special privileges. will show that dquayle was not given But a careful look at the videotape appropriate values for his account. The hackers apparently had The user name they create is

quote user ftp put/etc/passwd quote pass ftp quote ewd -root ftp -n tracer.army.mil

The hackers repeat the first series

version containing the fictitious user now replaced with the modified privileges. The original passwd file is of steps (henceforth known as the "dquayle". ftp bug') to once again get root

### telnet tracer.army.mil

a password. username. The hackers type in military system, which asks for a 'dquayle'. Access is granted without The hackers reconnect to the

root. Either way, it would seem that appeared to have happened outside. This was what originally the hackers' ultimate goal has been the system never even bried to access dquayle had no special privileges, so However, as mentioned earlier, access to anyone coming in from the cases, the system will not allow root is "not a secure device". In many screen indicating that the terminal Instead, a warning is printed on the But root access is not granted.

on home system. exit telnet and modify passwd file ftp -n tracer.army.mil

put/etc/passwd quote pass ftp quote user ftp quote cwd -root

bug to "put" the new password file on They once again make use of the ftp password. This account they call time with root privileges and no file. They make another account, this go back to their copy of the password toor", the word root backwards. Instead of giving up, the backers

the system.

### telnet tracer.army.mil

command will not check to see if the case, the hope is that the su sharing a terminal. In this particular has two accounts or if two users are switch to the identity of another user call was coming from outside. of hanging up and calling back into while logged in. It saves the trouble the system and is useful if someone again login as dquayle. This time, The su command allows a user to after the warning is issued, they followed by their new user ("toor"). issue a two letter command ("su") Using telnet, the hackers once

under the hackers' control. (tracer.army.mil) is now completely assumed they were legitimate. This military computer already logged onto the system, su from the outside. Since they were even though they were coming in command granted them root access tells the backers that their mission indicates true root access. The su has succeeded. That symbol account. A single "#" on the screen none was entered into the toor No password is requested since system

information. serolled through. Among the more issues. Clearly, this is sensitive from Kuwait) discussing security January 16, 1991 (the deadline day a system for just anyone to be in. for fragi troops to be withdrawn the Counterterrorism Officer dated interesting pieces is a memo from The next day, some of the data is prove beyond a doubt that this is not looking for interesting bits of data to The rest of the night is spent

Illustrates a password hacker

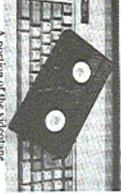
The final part of the tape

How Passwords Are Guessed

system), many passwords are found then a password has been found. In actual passwords. If they match, and then compares them to the encryption algorithm is standard) encrypts the possible passwords (the passwords in the password file, it passwords. Instead of decrypting the program. Using the aforementioned in this manner. password file, the program comes up the example shown (from a different with the most commonly used

## Why We Are Exposing This

secrets. But they do recognize the are not interested in military importance and value of the information that is stored on such The backers responsible for this



A portion of the videotape

is a fairly old one that has been fixed computers. The fact of the matter is on a military system is beyond us, on most systems. Why it still existed that was used in this particular case never get fixed. Ironically, the bug are not openly exposed, they will that if these gaping security holes system and only one bug. But we do know that this is only one

Corporate computer systems also

computerized files of all sorts are records, banking information, and Our credit ratings, telephone being placed upon sensitive data. In continue to operate with security gnin access. open to scrutiny for anyone who can continues to be sloppily managed. information about individual people addition to military data, much with the lack of safeguards that are holes. As hackers, we are concerned

breaking any laws. invading the privacy of individuals our being blamed for the problem than the quest for knowledge, we not involve computer backers. Since their being detected. And, even if ahold of, there is virtually no way of by accessing credit files or billing are countless instances of employees with the message. In reality, there openly reveal whatever we find out. majority of unauthorized access does information is so easy for them to get business seeing. we have no ulterior motives, other they were detected, they aren't really information that they have no itself — confusing the messenger Unfortunately, this often results in We should stress that the vast Since

anneyance to some rather powerful catastrophes, lie ahead. The actions flaws in the system, they would still evident that serious problems, even other computers and it becomes computers become dependent upon fragility of our modern technology as be there and they would most people. Were we not to expose the of computer hackers are, at worst, an definitely be abused. Add to this the increasing

\$10 or 3 blank 120 tapes. We will send you a VHS copy for

## protecting your ssn

### Computer Professionals for Social Responsibility

the number of organizations asking being treated as just a number. privacy and the oppressive feeling of They worry about invasions of for their Social Security Numbers. Many people are concerned about

of identifying you with your of your privacy. your Social Security Number from numbers. I can try to help you keep being used as a tool in the invasion hope about the dehumanizing effects Unfortunately, I can't offer any

with anyone whose terms you don't recourse is refusing to do business private institutions, your main you anything about their plans. With make of it, or compelling them to tel non-government organizations can comparable laws restricting the uses is voluntary. There are no number and a fairly complete government that can demand your disclosure is required even if its use restricts the agencies at all levels of more troublesome. Federal law agencies are reasonably easy to deal with; private organizations are much Surprisingly, Eovernment

### Short History

Order 9397 which required federal 1943 Roosevelt signed Executive that use would be strictly limited. In assurances were given at the time Social Security program, and public intended to be used only by the of 1985. They were originally introduced by the Social Security Act Social Security Numbers were

> don't know whether it was repealed. but that practice has stopped. after some agencies referred to it as Commission of 1977 recommended order to establish identities. The authorities to use the number in local tax, welfare, driver's license, or continue using it. The Tax Reform creating new record-keeping their authorization to use SSNs. I that the Executive Order be repealed Act of 1976 gave authority to state or SSN as an identifier were allowed to databases and required disclosures agencies to use SSNs in their authorization for government use it as a taxpayer ID number. The Agencies which were already using agencies request the number. Privacy Act of 1974 required systems. In 1961 the IRS began to (detailed below) when government agencies to use the number when vehicle registration Protection Study

state, or local government agency Number has to tell you three things: that requests your Social Security 552a) requires that any federal, The Privacy Act of 1974 (5 USC

Social Security Number is required or optional. 1: Whether disclosure of your

ask for your Social Security Number. 3: How your Social Security 2: What law authorizes them to

Number will be used if you give it to

government institution and you're So anytime you're dealing with a Social Security Number mandatory. Federal law can make use of the In addition, the Act says that only

> to fill in the number. Security Number is voluntary, you'll number. If the statement is present, complain and dan't give your Act Statement. If there isn't one Number, just look for the Privacy asked for your Social Security have to decide for yourself whether read it. If it says giving your Social

## Private Organizations

can get by quite well without your request your Social Security Number much more tenuous. Most of the out the form completely." more than "get the customers to fill behind the counter is often told no finding that right person. The person person to negotiate with, they'll number, and if you can find the right time private organizations that non-governmental institutions are willingly admit it. The problem is The guidelines for dealing with

revealing your Social Security employers have no policy against contact with your employer. Most institutions which have direct number is when dealing with of your desire to conceal your space blank. One of the times when simply to leave the appropriate give your Social Security Number is Number; they usually believe the this isn't a strong enough statement Usually the simplest way to refuse to them to use some other number. omission was an unintentional slip. Most of the time, you can convince

## Lenders and Borrowers

refused an account or be charged a number you will probably either be charge interest and report it to the they pay interest or when they SSNs of account holders to whom required by the IRS to report the IRS. If you don't tell them your Banks and credit card issuers are

on your interest. penalty such as withholding of taxes

## Insurers, Hospitals, Doctors

insurance company had gone along employer or insurance company certify employees to its group health use it because it's convenient or Medicare, Medicaid, etc.). They often a week they reported that the insurance farm, I asked them to try employer asked for my SSN for an not really the case. When my current requires use of the SSN when that's get your employer to change their plan. In the latter case, you have to providers to use your Social Security and is in the process of teaching didn't have any use for the number. blood bank I go to sgreed that they number to use. Blood banks also ask to find out if they had to use it. After in personnel assume that the policies. Often, the people who work because your employer uses it to Number as an ID number (except for I asked politely and persistently, the without if pressed on the issue. After for the number but are willing to do with my request and told me what their receptionists not to request the No laws require medical service

### Why Use of Social Security Numbers is a Problem

of their own (illegal immigrants); or they're doing something; because quite likely that they've picked a makes up a nine-digit number, it's that it isn't at all secure; if someone several reasons. The first reason is they're not allowed to have a number hide their identity or the fact that people would make up a number: to There are quite a few reasons why number that is assigned to someone. doesn't work well as an identifier for The Social Security Number

is given below.) were on sample cards shipped in thousands of people because they numbers that have been used by false number. There are several problems as intentionally giving a wrong, which can lead to the same to protect their privacy. In addition, wallets by their manufacturers. (One it's easy to write the number down

embarrassing, or worse. How do you shows up on. When it happens accidentally, it can be unexpected, look bad on whichever record it their activities, it's likely that it'll records. If someone intended to hide the same number, it clouds up the your number when the record was prove that you weren't the one using When more than one person uses

make all records concerning yourself them to specific topics. about a person while restricting easily accessible to some users, it systems are all keyed by the same available. When multiple record reason to believe that you want to information. Even assuming you access to some of the information becomes difficult to allow someone identifier, and all are intended to be some things about you, there's no want someone to be able to find out it hard to control access to personal SSNs as identifiers is that it makes A second problem with the use of

### What You Can Do to Protect Your Number

you (or worse, on the ID card they on the forms someone sends back to Security Number, it still shows up "refused" in the box for Social politely, explaining your position and letters or make phone calls. Start issue), your recourse is to write If despite your having written

> cooperate. If that doesn't work, there expecting them to understand and are several more things to try:

first person you deal with just hasn't requests not to use the SSN, and the a standard way of dealing with simply because the organization has organization. This often works been around long enough to know Talk to people higher up in the

supervisor and affect your job. possibly trying to change corporate to someone in personnel, and policy, is going to get back to your You have to decide whether talking Enlist the aid of your employer.

might be able to help. states also have programs that consumer affairs bureau. Most newspapers can get a quick response. Some cities, counties, and 3) Threaten to complain to a

through if they don't cooperate). business elsewhere (and follow 4) Tell them you'll take your

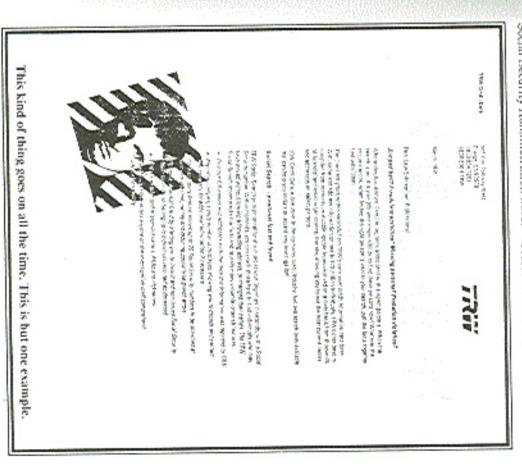
solution before you get tired of the choose to ignore the request in hopes interruption. that they'll forget or find another continuing relationship, you can number in order to have a insists that you have to provide your gotten service already, but someone (5) If it's a case where you've

idea, as it may coincide with them some amount of grief. It's someone's real number and cause Making one up at random is a bad choices for "anonymous" numbers. commit fraud. There are a few good you may want to give a fake number. getting your Social Security Number, from a government agency or to you're not doing it to get something There is no legal penalty as long as If someone absolutely insists on

> only zeros in one of the fields. The safe to invent a number that has clerks haven't heard of it. It's also cards inserted in thousands of new 1120, which was printed on "sample" better to use a number like 078-05-Social Security Administration never immediately as bogus, while most been used so widely that both the wallets sold in the 40's and 50's. It's IRS and SSA recognize it

> > advertisements use numbers in the showing Social Security cards in issues numbers with this pattern. range 987-65-4320 through 987-65 They also recommend that people

a copy of your file from them every records are correct tration recommends that you request few years to make sure that your The Social Security Adminis-



# (Customer Owned Coin Operated Telephones)

207-273-1002 207-828-1261	507-773-0414 207-793-7334			2007-01-00-00-00-00-00-00-00-00-00-00-00-00-					207-772-9382 207-775-5119			207-772-9236 207-773-8477		207-770-8016 207-770-8080				207-772-7545 207-773-9101		507-767-76809 507-777-6779 507-777-778-779			203-284-4549 207-773-9764		Polyment of course have	models control and	cohody has prached this	country and their so we know	the state of the state of	synthesized voice that says	WILL BUSWEL WICE &	A all of these hace		COCOLO	SHOOT STORY	NEW ENGLAND	CONNECTION.	(12) A 1200 BAUD	BAUD CONNECTION,	INDICATES A 300	CARRIER TONE. (3)	ANSWER WITH A	THESE PHONES	301-652-4725 (3)	301.229 9802 (3)	202.296.5215.(3)	202-169-1547-(3)	207 403 1546 (3)	207,727,0498 (3)	CO. 000 and 00	202 000 100 (12)	1911 0000 1900 1911	(71) conc. 700-700	by the Dead Cow	610000	WASHINGTON	
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	00000000000000000000000000000000000000	529 524-9343	10000038838	500-664-9321	90000000000000000000000000000000000000	505-134-5248	909-824-9213	D124-928-809	0014728700 0014728700	505-224-5709	500-824-5068	500-024-0002	. 508 924 9061	508-824-9044	508-824-9018	200-024-0000 200-024-0000	509 824-3741	6762428978	0100-020-020	509-923-9033	909-603-9079 909-603-9079	500-023-0002	000000000000000000000000000000000000000	200-023-007 1700-023-007	\$09-E09-2079	900-629-2014	500-223-2003	\$19,822-8306	8000 000 000 000 000 000 000 000 000 00	500-012-6065	809-972-5005	505-222-1364	509-761-0097	509-751-0501	500-761-8382	509-761-5236	2007-207-2884 2007-207-208	508.747.2068	508.747.2089	500-740-850a	509-745-6566	509-745-8920	508-745-3419	500.744.9773	0000-141-000	500-699-9102	200-000-0000	0166-989-9510	528 665 8201	500000000000000000000000000000000000000	500-805-9042	508-605-0037	508-679-8821	508-679-9490	508-879-8974	308-879 5490
	5072-208-2102	617-978 Bidde	617-871-5738	617-071-673	617-971-3672	9000-000-0000 9000-000-000	617-828-6:15	617-767-5624	617-762-9306	817-625-3357	617-685-3347	617-672-6673	617-325-9603	617-2-02-0550	617-942-9422	613-540-0001	1192-956-905	508-967-5251	2000-007-0000 7-7-00-00-00-00-00-00-00-00-00-00-00-00-	1009-966-804	500-096-0025	508 98 8077	500-996-9000	2019-200-003 2009-400-003	509.9% 869	500-998-1108	100 00 00 00 00 00 00 00 00 00 00 00 00	508-995-8209	500-975-8127	500.000.4100	508-592-8853	9709-000-0074 VANDA DESCRIPTION	508.992.9977	508-992-8353	9019-200-008 9019-200-008	508 992-2003	9209198908	509-591-2473	509-591-2254	908-890-3819	508-950-3977	505/350/350	500-0-0-003	500-947-9765	508-946-3683	503-883-9620	508-883-86-2	500-000-0477	500-003-0484	500-007-04-0 00-007-04-0	509-882-0172	6689-068-605	14/2-000-003	509-000-1705	509-000-4000	\$50-024-5388

# Pages of Letters

Where One Hacker Went

remaining underground like criminals." of backers "submitting to seasocaptable terms and powerful enough to bring me temporarily out of the in the Summer 1991 issue was relevant and personally "ecode ork." I admit I am grady of the article's charge The "Where Have All The Backers Gone?" article

colleagues to avoid trouble with the law. have never betrayed the trust of those who were then intent on getting that "oselars," Len Latton," And no. I seems like an absolute miracle doe to the many the years, I was never arrested, never had my house security and law enforcement people who seemed scarched, not had anything confiscated. To me this Contrary to some of the stimors I have beard over

to entarge the contracts. course, my affiliation with the Legion of Doom helped the use and abuse of vertious rechnologies. And of other articles distributed electronically, which many issues over the years. There were a number of made me a target, 2000 has published my articles in perpensived with a computer and modern, was when consequent visibility, and not any alleged illegal octs attempted to inform these who wanted to fearn about Perhaps my belief in freedom of speech and its

than my ego was however, in introspect, I realize that I computer systems was more of a Sector in which it has xystem" by informing people of the insecurity of been, had some gratification. The drive to "fix the writing "files," as being recognized for was the one who needed the flaing and not the among behindeds, however dubiness as they may have I cannot say that my type had nothing to do with

I am a victim of my own concestly, the thrill of a a prisoner of my own hobby" with the obvious and I never acted with malice when I used my one day couch up with me. I never prined mondarily any purpose, thus soccombing to the same fear that nor "each criminal." others of what was out there. I was no "superhecker" challenge, and the enthusiasm of trying to inform computer and modern. Yet I am still fearful. I suppose live with the reality that my past transgressions may was merkioned in the article. Like Frank Dauten, "I am difference being that I am a fine person. I will always For two and a half years I did not use a modern for

one gets older one becomes more efficial. In my strictly legal purposes only, is appears to me that as for the record, anytime I touch a computer it is for people, my computer use is limited to assisting me opinion, those who hold to the clicks "once a thirt with basis that are too tedious to do "manually." And Today I use computers sparingly. Like most

> minded, and districting of homenity as a whole including themselves. People can and do though,

does not seem to fit the crime in this case. science, due to their "background"? The punishment assume are astronomical, when most employers will improvement. How can they pay the enormous fine been sentenced to a life term of financial not hire them in their field of expertise; computer levied equins, them plus their own legal fees, which I The Atlanta backers: Fronk, Rob, and Atlant Earth

the braved of people would agree to run it. hay. But with the current state of enoded civil rights curious while remaining within the boundaries of the discussed backing topics with some of the "old timers" and "shoot first, ask questions later" mentality, only who have gone underground along with the newly It would be interesting to see a bulletin beard that

have finally acknowledged that I am indeed alive. current awareness of civil rights abuses is the reason I Constitution. Pethaps the activities of the EFF and the onjust state of affairs and the need to protect the the form of the Electronic Frencher Foundation (EFF). businesspeople taking a stand for everyone's rights, in Victims like Craig Neldorf graphically depict the I am relieved to see some respectable

ends do not justify the means. trying new approaches to problems, espanding the Purily due to fear, parily due to necessity, parily due to self preservation, partly due to the multisation that the invelope, etc. The hocker in the darker sense is deed. I am still a harder in its pure sense: being entions,

have said too much already. problems. Self fearful of personation and presonation Today, I spend time hacking engineering design foor years partly due to all that time spent on computers which should have been spent stocking. year engineering degree which took a bit more than am prevented from saying anything more. Pethaps it As for where has this backer gone, I have a four

(I used to be) Lex Luchor

Technical Questions

Dear 2600;

pather than the \$4.00 newsetand price? Why would I pay \$6.50 an issue via subscription

for a subscription than in individual? sease. Look at the lifetime subscription price. \$260 at for 65 years. Also, why should a corporation pay more four issues per year means that it won't begin to pay I'm not complaining, but your prices don't make

other hobby magazines. newsetands. Hope you become as log as Popolaria and I am god to see your magazine out on monadment

Awstin, TX

corporations pay more than individuals, we find that bract a week before day newsstands do. As to why advantages to subscribing are convenience and prices tend to discourage that hind of thing. The so more semegrature will get the magazine. Higher If you get 2600 at a newstraid, it will cost stightly bear shape than we are now. We are indebted to these that continued operations. Were a nor for those people who can afford to make a significant contribution to our organization is actually test a bad deal. Regarding the for unlimited reproduction rights within an this and also because many corporations spread our the corporate world. We charge more to cover all of billing notices, and phone calls are a normal part of griennos than individuals. Purchase orders, impiers, large organizations require a substantial amount more almediaess: substrained generally get their copies of than if you undoctable on the individual rate. We do this routs for their generously. did this in the part, we would be in significantly worse Lifetime subscriptions are for those who wast to and isset over 10 years, not 65. But that's not the point. lifetime subarriptions, it arraally would begin to pay in articles to many different individuals. A special price We have white it known as a new rated discount

Raw Data

Dear 2600:

shone number. For a quicker response, terminate with 200-2506 where a spoken voice reading the catter's In pasts of the 312 area code (Chicago), dialing to

what the hell handset. I suppose if you print it, they'll change it, but by listening to the autodialer on Mr. Lineman's This is Ethnois Bell's service for linemen. I got it

The Militant Midget

in to the changes. the first place. If it isn't abused, there's no reason for By printing it, we take let people know it chief in

Dear 2600:

satisfied. Many people think this is because of the is actually required before the ACTS computer is well at all. You stay have to beep in more musely than the one I am calling from the tones do not regime: one places a long distance call to a hearby town that is 1/2" thick over the phone receiver or holding the rad long distance calls. Some suggest using a special about strainted than the equipment used on long-baul AT&T problem is that the local BOC equipment is more have problems with today registering. I think the outside of the area code you are calling from would But if that were the case, then all calls, even those magnetic speaker inside the phone and the box read. served by the same Bell Operating Company (BOC) as I am calling from. However, I have found that when other area codes or calls outside the immediate LATA box. The end box works fine for long distance calls to alsoevered about the time dialer conversion to a red I thought I would share a few findings I have

g,

do not insert a quarter but dist "O" for operator. When the USA, but it sure works in the South! I have talked to sed box with. This may not be cool in all mean of local number I wish to call. I ask her to disk it for me she comes on, I tell her that I can't seem to dial the coins, just using the begs! As for a local call, I simply for an much as 45 minutes without insenting any real have found that I do not have to insert one real rickel that are served by the same BOC that you are calling controlly. Remember, this is for calls to nearby to wife. bandled by AT&T and the tones will registers number you are calling. This forces the call to be the local BOC. Simply dial 10288 + 1 + the phone topic is to force the call to be routed by All All, and not easy cure to assure accurate registration of all red boots registration. This does not always work? A simple infelbox about 1/2" away from the modiver during which dials it and talks me to insert the quarter. I then simply since the phone stems to be malfunctioning. She then from but it decon't but to use it all the time. Also, I

money-hungry corporations is to simply destroy the device such as an electronic space lighter like those he had to check his COCOTs to be sure the rate chart talked to a COCOT exper and he sold his phones were on the phone line coming into the COCOT. I recently company. Out the receives off the phone if possible or to prevent any further resenue being made by the with to pay! A good technique to use on these type of cannot dad a legitimate add to 903 no mottet how you not talking about 1950g to phreak the COCOT. You besteeds think you are trying to dial a 1-900 call I am anywhere in the 903 area code from these COCOTs. Louisians. They have their COCUTs placed at Knoger COCOT company called Coin-Call operating to need for starting barboous firms, one could probably of the phone with a sharp sail and their connect a was not reset to send if one could piece the speaker He said anytime there was a storm in the dearby area extremely sensitive to lightning and classical atomsphone in my opinion. Super give the look and noin such the dama phones do not take the call! I wourse there Whenever you try to place a legitimate call to you know, the 214 area code split up into 903. stores and other locations throughout Lociticate. Coop a reseries up the rate than. Save your cours and call for Also, I thought I'd tell you about a cheap-ass

aware of the problems COCOT owners are faced with the phone companies that many of an need to also be While these kinds of "notations" may make you feel outage. Perhaps leveling the state of New Jersey? to know what you have planted for the next AT&T the COCOT is the solution to this problem, and if the COCOT owners need to be Beld accountable, just like hetter, they really don't do each to toke the problem. programmed into them yet If you believe destroying into the 903 area code is because it hasn't been The only remain those COCOTs are not dialog Arkansas Coin Collector

adout this the next time you blow one up. make COCOTs as anappealing as possible. Third eiffer. It's in the interest of the phone companies to will get preferential measurest and the others will that also operated peophones. Obviously their phones information would not be controlled by a company system was really fair, the billing and roading technology must be built into the phone itself. If she that "regular" payphones do. Therefore, all of the COCOTs don't have access to the same rechnology because of unfair practices by the phone companies.

that your "potential ANI customer" would like a line this method. for a designated period (usually three hours at a time). call to the sales office (\$17-877-5629) to inform them call/request. Thus, there may be some apprehension to Probably not without MCI Security logging the will contact MCI, who will in turn allow ANI access demo of their ANI system software, and their office still in service, but only with a prior request (voice) line (Access Logic Technologics, Fort Worth, TX) is As most of us know, the 800-933-3258 ANI demo

Board for the Tandy Corporation. Now that is a very president (foe Sigler) is also Vice Chairman of the A tidbit of info on Access Logic Technologies: the

call through alternative carriers delivers the same end is processed despite the rooting procedure. Placing the numbers are AT&T provided, and the ANI information call is direct dist or operator assisted. Those two 800 at that point. I'm sure the call is logged somewhere department voice mail," and your call will be truncated in Chicago, has two 800 access Enes: 800-282-0911 with AT&T. The ANI works regardless of whether the suspicion, you may then ask to be routed to "sales connection, a live operator will repeat back the number weekdays and 800-447-5168 weekends. Upon Emergency 24, a nation wide alarm monitoring service you are daing from through 800 ANL To alleviate There is yet another procedure for ANI

notes" can be found at the end of this rather thick orders. Teleone Corporation of Bothell, WA has a call to 800-426-3926. Some interesting "application been established for a copy of their listing and for must for one's bookshelf. A call to 800-521-2673 has "Telecom Design Solutions Catalog" for free with a npho." "The Catalog of Technical Information" is a Bellenre has a new publications listing of Tech

800-service subscriber, have the CO remote-forward the call to your own number, and with ANI-500 ID available, it seems feasible that you could become in appear. For those areas where ANI services are not yet reporting formats right down to operator-station subscribers, either with internal call-tracking and 800 calls? The service is available to all 800 any methods and there to block the ANI information on supply catalog. Haally, a couple of queries. Any readers know of

> know if it will actually work in application theory? hardware and software, voils, ANI Do any readen,

State a

### FAXers Beware

present." central location where a STO FAX MANager is over the selephone line from a remote location to a the box on page 45 about faxing a message. Fax playback of the signal, which can even be activated faceimile signal. The manual mode is used for the mode is used for the unattended recording of the two working modes, 'auto' and 'manual.' The auto battery, or supplied by an AC adapter. The unit utilizes of the other FAX MANager products. It is fully printed out at a central location for auditing with any formatted DAT tape. The stored data can then be digital format. It then stores them onto a specially telephone systems and converting these signals to a for acquiring facsimile transmission signals from description, "The Satellite Legging System is designed but the company will sell it for export. According to its One device, known as the STG Remote Smelling industry of facaimile monitoring and legging devices that matter, data transmissions. There is an entire transmissions are no safer than regular voice, or for enjoyed it very much. However I was dismayed to see The unit is self powered by a built in rechargeable portable and housed in a sugged Halburton zero case Logging System, is meant for law enforcement only I just recently received my first issue of 2600 and ]

Hollywood, FL

suppossible to determ And, from what we hear, they're virtually

## Prodigy Far From Gifted

Dear 2600:

can afford.) But STAGE DAT really is the last stars. demands for a loaded FC or Mac that few home texts and remarkably slow response. (Oh yeah, and its its on-serven advertisements, consorable of exers' mail, I'd agree that Prodigy is a real turkey, if only for

eaught, it is clear that IBM and Sears did intend to read name computers. Contrary to the bullshis given out by them when

somethy used for marketing purposes.

ONE: The STAGE DAT file of one user was telephone numbers when examined. Some of these did found to contain a whole group of mail addresses and technician, that prove this trick was done for and role as a computer and private phote system I'm aware of two borner stones, first-hand in my

possible legitimate explanation. same sub-directory path as Prodigy, there was a programs the person weed, and since these were in the correspond to names and numbers in other modern

The source of other names and numbers was a

good that they were in word processing files, that is to numbers in any modem disling list. The more soon mystery as they didn't correspond to names and had send word processing files in a different sub-Werdstar used didn't have a telescen module.) Prodigy age in individually addressed letters. (The version of

again. The new rame and number was found within it. confidenced. After this, STAGE.DAT was looked at name with a phone number. Then Prodicy was But were once physically stored where Predigy is now. gredon' This proves that Procing deliberately incorporates this Wordstar was booted and a letter written to a dunctry information every time it's run! As a test, to rule out an accidental reading of files

through Centres. an't garewayed), it is done through moderns, dialing has to be made with another work group (whose LAN are used within departments to link PC's. If contact TWO: In a place where I do wiring work, LANs

Dames like ABLE LEGAL, BAKER LEGAL, consisting of a name of the location as family and SALES, BAKER SALES, CHARLEY SALES CHARLEY LEGAL, DEUTA LEGAL, ABLE alpha memonics as given names are erested. To witand, since the suftware demands rames, durany names locations are given proper mailing addresses, numbers, DELTA SALES, ABLE SHIPPENG, exc. are given to Now, due to the software involved, these other

compater in the legal department would know that it company, a person sending a decument to a certain are never used outside the company. Also, in the etch computer. arbitrary first name given to that computer. was in the legal department, but would never know the Furthermore, these arbitrary company "names"

can read this password protected file. program, to know what arbitrary first names were given for system maintenance. And only management In short, there is the way, again from reading the

names are captured and actually used for mathering SUPPENG," "ASLELEGAL," excishowing dut these company addressed in such "people" as "ABLE computers, junk mail from Predigy arrived at the Yet, shortly after installing Prodigy on several

stories prove that it isn't an accident it really was a once to exist after it's bern deleted, these two homos deliberate process. They just got caught While MS-DOS has a well-known flaw that allows

company can show that this information was not demand on explanation from the Prodicy people. If the here without doing a thorough intestigation. We hope many were so quirk to excuse what was happening attention. We've always found it disturbing that so that such letters were exertised, it should get some referred in any way and can come up with the proof A most technicating account. We think you should Brooklyn

permises that may do even wome things more people continue to look into this and all future

General Questions

Dear 2600:

was beging that perhaps you might be able to help that I would like to have more information on and I techniques described). There are a number of region (a)though I have never fried any of the interesting These areas include: I cripy reading your fire, informative magazine

this tacknology to observe others? How can we shield our equipment? How can we use A. Tempest. How does it week? Is it a stell threat?

many eventure coentries, is there a way to bypase this the phone is ringing, use the 2600 hertz teste to them pumber in Canada where no use is home and, while problem? Is it possible to, for example, dial to a Contraction. Personally, I would be too alight to even try such a code and number of the non-direct link country? get into the operator made and enter the desired area B. Since direct dialog is restricted by the U.S. to

conversation by first dialing a code and then redialing number. I have beard that it is possible to have to the the number. Is this, or some variation of this, true? C. When you receive a busy signal after dialing a

entening some type of code? Also, is it possible to protect the security of your code or decyphening what is seen with the ring signal? perhaps after the conversation, either by typing at a this, is it possible to determine the source of the (Septification). Even though the state does not allow phoot company to offer ANI (Automatic Number phone admber when you are making a call, by perhaps incoming call prior to picking up the received of D. Correctly, New York State does not allow the

a senator. About ten minutes after our convensation. of the next half bout. Can you explain what was Effect seconds. When I picked up the phase, no one rang with a very law surger wand noticely for about my phone stanted to do very strange bings. The Jhone was there. This happened several times over the courie E. Two years ago, Lecensed a telephone cell from

Without Longline New York

receivers that can read what is on a CRT screen of shielded against this kind of thing. Short of expensive the TSR 2000 made by Shield Research in Stockholm assumers of up to a couple of miles. One meth device is To the best of our knowledge, rebody can spy on these liquid crystal display (LCD) revolution and less CRTs within the next decade we'll probably be using more sort of thing. You can take confort in the fact that shielding, there are no real protections against this Sweden (+46 & 6796205), Tempest equipment is A. What you're referring to are surreitlance

saing radio wares. 8. That thad of trick has been used for quite some

east's sligh there differently. But it would be a great States. Canadians needing 800 numbers in the U.S. weated. Such a service wouldn't even cost the would then transfer them to the 600 number they pervice if they could call a number to the U.S. which Canada before they were allowed from the United For impance, calls to Albania rould be placed followsh legideauniy in other constrict to go to different places. there's no reason why calls cannot be transferred time. It doesn't work as frequently paymore. But

being sent out through Callet ID. But you're as needs's be concerned at this point about your number being paid to the Callet ID issue when ANI just long, he a way if a treate that so much attention is operator but we don't expect this method to had for another from getting strongh is to go chrough an in the majority of cases. One way to prevent your vulnerable to AMI as payone eiter. the service is not being offered. For that reason, you likely that the Caller ID signal is being steal out since the status thing. In answer to your question, it is not far as most people are consumed, they're both doing slipped in without any questions being embed. And, as aumber can get the aumber of the people calling them store just like anywhere else. Acyone with an 800 homeser, is passed along to 600 numbers within the D. With New York design of Caller ID. AN

sendor calls. We'll just have to ask ground E. For all we know, this happens every time a

### Red Box News

sized compenents and sometimes it's difficult to get placement if you can live without the programming doubte-faced tape to the circuit board area where the mode) and mounting the crystal with a small square of the high priched beeps when in the programming nickel-sized transducer near the speaker (it produces conversion. On one unit I ended up removing the putting the two halves back together during the the new crystal to fit just right without binding when use slightly different (but electropically equivalent) residence or any hulges. The noticed the autochelers tones). The unit should map together without intermittent operation (i.e., breakups in the series of sure the metal can of the new organi is not reader any transducer is just above. It's a good comfortable reassembled. In my initial conversion it resulted in physical compression or stress when the autodialor is Here's a Radio Shack accodater update. Make

code Coold it be because they don't send out Caller (serviced by GTE Mobiles) can't call the 900 area received my phone bill and call detailing seport, the marked down the date and time of the call. When I phone call me on any Sprint 800 line. I carefully ID information? I had a friend with a celiabe car Also, in thy area code (216), cellular telephones

cellular call wasn't out there. Can you explain this?

a recording repeats the number and says "it is being weeks now. It's interesting I got a phone number at all checked for trouble." I've heard this recording for my friend's cellular phone. When you call this number on the 800 bill. Can you figure our what the steep is suburb). This was a completely different number from and listed the city as Popper Pite, OH (a Cleveland time my call detailing showed the number 360-3031 phone ring five or six times before answering. This I tried the experiment a while later letting the

Pete in Akron

in. The "being checked for trouble" recording could mean therath anything. We've men them stay up for explains why you get a recording when you my dialing phone numbers. AM will not pick them up i This (Celiplan phone numbers are not "real" like home Mobilities which uses it to place outgoing calls only ALC: N In all likelihood, the number is owned by GTE

## Suggestions/Questions

Dear 2600:

dialog, or local dialog to Milast), more experience experience backing into Milnet (from an Internet in the Midwest), and miss it terribly. I have a little to obtain. I remember the good oil they of RipCo (best I would consider myself a mid-level backer, now post-adolescence. I remember the "old days" well. especially when execusts of any sort were impossible and various UNIX systems. messing with internet (about 2-3 years hard hadding)

Please treat them with a little more respect, they're has the true flavor of an underground publication. even though the newsletter is disjunctional (in best), it and off) for a number of years, I am disturbed by the really good kids. After reading your publication (on hire more people, and get more personal. administrative trend you seem to be taking. Please I've been a subscriber to TAP for a while, and

### Lake Forest, EL

Dear 2600: We'll have to have a committee book into it. deposit the form of a second part of the second of they?! We haven't seen an issue in months! Being We agree about TAP. But where the hell are

While reading some of your back issues, I noticed

new trainer and soon and, if we can get a together shouldn't be too difficult to track it down. We'll have a these still evailable? If so, how much? Also, do you electronic hacker magazines. If PHUN isn't there, is isses of any interned/dense node that has copies at ads for 2660 teshirts and 2600 fluoro-stickers. Are PSPON magazine that are available for executaous You can rry off ory for back issues of various Midnight Caller

Dear 2600:

number or address for this company because the 800 the Summer 91 issue, page 23 (International not work in Canada. number Lord in the article "The Class Stogged" does Micropower Corporation). I need a local phone I'm writing in regards to a company mentioned in

Saskatoon, Sask.

Canada

West Spring Mountain Road, Easte 60, Law Vegas, NY 89102. We weren't able to get a local number for The address we have for that company is 3395

Dyar 2600:

somewhat supposing that in Dr. Debe's April 1991 (particular platforms and operating systems). It is edition). As you are no doubt aware, PHUN has have source code or infected disks of some of the of worms and wireses -- only such "legitimate" ability, and interaction with their environment are a useful means of tackling "artificial life" questions are a movied at programming. I find wome and vinces attempt to avoid detection and reproduce). Although I of them have no "destructive" dimension, they samply sophisticated anti-detection espabilities (in tact, many and some of the newer smallh viruses have more Those viruses, however, see about five years odded. College" Boot Infortor Virus (Issue #4, Vol. 2, Phile provided useful study material: Testa Coll's "Virusou Vina Information Summary List (February 14, 1991 Whale) which was doubthed in Patricia M. Hoffman's recent MS-DOS "stechh vicoses," in particular the was wondering if anyone associated with 2600 would information or point me in the right direction I would fractals. If you can provide me with forther programs as ocural nets, genetic algorithms, and special some on Boccomputing, there was no mention because of their relative autonomy, reproductive and Southern Cross presented the "Alameda Bürger's wormbly oode visus (Esse #3, Vol. 2, Phile Assembly, Pascal. Basic, and Batch" featured R. Whale (alias: Mother Fish, Stealth Vieus, Z The In a recent stone, you provided an Alan virus. I

Ottawa, Ontario

Dear 2000: If well wind up. page 43. If such information is available, that's where We suggest boding in the 2000 Marketplace on

article on how this can be done. transpontable phone. I would be interested in seeing on your cellular phase to hear other phone calls other than themels. I would like to try this out on my Mitsobishi keyboard and then you can bear other collular supposed to work by entering a code jate the phone's your own (for test purposes only of counce). This is My understanding is that there is a way to ove

> Hopping" in the March 1991 issue of Manitoring Times, If we get additional tigle on this little of thing, we'll prior it. We suggest reading the article "Cellular Phone

Caller ID Decoders

with LCD or LED displays, or a personal componer detector. The semiconductor device can be interfaced decoders! Motorcia Semiconductor, Inc. of Austin, TX ergineers. Even the call is free! The prepared to give The company is giving away feet MC145447 sample integrated, single-ship Caller ID decoder and ring has announced their new MC145447, a fully Dear 2600: Modeota can be reached at (800) 521-6274 kits with sechnical data to "qualified" electronic design our company name and application requirements.) It is now possible to obtain free Callet ID

## Hacking UNIX Passwords

decrypting it at home. I have problems with this. passwoods was to get a copy of the /eto/passwid file and graded that an alternative and safer means of decrypting easy to detect by system administrators. You both published in the Spring 1991 some became it was too letter writer criticized the program called Uhacker, In the last letters column, your editor and another

Deor. essentially worthless for achieving our desired goal related to cryp10 that can be found in any libraries or who says they have that in full of it. The only thing have the source code for the kernel itself, and anyone system call, which means that it is built into the kernel. that to decrypt pusswords. First of all, crypt() is a like it) from your target system, complex it, and use copy of the crypt source code (or something that works internal machine language routines, which is "include" files will be the C interface to the kernel's Exercisors, there is no source code for it, onless you First of all, Mr. 8d stated that you should get a

uphaukable. sequence of random bytes, something which would be latter, even if you had the DES energytion source code. since it is built into the kernel itself. Assuming the there is no way you can get at any of this information, each use their own unique energetion seed. Either way, use the statebard DES encryption algorithm, but they its own proprietary encryption sortine, or b) they all possible reasons for this a) each version of UNIX uses each system, which can be proven by comparing the you wouldn't have the key, which could be any input (cle/passed files. They will be different. There are two same energical password entry on two different Secondly, the encoption of passwords is unique to

way to decrype passworth is to do'it directly off of the nothing most than to be able to safely implement what you guys are suggesting at home. As I see it, the only If I am wrong, please tell me because I would have

Ŕ

other things. We'd like to bear ideas.

decapting passwords to home, since yet believe that users, please explain how you would go about native system, which is, of course, very risky. Since information rather than withholding it from less elice your opening article encourages the free exchange of

New Haven, CT

the two parameters to the coupy) procedure. This the pattered file for a specific pattered might be stand the password even though the encrypted every in allows the brule-force approach of the program to ahe name two letters as the salt, which gives at one of hocker program, the encrypted password party with encrypted password. Formastely for the password lement that is used as the seed to generate the the "soft," a string made up of two possibly random the "purposed" as we all know it. The moded one is can remember and real stem. The first parameter is groups of hits. They are presented as strings so that we input parameters which courist of two strings of parameters. The key to the behavior of crypt() is the cryps) should be the same given the same input implementation, but the output of a procedure like and vary somewhat depending upon the that it does not? I great deal from version to nestribe especialist computer it is being the on. We do realize to behave the summe to the user and programmer no different on a different system. If you clease a new DMD to a standard, meaning that it was designed

> penerate the "salf" like the system clock. program acually relies on some randomness to resulting encopped parmoral decade the "passwif" parment hier, you are unlikely to obtain the nates

is widely available. erget) routine at home, since the entryption algorithm Finally, you should be able to implement the

Voice Mail Fun

Dear 2600:

are toll free as an added extrafor British Petrolaum (BP America). These numbers bank. There managed to find the voice bank number system. It spens that ROLM PARX systems transfer all VMS messages to a centralized voice message I have discovered a major flaw in a voice mail

calling the voice back and entering the catenaire (of to (I believe) a 24-character possword. Hence it's the person whose box you wish to open; the box pretty hard to crack to large quantities. However, on exessages for everybody in the company. data delete, save, listen to, transfer, and reply to opens. No exercisine, no password, no protection. You The VMS requires an eight-digit username and up

Newcastle Upon Type

who with all the gar and differences can always pop up. ROLM Phonemail systems we know that it goes to We can assure you this doesn't work on any of the

reached at 516-751-2608. Our Internet address is 2600@well.sf.ca.us. And for perhaps not printed at all! Anything is those of you who prefer the U.S. mail, Letters may be edited for brevity or There are many ways to send us letters. Our fax machine can be Middle Island, NY 11953 our address is: 2600 Letters PO Box 99 possible.

would begin to learn something. MCI can therefore be defined as learningcommotion about privacy invasion and tack of security that big corporations You would think after all of the

regular rates. In a way, MCI has gotten family to sign up for MCI. Then, refuse to sign up with MCL putting the guilt trip on relatives who In fact, we've even heard of families them. That part is actually rather clevertheir customers to do their selling for too have MCI), you can save on the Basically, you get your friends and whenever you call them (assuming you Friends and Family Circle gimmick You may have seen the ads for their

telephone number and then, to verify who's been dropped, etc. The touch tone circle - find out who's currently on it, can check the status of their calling phone number, figuring out their zip Obviously, when you know somebody's that it was really you, your zip code! service would ask you to key in your with their 800 FRIENDS update service. of the people in your circle was also calling circle, anybody could get them. customers' frequently dialed numbers. It way of anyone having access to the only bit of seconty standing in the code isn't all that difficult. Yet this was This number exists so that customers And, not only that, but the relationship were unlisted. If they showed up on your made no difference if these numbers quite a bit of information on MCI 202-456-1414" and so on. One could get \$16-751-2600, your brother-in-law at announced, Example: "Your wife at But where MCI really messed up is

> telecommunications radio program in security live on the air and told New York. We demonstrated the absurd WBAI's Off The Hook, the weekly was quickly changed. Now you need the Apparently they did because the system everybody to call MCI to complain. last three digits of your account number for venification. We had a bit of fun with this on \*\*\*

carrier access code which is owned by 404.) If will only work with the 10732 (You might have to dial a 1 before the However the number won't work from number but we're told it doesn't charge that's making the rounds. It's not an 800 take comfort in a brand new number of the various 800 ANI numbers can recording seems to always add the number eight to the end. AT&T. And for some reason, the payphones. It's 10732-404-988-9664. Those of you still mourning the loss

be automated before long. numbers are only as updated as the most minute.) The only disadvantages are that try to keep you on for a long time. (II phone number, assuming it's listed bad deal. For \$1.50, you can call 900-Friday. However, we hear that they will 6 pm, Eastern time, Monday through the service is only staffed from 8 am to recent phone book from that region and you do stay on, the cost is 75 cents a the human operators that answer don't database of over 80 million numbers and Telename of Springfield, VA has a 884-1212 and get a reverse listing on a finally found a 900 number that isn't a It had to happen eventually. We

Aufumn 1991

customers rather quickly.

# USPS HACKING

by The Devil's Advocate

so fond of creative exploration: Hackers! explored by that very same bunch who are error. Most importantly, it beckons to be inconsistencies, and is prone to human technical jargon. It is riddled with complicated, with lots of acronyms and is just like any other system. It is huge and The United States Post Office (USPS)

POSTNET

equipment. The term "POSTNET" refers the sorting of letter mail by automated system initiated in 1983 to help accelerate Technique (POSTNET) is a bar code The Postal Numeric Encoding

represents w hich to a but code

by an Optical Character Reader (OCR) on business or courtesy reply mail by code, POSTNET is most often preprinted digit ZIP code, or a nine digit ZIP + 4 businesses. POSTNET can also be jet either a five sprayed on envelopes that are processed

long bars. The only special case is when ZIP + 4 number is obtained by adding the consists of a combination of two long bars values of the positions containing the two values from left to right are 7-4-2-1-0. A group has a corresponding value. The and three short bars. The position in the represents one ZIP + 4 number. The group group of five bars after the first guide bar determining the encoded ZIP + 4. Each with binary. The first and last bars (always POSTNET is easy for anyone familiar a checksum number. Learning to read bars encode a nine digit ZIP + 4 code plus of 22 long bars and 30 short bars. The 52 long) are guide bars, and play no part in POSTNET consists of a combination

> the checksum number. For instance, if of the sum is 3, and the checksum is 10is 1+1+9+5+3+0+7+5+2=33, the last digit your ZIP + 4 is 11953-0752, then the sum sum, when subtracted from 10, will yield ZIP + 4. The last digit of the resulting can determine what the checksum number end for the purpose of error detection. You also includes a checksum number at the the number represented is zero. POSTNET should be by adding the numbers of your the added values equal eleven. In this case

preprint the ZIP + 4 POSTNET on The USPS encourages companies to business

This POSTNET encodes 11953-0752.

> reply mad by offering

POSTNET is not only in savings but in postage rates. The advantage of using speed. Letter mail that uses POSTNET is mail which does not use POSTNET, processed faster and more accurately than reduced

separates POSTNET letter mail from mail they all face in the same direction; 3) It purposes: 1) It cancels and postmarks that does not use POSTNET. letter mail; 2) It arranges letters so that The MARK facer-canceler serves three

preprinted Facing Identification Marks pastcards or envelopes, and meter marks. phosphor on stamps, pre-stamped The MARK is also capable of detecting detect the presence of minute traces of phosphorescent detectors that enable it to The MARK utilizes fluorescent and

every card will contain a FIM. These sixbusiness reply mail cards inside. Nearly Open any magazine and you will find

> of the postage area. The MARK recognizes four types of FIMs: POSTNET, but not nearly as wide. They are located at the top of the card, just left line bar codes are much taller than

FIM A Letter uses POSTNET, for courtesy reply mail. and needs postage. Used

POSTNET, and does not need postage. Used for Letter does not use

posmess reply mail.

FIM B

FINC

and does not need Letter uses POSTNET. business reply mail postage. Used for



envelopes. courtesy reply window readable. Used for postage, and is OCR Letter does not use POSTNET: needs

in a tray full of other to casify spot these cards on the right hand side of borizontal bars are located mail is addressed. The the business to which the to indicate that USPS Business reply mail that the cards, and allow clerks must collect postage from use these horizontal bars is necessary) must also uses FIM B or FIM C tuidicating that no postage

> have a bin for every possible orientation. machine right side up, upside down, orientation: Because letters can enter the accepts letters according to their POSTNET. Each group of four bins bins are for mail that does not use POSTNET letter mail, while the other four POSTNET. Four of the eight bins are for orientation of the letter and the presence of FIM). After passing this test, the letter is backwards, or forwards, the MARK must to one of eight hins based upon the then cancelled, postmarked, and directed letter has postage (stamp, meter mark, or The MARK first checks to see that a

determine why they were not processed of the rejected letters individually to be rejected. A clerk manually goes over all envelope, then the MARK's sensors may no postage is necessary), then the letter not have FIM B or FIM C (indicating that not detect the phosphor, and the letter will end up in the reject bin. If a stamp is not letters that do have legitimate postage may will end up in the reject bin. Sometimes does not have postage, and the letter does placed in the upper right hand comer of an lack of postage. For example, if a letter letters that are rejected by the machine for The MARK also utilizes a ninth bin for

2

operator happens to key in the wrong eventually be fed back into the USM. If an letter will go to a reject bin and will operator fails to key in anything then the to one of several hundred bins according machine automatically positions a letter in to the keys that were depressed. If an ZIP code. The letter is then whisked away second to key in the first three digits of the front of an operator, who then has one of twelve consoles while letters are requires a group of operators to sit in front zipping by at a rate of one per second. The 1950's. The huge semiautomatic beast was first used by the USPS in the late The Letter Sorting Machine (LSM)

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code, then a slight possibility exists that the misguided letter will be caught by a clerk before it is shipped. Otherwise, the letter will be delivered to that location, wherever it may be, and will eventually be delivered back again.

console, nor do I understand why the there are only twelve consoles. marker can be one of 319 possibilities if translate a specific marker into a specific nationwide, and each of those LSMs has ranging from I to 9. The marker can twelve consoles. I am uncertain how to different colors, although the color does therefore be one of 319 possibilities. The a letter ranging from A to C, or a number which specific LSM processed the letter. fairly useless because we still do not know the letter. However, this information is marker indicates which console processed According to USPS LSM operators, the not indicate any useful information. marker may also be one of several from A to Z. The second symbol is either every letter that is processed. The marker The USPS uses hundreds of LSMs consists of two alphanumene symbols. The first symbol is always a letter ranging LSM places a marker on the back of

### BCS

properly position each letter because the received from the MARK onto a feeder manually by an operator. This is reply mail and other high volume mail already facing the same way. unit. The operator does not have to accomplished by stacking trays of letters positioned and fed into the machine average clerk. The letters must be properly BCS is considered slightly faster than your sorting rate of ten letters per second, the which incorporates the POSTNET. At a therefore limited to sorting only business POSTNET tetter mail. The BCS is letters received from the MARK are The Bar Code Sorter (BCS) processes

### MLOCE

The Multiline Optical Character Reader (MLOCR) is the latest and most advanced machine in the USPS letter sorting arsenal. This million-dollar monater is capable of reading all of the lines that comprise a letter's address. It then takes this information and compares it against its own internally stored address directory. Finally, an appropriate POSTNET is jet sprayed on the letter so that it can be further processed by a BCS. The purpose of the MLOCR is therefore to spray POSTNET on letters that do not use POSTNET, so that they can be processed

The advantage of the MLOCR is that it can determine an address even if parts of the address are illegible, incorrect, or missing. For instance, if someone forgets to include a ZIP code, or uses the wrong ZIP code by mistake, then the MLOCR can still determine the correct ZIP code by comparing the street, city, and state with its own address directory. It will then spray the letter with the correct ZIP + 4 code (the MLOCR will always try to spray the letter with a ZIP + 4, even if the letter uses a five digit ZIP code).

Early OCRs could only read type or clearly printed handwriting. In the near future, however, the MLOCR will recognize script as well. The MLOCR is capable of reading the address even if it is skewed (i.e. printed at an angle). The MLOCR does not have the capability of knowing whether or not a letter already has POSTNET, nor can it sort mail according to POSTNET. Therefore, it is possible to receive a letter that has two overlapping POSTNET bar codes.

Like the BCS, the MLOCR only accepts trays of properly positioned machinable letters that must be fed into the machine manually by an operator.

### Mail Hacks

There are at least three things that everyone familiar with the USPS would

> like to do: 1) Mail letters for free; 2) Get their letters delivered quicker; 3) Find out why it takes so long for their letters to arrive.

### Free Mail

It is not difficult for someone to mail a letter for free. It is, however, extremely difficult to mail many letters for free. The USPS is always looking out for mail fraud, and has an entire agency devoted to just this task. Even if a good mail hack weeks once, it is not likely to work if used repeatedly. Therefore, if you are reading this article with the intent of saving money by tricking the USPS and mailing letters by tricking the USPS and mailing letters for free, then you would do better to give up now before you are busted. Of course, anyone with even the stightest iota of currently would want to know some of the methods.

Perhaps one of the oldest scams in the book is to switch the destination address with the return address and mail the letter without postage. The USPS will then return the letter to its "sender" for postage. Of course, the USPS is not that stupid, and this trick rarely works for nonlocal mail.

extremely unlikely that they will notice the Facility (GMF) where clerks quickly the hundle will reach a General Mail illegitimate letter, and use a rubber band to another letter that has postage, place the would have to bundle this letter with even gets to a MARK. Therefore, you notice the missing postage before the letter illegitimate letter at this point. From the separate bundles on a conveyor belt. It is will not disturb this bundle. Eventually, bundle them together. The mail carrier letter with postage on top of the that a mail carrier will almost certainly course, the problem with this technique is will not reject it for lack of postage. Of letter tike a business reply mail card, and cavelope. The MARK will then treat this use a laser printer to print a FIM B on an A much better mail back would be to

conveyor belt, the letter well journey to the MARK. Once the MARK processes the letter, it is unlikely that anyone will notice the missing postage until the letter reaches its destination. The final obstacle is the mail carrier that will physically deliver the letter to its destination. At this point, the letter is postmarked, so one can only hope that the mail carrier is not too nosy.

### Fast Mail

Getting your letters mailed quickly is a much better back than trying to mail your letters for free. Not only is it legal but the results are guaranteed.

Normally, a letter reaches a MARK where it is processed and sent to an MLOCR. If the address on the envelope is readable by the MLOCR, then it is jet sprayed with a POSTNET and sent to a BCS. Otherwise, the letter is rejected and sent to an LSM. The one thing your really want to avoid is having your letter processed by an LSM. The operators who run these machines are notorious for keying in the wrong code, causing your letter to journey out of its way to strange and exotic parts of the country. Never write the address on your envelope in script unless you want to delay your letter.

One way you can get your letters processed quicker is to have your letters strip some of the steps in the sorting process. The method involves using a laser printer to print a FIM A and a POSTNET on an envelope. The FIM A will instruct the MARK to treat the envelope as courtesy reply mail. The MARK will look for postage, which you have thoughfully provided, and then send the letter into a bin with all of the other POSTNET mail. This mail will then be placed in a tray and sent directly to a BCS, skipping the MLOCR and completely avoiding the LSM.

By using POSTNET, you are taking advantage of the same multimillion dollar equipment that is used by husinesses.

Page 34

multimillion dollar machinery. pleased with your creative use of their letter. In addition, the USPS will be leaves the BSC, no clerk will see your enters the MARK until the moment it by machines. From the moment your letter that your letter will be processed entirely Another selvantage to using this method is

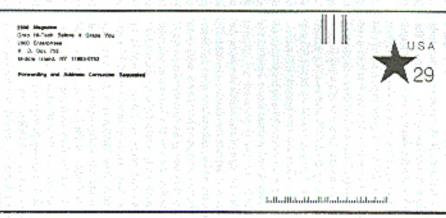
### Snail Mail

delayed. You should also flip the letter that it represents your ZIP code. If the analyse it for telltale USPS markings that letter, even if it is processed by machines. and the average clock can screw up any processed by both a BSC and an LSM mind that it is not unusual for a letter to be country before it reached you. Keep in whipping back and forth around the your letter probably had quite a journey covered with them, then you know that markings. If the back of your letter is should not see any more than one or two over and look for LSM markers. You certainly explain why your letter was POSINET is incorrect then that would can then read the POSTNET to make sure processed by an MLOCR and a BCS. You on it, then you know that the letter was was processed. If the letter has POSTNET may give you insight into how the letter next time a letter comes in the mail. so long for your own mail to arrive. The this information to determine why it takes your letter when you mail it, you can use Not all GMPs use the same machinery. Now that you know what happens to

### Further Reading

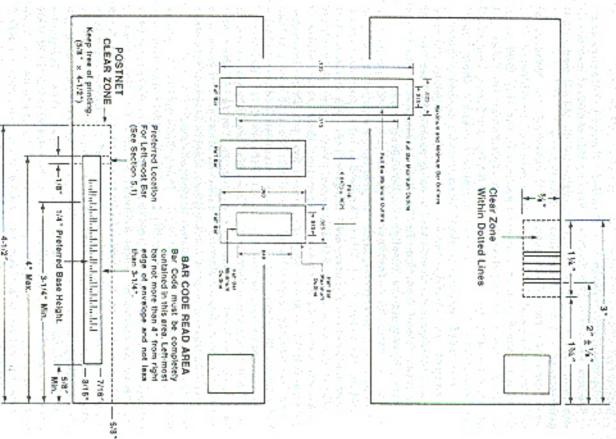
by writing to this address: You can request a copy through the mail free-of-charge to all business customers. the USPS (Publication 25) and is available Preparation. The pamphlet is produced by that you obtain A Guide to Business Mail machines that process mail, we suggest learning more about POSTNET and the For those of you who are interested in

> Regular Mail Services Division Washington D.C., 20260-6336 475 L'Enfant Plaza SW, Room 5541 U.S. Postal Services Headquarters. Marketing Department



standard desktop publishing software mail. letter, it should get back to us with all of envelope. If we ever decide to mail this the speed afforded to courtesy reply two barcodes on the prestamped A laser printer was used to print the POSTNET on this envelope using We designed the FIM A and the

> This information was obtained from A Guide to Business Mall Preparation (Publication 25). Use these diagrams to design your own FIM and POSTNET.



on. The Enforcer is an archetype, a genetic personality type that exists call them archetypes: the Orphan, we fall into categories. Mythologists gatherers, so it is no surprise that successful tribe of 15 to 30 hunterin every society. the Warrior, the Wanderer, and so We are all descended from a

crazies rule the nation. America, these types are (ideally) distinguish friend from foe. In paranoid schizophrenic, unable to enforcement personality is a Investigations. In other places, these At its most extreme, the out by Internal

thinking of the Enforcer. of belief. The mere passage of a bill actually shows an amazing elasticity sell and consume hard-boiled eggs into law will re-organize the hackers. In this sense, the Enforcer make hard-boiled eggs illegal, unheard of. If the legislature were to convinced of the rightness of their with the same vigor new devoted to Enforcers would pursue people who ideas. Philosophical doubts are First and foremost, Enforcers are

better equipment or tougher laws evidence, the Enforcer claims that belief is proved wrang by physical will solve the problem. experience. No matter how often a incapable of learning from As a corollary, the Enforcer is

and who stopped the presses at nailed Shadowhawk in a magazine Phrack He told the tale of how he prosecutor who busted Shadowhawk William J. Cook is the federal

> of the Enforcer. insight into the mental mechanisms Reading this periodical provides an called Security Management.

into NATO, Air Force, and AT&T hacker bulletin boards." Shadowhawk," by William J. Cook was based less on genius and more appeared in the May 1990 issue. hacking techniques learned from on using passwords, user tips, and "Shadowhawk's method of operation Cook explains how the hacker got computers and then says, \*Uncovering the Mystery of

calculus, Maxwell's physics, and genius and more on Newton's "Einstein's theories are based less on smarter than you. This is impossible of genius. As a programmer, you mathematicians." tensor algebra learned from other Nazi refutation of Relativity: Cook's statement and make it into a admitting that someone else is versa. You have no problem things well that you do not and vice for the Enforcer. It is easy to take know that other programmers do The above is an example of denial

calling" fraud, perpetrated on AT&T revenues, he explains the \*code by trucking companies. "The caller companies are cheated out of their many ways that telephone Fraud Control Association in director of The Communications Anderson is the communications issue of Security Management. published in the February 1990 Line," by Langford Anderson was McLean, Virginia. In outlining the "Doing Time on the Telephone

> AT&T operator time was incredible." seven days a week, and the cost in This would go on 24 hours a day, call would be refused, but the name collect call for Fred P. Jones III. The Nashville en route to Kansas City was a code that let the company would ask the operator to place a know a driver has half a load in

eyes of the Enforcer. companies committed "fraud" in the that system, these trucking system. Yet by taking advantage of opportunity. AT&T defined its own This is an example of denial of

rates. Perhaps we are to believe that were already built into the phone divestiture saved the company. existence in 1970 and only this activity leapt into sudden survived suggests that these costs college kids, millions of people took this insight. Salesmen calling home, advantage of this loophole in AT&T vision. Trucking companies were not the only ones who benefited from It is also an example of tunnel The fact that AT&T

almost humorous that the S&G ad not impenetrable, barrier. It is combination locks are only a bigger, indicate that the S&C dual-dial figure. Simple arithmetic would is lost on the Enforcer who passively example of feathering one's own nest employs Costley. This blatant spin 230,000 combinations in 30 reincarnation of Richard P. Costley's "Cracking Down on the New Safecracker," No, it isn't a tunnel vision comes from Brian D. accepts the offerings of any authority Greenleaf, the company that for combination locks by Sargent and Feynman, it's an autodialer that can hours. The article surrounds an ad Yet another example of this No, it isn't a

home that says "Windsor Castle (r).") cool it would be to nail a sign to your relies on registered trademark Sassande: manipulation-proof." (Think of how Despite the image of the Enforcer \*spy-proof

enforcer can only be protected by point, the belief structures of the mysteries), the truth is that at some (promu)gated by police procedural who is dedicated to facts

objective reality can be found in article appeared in the May 1990 Standards and Technology. The director of the National Institute of issue of Security Management, by Raymond G. Kammer, the deputy "Defending Against Virus Attacks," An example of this deniel of

created another commuttee which in National Security Agency, Rather Department of Defense and the the Internet Worm (he calls it a and news releases. In response to article describes committees, studies, article alludes to private sector viruses? No answer is given. The failed to provide any products. Columbus Day Virus of 1989 but turn warned computerists about the than create computer programs, they "virus"), the NIST worked with the solutions, but none is named. The How does one defend against

of the software industry has been author also says. "A thorn in the side transfer from PC to host." The protocol in data processing — file article is a complaint against "a new of the denial mechanisms involved Management, January 1990. The by Darlene M. Tester, Security comes from "Headache for the Host" itself as paranoia. A perfect example from reality eventually manifests For many Enforcers, this divorce

different name — 'nonpublic domain' software comes under the guise of a public domain packages, this the software industry.... Unlike other reproduction services.... File transfer bulletin boards and pirate data public domain software.... In the protocols are entering this sector of been available through PC network past, these software packages have

admit she is smarter than [1] ever she can read hex code that well, I it for logic bombs or time bombs." If hardcopy of the protocol and review system administrator must "print a permitted to losd programs, then the Failing that, if users are actually users from mounting such software. file transfer protocols are to forbid Tester's solutions to the threat of

accuses unnamed persons of phrase "fairy tale existence" and neurotic individuals. Tester uses the manifest themselves strongly in psychological mechanisms that Projection and transference are

> people are "paranoid." claiming that unnamed security

appear in her technical essays. face these fears, they wouldn't is a "host." She fears "mounting," considering that, as a woman, Tester have a good safety record. That fact, "has a headache." If she would the level of reality denial by be safe from viruses? You can gauge if it meant that mainframes would line at executing one Eskimo in ten safety record must be maintained at paranoiac's manifesto: "Host systems protocol systems" that are safe and all costs." Would Tester draw the Tester alludes to "name-brand Tester closes her article with the reliable, but doesn't name any. penetration," and "infection" and in Continuing not to name names,

individuals, America from these deluded constitutional restraints will protect that the Enforcer is a terrible the strongest judicial servant and a fearful master. Only You can see from these examples

ocal time. See page 41 Briday of every month Francisco on the first 2600 has meetings in for specific details. irom 5 pm to 8 pm New York and San

# 2600 marketplace

Payphone numbers: 415,398-9800,4,5,6. Pacific Time on the first Friday of the month 4 Embarcadero Plaza (inside) starting at 5 pm Meetings also take place in San Francisco at near the payphones, 153 & 53rd St., NY, 212-223-8927, 212-308-8044, 212-308-8162 Psyphone numbers at Citicorp: 212-223-9011 ssk questions. Call 516-751-2600 for more info between Lex & 3rd. Come by, drop off stricles, the Chicorp Censer--from \$ 10 8 pm in the Jobby

#82, Long Beach, CA 9080#4682. Please send price/dessifs to A.G. Morris, PO Box key must be user changeable from emerior of unit units using DES encrypt/decrypt algorithm. Code telephone line voice scramblers. Prefer digital WANTED: Schematics and data kits for

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# MORE EXCITING PRISON NEWS

PUBLICATION DENIAL NOTIFICATION:

TITLE OF PUBLICATION \_\_ 2600 \_ Hacken Quarterly Spring 1991 \_ YR NI

The above publication has been reviewed and denied in accordance with Section 3.9 of the TDCJ Rules and Regulations for the reason(s) checked below.

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- (c) Publication contains material that a reasonable person would construe as writen solely for the purpose of communicating information designed to achieve a breakdown of prisons through inmate disruption such as strikes or riots.
- (c) A specific factual determination has been made that the publication is detrimental to prisoner's rehabilitation because it would encourage deviate criminal sexual behavior.
- (e) Publication contains material on the setting up and operation
  of criminal schemes or how ro avoid detection of criminal
  schemes by lawful authorities charged with the responsibility
  for detecting such illegal activity.

REMARKS\_races 4, 5, 7, 9, 31, 33, 36 and 37 contain information on infecting computers with viruses, page 40 contains information on misusing telephone egyppeent to eate filesaments?

If there is a desire to appeal the rejection of the aforementioned if there is a desire to appeal the rejection of the aforementioned publication, this may be accomplished by writing to the Director's Review Committee, P.O. Box 99, Huntsville, Texas, 77340. The appeal must be mailed so as to arrive at the Texas Department of Criminal Justice, Institutional Division, within two (2) weeks of the date.

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Our magazine has been called just about everything under the sun, but this is a new one on us.

# more conversion tricks

by DC

The Radio Shack red box conversion is the greatest example of a remarkable coincidence that I have ever come across. The fact that the timing of the microprocessor inside the device and the tone pair for the DTMF asterisk when sped up creates a nearly perfect quarter tone sequence is beyond luck. The entire conversion is poetry. Thanks for the great work, Noah Clayton.

areade the unit. epoxied together to the back of the unit orystals and the switch which were all out of the back of the unit to the two red box. One thing I didn't like about the crystals, enabling both touch tones and a conversion but incorporating a switch to Autumn 1990 issue of 2600. I have come to offer, considering most of what Radio Ugly. I managed to fit everything neatly file's design is that it had wires coming select between the two different frequency across a file explaining how to make the Shack has to offer sucks and is overprised feature, the best product Radio Shack has a nice product (I believe it is, feature for Since reading the conversion article in the box tones as well as the dialer capabilities. into a red box. I wanted to have the red anyway) I didn't want to just convert mine Being that the tone dialer itself is such

The first thing I did was file the lip on the bottom of the 6.5536 Mhz crystal flush with the rest of its case to give it a lower profile. Locking at the circuit board with the battery compartment towards you. I removed the screw on the upper left-hand side near the two solder pasts and diode and put the crystal in that area. I also reduced the solder on the lower pad to make the shighlest bit more room for the crystal. I soldered one lead of the 6.5536

Finally, I soldered a jumper from the then desoldered the other leg of the crystal. I then soldered the other lead to wire) to one lead of the 3.579545 Mhz opposite the ON/OFF and DIAL/STORE of the 3.579545 Mhz crystal was the microprocessor (the lead that one leg 3.579545 Mbz crystal and jumpered it to the top leg of the SPDT switch and glued works like a charr. switches) and glued the switch in place. It the two halves of the case (the side desoldered from). I cut a slot in the side of middle leg of the switch to the lead into the bottom leg of the SPDT switch the crystal in place with some super give. I Mhz crystal (extended with a piece of

The 6.536 Mhz crystal can also be ordered from Radio Shack, by the way, for \$4.95 each. I wouldn't mention this if it weren't for the fact that Fry's Electronics wanted to charge me eight bucks shipping and handling alone on a cash order.

it. It would be a nice complement to the into the dialer, I would like to hear about to incorporate all needed green box tones box tones. If someone can figure out now 2600 Hz or 900+1500 Hz (the "operator would still need a way to generate either 1100 and 1700 Hz green box tones (1091 generate frequencies close enough to the value) will cause the pound (#) key to value close to 4.1521 Mhz (the calculated 3.579545 Mhz crystal with one that has a "coin return" tone. Replacing the release" signal) in order to send the green the dialer wouldn't suffice because you and 1713 in actuality). Making this mod to can be converted to generate the green box I also discovered that the tone dialer

Readers. Please send us your experiences and experiments to share

Autumn 1991

## useful unix programs

by Marshall Plann
THIS PROGRAM LETS YOU SEE WHAT
ANY WORD WILL LOOK LIKE AFTER
IT'S CRYPTED. THIS IS PARTICULARLY
USEFUL FOR THE NEXT PROGRAM.
#Include -qwd.h->

main(argc,argv)
int argc;
chair \*argv();
(

if (argo>2)

print("%s'n",orypt(argv[1],argv[2]));
else if (argo>1)

print("%s'n",crypt(argv[1],"hi"));

THIS PROGRAM WILL ALLOW YOU TO LOCK UP ANY TERMINAL ON A UNIX SYSTEM UNTIL THE SECRET WORD IS ENTERED. IN THIS CASE, THE SECRET WORD IS DOG. THE WORD IS LISTED IN ENCRYPTED FORM, OTHERWISE ANYONE LISTING YOUR PROGRAM WOULD BE ABLE TO SEE IT.

save this as "secret.c" and type "make secret" or "co secret.c -o secret" to compile.

#include <strio, h> #include <stysfoot h> #include <stynel.h> #include <pwd.h>

msin(argc.argv)
int ergo;
char \*\*argv;
{
struct softwo be

struct sgityth basic; short flags; char str[32];

^ ignore all interrupts that may by to mess up this program like ^C ^Z \*/ for[i-1] < 33.5 gna(i++,SIG\_IGN));

/\* shut off echo and receive key strokes

as they are hit from the terminal 7/
locd(fileno(stdin), TIOCGETP, &basic);
flags = basic sg\_flags;
basic sg\_flags |= CBREAK;
basic sg\_flags &= -ECHO;
locd(fileno(stdin), TIOCSETP, &basic);
locd(fileno(stdin), TIOCSETP, &basic);

" prompt for the input "/
tprintf(stdout, "Enter Secret Words");
fflush(stdout);

/\* get the input until a return or a lot of keys are hit \*/ for(i = 0,(i<31)&&((str[i] = getchar(i)) != 'n')}i++);

" terminate the string "/
str[]- "O";

acknowledge that you have accepted the return by echoing it

fprintf(stdout,"n");

/\* repeat until the word has been entered \*/

while(stromp(crypt(sv, "hi"), "higShQjrCp7Y" ));

" restore the terminal back to the original settings."/ basic sg\_flags = flags; loct(fileno(stdin), TIOCSETP, &basic);

f do something with the secret string here, I just print it out... you could have fun with it printf(stdout,"~%sin",sir); tflustv(stdout);

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